

Part 1 General Information

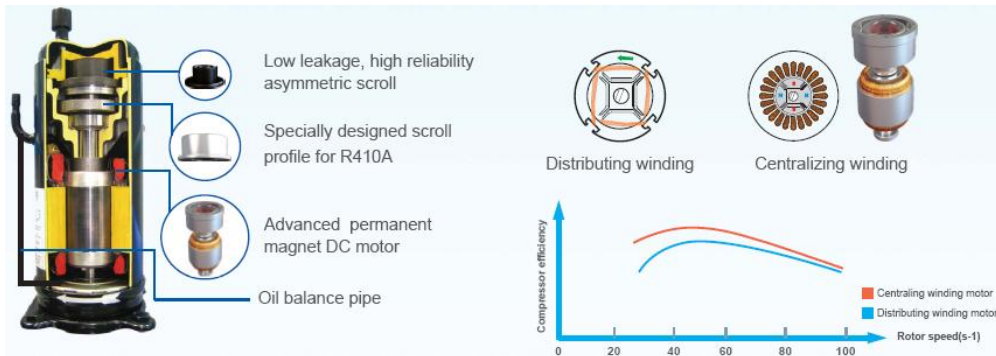
1. Features	2
1.1 Energy saving	2
1.2 Flexible design	2
1.3 High reliability	3
1.4 Enhanced comfort	4
1.5 Convenient installation & maintenance	5
2. Outdoor units	6
3. Indoor units lineup	8
4. Nomenclature	10
4.1 Outdoor unit	10
4.2 Indoor unit	10

1. Features

1.1 Energy saving

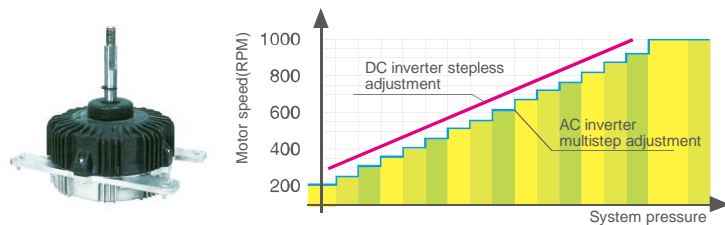
V5 X Series achieves the industry's top class energy efficiency of cooling and heating by utilizing DC compressor control, DC Fan motor and improved performance heat exchanger.

1.1.1 High efficiency DC inverter compressor

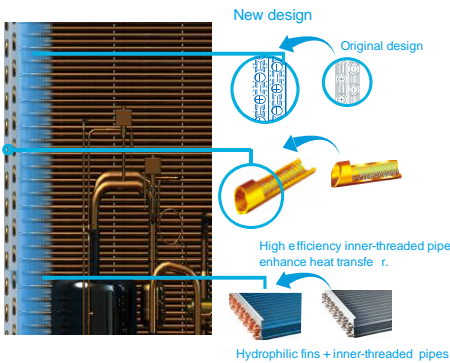


1.1.2 High efficiency DC fan motor

According to the running load and system pressure, the system controls the speed of DC fan to achieve the minimum energy consumption and best performance.



1.1.3 High efficiency heat exchanger



The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance. Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.

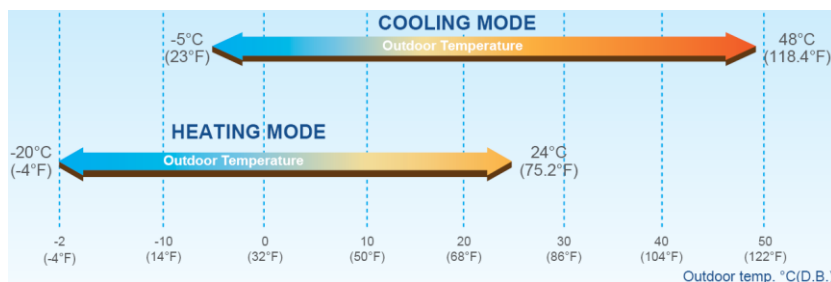
1.2 Flexible design

1.2.1 Wide capacity range

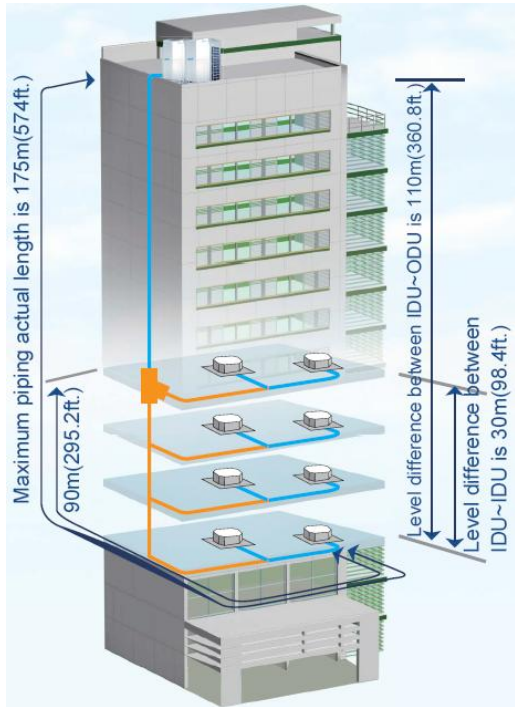
The outdoor units' capacity range is from 8HP to 88HP in 2HP increment. Maximum 64 indoor units with capacity up to 130% of total outdoor units can be connected in one refrigeration system.

1.2.2 Wide operation range

The V5 X series system operates stably at extreme temperatures ranging from -20°C(-4°F) to 48°C(118.4°F).



1.2.3 Flexible piping design



Piping length	Permitted value ft. (m)
Total pipe length	3280(1000)
Max. actual pipe length	574(175)
Max. equivalent pipe length	656(200)
Equivalent pipe length from the first indoor branch to the farthest indoor unit	131.2/295.2*(40/90*)
Level difference between outdoor unit and indoor unit	Outdoor unit is down: 360.8(110) Outdoor unit is up: 295.2(90)
Level difference between indoor units	98.4(30)

* When the equivalent pipe length from the first indoor branch to the farthest indoor unit is more than 40m, it needs to meet the specific conditions according to the installation part of the technical manual.

1.2.4 High external static pressure

High-static pressure propeller and optimized fan guard can adapt to various installation environments. V5 X Series units offer up to 40Pa* external static pressure for customized applications. A standard 0-20Pa function is equipped by default.

1.3 High reliability

1.3.1 Cycle duty operation

In one combination, any outdoor unit can run as the master outdoor unit to equalize the service life of all units.



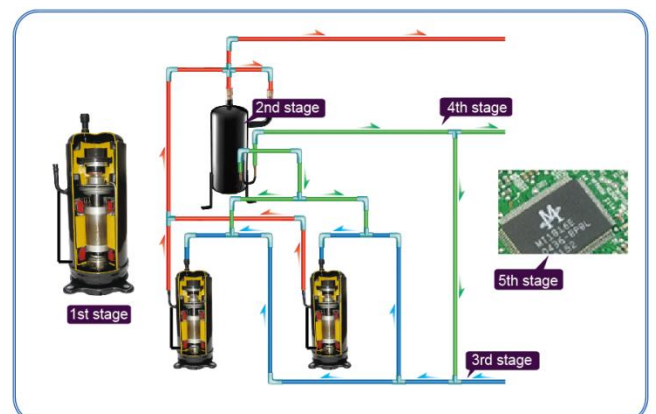
1.3.2 Back-up function

In a multiple system, when the master unit failed, any single unit can be set as the master unit, and then the remaining units can keep on working. This can be set on PCB by DIP switch at site.

1.3.3 Precise oil control technology

5-stage oil control technology ensures every outdoor unit & compressor's oil always keep in the safe level, completely solve the compressor oil lack problem.

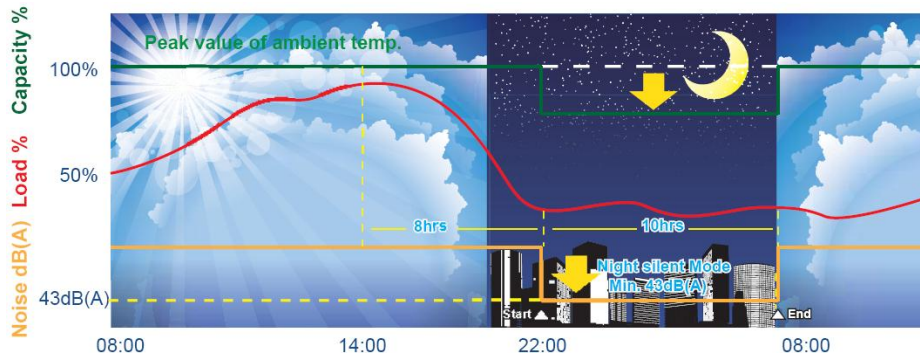
- 1st stage: compressor internal oil separate
- 2nd stage: high efficiency oil separator (separation efficiency up to 99%)
- 3rd stage: oil balance technology between compressors
- 4th stage: oil balance technology between modules
- 5th stage: intelligent system oil return program



1.4 Enhanced comfort

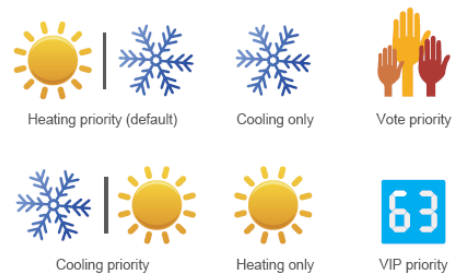
1.4.1 Night silent operation mode

The Night Silent Mode feature which is easily set on the PCB board allows the unit to be set to vary time options during Non-Peak and Peak operation time optimizing the units noise output.



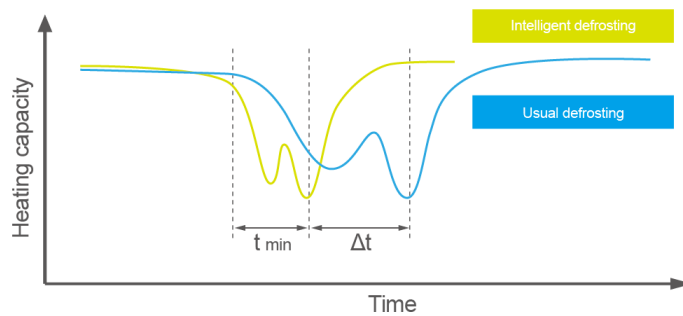
1.4.2 Five priority mode lock function

Heating priority mode; Cooling priority mode; Heating only priority mode; cooling only priority mode; VIP priority mode (address No. 63 is the VIP) or Voting priority mode.



1.4.3 Intelligent defrosting technology

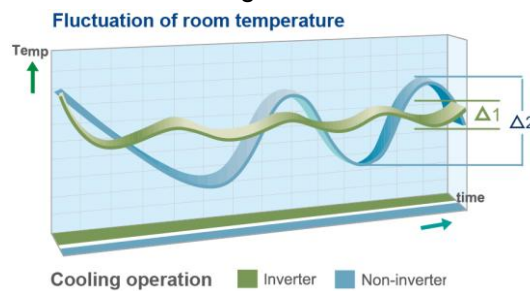
Intelligent defrosting program to judge the defrosting time according to the system real requirement, reduce the heating loss by unnecessary defrosting and make the indoor side more comfortable. Every time defrosting last only 4 minutes due to the use of specialized defrosting valve.



1.4.4 Quick warm-up & cool-down design and less temperature fluctuation

By utilizing the benefits of the DC inverter compressor, the system can reach full load quickly and shorten the warm-up and cool-down times to provide an immediate and comfortable air solution.

Less temperature fluctuation will create a better living environment.



1.5 Convenient installation & maintenance

1.5.1 Auto addressing

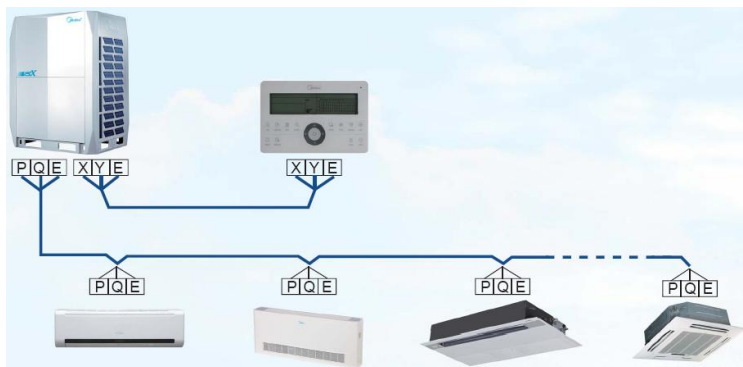
Outdoor unit can distribute address for each indoor unit automatically.

Wireless and wired controllers can enquire and modify each indoor unit's address.



1.5.2 Simple communication wiring

Centralized controller (CCM30) can connect from indoor side or outdoor side (XYE terminals). With one group of wires, we can realize the network communication and system communication. Such simple wiring is more convenient for installation work at site.



1.5.3 90° rotatable electric box

- The newly designed rotating control box is so excellent that it can rotate in a 90° angle. It is convenient for the inspection and maintenance of the pipeline system and greatly reduced the time of dismount the electric control box.
- Checking window for quick inspection of system status.
- Compressor is located at outside, which is simplified to checked and enable valves or compressor parts to be replaced easily.



2. Outdoor units

● Outdoor units lineup

The capacity range of outdoor units is from 8HP up to 88HP in 2HP increment. Maximum 64 indoor units with capacity up to 130% of total outdoor units can be connected as one refrigeration system.



8,10,12HP



14,16,18,20,22HP



24~44HP



46~66HP

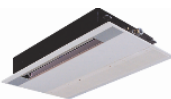


68~88HP







● **Combination table**




Model	Capacity (HP)	Recommend combination	Capacity kW		Max. Qty. of indoor unit units num.	Max. recommended Qty. of indoor unit
			Cooling	Heating		
MV5-X252W/V2GN1	8	8HP×1	25.2	27	13	7
MV5-X280W/V2GN1	10	10HP×1	28	31.5	16	9
MV5-X335W/V2GN1	12	12HP×1	33.5	37.5	20	11
MV5-X400W/V2GN1	14	14HP×1	40	45	23	13
MV5-X450W/V2GN1	16	16HP×1	45	50	26	15
MV5-X500W/V2GN1	18	18HP×1	50	56	29	16
MV5-X560W/V2GN1	20	20HP×1	56	63	33	18
MV5-X615W/V2GN1	22	22HP×1	61.5	69	36	20
MV5-X670W/V2GN1	24	12HP×2	67	75	39	22
MV5-X730W/V2GN1	26	10HP+16HP	73	81.5	43	24
MV5-X780W/V2GN1	28	10HP+18HP	78	87.5	46	26
MV5-X840W/V2GN1	30	10HP+20HP	84	94.5	50	27
MV5-X895W/V2GN1	32	10HP+22HP	89.5	100.5	53	29
MV5-X950W/V2GN1	34	12HP+22HP	95	106.5	56	31
MV5-X1000W/V2GN	36	18HP×2	100	112	59	32
MV5-X1065W/V2GN	38	16HP+22HP	106.5	119	63	35
MV5-X1115W/V2GN	40	18HP+22HP	111.5	125	64	36
MV5-X1175W/V2GN	42	20HP+22HP	117.5	132	64	38
MV5-X1230W/V2GN	44	22HP×2	123	138	64	38
MV5-X1285W/V2GN	46	12HP×2+22HP	128.5	144	64	38
MV5-X1345W/V2GN	48	10HP+16HP+22HP	134.5	150.5	64	38
MV5-X1395W/V2GN	50	10HP+18HP+22HP	139.5	156.5	64	38
MV5-X1455W/V2GN	52	10HP+20HP+22HP	145.5	163.5	64	38
MV5-X1510W/V2GN	54	10HP+22HP×2	151	169.5	64	38
MV5-X1565W/V2GN	56	12HP+22HP×2	156.5	175.5	64	40
MV5-X1615W/V2GN	58	18HP×2+22HP	161.5	181	64	40
MV5-X1680W/V2GN	60	16HP+22HP×2	168	188	64	40
MV5-X1730W/V2GN	62	18HP+22HP×2	173	194	64	40
MV5-X1790W/V2GN	64	20HP+22HP×2	179	201	64	40
MV5-X1845W/V2GN	66	22HP×3	184.5	207	64	40
MV5-X1900W/V2GN	68	12HP×2+22HP×2	190	213	64	44
MV5-X1960W/V2GN	70	10HP+16HP+22HP×2	196	219.5	64	44
MV5-X2010W/V2GN	72	10HP+18HP+22HP×2	201	225.5	64	44
MV5-X2070W/V2GN	74	10HP+20HP+22HP×2	207	232.5	64	44
MV5-X2125W/V2GN	76	10HP+22HP×3	212.5	238.5	64	44
MV5-X2180W/V2GN	78	12HP+22HP×3	218	244.5	64	48
MV5-X2230W/V2GN	80	18HP×2+22HP×2	223	250	64	48
MV5-X2295W/V2GN	82	16HP+22HP×3	229.5	257	64	48
MV5-X2345W/V2GN	84	18HP+22HP×3	234.5	263	64	48
MV5-X2405W/V2GN	86	20HP+22HP×3	240.5	270	64	48
MV5-X2460W/V2GN	88	22HP×4	246	276	64	48

3. Indoor units lineup

Capacity Btu/h (kW)	Cassette type				
	One-way cassette		Two-way cassette	Compact four-way cassette	Four-way cassette
					
6140(1.8)	50/60Hz				
7500(2.2)	50/60Hz		50/60Hz	50/60Hz	
9600(2.8)	50/60Hz		50/60Hz	50/60Hz	50/60Hz
12300(3.6)	50/60Hz		50/60Hz	50/60Hz	50/60Hz
15400(4.5)		50/60Hz	50/60Hz	50/60Hz	50/60Hz
19100(5.6)		50/60Hz	50/60Hz		50/60Hz
24200(7.1)			50/60Hz		50/60Hz
27300(8)					50/60Hz
30700(9)					50/60Hz
34100(10)					50/60Hz
38200(11.2)					50/60Hz
47800(14)					50/60Hz

Capacity Btu/h (kW)	Duct type					
	Medium static pressure duct		High static pressure duct			
						
6140(1.8)						
7500(2.2)	50/60Hz					
9600(2.8)	50/60Hz					
12300(3.6)	50/60Hz					
15400(4.5)	50/60Hz					
19100(5.6)	50/60Hz					
24200(7.1)	50/60Hz		50/60Hz			
27300(8)		50/60Hz	50/60Hz			
30700(9)		50/60Hz	50/60Hz			
34100(10)						
38200(11.2)		50/60Hz	50/60Hz			
47800(14)		50/60Hz		50/60Hz		
54600(16)				50/60Hz		
68200(20)					only 50Hz	
85300(25)					only 50Hz	
95500(28)					only 50Hz	
136500(40)						50/60Hz
153500(45)						50/60Hz
191100(56)						only 50Hz

Capacity Btu/h (kW)	Wall mounted/Ceiling & Floor/Console					
	Wall mounted (S panel)	Wall mounted (C panel)	Wall mounted (R panel)	Wall mounted (D panel)	Ceiling & floor	console
						
7500(2.2)	50/60Hz	50/60Hz		50/60Hz		50/60Hz
9600(2.8)	50/60Hz	50/60Hz		50/60Hz		50/60Hz
12300(3.6)	50/60Hz	50/60Hz		50/60Hz	50/60Hz	50/60Hz
15400(4.5)	50/60Hz	50/60Hz		50/60Hz	50/60Hz	50/60Hz
19100(5.6)	50/60Hz	50/60Hz		50/60Hz	50/60Hz	
24200(7.1)			50/60Hz	50/60Hz	50/60Hz	
27300(8)			50/60Hz		50/60Hz	
30700(9)			50/60Hz		50/60Hz	
38200(11.2)					50/60Hz	
47800(14)					50/60Hz	
54600(16)					50/60Hz	

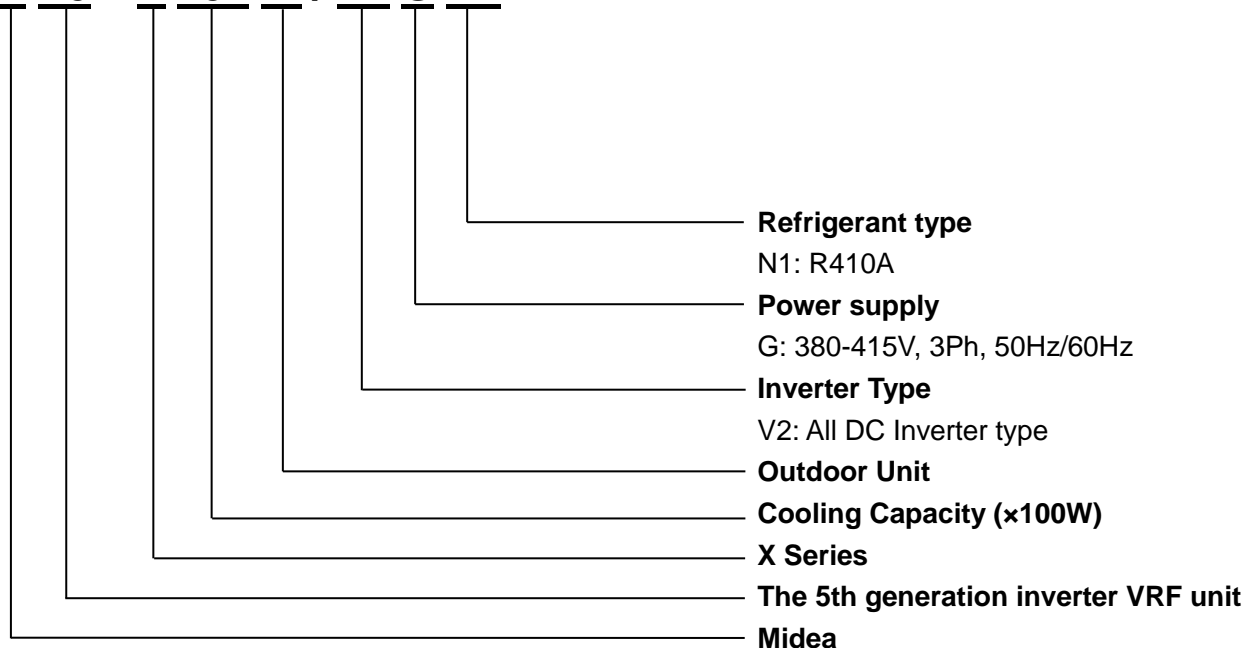
Capacity Btu/h (kW)	Floor standing		Fresh air processing unit	
	Conceal	Floor standing	Fresh air processing unit	
				
7500(2.2)	only 50Hz	only 50Hz		
9600(2.8)	only 50Hz	only 50Hz		
12300(3.6)	only 50Hz	only 50Hz		
15400(4.5)	only 50Hz	only 50Hz		
19100(5.6)	only 50Hz	only 50Hz		
24200(7.1)	only 50Hz	only 50Hz		
27300(8)	only 50Hz	only 50Hz		
42600(12.5)			50/60Hz	
47800(14)			50/60Hz	
68200(20)				50/60Hz
85300(25)				50/60Hz
95500(28)				50/60Hz

Due to continuous improvement, specifications are subject to change without prior notice.

4. Nomenclature

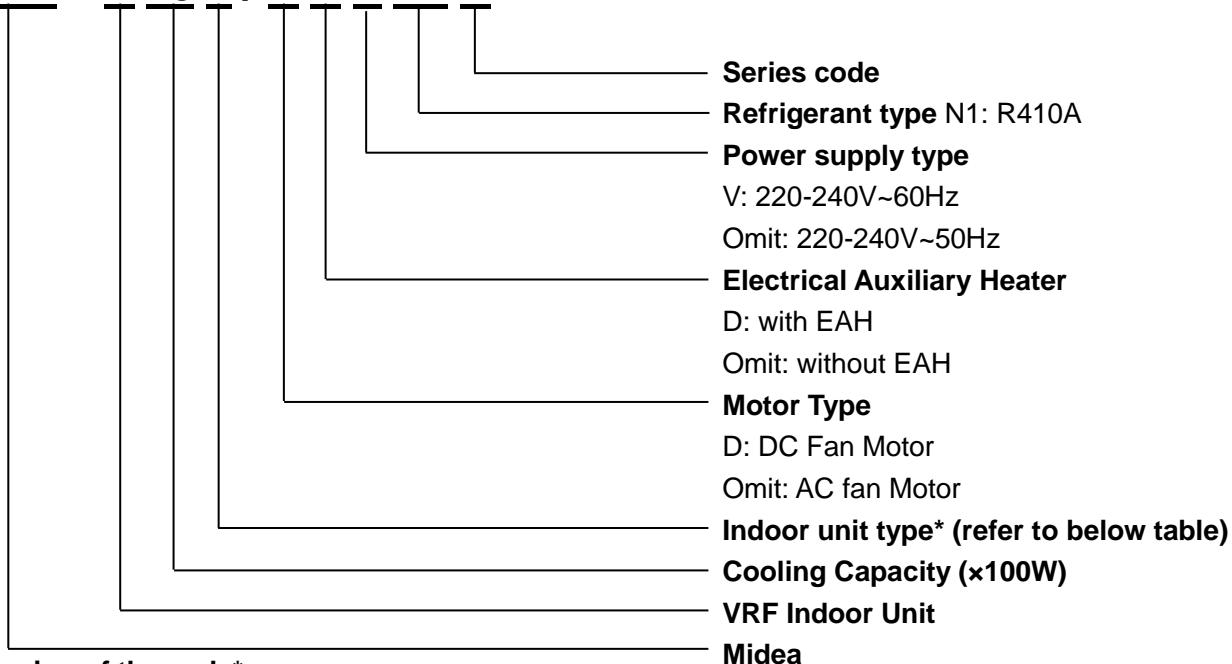
4.1 Outdoor unit

M V5 – X 252 W / V2 G N1



4.2 Indoor unit

MDV – D 28 Z / D D V N1 A



Meaning of the code*

Type code	Meanings	Type code	Meanings
Q1	1-waycassette	T3	High static pressure duct
Q2	2-waycassette	G	Wall mounted
Q4	4-waycassette	DL	Ceiling & floor
Q4-A	4-waycassette (compact)	Z-F	Floor standing (F4/F5: Exposed ; F3: Concealed)
T1	Low static pressure duct	Z	Console
T2	Medium static Pressure duct	T1-FA	Fresh air processing unit

Part 2 Selection Procedure

1. Introduction	12
1.1 Model selection procedure	12
1.2 Indoor unit selection	12
1.3 Outdoor unit selection	12
1.4 Actual performance date	15
1.5 Cooling capacity modification in accordance with the length of refrigerant pipe	15
2. Unit selection (based on cooling load)	17
2.1 Given condition	17
2.2 Indoor unit selection	17
2.3 Outdoor unit selection	17
2.4 Conclusion	18

1. Introduction

1.1 Model selection procedure

Select the model and calculate the capacity for each refrigerant system according to the procedure shown below.

- Calculation of the indoor air-conditioning load, Calculate the maximum air-conditioning load for each room or zone.

Selection of an air conditioning system

- Select the ideal air conditioning system for air conditioning of each room or zone

Design of the control system

- Design a suitable control system for the selected air conditioning system

Preliminary selection of indoor and outdoor units

- Make preliminary selections that are within the allowable range for the system

Check of the tubing length and elevation difference

- Check that the length of refrigerant tubing and the elevation difference are within the allowable ranges

Calculation of the corrected outdoor unit capacity

- Capacity correction coefficient for model, outdoor temperature conditions, tubing length and elevation difference.

Calculation of the actual capacity for each indoor unit

- Calculate the corrected indoor/outdoor capacity ratio, based on the corrected outdoor unit capacity and the total corrected capacity of all indoor units in the same system.

Recheck of the actual capacity for each indoor unit

- If the capacity is inadequate, reexamine the unit combinations.

1.2 Indoor unit selection

Enter INDOOR UNIT CAPACITY TABLES at given indoor and outdoor temperature. Select the unit that the capacity is the nearest to and greater than given load.

Note:

Individual indoor unit capacity is subject to change by the combination. Actual capacity has to be calculated according to the combination by using outdoor unit capacity table.

Calculation of actual capacity of indoor unit

Because the capacity of a multi air-conditioner changes according to the temperature conditions, tubing length, elevation difference and other factors, select the correct model after taking into account the various correction values. When selecting the model, calculate the corrected capacities of the outdoor unit and each indoor unit. Use the corrected outdoor unit capacity and the total corrected capacity of all the indoor units to calculate the actual final capacity of each indoor unit.

Find the indoor unit capacity correction coefficient for the following items:

- Capacity correction for the indoor unit temperature conditions

From the graph of capacity characteristics, use the indoor temperature to find the capacity correction coefficient.

- Capacity distribution ratio based on the indoor unit tubing length and elevation difference.

First, in the same way as for the outdoor unit, use the tubing length and elevation difference for each indoor unit to find the correction coefficient from the graph of capacity change characteristics

Capacity distribution ratio for each indoor unit=Correction coefficient for that indoor unit / Correction coefficient for the outdoor unit

1.3 Outdoor unit selection

Allowable combinations are indicated in INDOOR UNIT COMBINATION TOTAL CAPACITY INDEX TABLE.

In general, outdoor unit can be selected as follows though the location of the unit, zoning and usage of the

rooms may be considered.

The indoor and outdoor unit combination is determined that the sum of indoor unit capacity index is nearest to and smaller than the capacity index at 100% combination ratio of each outdoor unit. Up to 7~36 indoor units can be connected to one outdoor unit. It is recommended to choose a larger outdoor unit if the installation space is large enough.

If the combination ratio is greater than 100%, the indoor unit selection shall be reviewed by using actual capacity of each indoor unit.

INDOOR UNIT COMBINATION TOTAL CAPACITY INDEX TABLE

Outdoor Unit HP(kBtu/h)	Indoor Unit Combination Ratio kW(kBtu/h)								
	130%	120%	110%	100%	90%	80%	70%	60%	50%
8(86)	32.8 (111.8)	30.2 (103.2)	27.7 (94.6)	25.2 (86)	22.7 (77.4)	20.1 (68.8)	17.6 (60.2)	15.1 (51.6)	12.6 (43)
10(95.5)	36.4 (124.15)	33.6 (114.6)	30.8 (105.1)	28.0 (95.5)	25.2 (86)	22.4 (76.4)	19.6 (66.9)	16.8 (57.3)	14.0 (47.75)
12(114.3)	43.6 (148.6)	40.2 (137.2)	36.9 (125.7)	33.5 (114.3)	30.2 (102.9)	26.8 (91.4)	23.5 (80)	20.2 (68.6)	16.8 (57.2)
14(136.5)	52.0 (177.5)	48.0 (163.8)	44.0 (150.2)	40.0 (136.5)	36.0 (122.9)	32.0 (109.2)	28.0 (95.6)	24.0 (81.9)	20.0 (68.3)
16(153.5)	58.5 (199.6)	54.0 (184.2)	49.5 (168.9)	45.0 (153.5)	40.5 (138.2)	36.0 (122.8)	31.5 (107.5)	27.0 (92.1)	22.5 (76.8)
18(170.6)	65.0 (221.8)	60.0 (204.7)	55.0 (187.7)	50.0 (170.6)	45.0 (153.5)	40.0 (136.5)	35.0 (119.4)	30.0 (102.4)	25.0 (85.3)
20(191.1)	72.8 (248.4)	67.2 (229.3)	61.6 (210.2)	56.0 (191.1)	50.4 (172)	44.8 (152.9)	39.2 (133.8)	33.6 (114.7)	28.0 (95.6)
22(209.8)	80.0 (272.7)	73.8 (251.8)	67.7 (230.8)	61.5 (209.8)	55.4 (188.8)	49.2 (167.8)	43.1 (146.9)	36.9 (125.9)	30.8 (104.9)
24(228.6)	87.1 (297.2)	80.4 (274.3)	73.7 (251.5)	67.0 (228.6)	60.3 (205.7)	53.6 (182.9)	46.9 (160)	40.2 (137.2)	33.5 (114.3)
26(249)	94.9 (323.7)	87.6 (298.8)	80.3 (273.9)	73.0 (249)	65.7 (224.1)	58.4 (199.2)	51.1 (174.3)	43.8 (149.4)	36.5 (124.5)
28(266.1)	101.4 (345.9)	93.6 (319.3)	85.8 (292.7)	78.0 (266.1)	70.2 (239.5)	62.4 (212.9)	54.6 (186.3)	46.8 (159.7)	39.0 (133.1)
30(286.6)	109.2 (372.6)	100.8 (343.9)	92.4 (315.3)	84.0 (286.6)	75.6 (257.9)	67.2 (229.3)	58.8 (200.6)	50.4 (172)	42.0 (143.3)
32(305.3)	116.4 (396.9)	107.4 (366.4)	98.5 (335.8)	89.5 (305.3)	80.6 (274.8)	71.6 (244.2)	62.7 (213.7)	53.7 (183.2)	44.8 (152.7)
34(324.1)	123.5 (421.3)	114.0 (388.9)	104.5 (356.5)	95.0 (324.1)	85.5 (291.7)	76.0 (259.3)	66.5 (226.9)	57.0 (194.5)	47.5 (162.1)
36(341.2)	130.0 (443.6)	120.0 (409.4)	110.0 (375.3)	100.0 (341.2)	90.0 (307.1)	80.0 (273)	70.0 (238.8)	60.0 (204.7)	50.0 (170.6)
38(363.3)	138.5 (472.3)	127.8 (436)	117.2 (399.6)	106.5 (363.3)	95.9 (327)	85.2 (290.6)	74.6 (254.3)	63.9 (218)	53.3 (181.7)

INDOOR UNIT COMBINATION TOTAL CAPACITY INDEX TABLE

Outdoor Unit	Indoor Unit Combination Ratio kW(Btu/h)								
	130%	120%	110%	100%	90%	80%	70%	60%	50%
40(380.4)	145.0 (494.5)	133.8 (456.5)	122.7 (418.4)	111.5 (380.4)	100.4 (342.4)	89.2 (304.3)	78.1 (266.3)	66.9 (228.2)	55.8 (190.2)
42(400.9)	152.8 (521.2)	141.0 (481.1)	129.3 (441)	117.5 (400.9)	105.8 (360.8)	94.0 (320.7)	82.3 (280.6)	70.5 (240.5)	58.8 (200.5)
44(419.6)	159.9 (545.5)	147.6 (503.5)	135.3 (461.6)	123.0 (419.6)	110.7 (377.6)	98.4 (335.7)	86.1 (293.7)	73.8 (251.8)	61.5 (209.8)
46(438.4)	167.1 (569.9)	154.2 (526.1)	141.4 (482.2)	128.5 (438.4)	115.7 (394.6)	102.8 (350.7)	90.0 (306.9)	77.1 (263)	64.3 (219.2)
48(458.8)	174.9 (596.4)	161.4 (550.6)	148.0 (504.7)	134.5 (458.8)	121.1 (412.9)	107.6 (367)	94.2 (321.2)	80.7 (275.3)	67.3 (229.4)
50(475.9)	181.4 (618.7)	167.4 (571.1)	153.5 (523.5)	139.5 (475.9)	125.6 (428.3)	111.6 (380.7)	97.7 (333.1)	83.7 (285.5)	69.8 (238)
52(496.4)	189.2 (645.3)	174.6 (595.7)	160.1 (546)	145.5 (496.4)	131.0 (446.8)	116.4 (397.1)	101.9 (347.5)	87.3 (297.8)	72.8 (248.2)
54(515.1)	196.3 (669.6)	181.2 (618.1)	166.1 (566.6)	151.0 (515.1)	135.9 (463.6)	120.8 (412.1)	105.7 (360.6)	90.6 (309.1)	75.5 (257.6)
56(533.9)	203.5 (694.1)	187.8 (640.7)	172.2 (587.3)	156.5 (533.9)	140.9 (480.5)	125.2 (427.1)	109.6 (373.7)	93.9 (320.3)	78.3 (267)
58(551)	210.0 (716.3)	193.8 (661.2)	177.7 (606.1)	161.5 (551)	145.4 (495.9)	129.2 (440.8)	113.1 (385.7)	96.9 (330.6)	80.8 (275.5)
60(573.1)	218.4 (745)	201.6 (687.7)	184.8 (630.4)	168.0 (573.1)	151.2 (515.8)	134.4 (458.5)	117.6 (401.2)	100.8 (343.9)	84.0 (286.6)
62(590.2)	224.9 (767.3)	207.6 (708.2)	190.3 (649.2)	173.0 (590.2)	155.7 (531.2)	138.4 (472.2)	121.1 (413.1)	103.8 (354.1)	86.5 (295.1)
64(610.7)	232.7 (793.9)	214.8 (732.8)	196.9 (671.8)	179.0 (610.7)	161.1 (549.6)	143.2 (488.6)	125.3 (427.5)	107.4 (366.4)	89.5 (305.4)
66(629.4)	239.9 (818.2)	221.4 (755.3)	203.0 (692.3)	184.5 (629.4)	166.1 (566.5)	147.6 (503.5)	129.2 (440.6)	110.7 (377.6)	92.3 (314.7)
68(648.2)	247.0 (842.7)	228.0 (777.8)	209.0 (713)	190.0 (648.2)	171.0 (583.4)	152.0 (518.6)	133.0 (453.7)	114.0 (388.9)	95.0 (324.1)
70(668.6)	254.8 (869.2)	235.2 (802.3)	215.6 (735.5)	196.0 (668.6)	176.4 (601.7)	156.8 (534.9)	137.2 (468)	117.6 (401.2)	98.0 (334.3)
72(685.7)	261.3 (891.4)	241.2 (822.8)	221.1 (754.3)	201.0 (685.7)	180.9 (617.1)	160.8 (548.6)	140.7 (480)	120.6 (411.4)	100.5 (342.9)
74(706.2)	269.1 (918.1)	248.4 (847.4)	227.7 (776.8)	207.0 (706.2)	186.3 (635.6)	165.6 (565)	144.9 (493.4)	124.2 (423.7)	103.5 (353.1)
76(724.9)	276.3 (942.4)	255.0 (869.9)	233.8 (797.4)	212.5 (724.9)	191.3 (652.4)	170.0 (579.9)	148.8 (507.4)	127.5 (434.9)	106.3 (362.5)
78(743.7)	283.4 (966.8)	261.6 (892.4)	239.8 (818.1)	218.0 (743.7)	196.2 (669.3)	174.4 (595)	152.6 (520.6)	130.8 (446.2)	109.0 (371.9)

INDOOR UNIT COMBINATION TOTAL CAPACITY INDEX TABLE

Outdoor Unit	Indoor Unit Combination Ratio kW(Btu/h)								
	130%	120%	110%	100%	90%	80%	70%	60%	50%
80(760.8)	289.9 (989)	267.6 (913)	245.3 (836.9)	223.0 (760.8)	200.7 (684.7)	178.4 (608.6)	156.1 (532.6)	133.8 (456.5)	111.5 (380.4)
82(782.9)	298.4 (1017.8)	275.4 (939.5)	252.5 (861.2)	229.5 (782.9)	206.6 (704.6)	183.6 (626.3)	160.7 (548)	137.7 (469.7)	114.8 (391.5)
84(800)	304.9 (1040)	281.4 (960)	258.0 (880)	234.5 (800)	211.1 (720)	187.6 (640)	164.2 (560)	140.7 (480)	117.3 (400)
86(820.5)	312.7 (1066.7)	288.6 (984.6)	264.6 (902.6)	240.5 (820.5)	216.5 (738.5)	192.4 (656.4)	168.4 (574.4)	144.3 (492.3)	120.3 (410.3)
88(839.2)	319.8 (1091)	295.2 (1007)	270.6 (923.1)	246.0 (839.2)	221.4 (755.3)	196.8 (671.4)	172.2 (587.4)	147.6 (503.5)	123.0 (419.6)

INDOOR UNIT CAPACITY INDEX

Unit Size	Model 18	Model 22	Model 28	Model 36	Model 45	Model 56	Model 71	Model 80	Model 90	Model 112
Capacity Index kW(kBtu/h)	1.8 (6.14)	2.2 (7.5)	2.8 (9.55)	3.6 (12.28)	4.5 (15.35)	5.6 (19.11)	7.1 (24.23)	8.0 (27.3)	9.0 (30.71)	11.2 (38.22)
Unit Size	Model 125	Model 140	Model 160	Model 200	Model 250	Model 280	Model 400	Model 450	Model 560	
Capacity Index kW(Btu/h)	12.5 (42.65)	14.0 (47.77)	16 (54.59)	20 (68.24)	25 (85.3)	28 (95.54)	40 (136.5)	45 (153.5)	56 (191.07)	

1.4 Actual performance data

Use OUTDOOR UNIT CAPACITY TABLES.

Determine correct table according to the outdoor unit model and combination ratio.

Enter the table at given indoor and outdoor temperature and find the outdoor unit capacity and power input.

The individual indoor unit capacity (power input) can be calculated as follows.

$$IUC = OUC \times INX / TNX$$

Where,

IUC: Each indoor unit capacity

OUC: Outdoors unit capacity

INX: Each indoor unit capacity index

TNX: Total capacity index

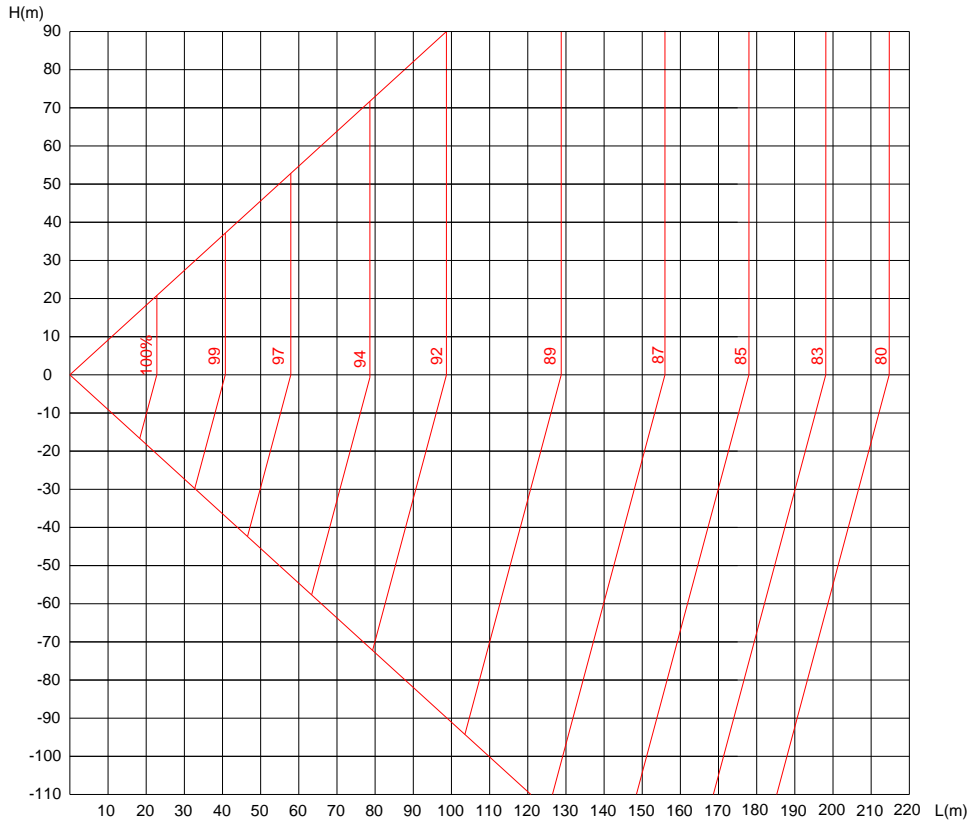
Then, correct the indoor unit capacity according to the piping length.

If the corrected capacity is smaller than the load, the size of indoor unit has to be increased and repeat the same selection procedure.

1.5 Cooling capacity modification in accordance with the length of refrigerant pipe

Modification coefficient of the length and high difference of refrigerant pipe:

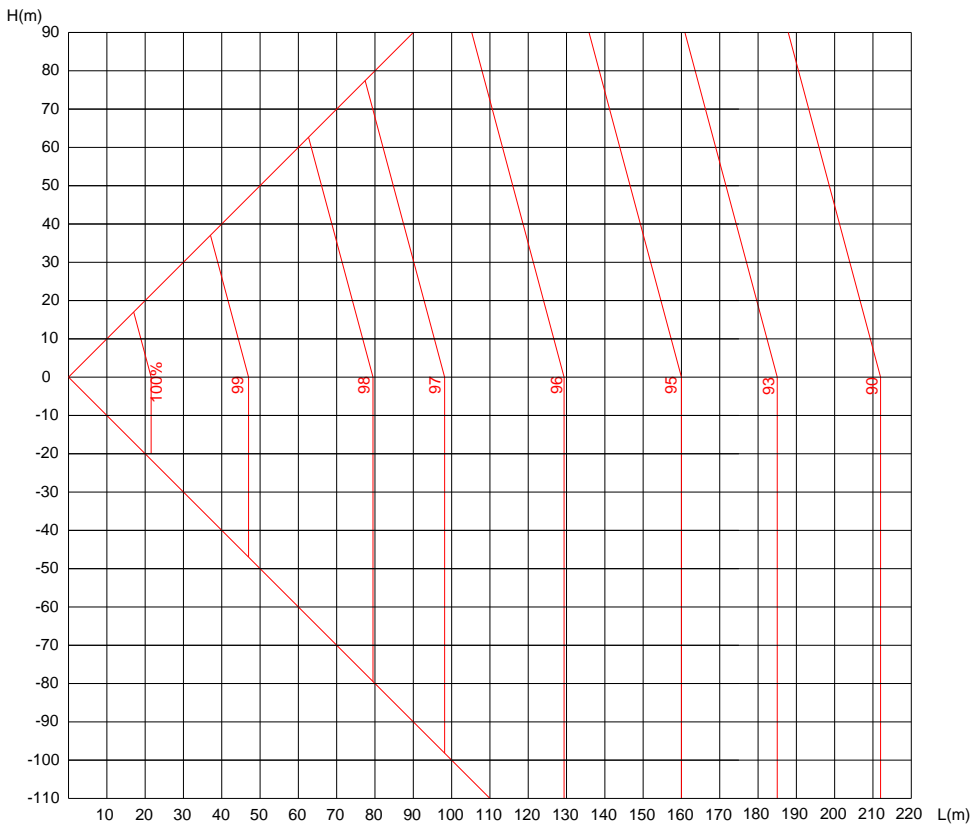
1.5.1 Cooling capacity modification



L: Refrigerant pipe equivalent length

H: Height difference between outdoor and indoor unit. Positive data means outdoor unit is top. Negative data means outdoor unit is down.

1.5.2 Heating capacity modification



2. Unit selection (based on cooling load)

2.1 Given condition

Condition:

Cooling: indoor temperature 20°C (68°F)WB, outdoor temperature 35°C(95°F)DB;

Cooling load

Location	Room A	Room B	Room C	Room D	Room E	Room F
Load kW(Btu/h)	2.1(7170)	2.8(9559)	3.5(11900)	4.6(15700)	5.8(19790)	7.2(24570)

Power supply: outdoor 380~415V-3Ph-50Hz, indoor 220~240V-1Ph-50Hz.

Piping length: 164ft (50m); Height difference between indoor unit and outdoor unit: 98.4ft(30m)

2.2 Indoor unit selection

Select the suitable capacity for condition of 'Indoor 20°C(68°F) WB, Outdoor 35°C(95°F) DB' using indoor unit capacity table. The selected result is as follows. (Assuming the indoor unit type is duct)

Location	Room A	Room B	Room C	Room D	Room E	Room F
Load kW(Btu/h)	2.1(7170)	2.8(9559)	3.5(11900)	4.6(15700)	5.8(19790)	7.2(24570)
Model	22	28	36	45	56	71
Capacity kW(Btu/h)	2.3(7850)	2.9(9900)	3.7(12600)	4.8(16400)	6.0(20500)	7.5(25600)

2.3 Outdoor unit selection

1) Assume the indoor unit and outdoor unit combination as follows

- Calculate the total nominal capacity of indoor units in the combination according to the above table:
 $2.2 \times 1 + 2.8 \times 1 + 3.6 \times 1 + 4.5 \times 1 + 5.6 \times 1 + 7.1 \times 1 = 25.8\text{kW}(88000\text{Btu/h})$
- Select outdoor unit: MDV-280(10)W/D2RN1T(C) which has nominal cooling capacity: 28kW (95500Btu/h).

Calculate the proportion: $25.8/280 = 92\%$

2) Result: Because the proportion is within 50~130%, it is a right selection.

Real function data with indoor unit combination

- For the 92% combination, calculate the cooling capacity of outdoor unit (MDV-280(10)W/D2RN1T(C)).
 $26.8\text{kW}(91440\text{Btu/h}) \leftarrow 90\%$ (Indoor temperature: WB 20°C(68°F), Outdoor temperature: DB 35°C(95°F))
 $28.3\text{kW}(96560\text{Btu/h}) \leftarrow 100\%$ (Indoor temperature: WB 20°C(68°F), Outdoor temperature: DB 35°C(95°F))

Then calculate the outdoor capacity in 92% combination index:

Therefore: $26.8 + \{(28.3 - 26.8) / 10\} \times 2 = 27.1\text{kW}(92470\text{Btu/h})$;

- Outdoor unit (MDV-280(10)W/D2RN1T(C)) cooling temperature: DB 35°C(95°F)
- Capacity modification coefficient with pipe length 50m(164ft) and height difference 30m(98.4ft): 0.958
- Each indoor unit cooling capacity

Room A: MDV-D22T2 ($27.1 \times 22 / 258 \times 0.958 = 2.21\text{kW}$) ($92470 \times 7510 / 88000 \times 0.958 = 7540\text{Btu/h}$)

Room B: MDV-D28T2 ($27.1 \times 28 / 258 \times 0.958 = 2.82\text{kW}$) ($92470 \times 9550 / 88000 \times 0.958 = 9620\text{Btu/h}$)

Room C: MDV-D36T2 ($27.1 \times 36 / 258 \times 0.958 = 3.62\text{kW}$) ($92470 \times 12300 / 88000 \times 0.958 = 12350\text{Btu/h}$)

Room D: MDV-D45T2 ($27.1 \times 45 / 258 \times 0.958 = 4.53\text{kW}$) ($92470 \times 15400 / 88000 \times 0.958 = 15460\text{Btu/h}$)

Room E: MDV-D56T2 ($27.1 \times 56 / 258 \times 0.958 = 5.64\text{kW}$) ($92470 \times 19110 / 88000 \times 0.958 = 19250\text{Btu/h}$)

Room F: MDV-D71T2 ($27.1 \times 71 / 258 \times 0.958 = 7.14\text{kW}$) ($92470 \times 24200 / 88000 \times 0.958 = 24360\text{Btu/h}$)

Location	Room A	Room B	Room C	Room D	Room E	Room F
Load kW(Btu/h)	2.1(7170)	2.8(9559)	3.5(11900)	4.6(15700)	5.8(19790)	7.2(24570)
Model	22	28	36	45	56	71
Capacity kW(Btu/h)	2.21(7540)	2.82(9620)	3.62(12350)	4.53(15460)	5.64(19250)	7.14(24360)

2.4 Conclusion

Generally, we think this result is acceptable, so we can think we have accomplished the calculation. But if you think this result is not acceptable, you can repeat the above process.

Remark: In this sample, the other capacity modification indexes don't be considered and are assumed as 1.0. For more details about the effect factor such as outside ambient/inside ambient DB/WD, please refer to the performance table of indoor and outdoor units.

Part 3 Specifications & Performances

- 1. Specifications 20
- 2. Dimensions 46
- 3. Service space..... 48
- 4. Piping diagrams..... 50
- 5. Wiring diagram and field wiring..... 52
- 6. Electric characteristics 55
- 7. Capacity tables 56
- 8. Operation limits 120
- 9. Sound levels 121
- 10. Accessories..... 122

1. Specifications

1.1 Outdoor unit specifications

Independent unit specifications

Model		MV5-X252W/V2GN1	MV5-X280W/V2GN1	MV5-X335W/V2GN1	MV5-X400W/V2GN1	
Code		220095103940	220095103930	220095103950	220095103960	
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz			
Cooling	Capacity	kW	25.2	28.0	33.5	40.0
		RT	7.2	8.0	9.5	11.4
		kBtu/h	86.0	95.5	114.3	136.5
		kcal/h	21,672	24,080	28,810	34,400
	Power input	kW	5.79	7.02	8.71	10.81
EER	kW/kW	4.35	3.99	3.85	3.70	
Heating	Capacity	kW	27.0	31.5	37.5	45.0
		RT	7.7	8.9	10.7	12.8
		kBtu/h	92.1	107.5	128.0	153.5
		kcal/h	23,220	27,090	32,250	38,700
	Power input	kW	5.79	7.19	8.82	10.98
COP	kW/kW	4.66	4.38	4.25	4.10	
DC inverter compressor	Model		E655DHD-65D2YG	E655DHD-65D2YG	E705DHD-72D2YG	E405DHD-42D2YG
	Quantity		1	1	1	2
	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi	Hitachi
	Capacity	kW	21.06	21.06	23.25	13.8x2
		kBtu/h	71.9	71.9	79.3	47.1x2
	Crankcase heater	W	27.6x2	27.6x2	27.6x2	27.6x4
	Refrigerant oil type		FVC68D	FVC68D	FVC68D	FVC68D
Refrigerant oil charge	gal. (ml)	0.132(500)	0.132(500)	0.132(500)	0.132(500)x2	
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		1	1	1	2
	Insulation class		E	E	E	E
	Safe class		IP23	IP23	IP23	IP23
	Input	W	580	580	580	360+290
	Output	W	465	465	465	290+230
Outdoor fan	Material		Plastic	Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial	Axial
	Fan Quantity		1	1	1	2
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)			
in. W.G. (Pa)		0.08~0.16(20~40) (customized)				
Outdoor coil	Number of rows		2	2	3	2

	Tube pitch(a) x row pitch(b)	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type	Hydrophilic aluminum				
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type	Inner-grooved				
	Coil length x height	in.(mm)	77-9/16x48-1/2 (1970x1232)	77-9/16x48-1/2 (1970x1232)	77-9/16x48-1/2 (1970x1232)	91-3/8x48-1/2 (2320x1232)
	Number of circuits	22				
Outdoor air flow		m3/h	10,800	10,800	10,800	14,000
		CFM	6,360	6,360	6,360	8,240
Sound pressure level		dB(A)	43~58	43~59	43~60	43~62
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130	50-130
	Max. quantity	13		16	19	23
Outdoor unit	Dimension (WxHxD)	inch	39x64-3/8x31-1/8			52-3/4x64-3/8x31-1/8
		mm	990x1635x790			1340x1635x790
	Packing (WxHxD)	inch	41-1/2x71-1/16x33-5/8			55-3/8x71-1/16x33-5/8
		mm	1055x1805x855			1405x1805x855
	Net weight	lbs.(kg)	483(219)	483(219)	523(237)	655(297)
Gross weight	lbs.(kg)	516(234)	516(234)	556(252)	695(315)	
Refrigerant	Type	R410A				
	Factory charged	lbs.(kg)	20(9)	20(9)	24(11)	29(13)
Throttle type		EXV				
Design pressure(High/Low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)
	Gas pipe	in.(mm)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)	Φ1(Φ25.4)	Φ1(Φ25.4)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)			
	Heating	°F(°C)	-4~75.2(-20~24)			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Independent unit specifications

Model		MV5-X450W/V2GN1	MV5-X500W/V2GN1	MV5-X560W/V2GN1	MV5-X615W/V2GN1	
Code		220095103970	220095103980	220095103990	220095104000	
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz			
Cooling	Capacity	kW	45.0	50.0	56.0	61.5
		RT	12.8	14.3	16.0	17.6
		kBtu/h	153.5	170.6	191.1	209.8
		kcal/h	38,700	43,000	48,160	52,890
	Power input	kW	12.83	14.47	16.67	18.77
	EER	kW/kW	3.51	3.46	3.36	3.28
Heating	Capacity	kW	50.0	56.0	63.0	69.0
		RT	14.2	16.0	18.0	19.7
		kBtu/h	170.6	191.1	214.9	235.4
		kcal/h	43,000	48,160	54,180	59,340
	Power input	kW	12.47	14.15	15.98	17.86
	COP	kW/kW	4.01	3.96	3.94	3.86
DC inverter compressor	Model		E405DHD-42D2YG	E405DHD-36D2YG E705DHD-72D2YG	E705DHD-72D2YG	E705DHD-72D2YG
	Quantity		2	1+1	2	2
	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi	Hitachi
	Capacity	kW	13.8×2	11.8+23.25	23.25×2	23.25×2
		kBtu/h	47.1×2	40.3+79.3	79.3×2	79.3×2
	Crankcase heater	W	27.6×4	27.6×4	27.6×4	27.6×4
	Refrigerant oil type		FVC68D	FVC68D	FVC68D	FVC68D
Refrigerant oil charge	gal. (ml)	0.132(500)×2	0.132(500)×2	0.132(500)×2	0.132(500)×2	
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		2	2	2	2
	Insulation class		E	E	E	E
	Safe class		IP23	IP23	IP23	IP23
	Input	W	360+290	520+440	550+430	550+430
	Output	W	290+230	420+350	440+350	440+350
Outdoor fan	Material		Plastic	Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial	Axial
	Fan Quantity		2	2	2	2
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)			
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)			
Outdoor coil	Number of rows		2	2	3	3
	Tube pitch(a)	in.(mm)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)

	×row pitch(b)					
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum			
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved	Inner-grooved	Inner-grooved	Inner-grooved
	Coil length × height	in.(mm)	91-3/8×48-1/2 (2320×1232)	89-3/8×48-1/2 (2270×1232)	89-3/8×48-1/2 (2270×1232)	89-3/8×48-1/2 (2270×1232)
	Number of circuits		22	22	22	22
Outdoor air flow		m3/h	14,000	15,500	15,500	15,500
		CFM	8,240	9,120	9,120	9,120
Sound pressure level		dB(A)	43~62	43~63	43~63	43~63
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130	50-130
	Max. quantity		26	29	33	36
Outdoor unit	Dimension (W×H×D)	inch	52-3/4×64-3/8×31-1/8			
		mm	1340×1635×790			
	Packing (W×H×D)	inch	55-3/8×71-1/16×33-5/8			
		mm	1405×1805×855			
	Net weight	lbs.(kg)	655(297)	673(305)	750(340)	750(340)
	Gross weight	lbs.(kg)	695(315)	712(323)	790(358)	790(358)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charged	lbs.(kg)	29(13)	29(13)	35(16)	35(16)
Throttle type			EXV	EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)
	Gas pipe	in.(mm)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)			
	Heating	°F(°C)	-4~75.2(-20~24)			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X670W/V2GN1	MV5-X730W/V2GN1	MV5-X780W/V2GN1
	Independent Unit		MV5-X335W/V2GN1	MV5-X280W/V2GN1	MV5-X280W/V2GN1
			MV5-X335W/V2GN1	MV5-X450W/V2GN1	MV5-X500W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	67.0	73.0	78.0
		RT	19.0	20.8	22.3
		kBtu/h	228.6	249.0	266.1
		kcal/h	57,620	62,780	67,080
	Power input	kW	17.42	19.85	21.49
	EER	kW/kW	3.85	3.68	3.63
Heating	Capacity	kW	75.0	81.5	87.5
		RT	21.4	23.1	24.9
		kBtu/h	256.0	278.1	298.6
		kcal/h	64,500	70,090	75,250
	Power input	kW	17.64	19.66	21.34
	COP	kW/kW	4.25	4.15	4.10
DC inverter compressor	Model		E705DHD-72D2YG×2	E655DHD-65D2YG+ E405DHD-42D2YG×2	E655DHD-65D2YG+ E405DHD-36D2YG+ E705DHD-72D2YG
	Quantity		2.0	3.0	3.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	46.5	21.06+(13.8×2)	21.06+(11.8+23.25)
		kBtu/h	158.6	71.9+(47.1×2)	71.9+(40.3+79.3)
	Crankcase heater	W	27.6×4	27.6×6	27.6×6
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
	Refrigerant oil charge	gal. (ml)	0.132×2(500×2)	0.132×3(500×3)	0.132×3(500×3)
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		2.0	3.0	3.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	580+580	580+(360+290)	580+(520+440)
	Output	W	465×2	465+(290+230)	465+(420+350)
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		2.0	3.0	3.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		

Outdoor coil	Tube pitch(a) xrow pitch(b)	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type	Hydrophilic aluminum			
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type	Inner-grooved			
Outdoor air flow		m ³ /h	21600.0	24800.0	26300.0
		CFM	12720.0	14600.0	15480.0
Sound pressure level		dB(A)	64	65	65
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity	39		43	46
Outdoor unit	Dimension (W×H×D)	inch	(39×64-3/8×31-1/8)×2	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8
		mm	(990×1635×790)×2	990×1635×790 +1340×1635×790	990×1635×790 +1340×1635×790
	Packing (W×H×D)	inch	(41-1/2×71-1/16×33-5/8)×2	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8
		mm	(1055×1805×855)×2	1055×1805×855 +1405×1805×855	1055×1805×855 +1405×1805×855
	Net weight	lbs.(kg)	523(237)×2	483+655(219+297)	483+673(219+305)
	Gross weight	lbs.(kg)	556(252)×2	516+695(234+315)	516+712(234+323)
Refrigerant	Type	R410A			
	Factory charged	lbs.(kg)	24×2(11×2)	20+29(9+13)	20+29(9+13)
Throttle type		EXV			
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ5/8(Φ15.9)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)
	Gas pipe	in.(mm)	Φ1-1/8(Φ28.6)	Φ1-1/4(Φ31.8)	Φ1-1/4(Φ31.8)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X840W/V2GN1	MV5-X895W/V2GN1	MV5-X950W/V2GN1
	Independent Unit		MV5-X280W/V2GN1	MV5-X280W/V2GN1	MV5-X335W/V2GN1
			MV5-X560W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	84.0	89.5	95.0
		RT	24.0	25.6	27.1
		kBtu/h	286.6	305.3	324.1
		kcal/h	72,240	76,970	81,700
	Power input	kW	23.69	25.79	27.48
	EER	kW/kW	3.55	3.47	3.46
Heating	Capacity	kW	94.5	100.5	106.5
		RT	26.9	28.6	30.4
		kBtu/h	322.4	342.9	363.4
		kcal/h	81,270	86,430	91,590
	Power input	kW	23.17	25.05	26.68
	COP	kW/kW	4.08	4.01	3.99
DC inverter compressor	Model		E655DHD-65D2YG+ E705DHD-72D2YGx2	E655DHD-65D2YG+ E705DHD-72D2YGx2	E705DHD-72D2YGx3
	Quantity		3.0	3.0	3.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	21.06+(23.25x2)	21.06+(23.25x2)	23.25+(23.25x2)
		kBtu/h	71.9+(79.3x2)	71.9+(79.3x2)	79.3+(79.3x2)
	Crankcase heater	W	27.6x6	27.6x6	27.6x6
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
	Refrigerant oil charge	gal. (ml)	0.132x3(500x3)	0.132x3(500x3)	0.132x3(500x3)
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		3.0	3.0	3.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	580+(550+430)	580+(550+430)	580+(550+430)
	Output	W	465+(440+350)	465+(440+350)	465+(440+350)
	Outdoor fan	Material		Plastic	Plastic
Type		Axial	Axial	Axial	
Fan Quantity		3.0	3.0	3.0	
External static pressure		in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		
Outdoor coil	Tube pitch(a) xrow pitch(b)	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)

	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum		
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved	Inner-grooved	Inner-grooved
Outdoor air flow		m3/h	26300.0	26300.0	26300.0
		CFM	15480.0	15480.0	15480.0
Sound pressure level		dB(A)	65	65	65
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity		50	53	56
Outdoor unit	Dimension(WxHxD)	inch	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8
		mm	990×1635×790 +1340×1635×790	990×1635×790 +1340×1635×790	990×1635×790 +1340×1635×790
	Packing(WxHxD)	inch	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8
		mm	1055×1805×855 +1405×1805×855	1055×1805×855 +1405×1805×855	1055×1805×855 +1405×1805×855
	Net weight	lbs.(kg)	483+750(219+340)	483+750(219+340)	523+750(237+340)
	Gross weight	lbs.(kg)	516+790(234+358)	516+790(234+358)	556+790(252+358)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	20+35(9+16)	20+35(9+16)	24+35(11+16)
Throttle type			EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)
	Gas pipe	in.(mm)	Φ1-1/4(Φ31.8)	Φ1-1/4(Φ31.8)	Φ1-1/4(Φ31.8)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X1000W/V2GN1	MV5-X1065W/V2GN1	MV5-X1115W/V2GN1
	Independent Unit		MV5-X500W/V2GN1	MV5-X450W/V2GN1	MV5-X500W/V2GN1
			MV5-X500W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	100.0	106.5	111.5
		RT	28.6	30.4	31.9
		kBtu/h	341.2	363.3	380.4
		kcal/h	86,000	91,590	95,890
	Power input	kW	28.94	31.6	33.24
EER	kW/kW	3.46	3.37	3.35	
Heating	Capacity	kW	112.0	119.0	125.0
		RT	32.0	33.9	35.7
		kBtu/h	382.2	406.0	426.5
		kcal/h	96,320	102,340	107,500
	Power input	kW	28.3	30.33	32.01
COP	kW/kW	3.96	3.92	3.91	
DC inverter compressor	Model		E405DHD-36D2YG×2+ E705DHD-72D2YG×2	E405DHD-42D2YG×2+ E705DHD-72D2YG×2	E405DHD-36D2YG+ E705DHD-72D2YG×3
	Quantity		4.0	4.0	4.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	(11.8+23.25)×2	(13.8×2)+(23.25×2)	(11.8+23.25)+(23.25×2)
		kBtu/h	(40.3+79.3)×2	(47.1×2)+(79.3×2)	(40.3+79.3)+(79.3×2)
	Crankcase heater	W	27.6×8	27.6×8	27.6×8
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
Refrigerant oil charge	gal. (ml)	0.132×4(500×4)	0.132×4(500×4)	0.132×4(500×4)	
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		4.0	4.0	4.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	(520+440)×2	(360+290)+(550+430)	(520+440)+(550+430)
	Output	W	(420+350)×2	(290+230)+(440+350)	(420+350)+(440+350)
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		4.0	4.0	4.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		
Outdoor coil	Tube pitch(a) ×row pitch(b)	in.(mm)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)

	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum		
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved	Inner-grooved	Inner-grooved
Outdoor air flow		m3/h	31000.0	29500.0	31000.0
		CFM	18240.0	17360.0	18240.0
Sound pressure level		dB(A)	66	66	66
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity		59	63	64
Outdoor unit	Dimension(WxHxD)	inch	(52-3/4x64-3/8x31-1/8)x2	52-3/4x64-3/8x31-1/8 +52-3/4x64-3/8x31-1/8	52-3/4x64-3/8x31-1/8 +52-3/4x64-3/8x31-1/8
		mm	(1340x1635x790)x2	1340x1635x790 +1340x1635x790	1340x1635x790 +1340x1635x790
	Packing(WxHxD)	inch	(55-3/8x71-1/16x33-5/8)x2	55-3/8x71-1/16x33-5/8 +55-3/8x71-1/16x33-5/8	55-3/8x71-1/16x33-5/8 +55-3/8x71-1/16x33-5/8
		mm	(1405x1805x855)x2	1405x1805x855 +1405x1805x855	1405x1805x855 +1405x1805x855
	Net weight	lbs.(kg)	673x2(305x2)	655+750(297+340)	673+750(305+340)
	Gross weight	lbs.(kg)	712x2(323x2)	695+790(315+358)	712+790(323+358)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	29x2(13x2)	29+35(13+16)	29+35(13+16)
Throttle type			EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)
	Gas pipe	in.(mm)	Φ1-1/2(Φ38.1)	Φ1-1/2(Φ38.1)	Φ1-1/2(Φ38.1)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X1175W/V2GN1	MV5-X1230W/V2GN1	MV5-X1285W/V2GN1
	Independent Unit		MV5-X560W/V2GN1	MV5-X615W/V2GN1	MV5-X335W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X335W/V2GN1
			-	-	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	117.5	123.0	128.5
		RT	33.6	35.1	36.6
		kBtu/h	400.9	419.6	438.4
		kcal/h	101,050	105,780	110,510
	Power input	kW	35.44	37.54	36.19
EER	kW/kW	3.32	3.28	3.55	
Heating	Capacity	kW	132.0	138.0	144.0
		RT	37.7	39.4	41.1
		kBtu/h	450.3	470.8	491.4
		kcal/h	113,520	118,680	123,840
	Power input	kW	33.84	35.72	35.5
COP	kW/kW	3.90	3.86	4.06	
DC inverter compressor	Model		E705DHD-72D2YG×4	E705DHD-72D2YG×4	E705DHD-72D2YG×4
	Quantity		4.0	4.0	4.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	(23.25×2)+(23.25×2)	(23.25×2)×2	23.25×2+23.25×2
		kBtu/h	(79.3×2)+(79.3×2)	(79.3×2)×2	79.3×2+79.3×2
	Crankcase heater	W	27.6×8	27.6×8	27.6×8
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
Refrigerant oil charge	gal. (ml)	0.132×4(500×4)	0.132×4(500×4)	0.132×4(500×4)	
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		4.0	4.0	4.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	(550+430)+(550+430)	(550+430)×2	580×2+(550+430)
	Output	W	(440+350)+(440+350)	(440+350)×2	465×2+(440+350)
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		4.0	4.0	4.0
	External static pressure	in. W.G.(Pa)	0~0.08(0~20) (default)		
		in. W.G.(Pa)	0.08~0.16(20~40) (customized)		
Outdoor coil	Tube pitch(a) ×row pitch(b)	in.(mm)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)

	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum		
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved	Inner-grooved	Inner-grooved
Outdoor air flow		m3/h	31000.0	31000.0	37100.0
		CFM	18240.0	18240.0	21840.0
Sound pressure level		dB(A)	66	66	66
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity		64	64	64
Outdoor unit	Dimension(WxHxD)	inch	52-3/4x64-3/8x31-1/8 +52-3/4x64-3/8x31-1/8	(52-3/4x64-3/8x31-1/8)x2	(39x64-3/8x31-1/8)x2 +52-3/4x64-3/8x31-1/8
		mm	1340x1635x790 +1340x1635x790	(1340x1635x790)x2	(990x1635x790)x2 +1340x1635x790
	Packing(WxHxD)	inch	55-3/8x71-1/16x33-5/8 +55-3/8x71-1/16x33-5/8	(55-3/8x71-1/16x33-5/8)x2	(41-1/2x71-1/16x33-5/8)x2 +55-3/8x71-1/16x33-5/8
		mm	1405x1805x855 +1405x1805x855	(1405x1805x855)x2	(1055x1805x855)x2 +1405x1805x855
	Net weight	lbs.(kg)	750+750(340+340)	750x2(340x2)	523x2+750(237x2+340)
	Gross weight	lbs.(kg)	790+790(358+358)	790x2(358x2)	556x2+790(252x2+358)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	35+35(16+16)	35x2(16x2)	24x2+35(11x2+16)
Throttle type			EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)
	Gas pipe	in.(mm)	Φ1-1/2(Φ38.1)	Φ1-1/2(Φ38.1)	Φ1-1/2(Φ38.1)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X1345W/V2GN1	MV5-X1395W/V2GN1	MV5-X1455W/V2GN1
	Independent Unit		MV5-X280W/V2GN1	MV5-X280W/V2GN1	MV5-X280W/V2GN1
			MV5-X450W/V2GN1	MV5-X500W/V2GN1	MV5-X560W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	134.5	139.5	145.5
		RT	38.4	39.9	41.6
		kBtu/h	458.8	475.9	496.4
		kcal/h	115,670	119,970	125,130
	Power input	kW	38.62	40.26	42.46
EER	kW/kW	3.48	3.46	3.43	
Heating	Capacity	kW	150.5	156.5	163.5
		RT	42.8	44.6	46.6
		kBtu/h	513.5	534.0	557.8
		kcal/h	129,430	134,590	140,610
	Power input	kW	37.52	39.2	41.03
COP	kW/kW	4.01	3.99	3.98	
DC inverter compressor	Model		E655DHD-65D2YG+ E405DHD-42D2YGx2+ E705DHD-72D2YGx2	E655DHD-65D2YG+ E405DHD-36D2YG+ E705DHD-72D2YGx3	E655DHD-65D2YG+ E705DHD-72D2YGx4
	Quantity		5.0	5.0	5.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	21.06+(13.8x2) +(23.25x2)	21.06+(11.8+23.25) +(23.25x2)	21.06+(23.25x2) +(23.25x2)
		kBtu/h	71.9+(47.1x2) +(79.3x2)	71.9+(40.3+79.3) +(79.3x2)	71.9+(79.3x2) +(79.3x2)
	Crankcase heater	W	27.6x10	27.6x10	27.6x10
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
	Refrigerant oil charge	gal. (ml)	0.132x5(500x5)	0.132x5(500x5)	0.132x5(500x5)
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		5.0	5.0	5.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	580+(360+290) +(550+430)	580+(520+440) +(550+430)	580+(550+430) +(550+430)
	Output	W	465+(290+230) +(440+350)	465+(420+350) +(440+350)	465+(440+350) +(440+350)
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		5.0	5.0	5.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
in. W.G. (Pa)		0.08~0.16(20~40) (customized)			
Outdoor coil	Tube pitch(a) xrow	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)

	pitch(b)				
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type	Hydrophilic aluminum			
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type	Inner-grooved			
Outdoor air flow		m3/h	40300.0	41800.0	41800.0
		CFM	23720.0	24600.0	24600.0
Sound pressure level		dB(A)	67	67	67
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity	64			
Outdoor unit	Dimension(W×H×D)	inch	39×64-3/8×31-1/8	39×64-3/8×31-1/8	39×64-3/8×31-1/8
			+52-3/4×64-3/8×31-1/8	+52-3/4×64-3/8×31-1/8	+52-3/4×64-3/8×31-1/8
	+52-3/4×64-3/8×31-1/8		+52-3/4×64-3/8×31-1/8	+52-3/4×64-3/8×31-1/8	
	mm	990×1635×790	990×1635×790	990×1635×790	
		+1340×1635×790	+1340×1635×790	+1340×1635×790	
		+1340×1635×790	+1340×1635×790	+1340×1635×790	
	Packing(W×H×D)	inch	41-1/2×71-1/16×33-5/8	41-1/2×71-1/16×33-5/8	41-1/2×71-1/16×33-5/8
			+55-3/8×71-1/16×33-5/8	+55-3/8×71-1/16×33-5/8	+55-3/8×71-1/16×33-5/8
			+55-3/8×71-1/16×33-5/8	+55-3/8×71-1/16×33-5/8	+55-3/8×71-1/16×33-5/8
	mm	1055×1805×855	1055×1805×855	1055×1805×855	
+1405×1805×855		+1405×1805×855	+1405×1805×855		
+1405×1805×855		+1405×1805×855	+1405×1805×855		
Net weight	lbs.(kg)	483+655+750 (219+297+340)	483+673+750 (219+305+340)	483+750+750 (219+340+340)	
Gross weight	lbs.(kg)	516+695+790 (234+315+358)	516+712+790 (234+323+358)	516+790+790 (234+358+358)	
Refrigerant	Type	R410A			
	Factory charged	lbs.(kg)	20+29+35(9+13+16)	20+29+35(9+13+16)	20+35+35(9+16+16)
Throttle type		EXV			
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ3/4(Φ19.1)	Φ3/4(Φ19.1)	Φ7/8(Φ22.2)
	Gas pipe	in.(mm)	Φ1-1/2(Φ38.1)	Φ1-1/2(Φ38.1)	Φ1-5/8(Φ41.2)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X1510W/V2GN1	MV5-X1565W/V2GN1	MV5-X1615W/V2GN1
	Independent Unit		MV5-X280W/V2GN1	MV5-X335W/V2GN1	MV5-X500W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X500W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	151.0	156.5	161.5
		RT	43.1	44.6	46.2
		kBtu/h	515.1	533.9	551.0
		kcal/h	129,860	134,590	138,890
	Power input	kW	44.56	46.25	47.71
	EER	kW/kW	3.39	3.38	3.39
Heating	Capacity	kW	169.5	175.5	181.0
		RT	48.3	50.1	51.7
		kBtu/h	578.3	598.8	617.6
		kcal/h	145,770	150,930	155,660
	Power input	kW	42.91	44.54	46.16
	COP	kW/kW	3.95	3.94	3.92
DC inverter compressor	Model		E655DHD-65D2YG+ E705DHD-72D2YGx4	E705DHD-72D2YGx5	E405DHD-36D2YGx2+ E705DHD-72D2YGx4
	Quantity		5.0	5.0	6.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	21.06+(23.25x2)x2	23.25+(23.25x2)x2	(11.8+23.25)x2+23.25x2
		kBtu/h	71.9+(79.3x2)x2	79.3+(79.3x2)x2	(40.3+79.3)x2+79.3x2
	Crankcase heater	W	27.6x10	27.6x10	27.6x12
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
	Refrigerant oil charge	gal. (ml)	0.132x5(500x5)	0.132x5(500x5)	0.132x6(500x6)
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		5.0	5.0	6.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	580+(550+430)x2	580+(550+430)x2	(520+440)x2+(550+430)
	Output	W	465+(440+350)x2	465+(440+350)x2	(420+350)x2+(440+350)
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		5.0	5.0	6.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		

Outdoor coil	Tube pitch(a) xrow pitch(b)	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type	Hydrophilic aluminum			
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type	Inner-grooved			
Outdoor air flow		m3/h	41800.0	41800.0	46500.0
		CFM	24600.0	24600.0	27360.0
Sound pressure level		dB(A)	67	67	68
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity	64			
Outdoor unit	Dimension (WxHxD)	inch	39x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x2	39x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x2	(52-3/4x64-3/8x31-1/8)x2 +52-3/4x64-3/8x31-1/8
		mm	990x1635x790+ (1340x1635x790)x2	990x1635x790+ (1340x1635x790)x2	(1340x1635x790)x2 +1340x1635x790
	Packing (WxHxD)	inch	41-1/2x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x2	41-1/2x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x2	(55-3/8x71-1/16x33-5/8)x2 +55-3/8x71-1/16x33-5/8
		mm	1055x1805x855+ (1405x1805x855)x2	1055x1805x855+ (1405x1805x855)x2	(1405x1805x855)x2 +1405x1805x855
	Net weight	lbs.(kg)	483+750x2(219+340x2)	523+750x2(237+340x2)	673x2+750(305x2+340)
	Gross weight	lbs.(kg)	516+790x2(234+358x2)	556+790x2(252+358x2)	712x2+323(323x2+358)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	20+35x2(9+16x2)	24+35x2(11+16x2)	29x2+35(13x2+16)
Throttle type			EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)
	Gas pipe	in.(mm)	Φ1-5/8(Φ41.2)	Φ1-5/8(Φ41.2)	Φ1-5/8(Φ41.2)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X1680W/V2GN1	MV5-X1730W/V2GN1	MV5-X1790W/V2GN1
	Independent Unit		MV5-X450W/V2GN1	MV5-X500W/V2GN1	MV5-X560W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	168.0	173.0	179.0
		RT	47.9	49.4	51.1
		kBtu/h	573.1	590.2	610.7
		kcal/h	144,480	148,780	153,940
	Power input	kW	50.37	52.01	54.21
	EER	kW/kW	3.34	3.33	3.30
Heating	Capacity	kW	188.0	194.0	201.0
		RT	53.6	55.4	57.4
		kBtu/h	641.4	661.9	685.7
		kcal/h	161,680	166,840	172,860
	Power input	kW	48.19	49.87	51.7
	COP	kW/kW	3.90	3.89	3.89
DC inverter compressor	Model		E405DHD-42D2YGx2+ E705DHD-72D2YGx4	E405DHD-36D2YG+ E705DHD-72D2YGx6	E705DHD-72D2YGx6
	Quantity		6.0	6.0	6.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	13.8x2+(23.25x2)x2	(11.8+23.25)+(23.25x2)x2	23.25x2+(23.25x2)x2
		kBtu/h	47.1x2+(79.3x2)x2	(40.3+79.3)+(79.3x2)x2	79.3x2+(79.3x2)x2
	Crankcase heater	W	27.6x12	27.6x12	27.6x12
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
	Refrigerant oil charge	gal. (ml)	0.132x6(500x6)	0.132x6(500x6)	0.132x6(500x6)
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		6.0	6.0	6.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	(360+290)+(550+430)x2	(520+440)+(550+430)x2	(550+430)+(550+430)x2
	Output	W	(290+230)+(440+350)x2	(420+350)+(440+350)x2	(440+350)+(440+350)x2
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		6.0	6.0	6.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		

Outdoor coil	Tube pitch(a) xrow pitch(b)	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type	Hydrophilic aluminum			
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type	Inner-grooved			
Outdoor air flow		m3/h	45000.0	46500.0	46500.0
		CFM	26480.0	27360.0	27360.0
Sound pressure level		dB(A)	68	68	68
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity	64			
Outdoor unit	Dimension(Wx HxD)	inch	52-3/4x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x2	52-3/4x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x2	52-3/4x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x2
		mm	1340x1635x790+ (1340x1635x790)x2	1340x1635x790+ (1340x1635x790)x2	1340x1635x790+ (1340x1635x790)x2
	Packing(WxH xD)	inch	55-3/8x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x2	55-3/8x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x2	55-3/8x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x2
		mm	1405x1805x855+ (1405x1805x855)x2	1405x1805x855+ (1405x1805x855)x2	1405x1805x855+ (1405x1805x855)x2
	Net weight	lbs.(kg)	655+750x2(297+340x2)	673+750x2(305+340x2)	750+750x2(340+340x2)
	Gross weight	lbs.(kg)	695+790x2(315+358x2)	712+790x2(323+358x2)	790+790x2(358+358x2)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	29+35x2(13+16x2)	29+35x2(13+16x2)	35+35x2(16+16x2)
Throttle type			EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)
	Gas pipe	in.(mm)	Φ1-5/8(Φ41.2)	Φ1-5/8(Φ41.2)	Φ1-5/8(Φ41.2)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X1845W/V2GN1	MV5-X1900W/V2GN1	MV5-X1960W/V2GN1
	Independent Unit		MV5-X615W/V2GN1	MV5-X335W/V2GN1	MV5-X280W/V2GN1
			MV5-X615W/V2GN1	MV5-X335W/V2GN1	MV5-X450W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
			-	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	184.5	190.0	196.0
		RT	52.7	54.1	55.9
		kBtu/h	629.4	648.2	668.6
		kcal/h	158,670	163,400	168,560
	Power input	kW	56.31	54.96	57.39
EER	kW/kW	3.28	3.46	3.42	
Heating	Capacity	kW	207.0	213.0	219.5
		RT	59.1	60.8	62.5
		kBtu/h	706.2	726.8	748.9
		kcal/h	178,020	183,180	188,770
	Power input	kW	53.58	53.36	55.38
COP	kW/kW	3.86	3.99	3.96	
DC inverter compressor	Model		E705DHD-72D2YG×6	E705DHD-72D2YG×6	E655DHD-65D2YG+ E405DHD-42D2YG×2+ E705DHD-72D2YG×4
	Quantity		6.0	6.0	7.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	(23.25×2)×3	23.25×2+(23.25×2)×2	21.06+13.8×2+23.25×2
		kBtu/h	(79.3×2)×3	79.3×2+(79.3×2)×2	71.9+47.1×2+79.3×2
	Crankcase heater	W	27.6×12	27.6×12	27.6×14
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
Refrigerant oil charge	gal. (ml)	0.132×6(500×6)	0.132×6(500×6)	0.132×7(500×7)	
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		6.0	6.0	7.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	(550+430)×3	580×2+(550+430)×2	580+(360+290)+(550+430)×2
	Output	W	(440+350)×3	465×2+(440+350)×2	465+(290+230)+(440+350)×2
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		6.0	6.0	7.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		
Outdoor coil	Tube pitch(a) xrow pitch(b)	in.(mm)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)

	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum		
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved	Inner-grooved	Inner-grooved
Outdoor air flow		m3/h	46500.0	52600.0	55800.0
		CFM	27360.0	30960.0	32840.0
Sound pressure level		dB(A)	68	68	69
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity		64	64	64
Outdoor unit	Dimension (W×H×D)	inch	(52-3/4×64-3/8×31-1/8)×3	(39×64-3/8×31-1/8)×2+ (52-3/4×64-3/8×31-1/8)×2	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8
		mm	(1340×1635×790)×3	(990×1635×790)×2+ (1340×1635×790)×2	990×1635×790 +1340×1635×790 +1340×1635×790
	Packing (W×H×D)	inch	(55-3/8×71-1/16×33-5/8)×3	(41-1/2×71-1/16×33-5/8)×2+ (55-3/8×71-1/16×33-5/8)×2	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8
		mm	(1405×1805×855)×3	(1055×1805×855)×2+ (1405×1805×855)×2	1055×1805×855 +1405×1805×855 +1405×1805×855
	Net weight	lbs.(kg)	750×3(340×3)	523×2+750×2(237×2+340×2)	483+655+750(219+297+340)
	Gross weight	lbs.(kg)	790×3(358×3)	556×2+790×2(252×2+358×2)	516+695+790(234+315+358)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	35×3(16×3)	24×2+35×2(11×2+16×2)	20+29+35(9+13+16)
Throttle type			EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ7/8(Φ22.2)	Φ1(Φ25.4)	Φ1(Φ25.4)
	Gas pipe	in.(mm)	Φ1-5/8(Φ41.2)	Φ1-3/4(Φ44.5)	Φ1-3/4(Φ44.5)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X2010W/V2GN1	MV5-X2070W/V2GN1	MV5-X2125W/V2GN1
	Independent Unit		MV5-X280W/V2GN1	MV5-X280W/V2GN1	MV5-X280W/V2GN1
			MV5-X500W/V2GN1	MV5-X560W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	201.0	207.0	212.5
		RT	57.4	59.1	60.7
		kBtu/h	685.7	706.2	724.9
		kcal/h	172,860	178,020	182,750
	Power input	kW	59.03	61.23	63.33
EER	kW/kW	3.41	3.38	3.36	
Heating	Capacity	kW	225.5	232.5	238.5
		RT	64.3	66.3	68.0
		kBtu/h	769.4	793.2	813.7
		kcal/h	193,930	199,950	205,110
	Power input	kW	57.06	58.89	60.77
COP	kW/kW	3.95	3.95	3.92	
DC inverter compressor	Model		E655DHD-65D2YG+ E405DHD-36D2YG+ E705DHD-72D2YGx5	E655DHD-65D2YG+ E705DHD-72D2YGx6	E655DHD-65D2YG+ E705DHD-72D2YGx6
	Quantity		7.0	7.0	7.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	21.06+(11.8+23.25)+23.25x2	21.06+23.25x2+23.25x2	21.06+(23.25x2)x3
		kBtu/h	71.9+(40.3+79.3)+79.3x2	71.9+79.3x2+79.3x2	71.9+(79.3x2)x3
	Crankcase heater	W	27.6x14	27.6x14	27.6x14
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
	Refrigerant oil charge	gal. (ml)	0.132x7(500x7)	0.132x7(500x7)	0.132x7(500x7)
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		7.0	7.0	7.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	580+(520+440)+(550+430)x2	580+(550+430)+(550+430)x2	580+(550+430)x3
	Output	W	465+(420+350)+(440+350)x2	465+(440+350)+(440+350)x2	465+(440+350)x3
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		7.0	7.0	7.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		
Outdoor coil	Tube pitch(a) xrow pitch(b)	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)

	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum		
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved		
Outdoor air flow		m3/h	57300.0	57300.0	57300.0
		CFM	33720.0	33720.0	33720.0
Sound pressure level		dB(A)	69	69	69
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity		64	64	64
Outdoor unit	Dimension (W×H×D)	inch	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8	39×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8 +52-3/4×64-3/8×31-1/8	39×64-3/8×31-1/8+ (52-3/4×64-3/8×31-1/8)×3
		mm	990×1635×790 +1340×1635×790 +1340×1635×790	990×1635×790 +1340×1635×790 +1340×1635×790	990×1635×790+ (1340×1635×790)×3
	Packing (W×H×D)	inch	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8	41-1/2×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8 +55-3/8×71-1/16×33-5/8	41-1/2×71-1/16×33-5/8+ (55-3/8×71-1/16×33-5/8)×3
		mm	1055×1805×855 +1405×1805×855 +1405×1805×855	1055×1805×855 +1405×1805×855 +1405×1805×855	1055×1805×855+ (1405×1805×855)×3
	Net weight	lbs.(kg)	483+673+750(219+305+340)	483+750+750(219+340+340)	483+750×3(219+340×3)
	Gross weight	lbs.(kg)	516+712+790(234+323+358)	516+790+790(234+358+358)	516+790×3(234+358×3)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	20+29+35(9+13+16)	20+35+35(9+16+16)	20+35×3(9+16×3)
Throttle type			EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ1(Φ25.4)	Φ1(Φ25.4)	Φ1(Φ25.4)
	Gas pipe	in.(mm)	Φ1-3/4(Φ44.5)	Φ1-3/4(Φ44.5)	Φ1-3/4(Φ44.5)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X2180W/V2GN1	MV5-X2230W/V2GN1	MV5-X2295W/V2GN1
	Independent Unit		MV5-X335W/V2GN1	MV5-X500W/V2GN1	MV5-X450W/V2GN1
			MV5-X615W/V2GN1	MV5-X500W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	218.0	223.0	229.5
		RT	62.2	63.7	65.5
		kBtu/h	743.7	760.8	782.9
		kcal/h	187,480	191,780	197,370
	Power input	kW	65.02	66.48	69.14
EER	kW/kW	3.35	3.35	3.32	
Heating	Capacity	kW	244.5	250.0	257.0
		RT	69.8	71.4	73.3
		kBtu/h	834.2	853.0	876.8
		kcal/h	210,270	215,000	221,020
	Power input	kW	62.4	64.02	66.05
COP	kW/kW	3.92	3.91	3.89	
DC inverter compressor	Model		E705DHD-72D2YG×7	E405DHD-36D2YG×2+ E705DHD-72D2YG×6	E405DHD-42D2YG×2+ E705DHD-72D2YG×6
	Quantity		7.0	8.0	8.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	23.25+(23.25×2)×3	(11.8+23.25)×2+(23.25×2)×2	13.8×2+(23.25×2)×3
		kBtu/h	79.3+(79.3×2)×3	(40.3+79.3)×2+(79.3×2)×2	47.1×2+(79.3×2)×3
	Crankcase heater	W	27.6×14	27.6×16	27.6×16
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
	Refrigerant oil charge	gal. (ml)	0.132×7(500×7)	0.132×8(500×8)	0.132×8(500×8)
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		7.0	8.0	8.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	580+(550+430)×3	(520+440)×2+(550+430)×2	360+290+(550+430)×3
	Output	W	465+(440+350)×3	(420+350)×2+(440+350)×2	(290+230)+(440+350)×3
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		7.0	8.0	8.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)		
Outdoor coil	Tube pitch(a) xrow pitch(b)	in.(mm)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)

			Hydrophilic aluminum		
Fin type					
Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
Tube type		Inner-grooved	Inner-grooved	Inner-grooved	Inner-grooved
Outdoor air flow		m3/h	57300.0	62000.0	60500.0
		CFM	33720.0	36480.0	35600.0
Sound pressure level		dB(A)	69	70	70
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity		64	64	64
Outdoor unit	Dimension (WxHxD)	inch	39x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x3	(52-3/4x64-3/8x31-1/8)x2 +(52-3/4x64-3/8x31-1/8)x2	52-3/4x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x3
		mm	990x1635x790+ (1340x1635x790)x3	(1340x1635x790)x2 +(1340x1635x790)x2	1340x1635x790+ (1340x1635x790)x3
	Packing (WxHxD)	inch	41-1/2x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x3	(55-3/8x71-1/16x33-5/8)x2 +(55-3/8x71-1/16x33-5/8)x2	55-3/8x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x3
		mm	1055x1805x855+ (1405x1805x855)x3	(1405x1805x855)x2 +(1405x1805x855)x2	1405x1805x855+ (1405x1805x855)x3
	Net weight	lbs.(kg)	523+750x3(237+340x3)	673x2+750x2(305x2+340x2)	655+750x3(297+340x3)
	Gross weight	lbs.(kg)	556+790x3(252+358x3)	712x2+323x2(323x2+358x2)	695+790x3(315+358x3)
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	lbs.(kg)	24+35x3(11+16x3)	29x2+35x2(13x2+16x2)	29+35x3(13+16x3)
Throttle type		EXV			
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ1(Φ25.4)	Φ1(Φ25.4)	Φ1(Φ25.4)
	Gas pipe	in.(mm)	Φ1-3/4(Φ44.5)	Φ1-3/4(Φ44.5)	Φ1-3/4(Φ44.5)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

Combination unit specifications

Model	Combination Unit		MV5-X2125W/V2GN1	MV5-X2180W/V2GN1	MV5-X2230W/V2GN1
	Independent Unit		MV5-X500W/V2GN1	MV5-X560W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
			MV5-X615W/V2GN1	MV5-X615W/V2GN1	MV5-X615W/V2GN1
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz		
Cooling	Capacity	kW	234.5	240.5	246.0
		RT	67.0	68.7	70.3
		kBtu/h	800.0	820.5	839.2
		kcal/h	201,670	206,830	211,560
	Power input	kW	70.78	72.98	75.08
EER	kW/kW	3.31	3.30	3.28	
Heating	Capacity	kW	263.0	270.0	276.0
		RT	75.1	77.1	78.9
		kBtu/h	897.3	921.1	941.6
		kcal/h	226,180	232,200	237,360
	Power input	kW	67.73	69.56	71.44
COP	kW/kW	3.88	3.88	3.86	
DC inverter compressor	Model		E405DHD-36D2YG+ E705DHD-72D2YG×7	E705DHD-72D2YG×8	E705DHD-72D2YG×8
	Quantity		8.0	8.0	8.0
	Type		DC inverter	DC inverter	DC inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	kW	(11.8+23.25)+(23.25×2)×3	23.25×2+(23.25×2)×3	(23.25×2)×4
		kBtu/h	(40.3+79.3)+(79.3×2)×3	79.3×2+(79.3×2)×3	(79.3×2)×4
	Crankcase heater	W	27.6×16	27.6×16	27.6×16
	Refrigerant oil type		FVC68D	FVC68D	FVC68D
Refrigerant oil charge	gal. (ml)	0.132×8(500×8)	0.132×8(500×8)	0.132×8(500×8)	
Outdoor fan motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic/Nidec	Panasonic/Nidec	Panasonic/Nidec
	Quantity		8.0	8.0	8.0
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	(520+440)+(550+430)×3	(550+430)+(550+430)×3	(550+430)×4
	Output	W	(420+350)+(440+350)×3	(440+350)+(440+350)×3	(440+350)×4
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantity		8.0	8.0	8.0
	External static pressure	in. W.G. (Pa)	0~0.08(0~20) (default)		
		in. W.G.	0.08~0.16(20~40) (customized)		

		(Pa)			
Outdoor coil	Tube pitch(a) x row pitch(b)	in.(mm)	7/8x3/4(22x19)	7/8x3/4(22x19)	7/8x3/4(22x19)
	Fin spacing	in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type	Hydrophilic aluminum			
	Tube outside diameter	in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type	Inner-grooved			
Outdoor air flow		m ³ /h	62000.0	62000.0	62000.0
		CFM	36480.0	36480.0	36480.0
Sound pressure level		dB(A)	70	70	70
Connectable indoor unit	Total capacity	%	50-130	50-130	50-130
	Max. quantity	64		64	64
Outdoor unit	Dimension (WxHxD)	inch	52-3/4x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x3	52-3/4x64-3/8x31-1/8+ (52-3/4x64-3/8x31-1/8)x3	(52-3/4x64-3/8x31-1/8)x4
		mm	1340x1635x790+ (1340x1635x790)x3	1340x1635x790+ (1340x1635x790)x3	(1340x1635x790)x4
	Packing (WxHxD)	inch	55-3/8x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x3	55-3/8x71-1/16x33-5/8+ (55-3/8x71-1/16x33-5/8)x3	(55-3/8x71-1/16x33-5/8)x4
		mm	1405x1805x855+ (1405x1805x855)x3	1405x1805x855+ (1405x1805x855)x3	(1405x1805x855)x4
	Net weight	lbs.(kg)	673+750x3(305+340x3)	750+750x3(340+340x3)	750x4(340x4)
	Gross weight	lbs.(kg)	712+790x3(323+358x3)	790+790x3(358+358x3)	790x4(358x4)
Refrigerant	Type	R410A			
	Factory charged	lbs.(kg)	29+35x3(13+16x3)	35+35x3(16+16x3)	35x4(16x4)
Throttle type		EXV			
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380
Pipe connections	Liquid pipe	in.(mm)	Φ1(Φ25.4)	Φ1(Φ25.4)	Φ1(Φ25.4)
	Gas pipe	in.(mm)	Φ1-3/4(Φ44.5)	Φ1-3/4(Φ44.5)	Φ1-3/4(Φ44.5)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)		
	Heating	°F(°C)	-4~75.2(-20~24)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

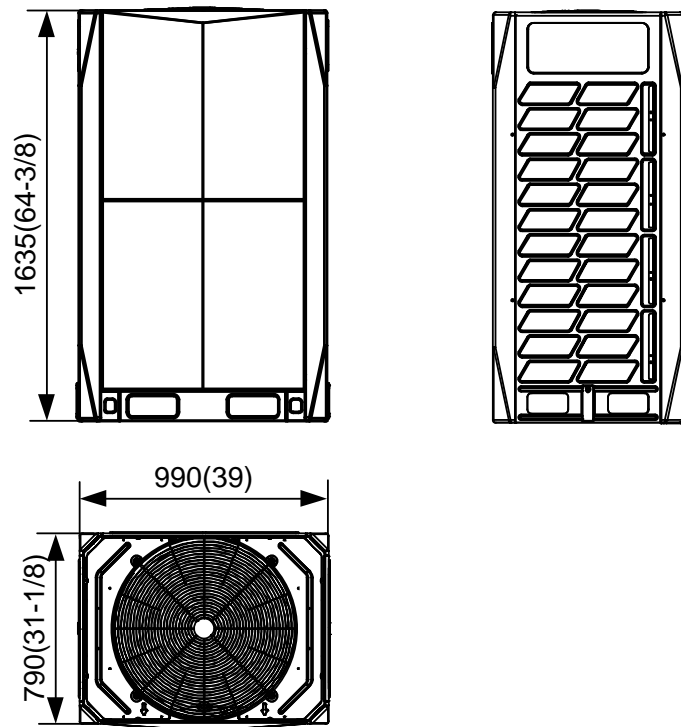
Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m(295.2ft). When the total equivalent liquid length is more than 90m(295.2ft), please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m(3.28ft) in front of the unit and 1.3m(4.26ft) above the floor.

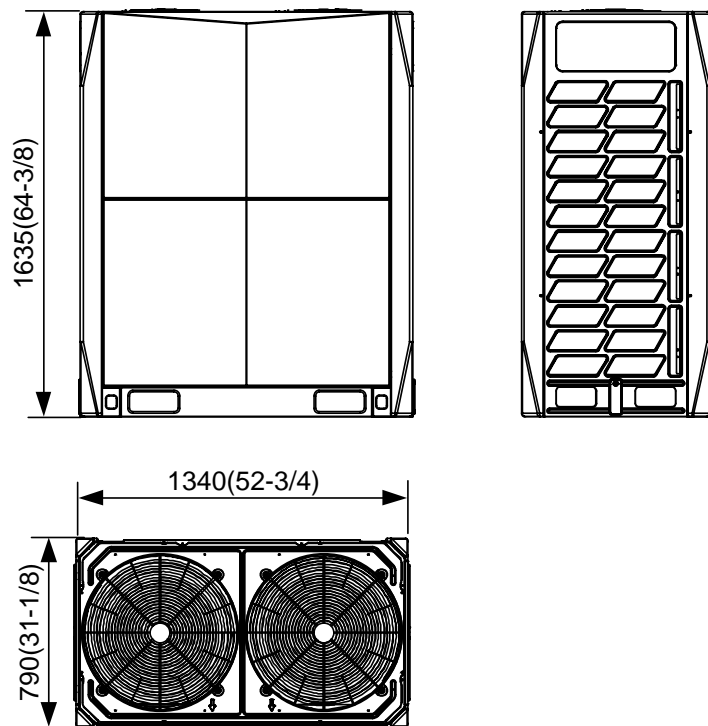
2. Dimensions

2.1 Overall dimensions

8, 10, 12HP, unit: mm(in.)

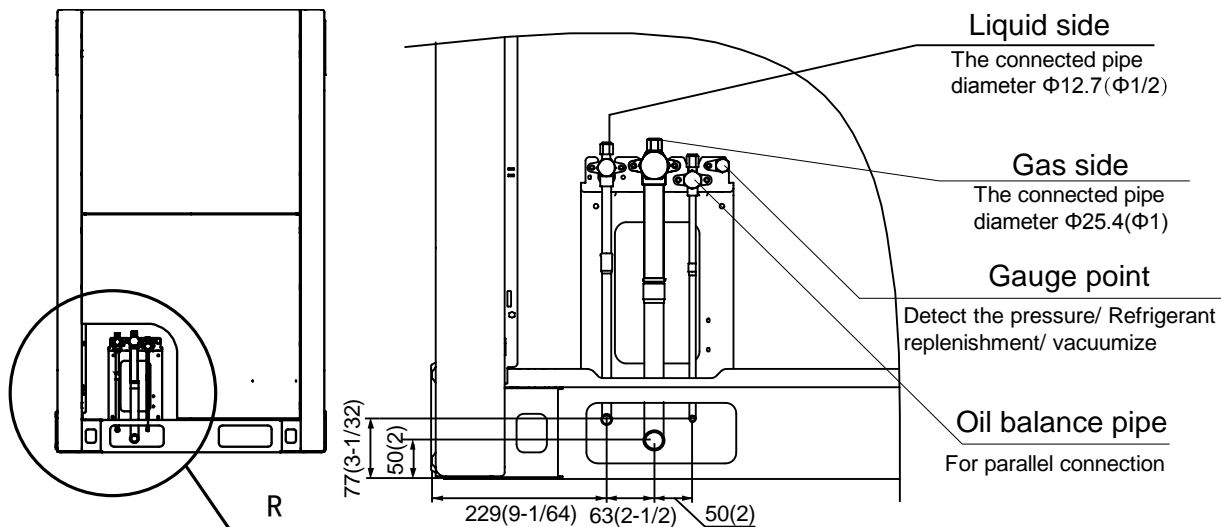


14, 16, 18, 20, 22HP, unit: mm(in.)

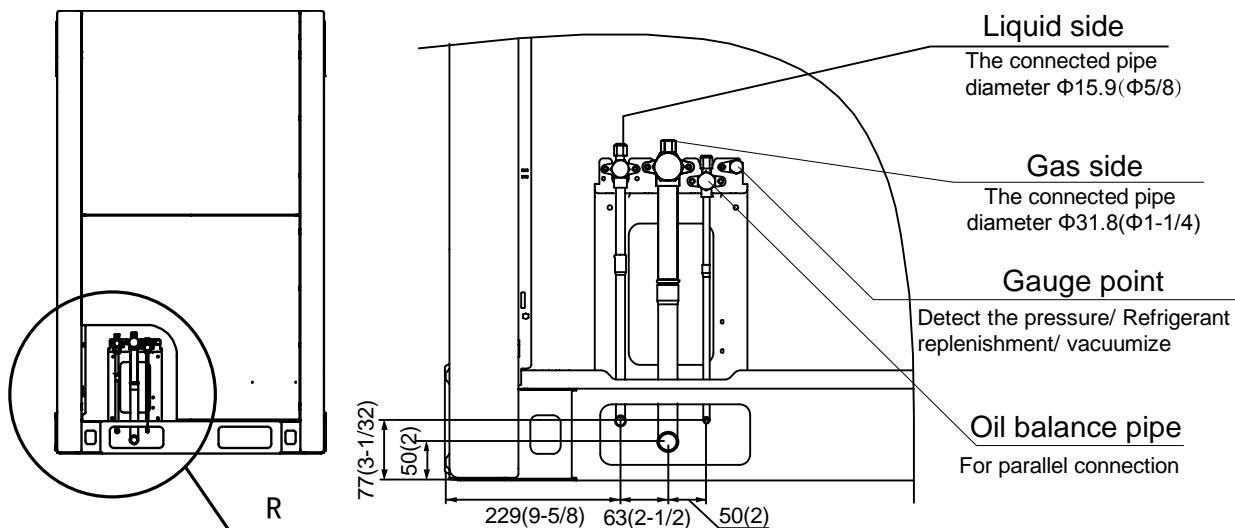


2.2 Section dimensions

8, 10, 12HP, unit: mm(in.)



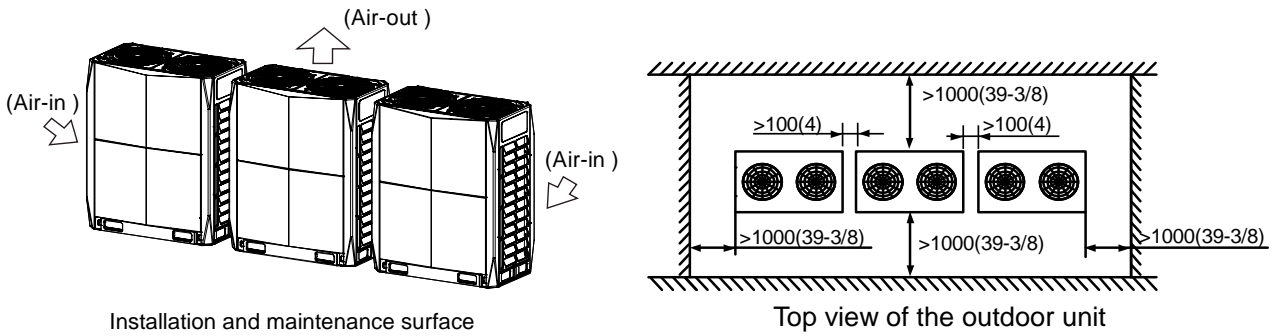
14, 16, 18, 20, 22HP, unit: mm(in.)



3. Service space

- Ensure enough space for maintenance. The modules in the same system must be on the same height. When installing the unit, leave enough space for maintenance.

Unit: mm(in.)



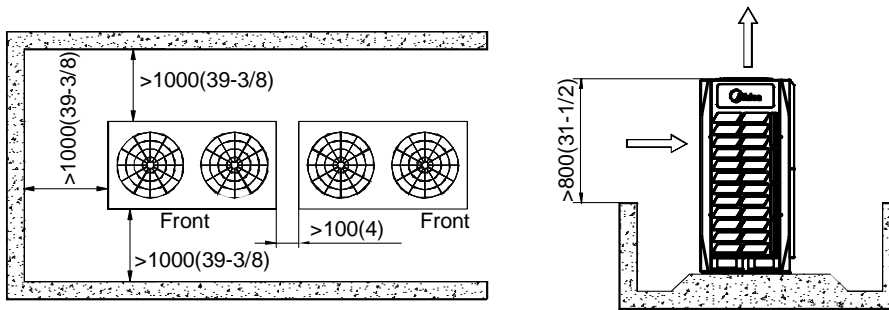
Installation and maintenance surface

Top view of the outdoor unit

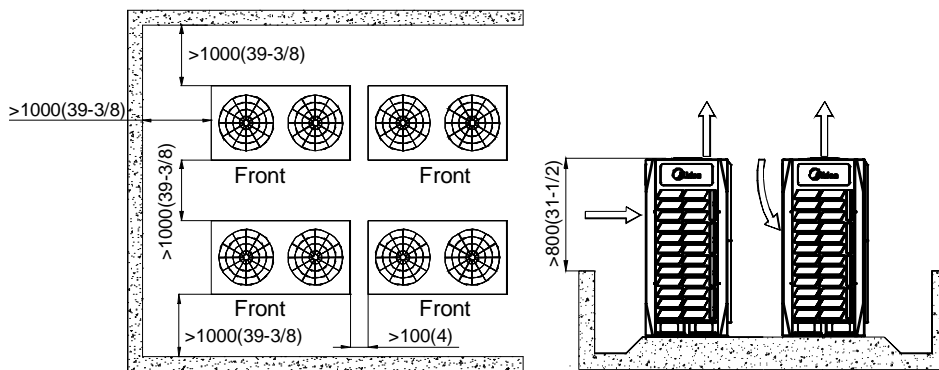
- When the outdoor unit is higher than the surrounding obstacle

Unit: mm(in.)

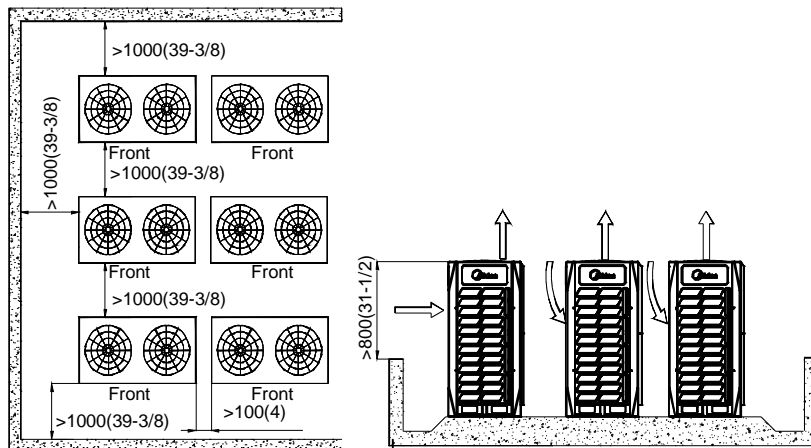
One row



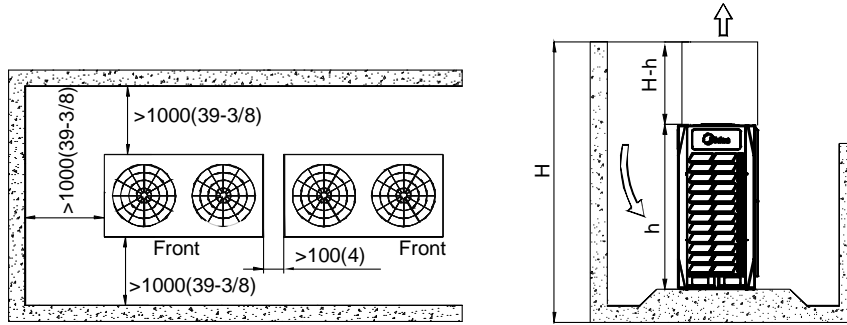
Two rows



More than two rows

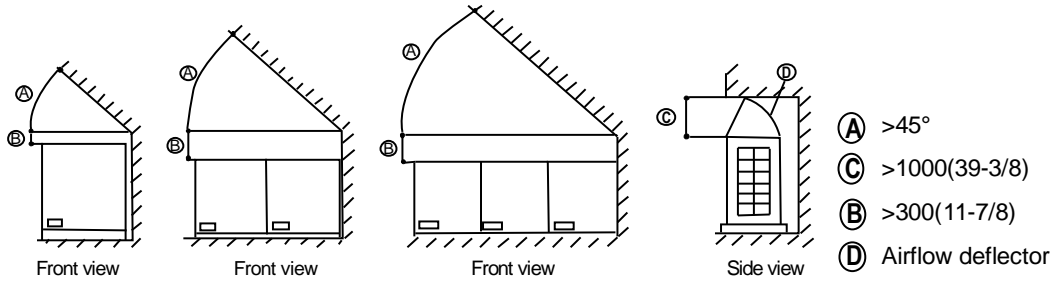


- When the outdoor unit is lower than the surrounding obstacle, to avoid cross connection of the outdoor hot air from affecting the heat exchange effect, please add an air director onto the exhaust hood of the outdoor unit to facilitate heat dissipation. See the figure below. The height of the air director is HD (namely H-h). Please make the air director on site.



Unit: mm(in.)

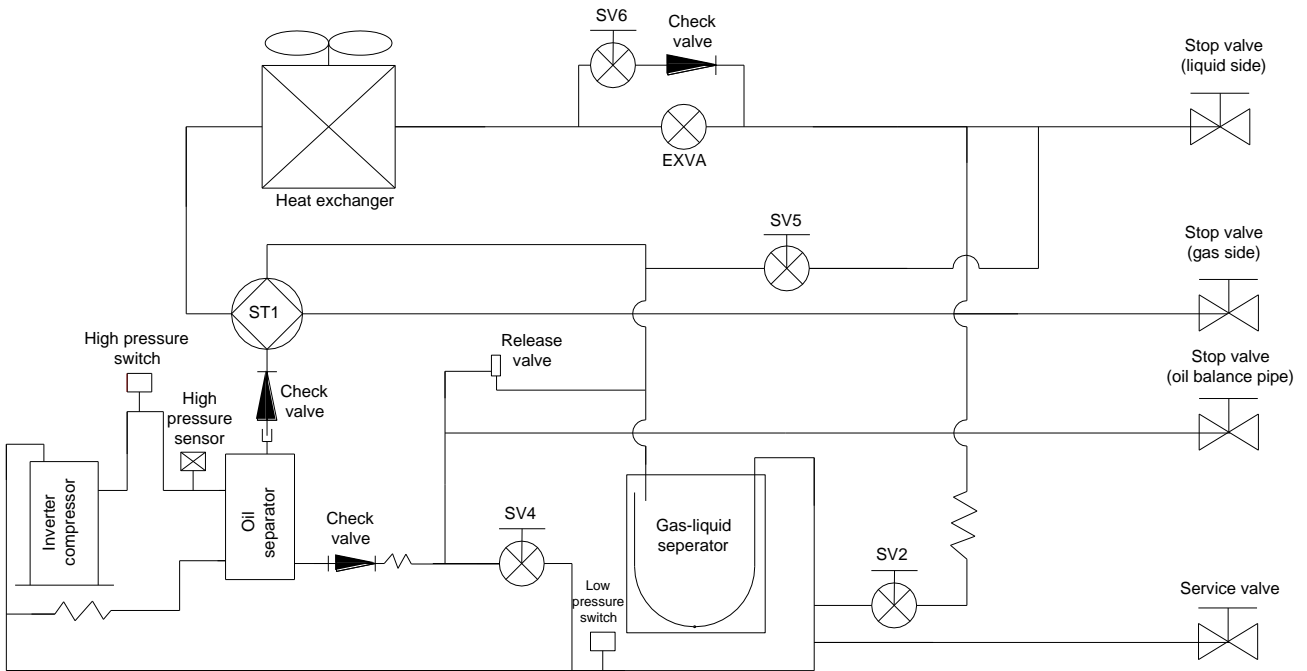
- If miscellaneous articles are piled around the outdoor unit, such articles must be 800mm(31-1/2in) below the top of the outdoor unit. The articles must be 800mm(31-1/2in) below the top of the outdoor unit. Otherwise, a mechanic exhaust device must be added.



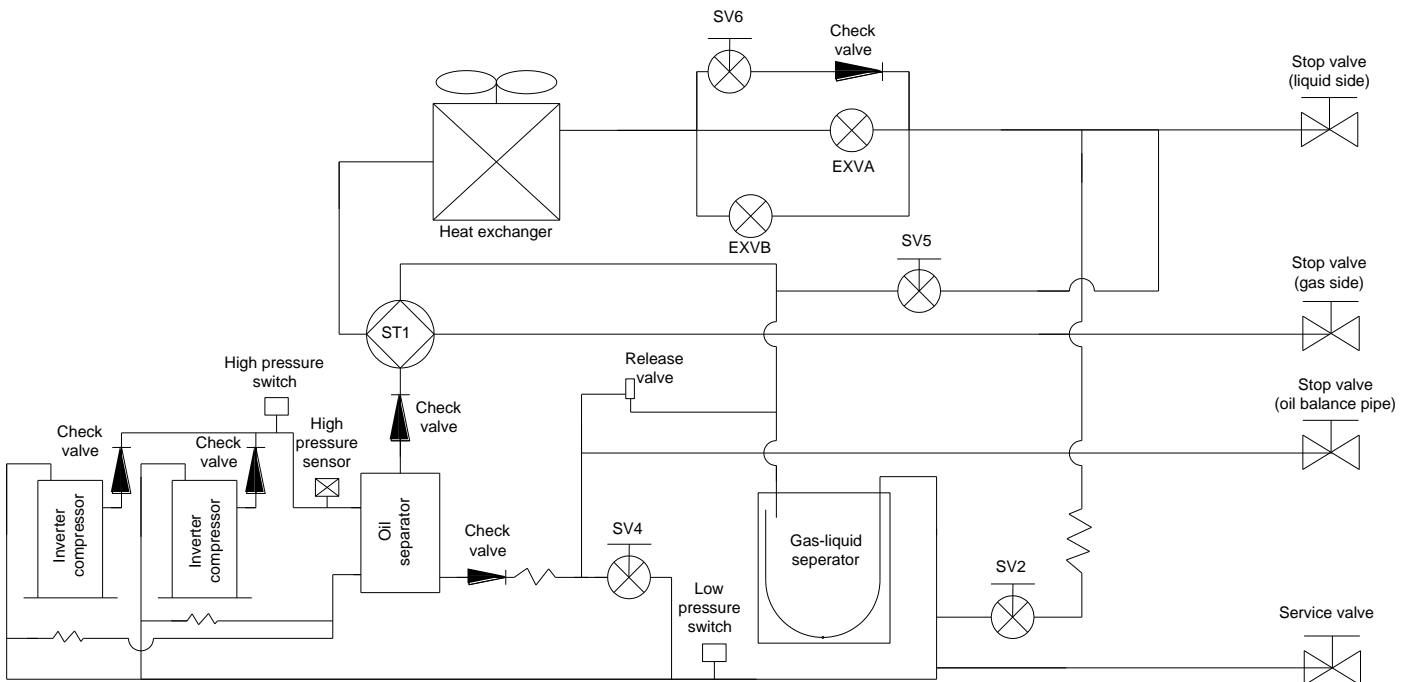
Unit: mm(in.)

4. Piping diagrams

8, 10, 12HP



14, 16, 18, 20, 22HP



Key components:

Oil separator: It is used to separate oil from high pressure and high temperature gas refrigerant, which is pumped out from compressor. The separation efficiency is up to 99%, it makes the oil return back to each compressor very soon.

Gas-liquid separator: It is used to store the liquid refrigerant and oil; it can protect the compressor from liquid hammer.

EXV (Electronic Expansion Valve): It is used to adjust refrigerant volume.

Four-way valve ST1: closed in cooling mode and open in heating mode. It is used to change the refrigerant flow direction in heating mode. When the ST1 is OFF, the heat exchanger is condenser. When the ST1 is ON, the heat exchanger is evaporator.

SV2: It is used to protect compressor. When any compressor discharge temperature is higher than 100°C, SV2 will be open to spray a little liquid refrigerant to cooling compressor, and it will be closed when the discharge temperature is lower than 90°C.

SV4: oil return valve. It will open after the inverter compressor has been run for 5 minutes and will close 15 minutes later (for the system has only one outdoor unit.).

Every 20 minutes, SV4 of each outdoor unit will open for 3 minutes (for the system has more than one outdoor unit.).

SV5: It is used for fast defrosting. In defrosting mode, the opening of SV5 can shorten the refrigerant flowing circle, so the defrosting process will takes less time. In cooling mode, it is always off.

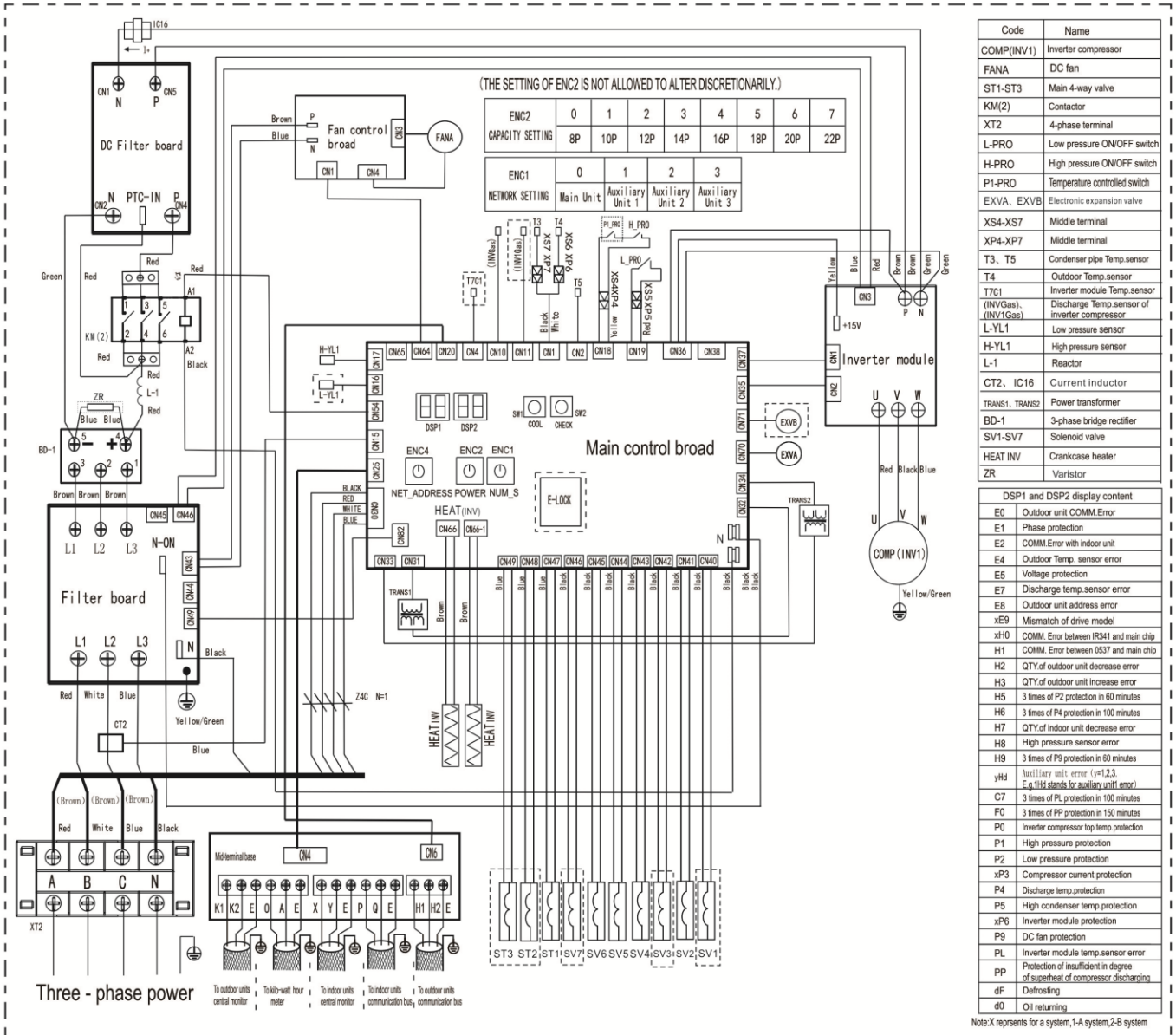
SV6: It is used for by-pass. Open when the discharge temperature is over-high in cooling mode, and close when the unit is standby or system is in heating mode.

Pressure switch: It is used to protect the system pressure. When the system pressure is too high or too low, the pressure switch will open. Once the pressure switch is open, the compressor will stop, and the compressor will restart after ten minutes.

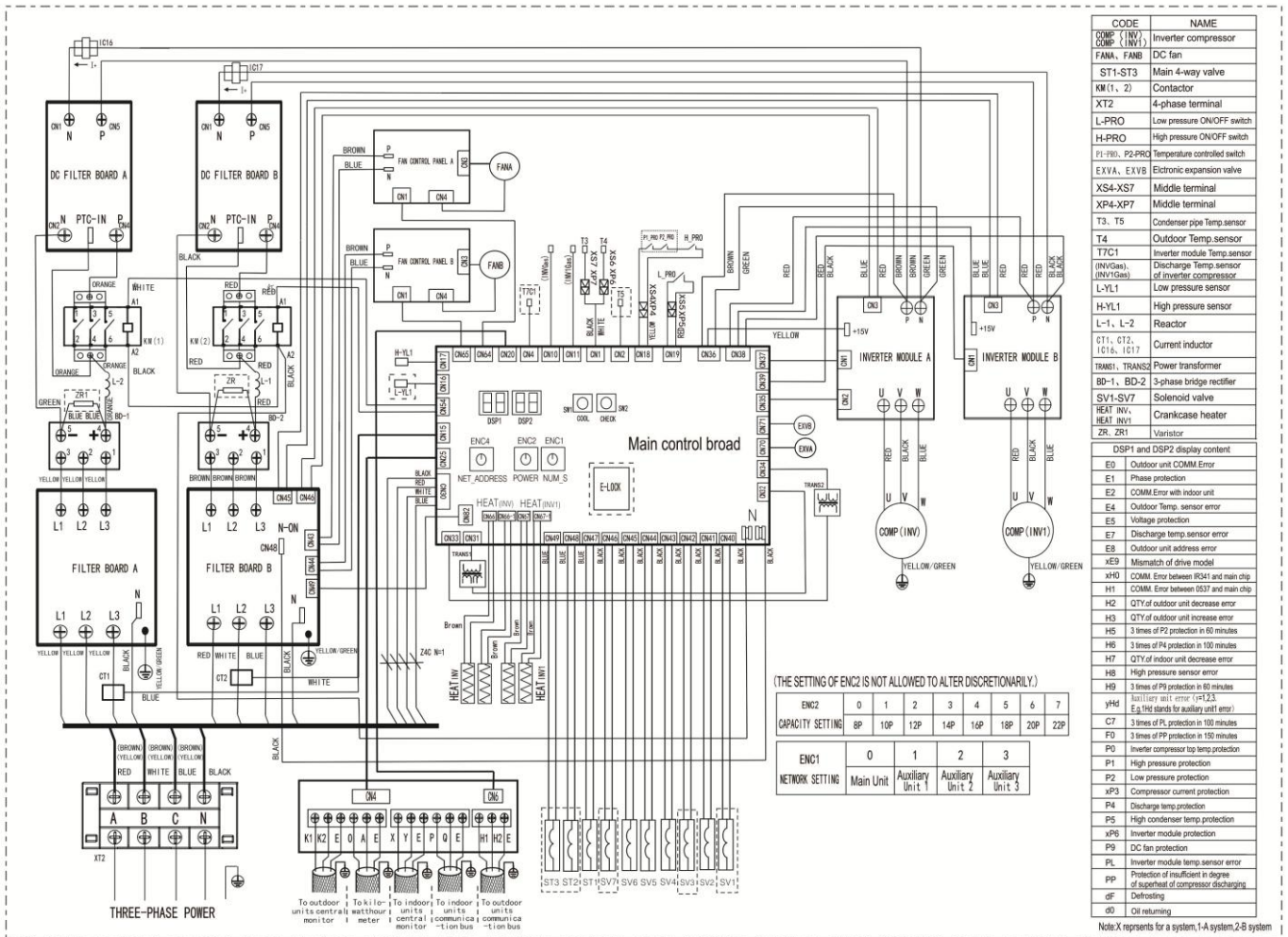
5. Wiring diagram and field wiring

5.1 Wiring diagram

8, 10, 12HP



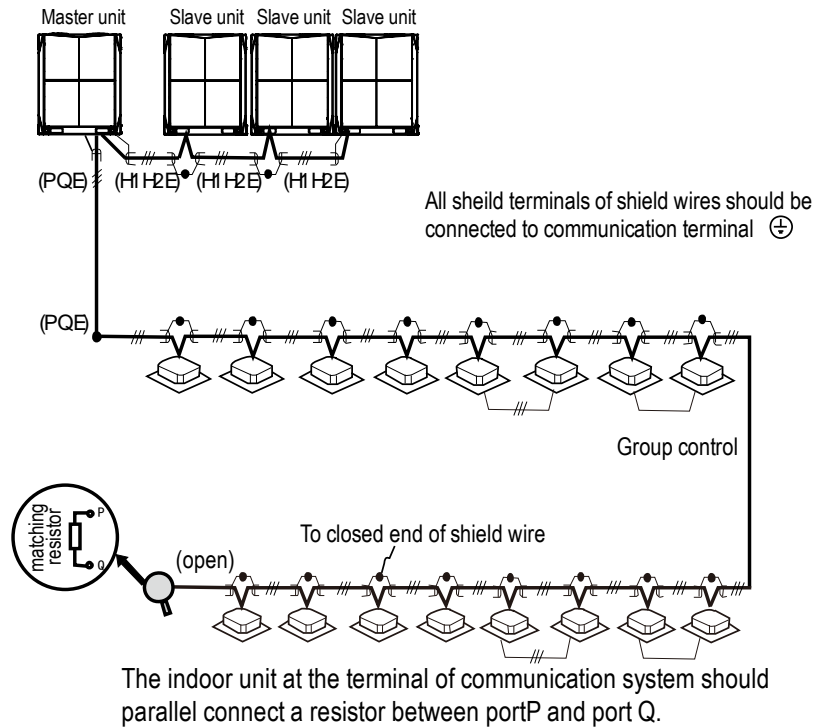
14, 16, 18, 20, 22HP



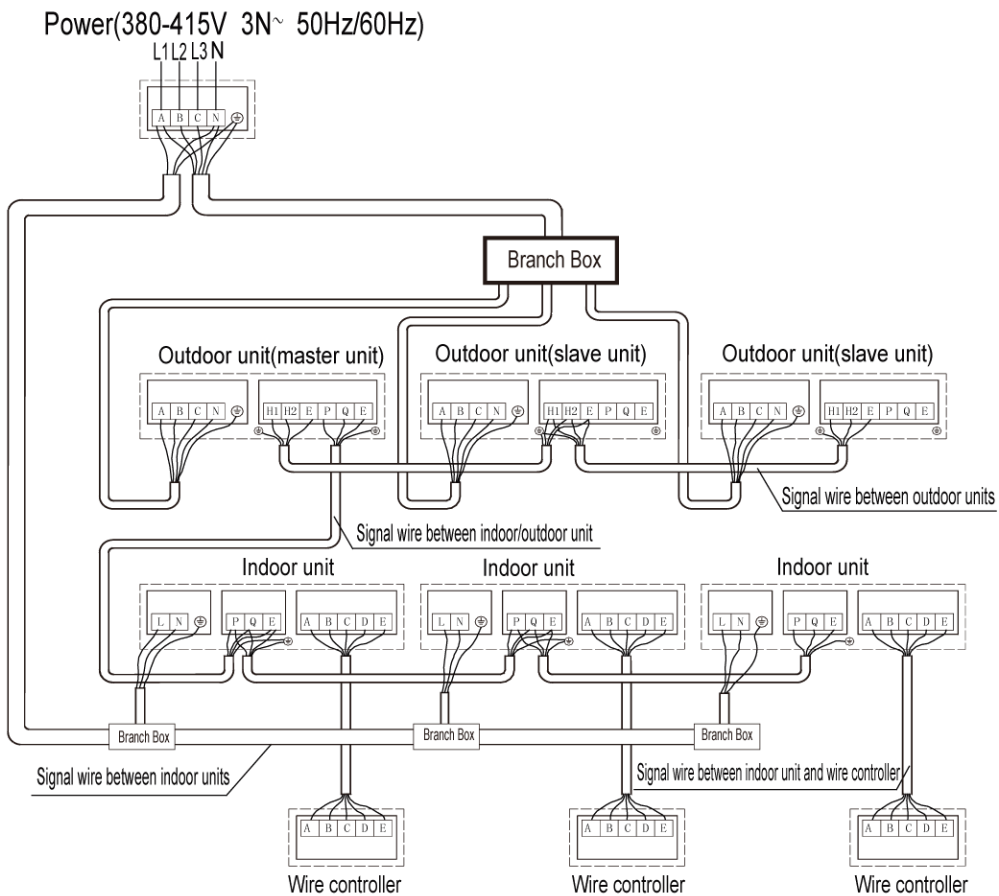
5.2 Field wiring

5.2.1 Signal wire between outdoor unit and indoor unit

Signal wire of indoor/outdoor unit adopts 3-core shielded wire ($\geq 0.0012\text{in.}^2(0.75\text{mm}^2)$) which has polarity, please connect it correctly.



5.2.2 Example wiring connection



6. Electric characteristics

Model	Units				Power supply			Compressor		OFM	
	Hz	Voltage (V)	Min. (V)	Max. (V)	MCA (A)	TOCA (A)	MFA (A)	MSC (A)	RLA (A)	kW	FLA (A)
MV5-X252W/V2GN1	50/60	380~415	342	440	17.8	22.8	25	-	14.58	0.465	4.6
MV5-X280W/V2GN1	50/60	380~415	342	440	20.3	22.8	25	-	14.58	0.465	4.6
MV5-X335W/V2GN1	50/60	380~415	342	440	21.9	23.7	25	-	15.62	0.465	4.5
MV5-X400W/V2GN1	50/60	380~415	342	440	29	29.8	35	-	10.23+10.23	0.29+0.23	2.8+2.4
MV5-X450W/V2GN1	50/60	380~415	342	440	30.1	29.8	35	-	10.23+10.23	0.29+0.23	2.8+2.4
MV5-X500W/V2GN1	50/60	380~415	342	440	36.3	37.9	40	-	15.62+9.36	0.42+0.35	3.9+3.5
MV5-X560W/V2GN1	50/60	380~415	342	440	42.8	48.3	50	-	15.62+15.62	0.44+0.35	4.0+3.4
MV5-X615W/V2GN1	50/60	380~415	342	440	46.4	48.3	50	-	15.62+15.62	0.44+0.35	4.0+3.4

Notes:

1. The current value of combination unit is the total value of each basic model(refer to Table.6-2)

For example: 46HP=22HP+12HP+12HP

Power current: MCA=39.63+18.38+18.38=76.39

TOCA=44.9+23+23=90.9

MFA=50+25+25=100

Compressor: RLA=15.62+15.62+15.62+15.62=62.48

OFM: FLA=4.0+3.4+4.5+4.5=16.4

2. RLA is based on the following conditions, Indoor temp. 27°C DB/19°C WB, Outdoor temp. 35°C DB

3. TOCA means the total value of each OC set.

4. MSC means the Max. current during the starting of compressor.

5. Voltage range units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

6. Maximum allowable voltage variation between phase is 2%

7. Selection wire size based on the larger value of MCA or TOCA

8. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth circuit breaker).

MCA: Min. Circuit Amps. (A)

TOCA: Total Over-current Amps. (A)

MFA: Max. Fuse Amps. (A)

MSC: Max. Starting Amps. (A)

RLA: Rated Load Amps. (A)

OFM: Outdoor Fan Motor.

FLA: Full Load Amps. (A)

KW: Rated Motor Output (KW)

7. Capacity tables

7.1 Cooling capacity tables

MV5-X252W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	-5(23)	22.14	2.37	26.37	2.89	30.60	3.10	31.77	3.22	33.30	3.31	34.11	3.60	34.97	3.63
	-2(28.4)	22.14	2.37	26.37	2.94	30.60	3.10	31.77	3.24	33.30	3.31	34.11	3.65	34.97	3.66
	0(32)	22.14	2.41	26.37	3.00	30.60	3.21	31.77	3.42	33.30	3.51	34.11	3.69	34.97	3.71
	2(35.6)	22.14	2.45	26.37	3.00	30.60	3.32	31.77	3.61	33.30	3.55	34.11	3.72	34.97	3.77
	4(39.2)	22.14	2.51	26.37	3.06	30.60	3.43	31.77	3.63	33.30	3.59	34.11	3.72	34.97	3.84
	6(42.8)	22.14	2.55	26.37	3.12	30.60	3.56	31.77	3.66	32.93	3.70	33.69	3.72	34.58	3.87
	8(46.4)	22.14	2.61	26.37	3.19	30.60	3.74	31.77	3.84	32.52	3.83	33.33	3.90	34.14	3.90
	10(50)	22.14	2.67	26.37	3.26	30.60	3.88	31.77	3.96	32.13	4.04	32.94	4.06	33.75	4.02
	12(53.6)	22.14	2.72	26.37	3.32	30.60	3.96	31.32	4.03	31.77	4.06	32.49	4.07	33.30	4.04
	14(57.2)	22.14	2.77	26.37	3.39	30.51	4.05	30.96	4.06	31.32	4.08	32.13	4.09	32.94	4.13
	16(60.8)	22.14	2.82	26.37	3.46	30.15	4.06	30.51	4.08	30.87	4.10	31.68	4.12	32.49	4.20
	18(64.4)	22.14	2.87	26.37	3.53	29.70	4.14	30.06	4.16	30.51	4.18	31.32	4.22	32.13	4.26
	20(68)	22.14	2.93	26.37	3.75	29.25	4.34	29.70	4.36	30.06	4.39	30.87	4.42	31.68	4.47
	21(69.8)	22.14	3.01	26.37	3.89	29.07	4.44	29.52	4.46	29.88	4.49	30.69	4.53	31.50	4.57
	23(73.4)	22.14	3.23	26.37	4.17	28.71	4.64	29.07	4.67	29.43	4.69	30.24	4.74	31.05	4.78
	25(77)	22.14	3.45	26.37	4.46	28.26	4.85	28.62	4.87	29.07	4.90	29.88	4.95	30.69	4.99
	27(80.6)	22.14	3.68	26.37	4.78	27.90	5.05	28.26	5.08	28.62	5.10	29.43	5.16	30.24	5.21
	29(84.2)	22.14	3.93	26.37	5.10	27.45	5.25	27.81	5.28	28.26	5.31	29.07	5.37	29.88	5.42
	31(87.8)	22.14	4.20	26.28	5.40	27.00	5.46	27.45	5.49	27.81	5.52	28.62	5.58	29.43	5.64
	33(91.4)	22.14	4.47	25.83	5.60	26.64	5.67	27.00	5.70	27.45	5.73	28.26	5.79	28.98	5.85
35(95)	22.14	4.77	25.38	5.81	26.19	5.88	26.64	5.91	27.00	5.94	27.81	6.01	28.62	6.07	
37(98.6)	22.14	5.07	25.02	6.02	25.83	6.09	26.19	6.12	26.64	6.16	27.36	6.23	28.17	6.30	
39(102.2)	22.14	5.40	24.57	6.08	25.38	6.29	25.83	6.33	26.19	6.37	27.00	6.44	27.81	6.52	
41(105.8)	22.14	5.68	24.32	6.14	25.11	6.35	25.56	6.39	25.92	6.43	26.73	6.45	26.74	6.58	
43(109.4)	22.14	5.83	24.14	6.17	24.98	6.37	25.43	6.42	25.66	6.44	26.25	6.46	26.42	6.59	
45(113)	22.14	6.12	23.99	6.23	24.71	6.43	25.16	6.46	25.28	6.47	25.53	6.49	25.91	6.71	
48(118.4)	22.14	6.55	23.91	6.32	24.31	6.55	24.76	6.49	24.96	6.53	24.85	6.52	25.31	7.04	
120%	-5(23)	20.43	2.29	24.30	2.77	28.26	3.27	30.24	3.57	31.68	3.72	32.40	3.84	33.12	3.94
	-2(28.4)	20.43	2.31	24.30	2.80	28.26	3.31	30.24	3.59	31.68	3.77	32.40	3.87	33.12	3.96
	0(32)	20.43	2.33	24.30	2.82	28.26	3.34	30.24	3.60	31.68	3.80	32.40	3.90	33.12	3.97
	2(35.6)	20.43	2.34	24.30	2.85	28.26	3.37	30.24	3.63	31.68	3.81	32.40	3.93	33.12	3.97
	4(39.2)	20.43	2.36	24.30	2.88	28.26	3.42	30.24	3.67	31.68	3.87	32.40	3.93	33.12	3.98
	6(42.8)	20.43	2.38	24.30	2.90	28.26	3.46	30.24	3.71	31.68	3.91	32.40	3.97	33.12	4.00
	8(46.4)	20.43	2.41	24.30	2.93	28.26	3.50	30.24	3.76	31.68	3.95	32.40	3.98	33.12	4.02
	10(50)	20.43	2.43	24.30	2.97	28.26	3.53	30.24	3.82	31.68	3.95	32.40	3.99	33.12	4.03
	12(53.6)	20.43	2.48	24.30	3.03	28.26	3.60	30.24	3.89	31.23	3.97	31.95	3.97	32.67	4.06
	14(57.2)	20.43	2.53	24.30	3.09	28.26	3.68	30.24	3.97	30.78	3.99	31.59	4.03	32.31	4.11
	16(60.8)	20.43	2.57	24.30	3.15	28.26	3.75	30.06	4.10	30.42	4.05	31.14	4.10	31.86	4.17
	18(64.4)	20.43	2.62	24.30	3.22	28.26	3.87	29.61	4.14	29.97	4.15	30.69	4.19	31.50	4.23
	20(68)	20.43	2.68	24.30	3.34	28.26	4.17	29.25	4.34	29.61	4.35	30.33	4.39	31.05	4.43
	21(69.8)	20.43	2.70	24.30	3.46	28.26	4.32	28.98	4.44	29.34	4.46	30.15	4.50	30.87	4.54
	23(73.4)	20.43	2.89	24.30	3.71	28.26	4.62	28.62	4.64	28.98	4.66	29.70	4.71	30.42	4.74
	25(77)	20.43	3.08	24.30	3.96	27.81	4.82	28.17	4.84	28.53	4.86	29.34	4.91	30.06	4.96
	27(80.6)	20.43	3.29	24.30	4.24	27.45	5.02	27.81	5.05	28.17	5.07	28.89	5.12	29.61	5.17
	29(84.2)	20.43	3.51	24.30	4.53	27.00	5.22	27.36	5.25	27.72	5.27	28.44	5.33	29.25	5.38
	31(87.8)	20.43	3.75	24.30	4.83	26.55	5.43	27.00	5.45	27.36	5.49	28.08	5.54	28.80	5.60
	33(91.4)	20.43	3.99	24.30	5.15	26.19	5.63	26.55	5.67	26.91	5.69	27.63	5.75	28.35	5.81
35(95)	20.43	4.25	24.30	5.49	25.74	5.84	26.10	5.87	26.55	5.90	27.27	5.96	27.99	6.02	
37(98.6)	20.43	4.52	24.30	5.85	25.38	6.05	25.74	6.08	26.10	6.11	26.82	6.17	27.54	6.24	
39(102.2)	20.43	4.81	24.21	6.18	24.93	6.25	25.29	6.29	25.65	6.32	26.46	6.39	27.18	6.45	
41(105.8)	20.43	4.94	24.01	6.22	24.73	6.29	25.09	6.33	25.45	6.36	26.26	6.41	26.40	6.50	
43(109.4)	20.43	5.01	23.89	6.27	24.54	6.33	24.90	6.36	25.26	6.39	25.81	6.43	25.99	6.63	
45(113)	20.43	5.07	23.76	6.33	24.30	6.39	24.64	6.42	25.04	6.44	25.29	6.45	25.73	6.78	
48(118.4)	20.43	5.16	23.55	6.42	23.99	6.47	24.25	6.50	24.76	6.56	24.89	6.57	25.39	6.86	

Cooling capacity table

MV5-X252W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	18.72	2.00	22.32	2.49	25.92	2.97	27.72	3.18	29.52	3.42	31.77	3.56	32.49	3.67
	-2(28.4)	18.72	2.03	22.32	2.52	25.92	2.99	27.72	3.21	29.52	3.45	31.77	3.59	32.49	3.69
	0(32)	18.72	2.05	22.32	2.53	25.92	3.01	27.72	3.24	29.52	3.49	31.77	3.63	32.49	3.73
	2(35.6)	18.72	2.10	22.32	2.56	25.92	3.06	27.72	3.27	29.52	3.53	31.77	3.68	32.49	3.78
	4(39.2)	18.72	2.14	22.32	2.58	25.92	3.09	27.72	3.31	29.52	3.58	31.77	3.73	32.49	3.81
	6(42.8)	18.72	2.16	22.32	2.61	25.92	3.12	27.72	3.36	29.52	3.62	31.77	3.77	32.49	3.87
	8(46.4)	18.72	2.18	22.32	2.66	25.92	3.15	27.72	3.40	29.52	3.66	31.77	3.80	32.49	3.91
	10(50)	18.72	2.21	22.32	2.69	25.92	3.20	27.72	3.46	29.52	3.72	31.77	3.82	32.49	3.95
	12(53.6)	18.72	2.26	22.32	2.75	25.92	3.26	27.72	3.53	29.52	3.79	31.41	3.88	32.04	4.00
	14(57.2)	18.72	2.29	22.32	2.79	25.92	3.32	27.72	3.59	29.52	3.86	30.96	3.91	31.68	4.03
	16(60.8)	18.72	2.33	22.32	2.85	25.92	3.39	27.72	3.66	29.52	3.94	30.60	3.96	31.23	4.07
	18(64.4)	18.72	2.38	22.32	2.90	25.92	3.46	27.72	3.76	29.52	4.13	30.15	4.16	30.87	4.20
	20(68)	18.72	2.43	22.32	2.97	25.92	3.66	27.72	4.04	29.07	4.33	29.79	4.36	30.42	4.40
	21(69.8)	18.72	2.45	22.32	3.05	25.92	3.79	27.72	4.19	28.89	4.43	29.52	4.46	30.24	4.50
	23(73.4)	18.72	2.57	22.32	3.27	25.92	4.07	27.72	4.50	28.44	4.63	29.16	4.67	29.79	4.71
	25(77)	18.72	2.74	22.32	3.50	25.92	4.35	27.72	4.82	28.08	4.83	28.71	4.88	29.43	4.92
	27(80.6)	18.72	2.92	22.32	3.74	25.92	4.65	27.27	5.02	27.63	5.03	28.35	5.08	28.98	5.13
	29(84.2)	18.72	3.11	22.32	3.99	25.92	4.97	26.91	5.22	27.27	5.24	27.90	5.29	28.62	5.34
	31(87.8)	18.72	3.32	22.32	4.25	25.92	5.31	26.46	5.42	26.82	5.45	27.54	5.49	28.17	5.55
	33(91.4)	18.72	3.53	22.32	4.53	25.74	5.60	26.10	5.63	26.46	5.65	27.09	5.70	27.81	5.76
35(95)	18.72	3.75	22.32	4.83	25.29	5.80	25.65	5.83	26.01	5.86	26.64	5.92	27.36	5.97	
37(98.6)	18.72	4.00	22.32	5.14	24.93	6.01	25.29	6.03	25.56	6.06	26.28	6.13	26.91	6.18	
39(102.2)	18.72	4.24	22.32	5.48	24.48	6.21	24.84	6.24	25.20	6.27	25.83	6.34	26.55	6.40	
41(105.8)	18.72	4.29	22.32	5.52	24.29	6.26	24.65	6.29	25.01	6.32	25.50	6.38	25.75	6.44	
43(109.4)	18.72	4.33	22.32	5.59	24.10	6.30	24.46	6.33	24.82	6.36	25.28	6.40	25.36	6.57	
45(113)	18.72	4.47	22.32	5.62	23.85	6.36	24.20	6.41	24.60	6.42	25.02	6.58	25.12	6.73	
48(118.4)	18.72	4.58	22.32	5.71	23.51	6.44	23.81	6.51	24.32	6.55	24.61	6.83	24.80	7.08	
100%	-5(23)	17.01	1.82	20.25	2.19	23.58	2.61	25.20	2.79	26.82	3.03	30.15	3.45	31.86	3.60
	-2(28.4)	17.01	1.84	20.25	2.22	23.58	2.63	25.20	2.84	26.82	3.07	30.15	3.49	31.86	3.62
	0(32)	17.01	1.86	20.25	2.24	23.58	2.66	25.20	2.88	26.82	3.10	30.15	3.55	31.86	3.67
	2(35.6)	17.01	1.90	20.25	2.27	23.58	2.69	25.20	2.92	26.82	3.13	30.15	3.60	31.86	3.72
	4(39.2)	17.01	1.91	20.25	2.29	23.58	2.73	25.20	2.96	26.82	3.17	30.15	3.64	31.86	3.76
	6(42.8)	17.01	1.94	20.25	2.34	23.58	2.77	25.20	3.01	26.82	3.22	30.15	3.69	31.86	3.82
	8(46.4)	17.01	1.97	20.25	2.37	23.58	2.82	25.20	3.05	26.82	3.27	30.15	3.75	31.86	3.89
	10(50)	17.01	2.00	20.25	2.42	23.58	2.86	25.20	3.10	26.82	3.33	30.15	3.81	31.86	3.94
	12(53.6)	17.01	2.03	20.25	2.47	23.58	2.92	25.20	3.15	26.82	3.39	30.15	3.88	31.41	3.97
	14(57.2)	17.01	2.07	20.25	2.51	23.58	2.97	25.20	3.22	26.82	3.46	30.15	3.96	31.05	4.02
	16(60.8)	17.01	2.11	20.25	2.56	23.58	3.04	25.20	3.28	26.82	3.53	29.97	4.00	30.60	4.07
	18(64.4)	17.01	2.15	20.25	2.61	23.58	3.09	25.20	3.34	26.82	3.60	29.61	4.14	30.24	4.17
	20(68)	17.01	2.19	20.25	2.66	23.58	3.18	25.20	3.51	26.82	3.85	29.16	4.33	29.79	4.37
	21(69.8)	17.01	2.21	20.25	2.68	23.58	3.30	25.20	3.64	26.82	3.99	28.98	4.43	29.61	4.47
	23(73.4)	17.01	2.26	20.25	2.86	23.58	3.53	25.20	3.89	26.82	4.28	28.62	4.63	29.16	4.67
	25(77)	17.01	2.41	20.25	3.06	23.58	3.78	25.20	4.17	26.82	4.58	28.17	4.84	28.80	4.88
	27(80.6)	17.01	2.57	20.25	3.26	23.58	4.04	25.20	4.46	26.82	4.90	27.72	5.04	28.35	5.09
	29(84.2)	17.01	2.74	20.25	3.48	23.58	4.32	25.20	4.77	26.73	5.20	27.36	5.25	27.99	5.29
	31(87.8)	17.01	2.92	20.25	3.71	23.58	4.60	25.20	5.09	26.37	5.41	26.91	5.45	27.54	5.50
	33(91.4)	17.01	3.10	20.25	3.96	23.58	4.91	25.20	5.43	25.92	5.61	26.55	5.66	27.18	5.71
35(95)	17.01	3.29	20.25	4.21	23.58	5.24	25.20	5.79	25.47	5.81	26.10	5.87	26.73	5.92	
37(98.6)	17.01	3.50	20.25	4.48	23.58	5.58	24.75	5.99	25.11	6.02	25.74	6.08	26.28	6.13	
39(102.2)	17.01	3.72	20.25	4.76	23.58	5.94	24.39	6.20	24.66	6.23	25.29	6.28	25.92	6.34	
41(105.8)	17.01	3.90	20.25	4.93	23.58	6.16	24.01	6.24	24.47	6.32	25.00	6.43	25.54	6.47	
43(109.4)	17.01	4.07	20.25	5.11	23.58	6.27	23.63	6.31	24.29	6.38	24.85	6.47	25.09	6.55	
45(113)	17.01	4.30	20.25	5.34	23.58	6.38	23.61	6.40	24.17	6.50	24.59	6.57	24.79	6.63	
48(118.4)	17.01	4.65	20.25	5.69	23.58	6.49	23.59	6.57	24.13	6.74	24.39	6.76	24.64	6.81	

Cooling capacity table

MV5-X252W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	15.30	1.61	18.27	1.93	21.24	2.28	22.68	2.48	24.12	2.64	27.09	3.04	30.06	3.48
	-2(28.4)	15.30	1.62	18.27	1.95	21.24	2.31	22.68	2.52	24.12	2.67	27.09	3.07	30.06	3.51
	0(32)	15.30	1.65	18.27	1.97	21.24	2.34	22.68	2.55	24.12	2.71	27.09	3.10	30.06	3.54
	2(35.6)	15.30	1.67	18.27	2.00	21.24	2.36	22.68	2.59	24.12	2.75	27.09	3.17	30.06	3.59
	4(39.2)	15.30	1.70	18.27	2.03	21.24	2.40	22.68	2.62	24.12	2.79	27.09	3.22	30.06	3.64
	6(42.8)	15.30	1.72	18.27	2.07	21.24	2.45	22.68	2.67	24.12	2.83	27.09	3.27	30.06	3.71
	8(46.4)	15.30	1.75	18.27	2.11	21.24	2.50	22.68	2.71	24.12	2.88	27.09	3.33	30.06	3.74
	10(50)	15.30	1.79	18.27	2.15	21.24	2.54	22.68	2.75	24.12	2.95	27.09	3.37	30.06	3.80
	12(53.6)	15.30	1.82	18.27	2.19	21.24	2.59	22.68	2.79	24.12	3.00	27.09	3.43	30.06	3.87
	14(57.2)	15.30	1.85	18.27	2.23	21.24	2.64	22.68	2.85	24.12	3.06	27.09	3.50	30.06	3.94
	16(60.8)	15.30	1.88	18.27	2.27	21.24	2.69	22.68	2.90	24.12	3.12	27.09	3.57	29.97	4.01
	18(64.4)	15.30	1.91	18.27	2.32	21.24	2.74	22.68	2.96	24.12	3.18	27.09	3.64	29.61	4.14
	20(68)	15.30	1.95	18.27	2.37	21.24	2.79	22.68	3.02	24.12	3.30	27.09	3.91	29.16	4.33
	21(69.8)	15.30	1.97	18.27	2.39	21.24	2.84	22.68	3.12	24.12	3.42	27.09	4.05	28.98	4.43
	23(73.4)	15.30	2.01	18.27	2.48	21.24	3.04	22.68	3.35	24.12	3.67	27.09	4.35	28.53	4.63
	25(77)	15.30	2.11	18.27	2.65	21.24	3.25	22.68	3.58	24.12	3.92	27.09	4.65	28.17	4.84
	27(80.6)	15.30	2.25	18.27	2.82	21.24	3.47	22.68	3.82	24.12	4.19	27.09	4.98	27.72	5.04
	29(84.2)	15.30	2.40	18.27	3.01	21.24	3.71	22.68	4.08	24.12	4.48	26.82	5.20	27.36	5.24
	31(87.8)	15.30	2.54	18.27	3.21	21.24	3.95	22.68	4.35	24.12	4.78	26.37	5.41	26.91	5.45
	33(91.4)	15.30	2.70	18.27	3.41	21.24	4.21	22.68	4.64	24.12	5.10	26.01	5.62	26.55	5.66
35(95)	15.30	2.87	18.27	3.63	21.24	4.49	22.68	4.95	24.12	5.43	25.56	5.82	26.10	5.87	
37(98.6)	15.30	3.04	18.27	3.85	21.24	4.78	22.68	5.27	24.12	5.79	25.11	6.02	25.74	6.07	
39(102.2)	15.30	3.23	18.27	4.10	21.24	5.08	22.68	5.61	24.12	6.16	24.75	6.23	25.29	6.28	
41(105.8)	15.30	3.34	18.27	4.29	21.24	5.27	22.68	5.76	24.12	6.20	24.58	6.39	25.12	6.43	
43(109.4)	15.30	3.50	18.27	4.48	21.24	5.45	22.68	5.91	24.12	6.33	24.45	6.48	24.90	6.53	
45(113)	15.30	3.73	18.27	4.70	21.24	5.67	22.68	6.11	24.12	6.51	24.32	6.54	24.52	6.62	
48(118.4)	15.30	4.02	18.27	4.99	21.24	5.97	22.68	6.40	24.12	6.66	24.22	6.68	24.34	6.73	
80%	-5(23)	13.59	1.42	16.20	1.68	18.81	1.98	20.16	2.11	21.51	2.27	24.12	2.63	26.73	3.00
	-2(28.4)	13.59	1.44	16.20	1.70	18.81	2.00	20.16	2.14	21.51	2.29	24.12	2.65	26.73	3.03
	0(32)	13.59	1.46	16.20	1.72	18.81	2.03	20.16	2.17	21.51	2.33	24.12	2.69	26.73	3.07
	2(35.6)	13.59	1.49	16.20	1.74	18.81	2.05	20.16	2.21	21.51	2.38	24.12	2.74	26.73	3.13
	4(39.2)	13.59	1.52	16.20	1.77	18.81	2.09	20.16	2.26	21.51	2.42	24.12	2.79	26.73	3.17
	6(42.8)	13.59	1.54	16.20	1.81	18.81	2.13	20.16	2.31	21.51	2.46	24.12	2.83	26.73	3.22
	8(46.4)	13.59	1.57	16.20	1.85	18.81	2.18	20.16	2.35	21.51	2.52	24.12	2.88	26.73	3.28
	10(50)	13.59	1.58	16.20	1.90	18.81	2.23	20.16	2.40	21.51	2.58	24.12	2.94	26.73	3.32
	12(53.6)	13.59	1.61	16.20	1.93	18.81	2.27	20.16	2.45	21.51	2.63	24.12	3.00	26.73	3.38
	14(57.2)	13.59	1.64	16.20	1.97	18.81	2.31	20.16	2.49	21.51	2.68	24.12	3.05	26.73	3.44
	16(60.8)	13.59	1.66	16.20	2.00	18.81	2.36	20.16	2.54	21.51	2.72	24.12	3.11	26.73	3.50
	18(64.4)	13.59	1.69	16.20	2.04	18.81	2.40	20.16	2.59	21.51	2.78	24.12	3.18	26.73	3.57
	20(68)	13.59	1.72	16.20	2.08	18.81	2.45	20.16	2.64	21.51	2.83	24.12	3.29	26.73	3.82
	21(69.8)	13.59	1.74	16.20	2.09	18.81	2.47	20.16	2.67	21.51	2.90	24.12	3.41	26.73	3.96
	23(73.4)	13.59	1.77	16.20	2.14	18.81	2.59	20.16	2.84	21.51	3.10	24.12	3.65	26.73	4.25
	25(77)	13.59	1.83	16.20	2.27	18.81	2.77	20.16	3.04	21.51	3.31	24.12	3.91	26.73	4.55
	27(80.6)	13.59	1.94	16.20	2.42	18.81	2.95	20.16	3.24	21.51	3.53	24.12	4.17	26.73	4.87
	29(84.2)	13.59	2.07	16.20	2.58	18.81	3.14	20.16	3.45	21.51	3.78	24.12	4.46	26.73	5.21
	31(87.8)	13.59	2.19	16.20	2.74	18.81	3.35	20.16	3.68	21.51	4.03	24.12	4.76	26.28	5.41
	33(91.4)	13.59	2.33	16.20	2.91	18.81	3.57	20.16	3.92	21.51	4.28	24.12	5.07	25.92	5.61
35(95)	13.59	2.47	16.20	3.10	18.81	3.79	20.16	4.17	21.51	4.57	24.12	5.41	25.47	5.81	
37(98.6)	13.59	2.62	16.20	3.28	18.81	4.03	20.16	4.44	21.51	4.86	24.12	5.77	25.11	6.02	
39(102.2)	13.59	2.78	16.20	3.50	18.81	4.29	20.16	4.72	21.51	5.17	24.12	6.14	24.66	6.23	
41(105.8)	13.59	2.84	16.20	3.53	18.81	4.35	20.16	4.85	21.51	5.27	24.12	6.30	24.51	6.34	
43(109.4)	13.59	2.92	16.20	3.57	18.81	4.42	20.16	4.93	21.51	5.34	24.12	6.37	24.36	6.40	
45(113)	13.59	3.01	16.20	3.61	18.81	4.50	20.16	5.03	21.51	5.43	24.12	6.44	24.05	6.51	
48(118.4)	13.59	3.07	16.20	3.67	18.81	4.63	20.16	5.22	21.51	5.59	24.12	6.59	23.85	6.73	

Cooling capacity table

MV5-X252W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	11.88	1.26	14.22	1.48	16.47	1.68	17.64	1.80	18.81	1.92	21.06	2.20	23.40	2.53
	-2(28.4)	11.88	1.28	14.22	1.49	16.47	1.69	17.64	1.84	18.81	1.96	21.06	2.23	23.40	2.56
	0(32)	11.88	1.28	14.22	1.51	16.47	1.73	17.64	1.87	18.81	1.99	21.06	2.28	23.40	2.60
	2(35.6)	11.88	1.29	14.22	1.52	16.47	1.75	17.64	1.91	18.81	2.03	21.06	2.33	23.40	2.64
	4(39.2)	11.88	1.31	14.22	1.56	16.47	1.79	17.64	1.94	18.81	2.07	21.06	2.37	23.40	2.70
	6(42.8)	11.88	1.33	14.22	1.58	16.47	1.84	17.64	2.00	18.81	2.12	21.06	2.41	23.40	2.75
	8(46.4)	11.88	1.35	14.22	1.63	16.47	1.88	17.64	2.03	18.81	2.17	21.06	2.48	23.40	2.81
	10(50)	11.88	1.38	14.22	1.65	16.47	1.93	17.64	2.08	18.81	2.22	21.06	2.53	23.40	2.84
	12(53.6)	11.88	1.41	14.22	1.68	16.47	1.97	17.64	2.11	18.81	2.26	21.06	2.57	23.40	2.90
	14(57.2)	11.88	1.44	14.22	1.71	16.47	2.00	17.64	2.15	18.81	2.30	21.06	2.62	23.40	2.95
	16(60.8)	11.88	1.46	14.22	1.74	16.47	2.04	17.64	2.19	18.81	2.35	21.06	2.67	23.40	3.00
	18(64.4)	11.88	1.48	14.22	1.77	16.47	2.08	17.64	2.23	18.81	2.39	21.06	2.72	23.40	3.07
	20(68)	11.88	1.51	14.22	1.80	16.47	2.11	17.64	2.27	18.81	2.43	21.06	2.78	23.40	3.15
	21(69.8)	11.88	1.52	14.22	1.82	16.47	2.13	17.64	2.29	18.81	2.46	21.06	2.82	23.40	3.26
	23(73.4)	11.88	1.54	14.22	1.85	16.47	2.18	17.64	2.37	18.81	2.58	21.06	3.02	23.40	3.50
	25(77)	11.88	1.58	14.22	1.93	16.47	2.32	17.64	2.54	18.81	2.75	21.06	3.23	23.40	3.74
	27(80.6)	11.88	1.67	14.22	2.05	16.47	2.47	17.64	2.70	18.81	2.94	21.06	3.45	23.40	4.00
	29(84.2)	11.88	1.77	14.22	2.18	16.47	2.63	17.64	2.88	18.81	3.13	21.06	3.68	23.40	4.27
	31(87.8)	11.88	1.87	14.22	2.31	16.47	2.80	17.64	3.06	18.81	3.33	21.06	3.92	23.40	4.55
	33(91.4)	11.88	1.99	14.22	2.46	16.47	2.98	17.64	3.25	18.81	3.55	21.06	4.18	23.40	4.85
35(95)	11.88	2.11	14.22	2.61	16.47	3.16	17.64	3.46	18.81	3.78	21.06	4.45	23.40	5.17	
37(98.6)	11.88	2.22	14.22	2.76	16.47	3.36	17.64	3.68	18.81	4.02	21.06	4.74	23.40	5.51	
39(102.2)	11.88	2.36	14.22	2.93	16.47	3.57	17.64	3.91	18.81	4.27	21.06	5.03	23.40	5.87	
41(105.8)	11.88	2.46	14.22	3.03	16.47	3.67	17.64	4.04	18.81	4.40	21.06	5.24	23.40	6.13	
43(109.4)	11.88	2.66	14.22	3.24	16.47	3.82	17.64	4.26	18.81	4.53	21.06	5.43	23.40	6.32	
45(113)	11.88	2.72	14.22	3.31	16.47	3.90	17.64	4.33	18.81	4.75	21.06	5.73	23.40	6.56	
48(118.4)	11.88	2.90	14.22	3.52	16.47	4.14	17.64	4.53	18.81	4.89	21.06	5.90	23.40	6.70	
60%	-5(23)	10.17	1.08	12.15	1.25	14.13	1.46	15.12	1.55	16.11	1.68	18.09	1.88	20.07	2.16
	-2(28.4)	10.17	1.08	12.15	1.27	14.13	1.48	15.12	1.58	16.11	1.69	18.09	1.91	20.07	2.17
	0(32)	10.17	1.10	12.15	1.29	14.13	1.50	15.12	1.60	16.11	1.72	18.09	1.94	20.07	2.20
	2(35.6)	10.17	1.12	12.15	1.32	14.13	1.53	15.12	1.63	16.11	1.75	18.09	1.98	20.07	2.23
	4(39.2)	10.17	1.15	12.15	1.34	14.13	1.56	15.12	1.65	16.11	1.77	18.09	2.01	20.07	2.26
	6(42.8)	10.17	1.16	12.15	1.37	14.13	1.59	15.12	1.68	16.11	1.81	18.09	2.05	20.07	2.32
	8(46.4)	10.17	1.19	12.15	1.39	14.13	1.62	15.12	1.71	16.11	1.84	18.09	2.09	20.07	2.35
	10(50)	10.17	1.21	12.15	1.42	14.13	1.65	15.12	1.76	16.11	1.88	18.09	2.13	20.07	2.39
	12(53.6)	10.17	1.23	12.15	1.44	14.13	1.68	15.12	1.79	16.11	1.91	18.09	2.17	20.07	2.43
	14(57.2)	10.17	1.25	12.15	1.47	14.13	1.70	15.12	1.83	16.11	1.95	18.09	2.21	20.07	2.47
	16(60.8)	10.17	1.26	12.15	1.49	14.13	1.73	15.12	1.86	16.11	1.98	18.09	2.25	20.07	2.52
	18(64.4)	10.17	1.29	12.15	1.51	14.13	1.76	15.12	1.89	16.11	2.02	18.09	2.29	20.07	2.57
	20(68)	10.17	1.30	12.15	1.54	14.13	1.79	15.12	1.93	16.11	2.06	18.09	2.33	20.07	2.62
	21(69.8)	10.17	1.32	12.15	1.55	14.13	1.81	15.12	1.94	16.11	2.08	18.09	2.36	20.07	2.65
	23(73.4)	10.17	1.33	12.15	1.58	14.13	1.84	15.12	1.98	16.11	2.11	18.09	2.45	20.07	2.82
	25(77)	10.17	1.36	12.15	1.61	14.13	1.91	15.12	2.08	16.11	2.25	18.09	2.61	20.07	3.00
	27(80.6)	10.17	1.41	12.15	1.71	14.13	2.04	15.12	2.22	16.11	2.40	18.09	2.79	20.07	3.21
	29(84.2)	10.17	1.49	12.15	1.81	14.13	2.17	15.12	2.36	16.11	2.55	18.09	2.97	20.07	3.43
	31(87.8)	10.17	1.58	12.15	1.92	14.13	2.30	15.12	2.50	16.11	2.72	18.09	3.16	20.07	3.64
	33(91.4)	10.17	1.67	12.15	2.04	14.13	2.44	15.12	2.66	16.11	2.89	18.09	3.36	20.07	3.89
35(95)	10.17	1.77	12.15	2.16	14.13	2.59	15.12	2.82	16.11	3.07	18.09	3.58	20.07	4.14	
37(98.6)	10.17	1.87	12.15	2.29	14.13	2.75	15.12	3.00	16.11	3.25	18.09	3.81	20.07	4.40	
39(102.2)	10.17	1.97	12.15	2.42	14.13	2.91	15.12	3.18	16.11	3.46	18.09	4.04	20.07	4.68	
41(105.8)	10.17	2.04	12.15	2.52	14.13	3.02	15.12	3.30	16.11	3.58	18.09	4.23	20.07	4.89	
43(109.4)	10.17	2.10	12.15	2.63	14.13	3.12	15.12	3.40	16.11	3.71	18.09	4.41	20.07	5.11	
45(113)	10.17	2.20	12.15	2.76	14.13	3.25	15.12	3.53	16.11	3.89	18.09	4.61	20.07	5.39	
48(118.4)	10.17	2.37	12.15	2.95	14.13	3.42	15.12	3.74	16.11	4.19	18.09	4.85	20.07	5.81	

Cooling capacity table

MV5-X252W/V2GN1

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	8.51	0.94	10.17	1.08	11.79	1.24	12.60	1.30	13.41	1.38	15.03	1.56	16.74	1.69
	-2(28.4)	8.51	0.94	10.17	1.11	11.79	1.26	12.60	1.32	13.41	1.40	15.03	1.58	16.74	1.71
	0(32)	8.51	0.96	10.17	1.12	11.79	1.28	12.60	1.34	13.41	1.42	15.03	1.61	16.74	1.74
	2(35.6)	8.51	0.97	10.17	1.14	11.79	1.30	12.60	1.36	13.41	1.44	15.03	1.62	16.74	1.77
	4(39.2)	8.51	0.98	10.17	1.16	11.79	1.32	12.60	1.38	13.41	1.47	15.03	1.66	16.74	1.82
	6(42.8)	8.51	1.00	10.17	1.18	11.79	1.34	12.60	1.41	13.41	1.50	15.03	1.68	16.74	1.87
	8(46.4)	8.51	1.02	10.17	1.20	11.79	1.36	12.60	1.44	13.41	1.52	15.03	1.71	16.74	1.93
	10(50)	8.51	1.05	10.17	1.21	11.79	1.38	12.60	1.46	13.41	1.56	15.03	1.76	16.74	1.96
	12(53.6)	8.51	1.05	10.17	1.22	11.79	1.40	12.60	1.49	13.41	1.59	15.03	1.79	16.74	1.99
	14(57.2)	8.51	1.07	10.17	1.24	11.79	1.42	12.60	1.52	13.41	1.62	15.03	1.82	16.74	2.03
	16(60.8)	8.51	1.08	10.17	1.26	11.79	1.44	12.60	1.54	13.41	1.64	15.03	1.85	16.74	2.06
	18(64.4)	8.51	1.10	10.17	1.28	11.79	1.47	12.60	1.57	13.41	1.67	15.03	1.88	16.74	2.10
	20(68)	8.51	1.12	10.17	1.30	11.79	1.49	12.60	1.59	13.41	1.70	15.03	1.91	16.74	2.14
	21(69.8)	8.51	1.12	10.17	1.31	11.79	1.51	12.60	1.61	13.41	1.72	15.03	1.93	16.74	2.16
	23(73.4)	8.51	1.14	10.17	1.33	11.79	1.53	12.60	1.64	13.41	1.75	15.03	1.97	16.74	2.21
	25(77)	8.51	1.15	10.17	1.35	11.79	1.56	12.60	1.67	13.41	1.80	15.03	2.07	16.74	2.36
	27(80.6)	8.51	1.18	10.17	1.40	11.79	1.65	12.60	1.78	13.41	1.91	15.03	2.20	16.74	2.51
	29(84.2)	8.51	1.24	10.17	1.48	11.79	1.75	12.60	1.89	13.41	2.04	15.03	2.34	16.74	2.68
	31(87.8)	8.51	1.31	10.17	1.57	11.79	1.85	12.60	2.01	13.41	2.16	15.03	2.49	16.74	2.85
	33(91.4)	8.51	1.39	10.17	1.66	11.79	1.97	12.60	2.12	13.41	2.29	15.03	2.65	16.74	3.03
35(95)	8.51	1.47	10.17	1.76	11.79	2.08	12.60	2.25	13.41	2.43	15.03	2.81	16.74	3.21	
37(98.6)	8.51	1.54	10.17	1.86	11.79	2.20	12.60	2.38	13.41	2.57	15.03	2.98	16.74	3.42	
39(102.2)	8.51	1.63	10.17	1.96	11.79	2.33	12.60	2.52	13.41	2.73	15.03	3.16	16.74	3.63	
41(105.8)	8.51	1.70	10.17	2.04	11.79	2.41	12.60	2.64	13.41	2.85	15.03	3.33	16.74	3.80	
43(109.4)	8.51	1.81	10.17	2.18	11.79	2.49	12.60	2.76	13.41	2.92	15.03	3.50	16.74	3.97	
45(113)	8.51	1.85	10.17	2.24	11.79	2.66	12.60	2.97	13.41	3.05	15.03	3.83	16.74	4.30	
48(118.4)	8.51	1.98	10.17	2.41	11.79	2.77	12.60	3.10	13.41	3.14	15.03	4.06	16.74	4.53	

Cooling capacity table

MV5-X280W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4)		DB:23.3(73.9)		DB:25.8(78.4)		DB:27(80.6)		DB:28.2(82.8)		DB:30.7(87.3)		DB:32(89.6)	
		WB:14(57.2)		WB:16(60.8)		WB:18(64.4)		WB:19(66.2)		WB:20(68)		WB:22(71.6)		WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
130%	-5(23)	24.60	2.87	29.30	3.50	34.00	3.75	35.30	3.91	37.00	4.02	37.90	4.37	38.85	4.40
	-2(28.4)	24.60	2.87	29.30	3.57	34.00	3.75	35.30	3.93	37.00	4.02	37.90	4.42	38.85	4.44
	0(32)	24.60	2.92	29.30	3.63	34.00	3.89	35.30	4.15	37.00	4.25	37.90	4.48	38.85	4.50
	2(35.6)	24.60	2.97	29.30	3.64	34.00	4.03	35.30	4.38	37.00	4.30	37.90	4.51	38.85	4.57
	4(39.2)	24.60	3.04	29.30	3.71	34.00	4.16	35.30	4.40	37.00	4.36	37.90	4.51	38.85	4.65
	6(42.8)	24.60	3.10	29.30	3.78	34.00	4.32	35.30	4.43	36.58	4.49	37.43	4.51	38.43	4.69
	8(46.4)	24.60	3.17	29.30	3.87	34.00	4.53	35.30	4.65	36.13	4.64	37.03	3.90	37.93	4.73
	10(50)	24.60	3.24	29.30	3.96	34.00	4.70	35.30	4.81	35.70	4.04	36.60	4.06	37.50	4.87
	12(53.6)	24.60	3.29	29.30	4.03	34.00	4.80	34.80	4.03	35.30	4.06	36.10	4.07	37.00	4.90
	14(57.2)	24.60	3.36	29.30	4.11	33.90	4.05	34.40	4.06	34.80	4.08	35.70	4.09	36.60	5.01
	16(60.8)	24.60	3.42	29.30	4.19	33.50	4.06	33.90	4.08	34.30	4.10	35.20	4.12	36.10	5.09
	18(64.4)	24.60	3.48	29.30	4.28	33.00	5.01	33.40	5.04	33.90	5.07	34.80	5.12	35.70	5.17
	20(68)	24.60	3.56	29.30	4.55	32.50	5.26	33.00	5.29	33.40	5.32	34.30	5.36	35.20	5.42
	21(69.8)	24.60	3.65	29.30	4.71	32.30	5.38	32.80	5.41	33.20	5.44	34.10	5.50	35.00	5.54
	23(73.4)	24.60	3.92	29.30	5.05	31.90	5.63	32.30	5.66	32.70	5.69	33.60	5.74	34.50	5.80
	25(77)	24.60	4.18	29.30	5.41	31.40	5.88	31.80	5.90	32.30	5.94	33.20	6.00	34.10	6.06
	27(80.6)	24.60	4.47	29.30	5.79	31.00	6.12	31.40	6.16	31.80	6.19	32.70	6.25	33.60	6.32
	29(84.2)	24.60	4.77	29.30	6.19	30.50	6.37	30.90	6.41	31.40	6.44	32.30	6.51	33.20	6.58
	31(87.8)	24.60	5.09	29.20	6.55	30.00	6.62	30.50	6.66	30.90	6.69	31.80	6.76	32.70	6.84
	33(91.4)	24.60	5.42	28.70	6.79	29.60	6.87	30.00	6.91	30.50	6.94	31.40	7.02	32.20	7.10
35(95)	24.60	5.78	28.20	7.04	29.10	7.12	29.60	7.16	30.00	7.20	30.90	7.29	31.80	7.36	
37(98.6)	24.60	6.15	27.80	7.30	28.70	7.38	29.10	7.42	29.60	7.47	30.40	7.55	31.30	7.64	
39(102.2)	24.60	6.55	27.30	7.37	28.20	7.63	28.70	7.67	29.10	7.72	30.00	7.81	30.90	7.90	
41(105.8)	24.60	6.89	27.02	7.44	27.90	7.70	28.40	7.74	28.80	7.79	29.70	7.82	29.71	7.97	
43(109.4)	24.60	7.07	26.82	7.48	27.75	7.72	28.26	7.78	28.51	7.80	29.16	7.84	29.36	7.99	
45(113)	24.60	7.42	26.65	7.55	27.46	7.79	27.96	7.83	28.09	7.84	28.37	7.86	28.78	8.14	
48(118.4)	24.60	7.94	26.56	7.66	27.01	7.94	27.52	7.87	27.74	7.91	27.62	7.91	28.12	8.54	
120%	-5(23)	22.70	2.77	27.00	3.36	31.40	3.97	33.60	4.33	35.20	4.51	36.00	4.66	36.80	4.78
	-2(28.4)	22.70	2.80	27.00	3.39	31.40	4.01	33.60	4.35	35.20	4.57	36.00	4.70	36.80	4.80
	0(32)	22.70	2.82	27.00	3.42	31.40	4.06	33.60	4.36	35.20	4.61	36.00	4.72	36.80	4.81
	2(35.6)	22.70	2.83	27.00	3.45	31.40	4.08	33.60	4.41	35.20	4.62	36.00	4.76	36.80	4.82
	4(39.2)	22.70	2.86	27.00	3.49	31.40	4.14	33.60	4.45	35.20	4.69	36.00	4.77	36.80	4.83
	6(42.8)	22.70	2.89	27.00	3.52	31.40	4.19	33.60	4.50	35.20	4.74	36.00	4.81	36.80	4.85
	8(46.4)	22.70	2.92	27.00	3.56	31.40	4.25	33.60	4.55	35.20	4.78	36.00	4.82	36.80	4.87
	10(50)	22.70	2.95	27.00	3.60	31.40	4.29	33.60	4.64	35.20	4.79	36.00	4.84	36.80	4.89
	12(53.6)	22.70	3.01	27.00	3.67	31.40	4.37	33.60	4.72	34.70	4.81	35.50	4.81	36.30	4.92
	14(57.2)	22.70	3.07	27.00	3.75	31.40	4.46	33.60	4.82	34.20	4.84	35.10	4.88	35.90	4.98
	16(60.8)	22.70	3.12	27.00	3.82	31.40	4.54	33.40	4.10	33.80	4.91	34.60	4.97	35.40	5.06
	18(64.4)	22.70	3.18	27.00	3.90	31.40	4.69	32.90	5.01	33.30	5.03	34.10	5.08	35.00	5.13
	20(68)	22.70	3.25	27.00	4.05	31.40	5.05	32.50	5.26	32.90	5.28	33.70	5.33	34.50	5.37
	21(69.8)	22.70	3.27	27.00	4.19	31.40	5.23	32.20	5.38	32.60	5.40	33.50	5.45	34.30	5.51
	23(73.4)	22.70	3.50	27.00	4.49	31.40	5.60	31.80	5.62	32.20	5.65	33.00	5.71	33.80	5.75
	25(77)	22.70	3.74	27.00	4.81	30.90	5.85	31.30	5.87	31.70	5.89	32.60	5.95	33.40	6.01
	27(80.6)	22.70	3.99	27.00	5.14	30.50	6.08	30.90	6.12	31.30	6.15	32.10	6.21	32.90	6.26
	29(84.2)	22.70	4.26	27.00	5.49	30.00	6.33	30.40	6.37	30.80	6.40	31.60	6.46	32.50	6.52
	31(87.8)	22.70	4.54	27.00	5.86	29.50	6.58	30.00	6.61	30.40	6.65	31.20	6.72	32.00	6.78
	33(91.4)	22.70	4.83	27.00	6.24	29.10	6.83	29.50	6.87	29.90	6.90	30.70	6.97	31.50	7.04
35(95)	22.70	5.15	27.00	6.66	28.60	7.08	29.00	7.11	29.50	7.15	30.30	7.23	31.10	7.30	
37(98.6)	22.70	5.48	27.00	7.10	28.20	7.33	28.60	7.37	29.00	7.41	29.80	7.48	30.60	7.57	
39(102.2)	22.70	5.83	26.90	7.49	27.70	7.58	28.10	7.63	28.50	7.66	29.40	7.75	30.20	7.82	
41(105.8)	22.70	5.99	26.68	7.55	27.48	7.63	27.88	7.68	28.28	7.72	29.18	7.77	29.33	7.88	
43(109.4)	22.70	6.08	26.54	7.60	27.27	7.68	27.67	7.71	28.07	7.74	28.67	7.79	28.88	8.04	
45(113)	22.70	6.15	26.39	7.67	27.00	7.75	27.38	7.78	27.82	7.80	28.09	7.82	28.59	8.22	
48(118.4)	22.70	6.25	26.17	7.78	26.66	7.85	26.94	7.88	27.51	7.95	27.66	7.96	28.21	8.32	

Cooling capacity table

MV5-X280W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	20.80	2.42	24.80	3.01	28.80	3.60	30.80	3.86	32.80	4.15	35.30	4.31	36.10	4.45
	-2(28.4)	20.80	2.47	24.80	3.05	28.80	3.63	30.80	3.90	32.80	4.18	35.30	4.36	36.10	4.47
	0(32)	20.80	2.49	24.80	3.07	28.80	3.65	30.80	3.92	32.80	4.23	35.30	4.40	36.10	4.52
	2(35.6)	20.80	2.55	24.80	3.10	28.80	3.71	30.80	3.96	32.80	4.28	35.30	4.46	36.10	4.58
	4(39.2)	20.80	2.60	24.80	3.13	28.80	3.75	30.80	4.01	32.80	4.34	35.30	4.52	36.10	4.62
	6(42.8)	20.80	2.62	24.80	3.17	28.80	3.78	30.80	4.08	32.80	4.39	35.30	4.57	36.10	4.69
	8(46.4)	20.80	2.65	24.80	3.22	28.80	3.83	30.80	4.12	32.80	4.44	35.30	4.60	36.10	4.74
	10(50)	20.80	2.68	24.80	3.26	28.80	3.88	30.80	4.19	32.80	4.51	35.30	4.63	36.10	4.78
	12(53.6)	20.80	2.73	24.80	3.33	28.80	3.96	30.80	4.28	32.80	4.60	34.90	4.70	35.60	4.85
	14(57.2)	20.80	2.78	24.80	3.39	28.80	4.03	30.80	4.35	32.80	4.68	34.40	4.74	35.20	4.88
	16(60.8)	20.80	2.83	24.80	3.45	28.80	4.11	30.80	4.44	32.80	4.78	34.00	4.80	34.70	4.93
	18(64.4)	20.80	2.89	24.80	3.52	28.80	4.19	30.80	4.56	32.80	5.01	33.50	5.04	34.30	5.09
	20(68)	20.80	2.94	24.80	3.60	28.80	4.44	30.80	4.90	32.30	5.25	33.10	5.29	33.80	5.34
	21(69.8)	20.80	2.97	24.80	3.70	28.80	4.60	30.80	5.08	32.10	5.37	32.80	5.41	33.60	5.46
	23(73.4)	20.80	3.11	24.80	3.96	28.80	4.93	30.80	5.45	31.60	5.61	32.40	5.67	33.10	5.71
	25(77)	20.80	3.32	24.80	4.24	28.80	5.27	30.80	5.84	31.20	5.86	31.90	5.91	32.70	5.96
	27(80.6)	20.80	3.54	24.80	4.53	28.80	5.64	30.30	6.08	30.70	6.10	31.50	6.16	32.20	6.22
	29(84.2)	20.80	3.77	24.80	4.84	28.80	6.03	29.90	6.33	30.30	6.36	31.00	6.41	31.80	6.47
	31(87.8)	20.80	4.02	24.80	5.16	28.80	6.43	29.40	6.58	29.80	6.60	30.60	6.66	31.30	6.73
	33(91.4)	20.80	4.28	24.80	5.50	28.60	6.78	29.00	6.82	29.40	6.85	30.10	6.92	30.90	6.98
35(95)	20.80	4.55	24.80	5.86	28.10	7.03	28.50	7.07	28.90	7.11	29.60	7.17	30.40	7.24	
37(98.6)	20.80	4.84	24.80	6.24	27.70	7.29	28.10	7.31	28.40	7.35	29.20	7.43	29.90	7.49	
39(102.2)	20.80	5.15	24.80	6.64	27.20	7.53	27.60	7.57	28.00	7.61	28.70	7.68	29.50	7.76	
41(105.8)	20.80	5.20	24.80	6.70	26.99	7.58	27.39	7.62	27.79	7.66	28.34	7.74	28.61	7.81	
43(109.4)	20.80	5.25	24.80	6.78	26.77	7.64	27.17	7.68	27.57	7.71	28.08	7.76	28.17	7.97	
45(113)	20.80	5.42	24.80	6.82	26.50	7.71	26.89	7.77	27.33	7.78	27.80	7.98	27.91	8.16	
48(118.4)	20.80	5.56	24.80	6.92	26.12	7.81	26.46	7.89	27.02	7.94	27.34	8.29	27.55	8.58	
100%	-5(23)	18.90	2.20	22.50	2.65	26.20	3.16	28.00	3.38	29.80	3.67	33.50	4.18	35.40	4.37
	-2(28.4)	18.90	2.23	22.50	2.69	26.20	3.19	28.00	3.45	29.80	3.72	33.50	4.23	35.40	4.39
	0(32)	18.90	2.25	22.50	2.72	26.20	3.23	28.00	3.49	29.80	3.76	33.50	4.30	35.40	4.44
	2(35.6)	18.90	2.30	22.50	2.75	26.20	3.26	28.00	3.53	29.80	3.80	33.50	4.37	35.40	4.51
	4(39.2)	18.90	2.32	22.50	2.78	26.20	3.31	28.00	3.59	29.80	3.85	33.50	4.41	35.40	4.56
	6(42.8)	18.90	2.35	22.50	2.84	26.20	3.36	28.00	3.65	29.80	3.90	33.50	4.47	35.40	4.63
	8(46.4)	18.90	2.39	22.50	2.88	26.20	3.42	28.00	3.69	29.80	3.97	33.50	4.54	35.40	4.71
	10(50)	18.90	2.42	22.50	2.93	26.20	3.47	28.00	3.76	29.80	4.04	33.50	4.62	35.40	4.78
	12(53.6)	18.90	2.46	22.50	2.99	26.20	3.54	28.00	3.82	29.80	4.12	33.50	4.70	34.90	4.82
	14(57.2)	18.90	2.51	22.50	3.05	26.20	3.60	28.00	3.90	29.80	4.19	33.50	4.80	34.50	4.87
	16(60.8)	18.90	2.55	22.50	3.10	26.20	3.68	28.00	3.97	29.80	4.28	33.30	4.85	34.00	4.93
	18(64.4)	18.90	2.60	22.50	3.16	26.20	3.75	28.00	4.05	29.80	4.36	32.90	5.01	33.60	5.05
	20(68)	18.90	2.65	22.50	3.23	26.20	3.86	28.00	4.26	29.80	4.67	32.40	5.25	33.10	5.30
	21(69.8)	18.90	2.68	22.50	3.25	26.20	4.00	28.00	4.41	29.80	4.83	32.20	5.37	32.90	5.42
	23(73.4)	18.90	2.74	22.50	3.47	26.20	4.29	28.00	4.72	29.80	5.18	31.80	5.62	32.40	5.67
	25(77)	18.90	2.92	22.50	3.71	26.20	4.59	28.00	5.06	29.80	5.55	31.30	5.87	32.00	5.91
	27(80.6)	18.90	3.12	22.50	3.95	26.20	4.90	28.00	5.41	29.80	5.94	30.80	6.11	31.50	6.17
	29(84.2)	18.90	3.32	22.50	4.22	26.20	5.23	28.00	5.78	29.70	6.31	30.40	6.37	31.10	6.41
	31(87.8)	18.90	3.54	22.50	4.50	26.20	5.58	28.00	6.17	29.30	6.56	29.90	6.61	30.60	6.67
	33(91.4)	18.90	3.76	22.50	4.80	26.20	5.95	28.00	6.58	28.80	6.80	29.50	6.86	30.20	6.93
35(95)	18.90	3.99	22.50	5.10	26.20	6.35	28.00	7.02	28.30	7.05	29.00	7.11	29.70	7.17	
37(98.6)	18.90	4.25	22.50	5.43	26.20	6.76	27.50	7.27	27.90	7.30	28.60	7.37	29.20	7.43	
39(102.2)	18.90	4.51	22.50	5.77	26.20	7.20	27.10	7.51	27.40	7.55	28.10	7.62	28.80	7.69	
41(105.8)	18.90	4.72	22.50	5.98	26.20	7.46	26.68	7.56	27.19	7.67	27.78	7.80	28.38	7.85	
43(109.4)	18.90	4.93	22.50	6.19	26.20	7.60	26.26	7.65	26.99	7.74	27.61	7.85	27.88	7.94	
45(113)	18.90	5.21	22.50	6.47	26.20	7.73	26.23	7.76	26.85	7.88	27.32	7.97	27.55	8.04	
48(118.4)	18.90	5.64	22.50	6.89	26.20	7.86	26.21	7.97	26.81	8.18	27.10	8.20	27.38	8.25	

Cooling capacity table

MV5-X280W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	17.00	1.95	20.30	2.34	23.60	2.76	25.20	3.01	26.80	3.20	30.10	3.68	33.40	4.22
	-2(28.4)	17.00	1.97	20.30	2.36	23.60	2.80	25.20	3.05	26.80	3.24	30.10	3.72	33.40	4.26
	0(32)	17.00	2.00	20.30	2.39	23.60	2.84	25.20	3.09	26.80	3.28	30.10	3.76	33.40	4.29
	2(35.6)	17.00	2.03	20.30	2.42	23.60	2.87	25.20	3.14	26.80	3.33	30.10	3.84	33.40	4.35
	4(39.2)	17.00	2.06	20.30	2.46	23.60	2.91	25.20	3.18	26.80	3.38	30.10	3.90	33.40	4.42
	6(42.8)	17.00	2.09	20.30	2.51	23.60	2.97	25.20	3.24	26.80	3.44	30.10	3.96	33.40	4.49
	8(46.4)	17.00	2.13	20.30	2.56	23.60	3.03	25.20	3.28	26.80	3.50	30.10	4.03	33.40	4.53
	10(50)	17.00	2.17	20.30	2.61	23.60	3.08	25.20	3.33	26.80	3.58	30.10	4.08	33.40	4.61
	12(53.6)	17.00	2.20	20.30	2.66	23.60	3.14	25.20	3.39	26.80	3.64	30.10	4.16	33.40	4.69
	14(57.2)	17.00	2.24	20.30	2.71	23.60	3.20	25.20	3.45	26.80	3.71	30.10	4.24	33.40	4.78
	16(60.8)	17.00	2.28	20.30	2.75	23.60	3.26	25.20	3.52	26.80	3.78	30.10	4.32	33.30	4.86
	18(64.4)	17.00	2.32	20.30	2.81	23.60	3.32	25.20	3.59	26.80	3.86	30.10	4.41	32.90	5.01
	20(68)	17.00	2.36	20.30	2.87	23.60	3.39	25.20	3.66	26.80	4.00	30.10	4.74	32.40	5.25
	21(69.8)	17.00	2.38	20.30	2.89	23.60	3.44	25.20	3.78	26.80	4.14	30.10	4.91	32.20	5.37
	23(73.4)	17.00	2.43	20.30	3.01	23.60	3.69	25.20	4.06	26.80	4.45	30.10	5.27	31.70	5.62
	25(77)	17.00	2.56	20.30	3.22	23.60	3.94	25.20	4.34	26.80	4.75	30.10	5.64	31.30	5.87
	27(80.6)	17.00	2.72	20.30	3.42	23.60	4.21	25.20	4.64	26.80	5.08	30.10	6.04	30.80	6.11
	29(84.2)	17.00	2.90	20.30	3.65	23.60	4.49	25.20	4.95	26.80	5.43	29.80	6.31	30.40	6.36
	31(87.8)	17.00	3.08	20.30	3.89	23.60	4.79	25.20	5.28	26.80	5.79	29.30	6.56	29.90	6.61
	33(91.4)	17.00	3.27	20.30	4.13	23.60	5.11	25.20	5.63	26.80	6.18	28.90	6.81	29.50	6.86
35(95)	17.00	3.48	20.30	4.40	23.60	5.44	25.20	6.00	26.80	6.58	28.40	7.06	29.00	7.11	
37(98.6)	17.00	3.69	20.30	4.67	23.60	5.79	25.20	6.39	26.80	7.02	27.90	7.30	28.60	7.36	
39(102.2)	17.00	3.92	20.30	4.98	23.60	6.16	25.20	6.80	26.80	7.47	27.50	7.56	28.10	7.62	
41(105.8)	17.00	4.05	20.30	5.20	23.60	6.38	25.20	6.98	26.80	7.52	27.31	7.75	27.91	7.80	
43(109.4)	17.00	4.25	20.30	5.43	23.60	6.61	25.20	7.16	26.80	7.68	27.17	7.85	27.67	7.92	
45(113)	17.00	4.52	20.30	5.70	23.60	6.88	25.20	7.40	26.80	7.89	27.02	7.93	27.25	8.02	
48(118.4)	17.00	4.88	20.30	6.06	23.60	7.24	25.20	7.76	26.80	8.07	26.91	8.09	27.04	8.16	
80%	-5(23)	15.10	1.72	18.00	2.03	20.90	2.40	22.40	2.56	23.90	2.75	26.80	3.18	29.70	3.63
	-2(28.4)	15.10	1.74	18.00	2.06	20.90	2.43	22.40	2.60	23.90	2.78	26.80	3.21	29.70	3.67
	0(32)	15.10	1.77	18.00	2.08	20.90	2.46	22.40	2.63	23.90	2.83	26.80	3.26	29.70	3.72
	2(35.6)	15.10	1.81	18.00	2.11	20.90	2.49	22.40	2.68	23.90	2.88	26.80	3.32	29.70	3.79
	4(39.2)	15.10	1.84	18.00	2.15	20.90	2.54	22.40	2.74	23.90	2.93	26.80	3.39	29.70	3.84
	6(42.8)	15.10	1.87	18.00	2.20	20.90	2.58	22.40	2.80	23.90	2.99	26.80	3.44	29.70	3.91
	8(46.4)	15.10	1.90	18.00	2.25	20.90	2.64	22.40	2.84	23.90	3.05	26.80	3.49	29.70	3.98
	10(50)	15.10	1.92	18.00	2.30	20.90	2.71	22.40	2.91	23.90	3.12	26.80	3.57	29.70	4.02
	12(53.6)	15.10	1.95	18.00	2.34	20.90	2.75	22.40	2.97	23.90	3.19	26.80	3.63	29.70	4.10
	14(57.2)	15.10	1.99	18.00	2.38	20.90	2.80	22.40	3.02	23.90	3.25	26.80	3.70	29.70	4.17
	16(60.8)	15.10	2.02	18.00	2.42	20.90	2.86	22.40	3.07	23.90	3.30	26.80	3.78	29.70	4.25
	18(64.4)	15.10	2.05	18.00	2.47	20.90	2.91	22.40	3.14	23.90	3.37	26.80	3.85	29.70	4.33
	20(68)	15.10	2.09	18.00	2.52	20.90	2.97	22.40	3.20	23.90	3.43	26.80	3.99	29.70	4.64
	21(69.8)	15.10	2.11	18.00	2.54	20.90	3.00	22.40	3.24	23.90	3.51	26.80	4.13	29.70	4.81
	23(73.4)	15.10	2.15	18.00	2.59	20.90	3.14	22.40	3.44	23.90	3.76	26.80	4.43	29.70	5.16
	25(77)	15.10	2.21	18.00	2.75	20.90	3.36	22.40	3.68	23.90	4.01	26.80	4.74	29.70	5.52
	27(80.6)	15.10	2.36	18.00	2.93	20.90	3.58	22.40	3.93	23.90	4.29	26.80	5.06	29.70	5.90
	29(84.2)	15.10	2.51	18.00	3.12	20.90	3.81	22.40	4.18	23.90	4.58	26.80	5.40	29.70	6.31
	31(87.8)	15.10	2.66	18.00	3.32	20.90	4.06	22.40	4.46	23.90	4.88	26.80	5.77	29.20	6.56
	33(91.4)	15.10	2.83	18.00	3.53	20.90	4.32	22.40	4.75	23.90	5.19	26.80	6.15	28.80	6.80
35(95)	15.10	3.00	18.00	3.76	20.90	4.60	22.40	5.05	23.90	5.53	26.80	6.56	28.30	7.05	
37(98.6)	15.10	3.18	18.00	3.98	20.90	4.89	22.40	5.38	23.90	5.89	26.80	6.99	27.90	7.29	
39(102.2)	15.10	3.37	18.00	4.25	20.90	5.20	22.40	5.72	23.90	6.27	26.80	7.45	27.40	7.55	
41(105.8)	15.10	3.44	18.00	4.29	20.90	5.28	22.40	5.88	23.90	6.39	26.80	7.64	27.23	7.68	
43(109.4)	15.10	3.55	18.00	4.32	20.90	5.36	22.40	5.98	23.90	6.48	26.80	7.72	27.06	7.76	
45(113)	15.10	3.65	18.00	4.37	20.90	5.46	22.40	6.10	23.90	6.59	26.80	7.81	26.73	7.89	
48(118.4)	15.10	3.72	18.00	4.45	20.90	5.62	22.40	6.33	23.90	6.77	26.80	7.99	26.50	8.16	

Cooling capacity table

MV5-X280W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	13.20	1.53	15.80	1.80	18.30	2.04	19.60	2.18	20.90	2.33	23.40	2.67	26.00	3.07
	-2(28.4)	13.20	1.55	15.80	1.81	18.30	2.05	19.60	2.23	20.90	2.37	23.40	2.71	26.00	3.11
	0(32)	13.20	1.55	15.80	1.83	18.30	2.09	19.60	2.27	20.90	2.42	23.40	2.76	26.00	3.15
	2(35.6)	13.20	1.56	15.80	1.84	18.30	2.13	19.60	2.31	20.90	2.46	23.40	2.82	26.00	3.20
	4(39.2)	13.20	1.58	15.80	1.89	18.30	2.17	19.60	2.35	20.90	2.51	23.40	2.87	26.00	3.28
	6(42.8)	13.20	1.61	15.80	1.92	18.30	2.23	19.60	2.43	20.90	2.57	23.40	2.92	26.00	3.34
	8(46.4)	13.20	1.64	15.80	1.97	18.30	2.28	19.60	2.47	20.90	2.63	23.40	3.00	26.00	3.40
	10(50)	13.20	1.67	15.80	2.01	18.30	2.34	19.60	2.52	20.90	2.70	23.40	3.07	26.00	3.44
	12(53.6)	13.20	1.71	15.80	2.03	18.30	2.38	19.60	2.56	20.90	2.74	23.40	3.12	26.00	3.51
	14(57.2)	13.20	1.74	15.80	2.07	18.30	2.42	19.60	2.60	20.90	2.79	23.40	3.18	26.00	3.58
	16(60.8)	13.20	1.77	15.80	2.11	18.30	2.47	19.60	2.66	20.90	2.85	23.40	3.24	26.00	3.64
	18(64.4)	13.20	1.80	15.80	2.15	18.30	2.52	19.60	2.71	20.90	2.90	23.40	3.30	26.00	3.72
	20(68)	13.20	1.83	15.80	2.19	18.30	2.56	19.60	2.75	20.90	2.95	23.40	3.37	26.00	3.82
	21(69.8)	13.20	1.84	15.80	2.20	18.30	2.58	19.60	2.78	20.90	2.98	23.40	3.42	26.00	3.95
	23(73.4)	13.20	1.87	15.80	2.24	18.30	2.64	19.60	2.88	20.90	3.13	23.40	3.66	26.00	4.24
	25(77)	13.20	1.91	15.80	2.34	18.30	2.81	19.60	3.07	20.90	3.34	23.40	3.92	26.00	4.53
	27(80.6)	13.20	2.02	15.80	2.49	18.30	3.00	19.60	3.27	20.90	3.57	23.40	4.18	26.00	4.84
	29(84.2)	13.20	2.15	15.80	2.64	18.30	3.19	19.60	3.49	20.90	3.79	23.40	4.46	26.00	5.18
	31(87.8)	13.20	2.27	15.80	2.80	18.30	3.40	19.60	3.71	20.90	4.04	23.40	4.75	26.00	5.52
	33(91.4)	13.20	2.41	15.80	2.98	18.30	3.61	19.60	3.95	20.90	4.30	23.40	5.06	26.00	5.88
35(95)	13.20	2.55	15.80	3.16	18.30	3.83	19.60	4.20	20.90	4.58	23.40	5.39	26.00	6.27	
37(98.6)	13.20	2.70	15.80	3.35	18.30	4.08	19.60	4.46	20.90	4.87	23.40	5.74	26.00	6.68	
39(102.2)	13.20	2.86	15.80	3.55	18.30	4.32	19.60	4.74	20.90	5.18	23.40	6.10	26.00	7.11	
41(105.8)	13.20	2.98	15.80	3.67	18.30	4.45	19.60	4.90	20.90	5.33	23.40	6.35	26.00	7.43	
43(109.4)	13.20	3.23	15.80	3.93	18.30	4.63	19.60	5.16	20.90	5.49	23.40	6.59	26.00	7.66	
45(113)	13.20	3.30	15.80	4.01	18.30	4.73	19.60	5.24	20.90	5.76	23.40	6.94	26.00	7.95	
48(118.4)	13.20	3.51	15.80	4.26	18.30	5.02	19.60	5.50	20.90	5.93	23.40	7.15	26.00	8.12	
60%	-5(23)	11.30	1.31	13.50	1.52	15.70	1.77	16.80	1.88	17.90	2.03	20.10	2.28	22.30	2.62
	-2(28.4)	11.30	1.31	13.50	1.54	15.70	1.80	16.80	1.91	17.90	2.05	20.10	2.32	22.30	2.64
	0(32)	11.30	1.34	13.50	1.56	15.70	1.82	16.80	1.93	17.90	2.09	20.10	2.35	22.30	2.67
	2(35.6)	11.30	1.36	13.50	1.60	15.70	1.86	16.80	1.97	17.90	2.12	20.10	2.40	22.30	2.71
	4(39.2)	11.30	1.40	13.50	1.63	15.70	1.89	16.80	2.00	17.90	2.15	20.10	2.44	22.30	2.74
	6(42.8)	11.30	1.41	13.50	1.66	15.70	1.93	16.80	2.04	17.90	2.19	20.10	2.49	22.30	2.81
	8(46.4)	11.30	1.44	13.50	1.68	15.70	1.97	16.80	2.08	17.90	2.24	20.10	2.53	22.30	2.85
	10(50)	11.30	1.47	13.50	1.72	15.70	2.00	16.80	2.14	17.90	2.28	20.10	2.58	22.30	2.89
	12(53.6)	11.30	1.49	13.50	1.75	15.70	2.03	16.80	2.18	17.90	2.32	20.10	2.63	22.30	2.94
	14(57.2)	11.30	1.51	13.50	1.78	15.70	2.06	16.80	2.21	17.90	2.36	20.10	2.68	22.30	3.00
	16(60.8)	11.30	1.53	13.50	1.81	15.70	2.10	16.80	2.25	17.90	2.40	20.10	2.72	22.30	3.06
	18(64.4)	11.30	1.56	13.50	1.84	15.70	2.14	16.80	2.29	17.90	2.45	20.10	2.77	22.30	3.11
	20(68)	11.30	1.58	13.50	1.87	15.70	2.18	16.80	2.34	17.90	2.50	20.10	2.83	22.30	3.18
	21(69.8)	11.30	1.60	13.50	1.88	15.70	2.19	16.80	2.36	17.90	2.52	20.10	2.86	22.30	3.21
	23(73.4)	11.30	1.62	13.50	1.92	15.70	2.23	16.80	2.40	17.90	2.56	20.10	2.97	22.30	3.41
	25(77)	11.30	1.65	13.50	1.95	15.70	2.32	16.80	2.52	17.90	2.72	20.10	3.17	22.30	3.64
	27(80.6)	11.30	1.71	13.50	2.07	15.70	2.47	16.80	2.69	17.90	2.90	20.10	3.38	22.30	3.89
	29(84.2)	11.30	1.81	13.50	2.19	15.70	2.63	16.80	2.86	17.90	3.09	20.10	3.60	22.30	4.15
	31(87.8)	11.30	1.92	13.50	2.33	15.70	2.79	16.80	3.04	17.90	3.29	20.10	3.83	22.30	4.42
	33(91.4)	11.30	2.02	13.50	2.47	15.70	2.96	16.80	3.23	17.90	3.50	20.10	4.08	22.30	4.71
35(95)	11.30	2.15	13.50	2.62	15.70	3.14	16.80	3.42	17.90	3.72	20.10	4.34	22.30	5.01	
37(98.6)	11.30	2.27	13.50	2.77	15.70	3.33	16.80	3.63	17.90	3.94	20.10	4.62	22.30	5.34	
39(102.2)	11.30	2.39	13.50	2.93	15.70	3.53	16.80	3.85	17.90	4.19	20.10	4.90	22.30	5.68	
41(105.8)	11.30	2.47	13.50	3.06	15.70	3.66	16.80	4.00	17.90	4.34	20.10	5.13	22.30	5.93	
43(109.4)	11.30	2.55	13.50	3.19	15.70	3.79	16.80	4.12	17.90	4.50	20.10	5.35	22.30	6.19	
45(113)	11.30	2.67	13.50	3.35	15.70	3.94	16.80	4.28	17.90	4.72	20.10	5.59	22.30	6.53	
48(118.4)	11.30	2.87	13.50	3.57	15.70	4.14	16.80	4.53	17.90	5.09	20.10	5.89	22.30	7.05	

Cooling capacity table

MV5-X280W/V2GN1

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	9.45	1.14	11.30	1.31	13.10	1.51	14.00	1.58	14.90	1.67	16.70	1.90	18.60	2.04
	-2(28.4)	9.45	1.14	11.30	1.34	13.10	1.53	14.00	1.60	14.90	1.70	16.70	1.92	18.60	2.07
	0(32)	9.45	1.16	11.30	1.36	13.10	1.55	14.00	1.62	14.90	1.72	16.70	1.95	18.60	2.11
	2(35.6)	9.45	1.18	11.30	1.38	13.10	1.58	14.00	1.65	14.90	1.75	16.70	1.96	18.60	2.15
	4(39.2)	9.45	1.19	11.30	1.40	13.10	1.60	14.00	1.67	14.90	1.78	16.70	2.01	18.60	2.20
	6(42.8)	9.45	1.21	11.30	1.42	13.10	1.62	14.00	1.71	14.90	1.81	16.70	2.04	18.60	2.27
	8(46.4)	9.45	1.24	11.30	1.45	13.10	1.65	14.00	1.74	14.90	1.84	16.70	2.07	18.60	2.34
	10(50)	9.45	1.27	11.30	1.47	13.10	1.67	14.00	1.77	14.90	1.89	16.70	2.13	18.60	2.37
	12(53.6)	9.45	1.28	11.30	1.49	13.10	1.70	14.00	1.81	14.90	1.93	16.70	2.17	18.60	2.41
	14(57.2)	9.45	1.30	11.30	1.50	13.10	1.72	14.00	1.84	14.90	1.96	16.70	2.20	18.60	2.46
	16(60.8)	9.45	1.31	11.30	1.52	13.10	1.75	14.00	1.87	14.90	1.99	16.70	2.24	18.60	2.50
	18(64.4)	9.45	1.33	11.30	1.55	13.10	1.78	14.00	1.90	14.90	2.02	16.70	2.28	18.60	2.54
	20(68)	9.45	1.35	11.30	1.57	13.10	1.81	14.00	1.93	14.90	2.06	16.70	2.32	18.60	2.59
	21(69.8)	9.45	1.36	11.30	1.59	13.10	1.83	14.00	1.95	14.90	2.08	16.70	2.35	18.60	2.62
	23(73.4)	9.45	1.38	11.30	1.61	13.10	1.85	14.00	1.99	14.90	2.12	16.70	2.38	18.60	2.68
	25(77)	9.45	1.40	11.30	1.64	13.10	1.89	14.00	2.02	14.90	2.19	16.70	2.51	18.60	2.86
	27(80.6)	9.45	1.43	11.30	1.70	13.10	2.00	14.00	2.16	14.90	2.32	16.70	2.67	18.60	3.05
	29(84.2)	9.45	1.50	11.30	1.80	13.10	2.12	14.00	2.29	14.90	2.47	16.70	2.84	18.60	3.24
	31(87.8)	9.45	1.59	11.30	1.90	13.10	2.24	14.00	2.43	14.90	2.62	16.70	3.02	18.60	3.45
	33(91.4)	9.45	1.68	11.30	2.02	13.10	2.38	14.00	2.57	14.90	2.78	16.70	3.21	18.60	3.67
35(95)	9.45	1.78	11.30	2.13	13.10	2.52	14.00	2.72	14.90	2.94	16.70	3.41	18.60	3.90	
37(98.6)	9.45	1.87	11.30	2.25	13.10	2.67	14.00	2.89	14.90	3.12	16.70	3.61	18.60	4.14	
39(102.2)	9.45	1.98	11.30	2.37	13.10	2.82	14.00	3.06	14.90	3.31	16.70	3.83	18.60	4.40	
41(105.8)	9.45	2.06	11.30	2.48	13.10	2.92	14.00	3.20	14.90	3.45	16.70	4.04	18.60	4.60	
43(109.4)	9.45	2.20	11.30	2.65	13.10	3.02	14.00	3.34	14.90	3.54	16.70	4.24	18.60	4.81	
45(113)	9.45	2.25	11.30	2.71	13.10	3.23	14.00	3.60	14.90	3.69	16.70	4.65	18.60	5.22	
48(118.4)	9.45	2.40	11.30	2.92	13.10	3.36	14.00	3.76	14.90	3.80	16.70	4.92	18.60	5.49	

Cooling capacity table

MV5-X335W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	-5(23)	29.43	3.56	35.05	4.35	40.68	4.66	42.23	4.85	44.26	4.99	45.34	5.42	46.48	5.46
	-2(28.4)	29.43	3.56	35.05	4.43	40.68	4.66	42.23	4.88	44.26	4.99	45.34	5.49	46.48	5.51
	0(32)	29.43	3.62	35.05	4.51	40.68	4.83	42.23	5.14	44.26	5.28	45.34	5.56	46.48	5.58
	2(35.6)	29.43	3.69	35.05	4.52	40.68	4.99	42.23	5.43	44.26	5.34	45.34	5.60	46.48	5.67
	4(39.2)	29.43	3.77	35.05	4.60	40.68	5.17	42.23	5.46	44.26	5.40	45.34	5.59	46.48	5.77
	6(42.8)	29.43	3.84	35.05	4.70	40.68	5.36	42.23	5.50	43.77	5.57	44.79	5.59	45.97	5.82
	8(46.4)	29.43	3.93	35.05	4.80	40.68	5.63	42.23	5.77	43.23	5.76	44.30	3.90	45.39	5.87
	10(50)	29.43	4.02	35.05	4.91	40.68	5.83	42.23	5.96	42.71	4.04	43.79	4.06	44.86	6.04
	12(53.6)	29.43	4.09	35.05	5.00	40.68	5.95	41.63	4.03	42.23	4.06	43.19	4.07	44.27	6.08
	14(57.2)	29.43	4.17	35.05	5.09	40.56	4.05	41.16	4.06	41.63	4.08	42.71	4.09	43.79	6.22
	16(60.8)	29.43	4.24	35.05	5.20	40.08	4.06	40.56	4.08	41.04	4.10	42.11	4.12	43.19	6.32
	18(64.4)	29.43	4.32	35.05	5.31	39.48	6.22	39.96	6.26	40.56	6.29	41.63	6.35	42.71	6.41
	20(68)	29.43	4.41	35.05	5.65	38.88	6.53	39.48	6.56	39.96	6.60	41.04	6.66	42.11	6.73
	21(69.8)	29.43	4.53	35.05	5.85	38.64	6.68	39.24	6.71	39.72	6.75	40.80	6.82	41.87	6.88
	23(73.4)	29.43	4.86	35.05	6.27	38.16	6.99	38.64	7.02	39.12	7.06	40.20	7.13	41.27	7.20
	25(77)	29.43	5.19	35.05	6.71	37.57	7.29	38.04	7.33	38.64	7.37	39.72	7.44	40.80	7.51
	27(80.6)	29.43	5.54	35.05	7.18	37.09	7.60	37.57	7.64	38.04	7.68	39.12	7.76	40.20	7.84
	29(84.2)	29.43	5.92	35.05	7.68	36.49	7.90	36.97	7.95	37.57	7.99	38.64	8.08	39.72	8.16
	31(87.8)	29.43	6.32	34.94	8.12	35.89	8.22	36.49	8.26	36.97	8.30	38.04	8.39	39.12	8.49
	33(91.4)	29.43	6.73	34.33	8.43	35.41	8.52	35.89	8.57	36.49	8.62	37.57	8.71	38.52	8.81
35(95)	29.43	7.17	33.74	8.73	34.81	8.84	35.41	8.89	35.89	8.93	36.97	9.04	38.04	9.13	
37(98.6)	29.43	7.63	33.26	9.05	34.34	9.16	34.81	9.20	35.41	9.26	36.37	9.37	37.45	9.47	
39(102.2)	29.43	8.12	32.66	9.15	33.74	9.46	34.34	9.52	34.81	9.58	35.89	9.68	36.97	9.80	
41(105.8)	29.43	8.55	32.32	9.23	33.38	9.55	33.98	9.61	34.46	9.67	35.54	9.70	35.55	9.89	
43(109.4)	29.43	8.77	32.09	9.28	33.21	9.58	33.81	9.65	34.11	9.68	34.89	9.72	35.13	9.91	
45(113)	29.43	9.20	31.89	9.37	32.85	9.67	33.45	9.72	33.61	9.73	33.94	9.76	34.44	10.10	
48(118.4)	29.43	9.86	31.78	9.50	32.32	9.85	32.92	9.77	33.19	9.82	33.04	9.81	33.64	10.59	
120%	-5(23)	27.16	3.44	32.30	4.16	37.57	4.93	40.20	5.37	42.11	5.60	43.07	5.78	44.03	5.93
	-2(28.4)	27.16	3.47	32.30	4.21	37.57	4.97	40.20	5.40	42.11	5.67	43.07	5.83	44.03	5.95
	0(32)	27.16	3.50	32.30	4.24	37.57	5.03	40.20	5.42	42.11	5.72	43.07	5.86	44.03	5.96
	2(35.6)	27.16	3.51	32.30	4.28	37.57	5.07	40.20	5.47	42.11	5.74	43.07	5.90	44.03	5.98
	4(39.2)	27.16	3.55	32.30	4.34	37.57	5.14	40.20	5.52	42.11	5.81	43.07	5.92	44.03	5.99
	6(42.8)	27.16	3.59	32.30	4.37	37.57	5.20	40.20	5.58	42.11	5.88	43.07	5.97	44.03	6.01
	8(46.4)	27.16	3.62	32.30	4.41	37.57	5.27	40.20	5.65	42.11	5.94	43.07	5.99	44.03	6.04
	10(50)	27.16	3.66	32.30	4.47	37.57	5.32	40.20	5.75	42.11	5.94	43.07	6.00	44.03	6.07
	12(53.6)	27.16	3.73	32.30	4.56	37.57	5.42	40.20	5.86	41.52	5.97	42.47	5.97	43.43	6.11
	14(57.2)	27.16	3.80	32.30	4.65	37.57	5.53	40.20	5.98	40.92	6.00	41.99	6.06	42.95	6.18
	16(60.8)	27.16	3.87	32.30	4.74	37.57	5.63	39.96	4.10	40.44	6.09	41.40	6.16	42.35	6.27
	18(64.4)	27.16	3.94	32.30	4.84	37.57	5.82	39.36	6.22	39.84	6.24	40.80	6.30	41.87	6.36
	20(68)	27.16	4.03	32.30	5.02	37.57	6.27	38.88	6.53	39.36	6.55	40.32	6.61	41.28	6.67
	21(69.8)	27.16	4.06	32.30	5.20	37.57	6.49	38.52	6.68	39.00	6.70	40.08	6.76	41.04	6.83
	23(73.4)	27.16	4.34	32.30	5.58	37.57	6.95	38.05	6.97	38.52	7.01	39.48	7.08	40.44	7.14
	25(77)	27.16	4.64	32.30	5.96	36.97	7.25	37.45	7.28	37.93	7.31	39.00	7.38	39.96	7.45
	27(80.6)	27.16	4.95	32.30	6.37	36.49	7.55	36.97	7.60	37.45	7.63	38.40	7.70	39.36	7.77
	29(84.2)	27.16	5.28	32.30	6.81	35.89	7.85	36.37	7.90	36.85	7.94	37.81	8.02	38.88	8.09
	31(87.8)	27.16	5.63	32.30	7.27	35.29	8.17	35.89	8.21	36.37	8.25	37.33	8.33	38.28	8.42
	33(91.4)	27.16	6.00	32.30	7.75	34.81	8.48	35.29	8.52	35.77	8.56	36.73	8.65	37.69	8.73
35(95)	27.16	6.39	32.30	8.26	34.22	8.78	34.70	8.83	35.29	8.87	36.25	8.97	37.21	9.06	
37(98.6)	27.16	6.80	32.30	8.80	33.74	9.10	34.22	9.14	34.70	9.19	35.65	9.29	36.61	9.39	
39(102.2)	27.16	7.23	32.18	9.30	33.14	9.40	33.62	9.46	34.10	9.51	35.17	9.61	36.13	9.71	
41(105.8)	27.16	7.43	31.92	9.36	32.88	9.47	33.36	9.53	33.84	9.57	34.91	9.64	35.09	9.78	
43(109.4)	27.16	7.54	31.75	9.43	32.62	9.53	33.10	9.56	33.58	9.61	34.31	9.67	34.55	9.98	
45(113)	27.16	7.63	31.58	9.52	32.31	9.62	32.75	9.65	33.28	9.68	33.61	9.70	34.20	10.19	
48(118.4)	27.16	7.76	31.31	9.65	31.89	9.73	32.23	9.77	32.92	9.87	33.09	9.88	33.75	10.33	

Cooling capacity table

MV5-X335W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	24.89	3.00	29.67	3.74	34.46	4.46	36.85	4.79	39.24	5.15	42.24	5.35	43.19	5.52
	-2(28.4)	24.89	3.06	29.67	3.79	34.46	4.50	36.85	4.84	39.24	5.19	42.24	5.40	43.19	5.55
	0(32)	24.89	3.09	29.67	3.81	34.46	4.53	36.85	4.87	39.24	5.25	42.24	5.46	43.19	5.61
	2(35.6)	24.89	3.16	29.67	3.84	34.46	4.60	36.85	4.92	39.24	5.31	42.24	5.54	43.19	5.68
	4(39.2)	24.89	3.22	29.67	3.89	34.46	4.65	36.85	4.98	39.24	5.39	42.24	5.61	43.19	5.74
	6(42.8)	24.89	3.25	29.67	3.93	34.46	4.69	36.85	5.06	39.24	5.45	42.24	5.67	43.19	5.82
	8(46.4)	24.89	3.28	29.67	4.00	34.46	4.75	36.85	5.11	39.24	5.51	42.24	5.71	43.19	5.88
	10(50)	24.89	3.32	29.67	4.05	34.46	4.81	36.85	5.20	39.24	5.60	42.24	5.75	43.19	5.94
	12(53.6)	24.89	3.39	29.67	4.13	34.46	4.91	36.85	5.31	39.24	5.71	41.76	5.83	42.59	6.01
	14(57.2)	24.89	3.45	29.67	4.20	34.46	5.00	36.85	5.40	39.24	5.81	41.16	5.88	42.12	6.06
	16(60.8)	24.89	3.51	29.67	4.28	34.46	5.09	36.85	5.51	39.24	5.93	40.68	5.95	41.52	6.12
	18(64.4)	24.89	3.58	29.67	4.37	34.46	5.20	36.85	5.66	39.24	6.21	40.08	6.26	41.04	6.32
	20(68)	24.89	3.65	29.67	4.46	34.46	5.51	36.85	6.08	38.65	6.52	39.60	6.56	40.44	6.62
	21(69.8)	24.89	3.69	29.67	4.59	34.46	5.71	36.85	6.30	38.41	6.67	39.25	6.71	40.20	6.77
	23(73.4)	24.89	3.86	29.67	4.92	34.46	6.12	36.85	6.76	37.81	6.96	38.77	7.03	39.60	7.09
	25(77)	24.89	4.12	29.67	5.26	34.46	6.54	36.85	7.24	37.33	7.27	38.17	7.34	39.12	7.40
	27(80.6)	24.89	4.39	29.67	5.62	34.46	7.00	36.25	7.55	36.73	7.57	37.69	7.64	38.53	7.71
	29(84.2)	24.89	4.68	29.67	6.00	34.46	7.48	35.77	7.85	36.25	7.89	37.09	7.96	38.05	8.03
	31(87.8)	24.89	4.99	29.67	6.40	34.46	7.98	35.18	8.16	35.65	8.19	36.61	8.26	37.45	8.35
	33(91.4)	24.89	5.31	29.67	6.82	34.22	8.42	34.70	8.46	35.18	8.50	36.01	8.58	36.97	8.66
35(95)	24.89	5.65	29.67	7.27	33.62	8.72	34.10	8.77	34.58	8.82	35.42	8.90	36.37	8.98	
37(98.6)	24.89	6.01	29.67	7.74	33.14	9.04	33.62	9.07	33.98	9.12	34.94	9.22	35.77	9.30	
39(102.2)	24.89	6.39	29.67	8.24	32.54	9.34	33.02	9.39	33.50	9.44	34.34	9.53	35.30	9.63	
41(105.8)	24.89	6.45	29.67	8.31	32.29	9.41	32.77	9.46	33.25	9.50	33.90	9.60	34.23	9.69	
43(109.4)	24.89	6.52	29.67	8.41	32.03	9.48	32.51	9.52	32.99	9.57	33.60	9.63	33.71	9.89	
45(113)	24.89	6.73	29.67	8.46	31.71	9.56	32.17	9.64	32.70	9.66	33.26	9.90	33.39	10.12	
48(118.4)	24.89	6.89	29.67	8.59	31.25	9.70	31.66	9.79	32.33	9.85	32.71	10.28	32.96	10.65	
100%	-5(23)	22.61	2.73	26.92	3.29	31.35	3.92	33.50	4.20	35.65	4.56	40.08	5.19	42.35	5.42
	-2(28.4)	22.61	2.77	26.92	3.34	31.35	3.96	33.50	4.28	35.65	4.62	40.08	5.25	42.35	5.45
	0(32)	22.61	2.80	26.92	3.37	31.35	4.01	33.50	4.33	35.65	4.66	40.08	5.34	42.35	5.51
	2(35.6)	22.61	2.85	26.92	3.42	31.35	4.05	33.50	4.39	35.65	4.71	40.08	5.42	42.35	5.60
	4(39.2)	22.61	2.87	26.92	3.45	31.35	4.11	33.50	4.45	35.65	4.77	40.08	5.47	42.35	5.66
	6(42.8)	22.61	2.91	26.92	3.52	31.35	4.16	33.50	4.53	35.65	4.84	40.08	5.55	42.35	5.75
	8(46.4)	22.61	2.97	26.92	3.57	31.35	4.24	33.50	4.58	35.65	4.92	40.08	5.64	42.35	5.84
	10(50)	22.61	3.00	26.92	3.64	31.35	4.31	33.50	4.66	35.65	5.01	40.08	5.73	42.35	5.93
	12(53.6)	22.61	3.05	26.92	3.71	31.35	4.39	33.50	4.74	35.65	5.11	40.08	5.83	41.75	5.97
	14(57.2)	22.61	3.11	26.92	3.78	31.35	4.47	33.50	4.84	35.65	5.20	40.08	5.95	41.28	6.05
	16(60.8)	22.61	3.17	26.92	3.85	31.35	4.57	33.50	4.93	35.65	5.31	39.84	6.02	40.68	6.12
	18(64.4)	22.61	3.23	26.92	3.92	31.35	4.65	33.50	5.02	35.65	5.41	39.36	6.22	40.20	6.27
	20(68)	22.61	3.29	26.92	4.00	31.35	4.79	33.50	5.28	35.65	5.80	38.76	6.52	39.60	6.57
	21(69.8)	22.61	3.32	26.92	4.04	31.35	4.97	33.50	5.47	35.65	6.00	38.53	6.67	39.36	6.73
	23(73.4)	22.61	3.40	26.92	4.31	31.35	5.32	33.50	5.86	35.65	6.43	38.05	6.97	38.76	7.03
	25(77)	22.61	3.63	26.92	4.60	31.35	5.69	33.50	6.28	35.65	6.89	37.45	7.28	38.28	7.34
	27(80.6)	22.61	3.87	26.92	4.91	31.35	6.08	33.50	6.71	35.65	7.37	36.85	7.58	37.69	7.65
	29(84.2)	22.61	4.12	26.92	5.24	31.35	6.49	33.50	7.17	35.53	7.83	36.37	7.90	37.21	7.96
	31(87.8)	22.61	4.39	26.92	5.59	31.35	6.93	33.50	7.65	35.05	8.14	35.77	8.20	36.61	8.28
	33(91.4)	22.61	4.66	26.92	5.95	31.35	7.38	33.50	8.17	34.46	8.44	35.30	8.51	36.13	8.59
35(95)	22.61	4.95	26.92	6.33	31.35	7.88	33.50	8.71	33.86	8.74	34.70	8.83	35.53	8.90	
37(98.6)	22.61	5.27	26.92	6.74	31.35	8.39	32.90	9.01	33.38	9.06	34.22	9.14	34.94	9.22	
39(102.2)	22.61	5.60	26.92	7.16	31.35	8.93	32.42	9.32	32.78	9.37	33.62	9.45	34.46	9.54	
41(105.8)	22.61	5.86	26.92	7.42	31.35	9.26	31.92	9.39	32.53	9.51	33.23	9.67	33.96	9.74	
43(109.4)	22.61	6.12	26.92	7.68	31.35	9.43	31.42	9.49	32.29	9.60	33.03	9.74	33.36	9.85	
45(113)	22.61	6.47	26.92	8.03	31.35	9.59	31.39	9.63	32.13	9.78	32.69	9.88	32.96	9.98	
48(118.4)	22.61	6.99	26.92	8.55	31.35	9.76	31.36	9.89	32.08	10.15	32.42	10.17	32.76	10.24	

Cooling capacity table

MV5-X335W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	20.34	2.42	24.29	2.90	28.24	3.42	30.15	3.74	32.06	3.97	36.01	4.57	39.96	5.23
	-2(28.4)	20.34	2.44	24.29	2.93	28.24	3.47	30.15	3.79	32.06	4.02	36.01	4.61	39.96	5.28
	0(32)	20.34	2.48	24.29	2.97	28.24	3.52	30.15	3.83	32.06	4.07	36.01	4.67	39.96	5.32
	2(35.6)	20.34	2.52	24.29	3.01	28.24	3.56	30.15	3.89	32.06	4.14	36.01	4.76	39.96	5.40
	4(39.2)	20.34	2.55	24.29	3.05	28.24	3.62	30.15	3.94	32.06	4.19	36.01	4.84	39.96	5.48
	6(42.8)	20.34	2.59	24.29	3.11	28.24	3.68	30.15	4.02	32.06	4.26	36.01	4.91	39.96	5.57
	8(46.4)	20.34	2.64	24.29	3.17	28.24	3.76	30.15	4.07	32.06	4.34	36.01	5.00	39.96	5.63
	10(50)	20.34	2.69	24.29	3.24	28.24	3.83	30.15	4.13	32.06	4.44	36.01	5.07	39.96	5.72
	12(53.6)	20.34	2.73	24.29	3.30	28.24	3.90	30.15	4.20	32.06	4.52	36.01	5.16	39.96	5.82
	14(57.2)	20.34	2.78	24.29	3.36	28.24	3.97	30.15	4.28	32.06	4.60	36.01	5.26	39.96	5.93
	16(60.8)	20.34	2.83	24.29	3.42	28.24	4.05	30.15	4.37	32.06	4.70	36.01	5.36	39.84	6.03
	18(64.4)	20.34	2.88	24.29	3.49	28.24	4.12	30.15	4.45	32.06	4.79	36.01	5.47	39.36	6.22
	20(68)	20.34	2.93	24.29	3.57	28.24	4.20	30.15	4.54	32.06	4.97	36.01	5.88	38.76	6.51
	21(69.8)	20.34	2.96	24.29	3.59	28.24	4.27	30.15	4.70	32.06	5.14	36.01	6.09	38.53	6.67
	23(73.4)	20.34	3.02	24.29	3.73	28.24	4.58	30.15	5.04	32.06	5.52	36.01	6.54	37.93	6.97
	25(77)	20.34	3.18	24.29	3.99	28.24	4.89	30.15	5.39	32.06	5.89	36.01	7.00	37.45	7.28
	27(80.6)	20.34	3.38	24.29	4.25	28.24	5.22	30.15	5.75	32.06	6.30	36.01	7.49	36.85	7.58
	29(84.2)	20.34	3.60	24.29	4.53	28.24	5.58	30.15	6.14	32.06	6.74	35.65	7.83	36.37	7.89
	31(87.8)	20.34	3.83	24.29	4.82	28.24	5.94	30.15	6.55	32.06	7.18	35.06	8.13	35.77	8.20
	33(91.4)	20.34	4.06	24.29	5.13	28.24	6.34	30.15	6.98	32.06	7.67	34.58	8.45	35.29	8.51
35(95)	20.34	4.32	24.29	5.46	28.24	6.75	30.15	7.44	32.06	8.17	33.98	8.76	34.70	8.83	
37(98.6)	20.34	4.58	24.29	5.80	28.24	7.18	30.15	7.92	32.06	8.71	33.38	9.06	34.22	9.13	
39(102.2)	20.34	4.86	24.29	6.17	28.24	7.64	30.15	8.44	32.06	9.27	32.90	9.38	33.62	9.45	
41(105.8)	20.34	5.03	24.29	6.45	28.24	7.92	30.15	8.66	32.06	9.33	32.67	9.62	33.39	9.67	
43(109.4)	20.34	5.27	24.29	6.73	28.24	8.20	30.15	8.89	32.06	9.53	32.51	9.74	33.11	9.82	
45(113)	20.34	5.60	24.29	7.07	28.24	8.53	30.15	9.18	32.06	9.79	32.32	9.84	32.60	9.95	
48(118.4)	20.34	6.05	24.29	7.51	28.24	8.98	30.15	9.63	32.06	10.01	32.20	10.04	32.35	10.12	
80%	-5(23)	18.07	2.13	21.54	2.52	25.00	2.98	26.80	3.17	28.60	3.42	32.06	3.95	35.53	4.51
	-2(28.4)	18.07	2.16	21.54	2.55	25.00	3.01	26.80	3.22	28.60	3.45	32.06	3.99	35.53	4.55
	0(32)	18.07	2.20	21.54	2.58	25.00	3.05	26.80	3.26	28.60	3.51	32.06	4.04	35.53	4.61
	2(35.6)	18.07	2.24	21.54	2.62	25.00	3.09	26.80	3.32	28.60	3.57	32.06	4.12	35.53	4.70
	4(39.2)	18.07	2.28	21.54	2.66	25.00	3.15	26.80	3.40	28.60	3.64	32.06	4.20	35.53	4.76
	6(42.8)	18.07	2.32	21.54	2.73	25.00	3.20	26.80	3.47	28.60	3.70	32.06	4.26	35.53	4.85
	8(46.4)	18.07	2.36	21.54	2.79	25.00	3.27	26.80	3.53	28.60	3.79	32.06	4.33	35.53	4.94
	10(50)	18.07	2.38	21.54	2.85	25.00	3.36	26.80	3.62	28.60	3.87	32.06	4.43	35.53	4.99
	12(53.6)	18.07	2.42	21.54	2.90	25.00	3.42	26.80	3.69	28.60	3.96	32.06	4.51	35.53	5.08
	14(57.2)	18.07	2.47	21.54	2.96	25.00	3.47	26.80	3.74	28.60	4.03	32.06	4.59	35.53	5.18
	16(60.8)	18.07	2.50	21.54	3.01	25.00	3.54	26.80	3.82	28.60	4.10	32.06	4.68	35.53	5.27
	18(64.4)	18.07	2.55	21.54	3.06	25.00	3.62	26.80	3.90	28.60	4.18	32.06	4.78	35.53	5.38
	20(68)	18.07	2.59	21.54	3.12	25.00	3.69	26.80	3.97	28.60	4.26	32.06	4.95	35.53	5.75
	21(69.8)	18.07	2.62	21.54	3.15	25.00	3.72	26.80	4.01	28.60	4.36	32.06	5.13	35.53	5.96
	23(73.4)	18.07	2.66	21.54	3.22	25.00	3.90	26.80	4.27	28.60	4.66	32.06	5.49	35.53	6.40
	25(77)	18.07	2.75	21.54	3.42	25.00	4.17	26.80	4.57	28.60	4.98	32.06	5.88	35.53	6.84
	27(80.6)	18.07	2.92	21.54	3.64	25.00	4.44	26.80	4.87	28.60	5.32	32.06	6.28	35.53	7.32
	29(84.2)	18.07	3.11	21.54	3.87	25.00	4.73	26.80	5.19	28.60	5.68	32.06	6.70	35.53	7.83
	31(87.8)	18.07	3.30	21.54	4.12	25.00	5.04	26.80	5.53	28.60	6.06	32.06	7.16	34.94	8.14
	33(91.4)	18.07	3.51	21.54	4.38	25.00	5.36	26.80	5.89	28.60	6.44	32.06	7.63	34.46	8.44
35(95)	18.07	3.72	21.54	4.66	25.00	5.71	26.80	6.27	28.60	6.87	32.06	8.14	33.86	8.75	
37(98.6)	18.07	3.94	21.54	4.94	25.00	6.07	26.80	6.68	28.60	7.31	32.06	8.68	33.38	9.05	
39(102.2)	18.07	4.18	21.54	5.27	25.00	6.46	26.80	7.10	28.60	7.78	32.06	9.24	32.78	9.37	
41(105.8)	18.07	4.27	21.54	5.32	25.00	6.55	26.80	7.29	28.60	7.92	32.06	9.47	32.58	9.53	
43(109.4)	18.07	4.40	21.54	5.36	25.00	6.64	26.80	7.42	28.60	8.03	32.06	9.58	32.38	9.63	
45(113)	18.07	4.52	21.54	5.43	25.00	6.77	26.80	7.57	28.60	8.17	32.06	9.69	31.98	9.79	
48(118.4)	18.07	4.62	21.54	5.52	25.00	6.97	26.80	7.85	28.60	8.40	32.06	9.91	31.71	10.13	

Cooling capacity table

MV5-X335W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	15.79	1.90	18.90	2.23	21.90	2.53	23.45	2.71	25.00	2.89	28.00	3.31	31.11	3.80
	-2(28.4)	15.79	1.92	18.90	2.24	21.90	2.54	23.45	2.76	25.00	2.94	28.00	3.36	31.11	3.86
	0(32)	15.79	1.93	18.90	2.27	21.90	2.60	23.45	2.81	25.00	3.00	28.00	3.43	31.11	3.91
	2(35.6)	15.79	1.94	18.90	2.28	21.90	2.64	23.45	2.87	25.00	3.05	28.00	3.50	31.11	3.97
	4(39.2)	15.79	1.96	18.90	2.34	21.90	2.70	23.45	2.92	25.00	3.12	28.00	3.56	31.11	4.07
	6(42.8)	15.79	2.00	18.90	2.38	21.90	2.76	23.45	3.01	25.00	3.19	28.00	3.62	31.11	4.14
	8(46.4)	15.79	2.03	18.90	2.45	21.90	2.82	23.45	3.06	25.00	3.26	28.00	3.73	31.11	4.22
	10(50)	15.79	2.07	18.90	2.49	21.90	2.90	23.45	3.12	25.00	3.35	28.00	3.80	31.11	4.27
	12(53.6)	15.79	2.12	18.90	2.52	21.90	2.96	23.45	3.18	25.00	3.40	28.00	3.87	31.11	4.36
	14(57.2)	15.79	2.16	18.90	2.57	21.90	3.01	23.45	3.23	25.00	3.46	28.00	3.94	31.11	4.44
	16(60.8)	15.79	2.20	18.90	2.62	21.90	3.06	23.45	3.30	25.00	3.53	28.00	4.01	31.11	4.52
	18(64.4)	15.79	2.23	18.90	2.66	21.90	3.12	23.45	3.36	25.00	3.59	28.00	4.10	31.11	4.61
	20(68)	15.79	2.27	18.90	2.71	21.90	3.18	23.45	3.42	25.00	3.66	28.00	4.18	31.11	4.74
	21(69.8)	15.79	2.29	18.90	2.74	21.90	3.20	23.45	3.45	25.00	3.70	28.00	4.24	31.11	4.91
	23(73.4)	15.79	2.32	18.90	2.78	21.90	3.28	23.45	3.57	25.00	3.89	28.00	4.54	31.11	5.26
	25(77)	15.79	2.37	18.90	2.90	21.90	3.49	23.45	3.82	25.00	4.14	28.00	4.86	31.11	5.62
	27(80.6)	15.79	2.51	18.90	3.09	21.90	3.72	23.45	4.06	25.00	4.43	28.00	5.19	31.11	6.01
	29(84.2)	15.79	2.66	18.90	3.28	21.90	3.96	23.45	4.33	25.00	4.71	28.00	5.53	31.11	6.42
	31(87.8)	15.79	2.82	18.90	3.47	21.90	4.21	23.45	4.60	25.00	5.01	28.00	5.89	31.11	6.84
	33(91.4)	15.79	2.99	18.90	3.70	21.90	4.48	23.45	4.90	25.00	5.34	28.00	6.28	31.11	7.30
35(95)	15.79	3.17	18.90	3.92	21.90	4.75	23.45	5.21	25.00	5.68	28.00	6.69	31.11	7.78	
37(98.6)	15.79	3.35	18.90	4.16	21.90	5.06	23.45	5.53	25.00	6.05	28.00	7.13	31.11	8.29	
39(102.2)	15.79	3.55	18.90	4.40	21.90	5.36	23.45	5.88	25.00	6.42	28.00	7.57	31.11	8.83	
41(105.8)	15.79	3.70	18.90	4.56	21.90	5.52	23.45	6.08	25.00	6.62	28.00	7.88	31.11	9.22	
43(109.4)	15.79	4.00	18.90	4.87	21.90	5.75	23.45	6.40	25.00	6.81	28.00	8.17	31.11	9.51	
45(113)	15.79	4.09	18.90	4.98	21.90	5.87	23.45	6.51	25.00	7.15	28.00	8.61	31.11	9.87	
48(118.4)	15.79	4.36	18.90	5.29	21.90	6.23	23.45	6.82	25.00	7.36	28.00	8.87	31.11	10.08	
60%	-5(23)	13.52	1.62	16.15	1.88	18.78	2.19	20.10	2.34	21.42	2.52	24.05	2.83	26.68	3.25
	-2(28.4)	13.52	1.63	16.15	1.91	18.78	2.23	20.10	2.37	21.42	2.55	24.05	2.88	26.68	3.27
	0(32)	13.52	1.66	16.15	1.94	18.78	2.26	20.10	2.40	21.42	2.59	24.05	2.92	26.68	3.31
	2(35.6)	13.52	1.69	16.15	1.98	18.78	2.30	20.10	2.45	21.42	2.63	24.05	2.98	26.68	3.36
	4(39.2)	13.52	1.73	16.15	2.02	18.78	2.35	20.10	2.48	21.42	2.67	24.05	3.03	26.68	3.40
	6(42.8)	13.52	1.75	16.15	2.06	18.78	2.39	20.10	2.53	21.42	2.72	24.05	3.09	26.68	3.48
	8(46.4)	13.52	1.78	16.15	2.09	18.78	2.44	20.10	2.58	21.42	2.77	24.05	3.14	26.68	3.54
	10(50)	13.52	1.82	16.15	2.14	18.78	2.48	20.10	2.65	21.42	2.83	24.05	3.20	26.68	3.59
	12(53.6)	13.52	1.85	16.15	2.17	18.78	2.52	20.10	2.70	21.42	2.88	24.05	3.26	26.68	3.65
	14(57.2)	13.52	1.88	16.15	2.21	18.78	2.56	20.10	2.75	21.42	2.93	24.05	3.32	26.68	3.72
	16(60.8)	13.52	1.90	16.15	2.24	18.78	2.61	20.10	2.79	21.42	2.98	24.05	3.38	26.68	3.79
	18(64.4)	13.52	1.94	16.15	2.28	18.78	2.65	20.10	2.84	21.42	3.04	24.05	3.44	26.68	3.86
	20(68)	13.52	1.96	16.15	2.32	18.78	2.70	20.10	2.90	21.42	3.10	24.05	3.51	26.68	3.94
	21(69.8)	13.52	1.98	16.15	2.34	18.78	2.72	20.10	2.92	21.42	3.12	24.05	3.54	26.68	3.98
	23(73.4)	13.52	2.01	16.15	2.38	18.78	2.77	20.10	2.98	21.42	3.18	24.05	3.69	26.68	4.24
	25(77)	13.52	2.04	16.15	2.42	18.78	2.88	20.10	3.12	21.42	3.38	24.05	3.93	26.68	4.52
	27(80.6)	13.52	2.12	16.15	2.57	18.78	3.06	20.10	3.33	21.42	3.60	24.05	4.19	26.68	4.82
	29(84.2)	13.52	2.24	16.15	2.72	18.78	3.26	20.10	3.54	21.42	3.84	24.05	4.47	26.68	5.15
	31(87.8)	13.52	2.38	16.15	2.89	18.78	3.46	20.10	3.77	21.42	4.08	24.05	4.75	26.68	5.48
	33(91.4)	13.52	2.51	16.15	3.06	18.78	3.67	20.10	4.00	21.42	4.34	24.05	5.06	26.68	5.84
35(95)	13.52	2.66	16.15	3.25	18.78	3.90	20.10	4.25	21.42	4.61	24.05	5.39	26.68	6.22	
37(98.6)	13.52	2.82	16.15	3.44	18.78	4.13	20.10	4.51	21.42	4.89	24.05	5.73	26.68	6.62	
39(102.2)	13.52	2.97	16.15	3.64	18.78	4.38	20.10	4.78	21.42	5.20	24.05	6.08	26.68	7.04	
41(105.8)	13.52	3.07	16.15	3.80	18.78	4.54	20.10	4.97	21.42	5.39	24.05	6.37	26.68	7.36	
43(109.4)	13.52	3.16	16.15	3.96	18.78	4.70	20.10	5.12	21.42	5.58	24.05	6.64	26.68	7.68	
45(113)	13.52	3.31	16.15	4.16	18.78	4.89	20.10	5.31	21.42	5.86	24.05	6.93	26.68	8.10	
48(118.4)	13.52	3.56	16.15	4.43	18.78	5.14	20.10	5.63	21.42	6.31	24.05	7.30	26.68	8.74	

Cooling capacity table

MV5-X335W/V2GN1

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	11.31	1.41	13.52	1.63	15.67	1.87	16.75	1.96	17.83	2.07	19.98	2.35	22.25	2.54
	-2(28.4)	11.31	1.42	13.52	1.66	15.67	1.89	16.75	1.99	17.83	2.11	19.98	2.38	22.25	2.57
	0(32)	11.31	1.44	13.52	1.69	15.67	1.93	16.75	2.01	17.83	2.13	19.98	2.42	22.25	2.61
	2(35.6)	11.31	1.46	13.52	1.71	15.67	1.96	16.75	2.05	17.83	2.17	19.98	2.43	22.25	2.66
	4(39.2)	11.31	1.48	13.52	1.74	15.67	1.98	16.75	2.07	17.83	2.21	19.98	2.49	22.25	2.73
	6(42.8)	11.31	1.51	13.52	1.77	15.67	2.01	16.75	2.12	17.83	2.25	19.98	2.53	22.25	2.81
	8(46.4)	11.31	1.54	13.52	1.80	15.67	2.05	16.75	2.16	17.83	2.28	19.98	2.57	22.25	2.90
	10(50)	11.31	1.57	13.52	1.82	15.67	2.08	16.75	2.20	17.83	2.35	19.98	2.64	22.25	2.95
	12(53.6)	11.31	1.58	13.52	1.84	15.67	2.11	16.75	2.24	17.83	2.39	19.98	2.69	22.25	2.99
	14(57.2)	11.31	1.61	13.52	1.87	15.67	2.14	16.75	2.29	17.83	2.43	19.98	2.73	22.25	3.05
	16(60.8)	11.31	1.63	13.52	1.89	15.67	2.17	16.75	2.32	17.83	2.46	19.98	2.78	22.25	3.10
	18(64.4)	11.31	1.66	13.52	1.92	15.67	2.21	16.75	2.36	17.83	2.51	19.98	2.83	22.25	3.16
	20(68)	11.31	1.68	13.52	1.95	15.67	2.24	16.75	2.39	17.83	2.56	19.98	2.88	22.25	3.22
	21(69.8)	11.31	1.69	13.52	1.97	15.67	2.27	16.75	2.42	17.83	2.58	19.98	2.91	22.25	3.25
	23(73.4)	11.31	1.71	13.52	2.00	15.67	2.30	16.75	2.46	17.83	2.63	19.98	2.96	22.25	3.32
	25(77)	11.31	1.74	13.52	2.03	15.67	2.35	16.75	2.51	17.83	2.71	19.98	3.11	22.25	3.54
	27(80.6)	11.31	1.77	13.52	2.11	15.67	2.48	16.75	2.68	17.83	2.88	19.98	3.31	22.25	3.78
	29(84.2)	11.31	1.87	13.52	2.23	15.67	2.63	16.75	2.84	17.83	3.06	19.98	3.52	22.25	4.03
	31(87.8)	11.31	1.97	13.52	2.36	15.67	2.78	16.75	3.02	17.83	3.25	19.98	3.74	22.25	4.28
	33(91.4)	11.31	2.09	13.52	2.50	15.67	2.96	16.75	3.19	17.83	3.45	19.98	3.98	22.25	4.55
35(95)	11.31	2.21	13.52	2.64	15.67	3.12	16.75	3.38	17.83	3.65	19.98	4.23	22.25	4.84	
37(98.6)	11.31	2.32	13.52	2.79	15.67	3.31	16.75	3.58	17.83	3.87	19.98	4.48	22.25	5.14	
39(102.2)	11.31	2.45	13.52	2.95	15.67	3.50	16.75	3.79	17.83	4.11	19.98	4.75	22.25	5.46	
41(105.8)	11.31	2.55	13.52	3.07	15.67	3.62	16.75	3.97	17.83	4.29	19.98	5.01	22.25	5.71	
43(109.4)	11.31	2.72	13.52	3.28	15.67	3.75	16.75	4.15	17.83	4.40	19.98	5.26	22.25	5.96	
45(113)	11.31	2.79	13.52	3.37	15.67	4.00	16.75	4.47	17.83	4.58	19.98	5.77	22.25	6.47	
48(118.4)	11.31	2.97	13.52	3.62	15.67	4.17	16.75	4.67	17.83	4.72	19.98	6.11	22.25	6.81	

Cooling capacity table

MV5-X400W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	-5(23)	35.14	4.42	41.86	5.39	48.57	5.78	50.43	6.02	52.85	6.19	54.14	6.73	55.50	6.77
	-2(28.4)	35.14	4.42	41.86	5.50	48.57	5.78	50.43	6.05	52.85	6.19	54.14	6.81	55.50	6.84
	0(32)	35.14	4.49	41.86	5.59	48.57	5.99	50.43	6.38	52.85	6.55	54.14	6.90	55.50	6.93
	2(35.6)	35.14	4.58	41.86	5.61	48.57	6.20	50.43	6.74	52.85	6.62	54.14	6.95	55.50	7.03
	4(39.2)	35.14	4.68	41.86	5.71	48.57	6.41	50.43	6.77	52.85	6.71	54.14	6.94	55.50	7.17
	6(42.8)	35.14	4.77	41.86	5.83	48.57	6.65	50.43	6.83	52.26	6.92	53.48	6.94	54.89	7.22
	8(46.4)	35.14	4.88	41.86	5.96	48.57	6.98	50.43	7.16	51.62	7.14	52.90	3.90	54.19	7.29
	10(50)	35.14	4.98	41.86	6.09	48.57	7.24	50.43	7.40	51.00	4.04	52.28	4.06	53.57	7.50
	12(53.6)	35.14	5.07	41.86	6.21	48.57	7.39	49.71	4.03	50.43	4.06	51.57	4.07	52.86	7.55
	14(57.2)	35.14	5.17	41.86	6.32	48.43	4.05	49.14	4.06	49.71	4.08	51.00	4.09	52.28	7.72
	16(60.8)	35.14	5.26	41.86	6.45	47.86	4.06	48.43	4.08	49.00	4.10	50.28	4.12	51.57	7.84
	18(64.4)	35.14	5.36	41.86	6.59	47.14	7.72	47.71	7.77	48.43	7.81	49.71	7.88	51.00	7.96
	20(68)	35.14	5.48	41.86	7.01	46.43	8.10	47.14	8.14	47.71	8.19	49.00	8.26	50.28	8.35
	21(69.8)	35.14	5.62	41.86	7.26	46.14	8.29	46.85	8.33	47.43	8.38	48.71	8.47	50.00	8.54
	23(73.4)	35.14	6.03	41.86	7.78	45.57	8.67	46.14	8.71	46.71	8.76	48.00	8.84	49.28	8.93
	25(77)	35.14	6.44	41.86	8.33	44.85	9.05	45.43	9.09	46.14	9.15	47.43	9.24	48.71	9.32
	27(80.6)	35.14	6.88	41.86	8.92	44.28	9.43	44.85	9.48	45.43	9.53	46.71	9.63	48.00	9.73
	29(84.2)	35.14	7.34	41.86	9.53	43.57	9.81	44.14	9.86	44.85	9.92	46.14	10.02	47.43	10.13
	31(87.8)	35.14	7.84	41.71	10.08	42.85	10.20	43.57	10.26	44.14	10.30	45.43	10.42	46.71	10.53
	33(91.4)	35.14	8.35	41.00	10.46	42.28	10.58	42.85	10.64	43.57	10.69	44.85	10.81	46.00	10.93
35(95)	35.14	8.90	40.28	10.84	41.57	10.97	42.28	11.03	42.85	11.09	44.14	11.22	45.43	11.33	
37(98.6)	35.14	9.47	39.71	11.23	41.00	11.36	41.57	11.42	42.28	11.50	43.43	11.63	44.71	11.76	
39(102.2)	35.14	10.08	39.00	11.35	40.28	11.74	41.00	11.82	41.57	11.89	42.85	12.02	44.14	12.17	
41(105.8)	35.14	10.61	38.60	11.46	39.86	11.85	40.58	11.93	41.15	12.00	42.43	12.04	42.45	12.28	
43(109.4)	35.14	10.88	38.31	11.52	39.65	11.89	40.36	11.98	40.72	12.02	41.66	12.07	41.94	12.30	
45(113)	35.14	11.42	38.07	11.63	39.23	12.00	39.94	12.06	40.13	12.07	40.53	12.11	41.12	12.53	
48(118.4)	35.14	12.23	37.95	11.79	38.59	12.23	39.31	12.12	39.62	12.19	39.45	12.18	40.17	13.15	
120%	-5(23)	32.43	4.27	38.57	5.17	44.86	6.11	48.00	6.67	50.29	6.95	51.43	7.17	52.57	7.36
	-2(28.4)	32.43	4.31	38.57	5.22	44.86	6.17	48.00	6.71	50.29	7.03	51.43	7.23	52.57	7.39
	0(32)	32.43	4.35	38.57	5.26	44.86	6.24	48.00	6.72	50.29	7.09	51.43	7.27	52.57	7.40
	2(35.6)	32.43	4.36	38.57	5.31	44.86	6.29	48.00	6.79	50.29	7.12	51.43	7.33	52.57	7.42
	4(39.2)	32.43	4.40	38.57	5.38	44.86	6.38	48.00	6.85	50.29	7.22	51.43	7.34	52.57	7.44
	6(42.8)	32.43	4.45	38.57	5.42	44.86	6.45	48.00	6.92	50.29	7.29	51.43	7.40	52.57	7.46
	8(46.4)	32.43	4.49	38.57	5.48	44.86	6.54	48.00	7.01	50.29	7.37	51.43	7.43	52.57	7.50
	10(50)	32.43	4.55	38.57	5.55	44.86	6.60	48.00	7.14	50.29	7.37	51.43	7.45	52.57	7.53
	12(53.6)	32.43	4.63	38.57	5.65	44.86	6.73	48.00	7.27	49.57	7.40	50.71	7.41	51.86	7.58
	14(57.2)	32.43	4.72	38.57	5.77	44.86	6.86	48.00	7.42	48.86	7.45	50.14	7.52	51.28	7.67
	16(60.8)	32.43	4.81	38.57	5.89	44.86	6.99	47.71	4.10	48.28	7.56	49.43	7.65	50.57	7.79
	18(64.4)	32.43	4.90	38.57	6.00	44.86	7.23	47.00	7.72	47.57	7.75	48.72	7.82	50.00	7.90
	20(68)	32.43	5.00	38.57	6.24	44.86	7.78	46.43	8.10	47.00	8.13	48.14	8.20	49.29	8.28
	21(69.8)	32.43	5.04	38.57	6.45	44.86	8.06	46.00	8.29	46.57	8.32	47.86	8.39	49.00	8.48
	23(73.4)	32.43	5.39	38.57	6.92	44.86	8.62	45.43	8.65	46.00	8.70	47.14	8.79	48.28	8.86
	25(77)	32.43	5.76	38.57	7.40	44.14	9.00	44.71	9.03	45.28	9.08	46.57	9.16	47.71	9.25
	27(80.6)	32.43	6.15	38.57	7.91	43.57	9.37	44.14	9.43	44.71	9.47	45.86	9.56	47.00	9.64
	29(84.2)	32.43	6.56	38.57	8.45	42.86	9.75	43.43	9.80	44.00	9.85	45.14	9.95	46.43	10.04
	31(87.8)	32.43	6.99	38.57	9.02	42.14	10.14	42.86	10.18	43.43	10.24	44.57	10.34	45.71	10.45
	33(91.4)	32.43	7.44	38.57	9.62	41.57	10.52	42.14	10.58	42.71	10.62	43.86	10.74	45.00	10.84
35(95)	32.43	7.93	38.57	10.26	40.86	10.90	41.43	10.96	42.14	11.01	43.28	11.13	44.43	11.25	
37(98.6)	32.43	8.43	38.57	10.93	40.28	11.29	40.86	11.35	41.43	11.41	42.57	11.52	43.71	11.65	
39(102.2)	32.43	8.97	38.43	11.54	39.57	11.67	40.14	11.74	40.72	11.80	42.00	11.93	43.14	12.05	
41(105.8)	32.43	9.22	38.12	11.62	39.26	11.75	39.83	11.82	40.40	11.88	41.69	11.96	41.90	12.14	
43(109.4)	32.43	9.36	37.91	11.70	38.95	11.82	39.52	11.87	40.09	11.93	40.96	12.00	41.25	12.38	
45(113)	32.43	9.47	37.71	11.81	38.58	11.93	39.11	11.98	39.74	12.02	40.14	12.04	40.84	12.65	
48(118.4)	32.43	9.63	37.39	11.98	38.08	12.08	38.49	12.13	39.31	12.25	39.51	12.26	40.30	12.82	

Cooling capacity table

MV5-X400W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	29.71	3.73	35.43	4.64	41.14	5.54	44.00	5.94	46.86	6.39	50.43	6.64	51.57	6.85
	-2(28.4)	29.71	3.80	35.43	4.70	41.14	5.58	44.00	6.00	46.86	6.44	50.43	6.71	51.57	6.88
	0(32)	29.71	3.84	35.43	4.73	41.14	5.63	44.00	6.04	46.86	6.52	50.43	6.77	51.57	6.97
	2(35.6)	29.71	3.92	35.43	4.77	41.14	5.71	44.00	6.11	46.86	6.59	50.43	6.87	51.57	7.05
	4(39.2)	29.71	4.00	35.43	4.83	41.14	5.77	44.00	6.18	46.86	6.69	50.43	6.97	51.57	7.12
	6(42.8)	29.71	4.04	35.43	4.88	41.14	5.82	44.00	6.28	46.86	6.76	50.43	7.04	51.57	7.23
	8(46.4)	29.71	4.07	35.43	4.96	41.14	5.89	44.00	6.35	46.86	6.84	50.43	7.09	51.57	7.30
	10(50)	29.71	4.12	35.43	5.03	41.14	5.97	44.00	6.45	46.86	6.95	50.43	7.14	51.57	7.37
	12(53.6)	29.71	4.21	35.43	5.13	41.14	6.09	44.00	6.59	46.86	7.08	49.86	7.24	50.86	7.46
	14(57.2)	29.71	4.28	35.43	5.22	41.14	6.21	44.00	6.70	46.86	7.21	49.14	7.30	50.29	7.52
	16(60.8)	29.71	4.36	35.43	5.32	41.14	6.32	44.00	6.83	46.86	7.36	48.57	7.39	49.57	7.60
	18(64.4)	29.71	4.44	35.43	5.42	41.14	6.45	44.00	7.02	46.86	7.71	47.86	7.77	49.00	7.84
	20(68)	29.71	4.53	35.43	5.54	41.14	6.83	44.00	7.55	46.14	8.09	47.29	8.14	48.29	8.22
	21(69.8)	29.71	4.57	35.43	5.70	41.14	7.08	44.00	7.82	45.86	8.28	46.86	8.33	48.00	8.41
	23(73.4)	29.71	4.79	35.43	6.10	41.14	7.59	44.00	8.39	45.15	8.64	46.29	8.73	47.29	8.80
	25(77)	29.71	5.11	35.43	6.53	41.14	8.11	44.00	8.99	44.57	9.02	45.57	9.11	46.71	9.18
	27(80.6)	29.71	5.45	35.43	6.98	41.14	8.68	43.29	9.37	43.86	9.40	45.00	9.48	46.00	9.57
	29(84.2)	29.71	5.81	35.43	7.45	41.14	9.28	42.72	9.75	43.29	9.79	44.29	9.88	45.43	9.97
	31(87.8)	29.71	6.19	35.43	7.94	41.14	9.91	42.00	10.13	42.57	10.17	43.72	10.26	44.71	10.36
	33(91.4)	29.71	6.59	35.43	8.47	40.86	10.45	41.43	10.50	42.00	10.55	43.00	10.65	44.14	10.75
35(95)	29.71	7.01	35.43	9.02	40.15	10.82	40.72	10.88	41.29	10.94	42.29	11.04	43.43	11.15	
37(98.6)	29.71	7.46	35.43	9.60	39.57	11.22	40.15	11.26	40.57	11.32	41.72	11.44	42.72	11.54	
39(102.2)	29.71	7.93	35.43	10.23	38.86	11.60	39.43	11.66	40.00	11.71	41.00	11.83	42.15	11.95	
41(105.8)	29.71	8.01	35.43	10.31	38.55	11.68	39.12	11.74	39.70	11.80	40.48	11.91	40.88	12.03	
43(109.4)	29.71	8.09	35.43	10.44	38.25	11.76	38.82	11.82	39.39	11.88	40.12	11.96	40.25	12.27	
45(113)	29.71	8.35	35.43	10.50	37.86	11.87	38.41	11.96	39.04	11.99	39.71	12.28	39.87	12.56	
48(118.4)	29.71	8.56	35.43	10.66	37.31	12.03	37.80	12.15	38.60	12.22	39.06	12.76	39.36	13.21	
100%	-5(23)	27.00	3.39	32.14	4.09	37.43	4.86	40.00	5.21	42.57	5.65	47.86	6.44	50.57	6.72
	-2(28.4)	27.00	3.44	32.14	4.14	37.43	4.92	40.00	5.31	42.57	5.73	47.86	6.52	50.57	6.77
	0(32)	27.00	3.47	32.14	4.18	37.43	4.97	40.00	5.37	42.57	5.78	47.86	6.63	50.57	6.84
	2(35.6)	27.00	3.54	32.14	4.24	37.43	5.03	40.00	5.44	42.57	5.85	47.86	6.72	50.57	6.95
	4(39.2)	27.00	3.57	32.14	4.28	37.43	5.10	40.00	5.52	42.57	5.92	47.86	6.79	50.57	7.03
	6(42.8)	27.00	3.62	32.14	4.37	37.43	5.17	40.00	5.62	42.57	6.01	47.86	6.89	50.57	7.13
	8(46.4)	27.00	3.69	32.14	4.43	37.43	5.26	40.00	5.69	42.57	6.11	47.86	6.99	50.57	7.25
	10(50)	27.00	3.73	32.14	4.52	37.43	5.35	40.00	5.78	42.57	6.22	47.86	7.11	50.57	7.36
	12(53.6)	27.00	3.79	32.14	4.60	37.43	5.45	40.00	5.89	42.57	6.34	47.86	7.24	49.86	7.41
	14(57.2)	27.00	3.86	32.14	4.69	37.43	5.55	40.00	6.00	42.57	6.45	47.86	7.39	49.28	7.50
	16(60.8)	27.00	3.93	32.14	4.78	37.43	5.67	40.00	6.12	42.57	6.59	47.57	7.47	48.57	7.59
	18(64.4)	27.00	4.01	32.14	4.87	37.43	5.77	40.00	6.24	42.57	6.72	47.00	7.72	48.00	7.78
	20(68)	27.00	4.08	32.14	4.97	37.43	5.94	40.00	6.56	42.57	7.20	46.28	8.09	47.28	8.16
	21(69.8)	27.00	4.12	32.14	5.01	37.43	6.16	40.00	6.79	42.57	7.44	46.00	8.28	47.00	8.35
	23(73.4)	27.00	4.22	32.14	5.35	37.43	6.60	40.00	7.27	42.57	7.98	45.43	8.65	46.28	8.73
	25(77)	27.00	4.50	32.14	5.71	37.43	7.07	40.00	7.79	42.57	8.55	44.72	9.03	45.71	9.11
	27(80.6)	27.00	4.81	32.14	6.09	37.43	7.55	40.00	8.33	42.57	9.15	44.00	9.41	45.00	9.50
	29(84.2)	27.00	5.11	32.14	6.50	37.43	8.06	40.00	8.90	42.43	9.72	43.43	9.80	44.43	9.88
	31(87.8)	27.00	5.45	32.14	6.93	37.43	8.60	40.00	9.50	41.86	10.10	42.72	10.18	43.71	10.27
	33(91.4)	27.00	5.78	32.14	7.39	37.43	9.16	40.00	10.14	41.14	10.47	42.14	10.56	43.14	10.66
35(95)	27.00	6.15	32.14	7.85	37.43	9.78	40.00	10.81	40.43	10.85	41.43	10.95	42.43	11.04	
37(98.6)	27.00	6.54	32.14	8.36	37.43	10.42	39.28	11.19	39.86	11.25	40.86	11.35	41.72	11.44	
39(102.2)	27.00	6.95	32.14	8.89	37.43	11.09	38.71	11.57	39.14	11.63	40.14	11.73	41.14	11.84	
41(105.8)	27.00	7.27	32.14	9.21	37.43	11.49	38.11	11.65	38.84	11.80	39.68	12.00	40.54	12.09	
43(109.4)	27.00	7.60	32.14	9.54	37.43	11.71	37.51	11.78	38.56	11.92	39.44	12.08	39.83	12.22	
45(113)	27.00	8.03	32.14	9.97	37.43	11.90	37.48	11.95	38.36	12.13	39.03	12.27	39.35	12.39	
48(118.4)	27.00	8.68	32.14	10.62	37.43	12.11	37.45	12.27	38.30	12.59	38.71	12.62	39.11	12.71	

Cooling capacity table

MV5-X400W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	24.29	3.00	29.00	3.60	33.71	4.25	36.00	4.64	38.29	4.93	43.00	5.67	47.71	6.49
	-2(28.4)	24.29	3.03	29.00	3.64	33.71	4.30	36.00	4.70	38.29	4.99	43.00	5.73	47.71	6.56
	0(32)	24.29	3.08	29.00	3.69	33.71	4.37	36.00	4.76	38.29	5.06	43.00	5.79	47.71	6.61
	2(35.6)	24.29	3.12	29.00	3.73	33.71	4.41	36.00	4.83	38.29	5.14	43.00	5.91	47.71	6.71
	4(39.2)	24.29	3.17	29.00	3.79	33.71	4.49	36.00	4.90	38.29	5.20	43.00	6.00	47.71	6.80
	6(42.8)	24.29	3.21	29.00	3.86	33.71	4.57	36.00	4.99	38.29	5.29	43.00	6.10	47.71	6.92
	8(46.4)	24.29	3.27	29.00	3.93	33.71	4.67	36.00	5.05	38.29	5.38	43.00	6.21	47.71	6.98
	10(50)	24.29	3.34	29.00	4.02	33.71	4.75	36.00	5.13	38.29	5.51	43.00	6.29	47.71	7.09
	12(53.6)	24.29	3.39	29.00	4.09	33.71	4.84	36.00	5.21	38.29	5.61	43.00	6.41	47.71	7.23
	14(57.2)	24.29	3.45	29.00	4.17	33.71	4.92	36.00	5.32	38.29	5.71	43.00	6.53	47.71	7.36
	16(60.8)	24.29	3.51	29.00	4.24	33.71	5.03	36.00	5.42	38.29	5.83	43.00	6.66	47.57	7.49
	18(64.4)	24.29	3.57	29.00	4.33	33.71	5.11	36.00	5.52	38.29	5.94	43.00	6.79	47.00	7.72
	20(68)	24.29	3.64	29.00	4.43	33.71	5.22	36.00	5.64	38.29	6.16	43.00	7.30	46.29	8.09
	21(69.8)	24.29	3.67	29.00	4.46	33.71	5.30	36.00	5.83	38.29	6.38	43.00	7.56	46.00	8.27
	23(73.4)	24.29	3.74	29.00	4.63	33.71	5.68	36.00	6.25	38.29	6.85	43.00	8.11	45.28	8.65
	25(77)	24.29	3.95	29.00	4.95	33.71	6.07	36.00	6.69	38.29	7.31	43.00	8.68	44.72	9.03
	27(80.6)	24.29	4.20	29.00	5.27	33.71	6.48	36.00	7.14	38.29	7.82	43.00	9.29	44.00	9.41
	29(84.2)	24.29	4.47	29.00	5.62	33.71	6.92	36.00	7.62	38.29	8.36	42.57	9.72	43.43	9.79
	31(87.8)	24.29	4.75	29.00	5.99	33.71	7.37	36.00	8.13	38.29	8.92	41.86	10.10	42.71	10.18
	33(91.4)	24.29	5.04	29.00	6.37	33.71	7.87	36.00	8.67	38.29	9.51	41.28	10.49	42.14	10.56
35(95)	24.29	5.36	29.00	6.77	33.71	8.38	36.00	9.24	38.29	10.14	40.57	10.87	41.43	10.95	
37(98.6)	24.29	5.68	29.00	7.20	33.71	8.92	36.00	9.83	38.29	10.81	39.86	11.25	40.86	11.33	
39(102.2)	24.29	6.03	29.00	7.66	33.71	9.48	36.00	10.47	38.29	11.51	39.29	11.64	40.14	11.73	
41(105.8)	24.29	6.24	29.00	8.01	33.71	9.83	36.00	10.75	38.29	11.58	39.01	11.94	39.87	12.00	
43(109.4)	24.29	6.54	29.00	8.36	33.71	10.18	36.00	11.03	38.29	11.83	38.81	12.09	39.53	12.19	
45(113)	24.29	6.95	29.00	8.77	33.71	10.59	36.00	11.40	38.29	12.15	38.60	12.22	38.93	12.35	
48(118.4)	24.29	7.51	29.00	9.33	33.71	11.15	36.00	11.95	38.29	12.43	38.45	12.46	38.63	12.56	
80%	-5(23)	21.57	2.65	25.72	3.13	29.86	3.70	32.00	3.94	34.14	4.24	38.28	4.90	42.43	5.59
	-2(28.4)	21.57	2.68	25.72	3.17	29.86	3.73	32.00	4.00	34.14	4.28	38.28	4.95	42.43	5.65
	0(32)	21.57	2.73	25.72	3.21	29.86	3.78	32.00	4.05	34.14	4.36	38.28	5.02	42.43	5.73
	2(35.6)	21.57	2.79	25.72	3.25	29.86	3.84	32.00	4.12	34.14	4.43	38.28	5.12	42.43	5.83
	4(39.2)	21.57	2.83	25.72	3.31	29.86	3.91	32.00	4.22	34.14	4.51	38.28	5.21	42.43	5.91
	6(42.8)	21.57	2.88	25.72	3.38	29.86	3.97	32.00	4.31	34.14	4.60	38.28	5.29	42.43	6.01
	8(46.4)	21.57	2.93	25.72	3.46	29.86	4.06	32.00	4.38	34.14	4.70	38.28	5.37	42.43	6.13
	10(50)	21.57	2.96	25.72	3.54	29.86	4.17	32.00	4.49	34.14	4.81	38.28	5.49	42.43	6.19
	12(53.6)	21.57	3.00	25.72	3.60	29.86	4.24	32.00	4.57	34.14	4.91	38.28	5.59	42.43	6.31
	14(57.2)	21.57	3.06	25.72	3.67	29.86	4.31	32.00	4.65	34.14	5.00	38.28	5.70	42.43	6.42
	16(60.8)	21.57	3.10	25.72	3.73	29.86	4.40	32.00	4.73	34.14	5.08	38.28	5.81	42.43	6.54
	18(64.4)	21.57	3.16	25.72	3.80	29.86	4.49	32.00	4.84	34.14	5.19	38.28	5.93	42.43	6.67
	20(68)	21.57	3.22	25.72	3.88	29.86	4.57	32.00	4.92	34.14	5.29	38.28	6.15	42.43	7.14
	21(69.8)	21.57	3.25	25.72	3.90	29.86	4.62	32.00	4.98	34.14	5.41	38.28	6.37	42.43	7.40
	23(73.4)	21.57	3.31	25.72	3.99	29.86	4.84	32.00	5.30	34.14	5.78	38.28	6.82	42.43	7.94
	25(77)	21.57	3.41	25.72	4.24	29.86	5.17	32.00	5.67	34.14	6.18	38.28	7.30	42.43	8.49
	27(80.6)	21.57	3.63	25.72	4.52	29.86	5.51	32.00	6.05	34.14	6.60	38.28	7.79	42.43	9.09
	29(84.2)	21.57	3.86	25.72	4.81	29.86	5.87	32.00	6.44	34.14	7.05	38.28	8.32	42.43	9.72
	31(87.8)	21.57	4.09	25.72	5.11	29.86	6.25	32.00	6.86	34.14	7.52	38.28	8.89	41.72	10.10
	33(91.4)	21.57	4.36	25.72	5.43	29.86	6.66	32.00	7.31	34.14	8.00	38.28	9.47	41.14	10.47
35(95)	21.57	4.62	25.72	5.78	29.86	7.08	32.00	7.78	34.14	8.52	38.28	10.10	40.43	10.85	
37(98.6)	21.57	4.90	25.72	6.13	29.86	7.53	32.00	8.29	34.14	9.08	38.28	10.77	39.86	11.23	
39(102.2)	21.57	5.19	25.72	6.54	29.86	8.01	32.00	8.81	34.14	9.66	38.28	11.47	39.14	11.63	
41(105.8)	21.57	5.30	25.72	6.60	29.86	8.13	32.00	9.05	34.14	9.83	38.28	11.76	38.90	11.83	
43(109.4)	21.57	5.46	25.72	6.66	29.86	8.25	32.00	9.20	34.14	9.97	38.28	11.89	38.66	11.96	
45(113)	21.57	5.61	25.72	6.74	29.86	8.41	32.00	9.40	34.14	10.14	38.28	12.02	38.18	12.15	
48(118.4)	21.57	5.73	25.72	6.85	29.86	8.65	32.00	9.75	34.14	10.43	38.28	12.30	37.86	12.57	

Cooling capacity table

MV5-X400W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	18.86	2.36	22.57	2.77	26.14	3.14	28.00	3.36	29.86	3.59	33.43	4.11	37.14	4.72
	-2(28.4)	18.86	2.38	22.57	2.78	26.14	3.16	28.00	3.43	29.86	3.65	33.43	4.17	37.14	4.79
	0(32)	18.86	2.39	22.57	2.82	26.14	3.22	28.00	3.49	29.86	3.72	33.43	4.26	37.14	4.85
	2(35.6)	18.86	2.41	22.57	2.83	26.14	3.27	28.00	3.56	29.86	3.78	33.43	4.35	37.14	4.93
	4(39.2)	18.86	2.44	22.57	2.90	26.14	3.35	28.00	3.62	29.86	3.87	33.43	4.42	37.14	5.05
	6(42.8)	18.86	2.48	22.57	2.95	26.14	3.43	28.00	3.74	29.86	3.96	33.43	4.50	37.14	5.14
	8(46.4)	18.86	2.52	22.57	3.04	26.14	3.51	28.00	3.80	29.86	4.04	33.43	4.63	37.14	5.24
	10(50)	18.86	2.57	22.57	3.09	26.14	3.60	28.00	3.88	29.86	4.15	33.43	4.72	37.14	5.30
	12(53.6)	18.86	2.64	22.57	3.13	26.14	3.67	28.00	3.95	29.86	4.23	33.43	4.81	37.14	5.41
	14(57.2)	18.86	2.68	22.57	3.19	26.14	3.73	28.00	4.01	29.86	4.30	33.43	4.90	37.14	5.51
	16(60.8)	18.86	2.72	22.57	3.25	26.14	3.80	28.00	4.09	29.86	4.39	33.43	4.98	37.14	5.61
	18(64.4)	18.86	2.77	22.57	3.31	26.14	3.88	28.00	4.17	29.86	4.46	33.43	5.08	37.14	5.73
	20(68)	18.86	2.81	22.57	3.37	26.14	3.95	28.00	4.24	29.86	4.55	33.43	5.19	37.14	5.89
	21(69.8)	18.86	2.84	22.57	3.39	26.14	3.98	28.00	4.28	29.86	4.59	33.43	5.26	37.14	6.09
	23(73.4)	18.86	2.88	22.57	3.45	26.14	4.06	28.00	4.43	29.86	4.82	33.43	5.64	37.14	6.53
	25(77)	18.86	2.94	22.57	3.60	26.14	4.33	28.00	4.74	29.86	5.14	33.43	6.03	37.14	6.98
	27(80.6)	18.86	3.12	22.57	3.83	26.14	4.62	28.00	5.04	29.86	5.49	33.43	6.44	37.14	7.46
	29(84.2)	18.86	3.31	22.57	4.06	26.14	4.91	28.00	5.38	29.86	5.84	33.43	6.86	37.14	7.97
	31(87.8)	18.86	3.50	22.57	4.31	26.14	5.23	28.00	5.71	29.86	6.22	33.43	7.31	37.14	8.49
	33(91.4)	18.86	3.71	22.57	4.59	26.14	5.57	28.00	6.08	29.86	6.63	33.43	7.79	37.14	9.06
35(95)	18.86	3.93	22.57	4.87	26.14	5.90	28.00	6.47	29.86	7.05	33.43	8.30	37.14	9.66	
37(98.6)	18.86	4.15	22.57	5.16	26.14	6.28	28.00	6.86	29.86	7.50	33.43	8.84	37.14	10.29	
39(102.2)	18.86	4.40	22.57	5.46	26.14	6.66	28.00	7.30	29.86	7.97	33.43	9.40	37.14	10.96	
41(105.8)	18.86	4.59	22.57	5.66	26.14	6.85	28.00	7.54	29.86	8.21	33.43	9.79	37.14	11.44	
43(109.4)	18.86	4.97	22.57	6.05	26.14	7.13	28.00	7.95	29.86	8.45	33.43	10.14	37.14	11.80	
45(113)	18.86	5.08	22.57	6.18	26.14	7.28	28.00	8.08	29.86	8.88	33.43	10.69	37.14	12.25	
48(118.4)	18.86	5.41	22.57	6.56	26.14	7.73	28.00	8.46	29.86	9.13	33.43	11.01	37.14	12.51	
60%	-5(23)	16.14	2.01	19.29	2.34	22.43	2.72	24.00	2.90	25.57	3.13	28.71	3.52	31.86	4.03
	-2(28.4)	16.14	2.02	19.29	2.37	22.43	2.77	24.00	2.94	25.57	3.16	28.71	3.57	31.86	4.06
	0(32)	16.14	2.06	19.29	2.40	22.43	2.81	24.00	2.98	25.57	3.22	28.71	3.62	31.86	4.11
	2(35.6)	16.14	2.09	19.29	2.46	22.43	2.86	24.00	3.04	25.57	3.26	28.71	3.70	31.86	4.17
	4(39.2)	16.14	2.15	19.29	2.50	22.43	2.92	24.00	3.07	25.57	3.31	28.71	3.75	31.86	4.22
	6(42.8)	16.14	2.17	19.29	2.55	22.43	2.97	24.00	3.14	25.57	3.37	28.71	3.83	31.86	4.32
	8(46.4)	16.14	2.21	19.29	2.59	22.43	3.03	24.00	3.20	25.57	3.44	28.71	3.90	31.86	4.39
	10(50)	16.14	2.26	19.29	2.65	22.43	3.07	24.00	3.29	25.57	3.51	28.71	3.98	31.86	4.46
	12(53.6)	16.14	2.30	19.29	2.69	22.43	3.13	24.00	3.35	25.57	3.57	28.71	4.05	31.86	4.53
	14(57.2)	16.14	2.33	19.29	2.74	22.43	3.18	24.00	3.41	25.57	3.64	28.71	4.12	31.86	4.62
	16(60.8)	16.14	2.36	19.29	2.78	22.43	3.23	24.00	3.47	25.57	3.70	28.71	4.20	31.86	4.71
	18(64.4)	16.14	2.40	19.29	2.83	22.43	3.29	24.00	3.53	25.57	3.77	28.71	4.27	31.86	4.79
	20(68)	16.14	2.43	19.29	2.88	22.43	3.35	24.00	3.60	25.57	3.85	28.71	4.36	31.86	4.89
	21(69.8)	16.14	2.46	19.29	2.90	22.43	3.38	24.00	3.63	25.57	3.87	28.71	4.40	31.86	4.94
	23(73.4)	16.14	2.49	19.29	2.96	22.43	3.44	24.00	3.70	25.57	3.95	28.71	4.57	31.86	5.26
	25(77)	16.14	2.53	19.29	3.00	22.43	3.57	24.00	3.87	25.57	4.20	28.71	4.88	31.86	5.61
	27(80.6)	16.14	2.64	19.29	3.19	22.43	3.80	24.00	4.14	25.57	4.47	28.71	5.20	31.86	5.99
	29(84.2)	16.14	2.78	19.29	3.38	22.43	4.05	24.00	4.40	25.57	4.76	28.71	5.55	31.86	6.39
	31(87.8)	16.14	2.96	19.29	3.58	22.43	4.30	24.00	4.68	25.57	5.07	28.71	5.90	31.86	6.80
	33(91.4)	16.14	3.12	19.29	3.80	22.43	4.56	24.00	4.97	25.57	5.39	28.71	6.28	31.86	7.25
35(95)	16.14	3.31	19.29	4.03	22.43	4.84	24.00	5.27	25.57	5.72	28.71	6.69	31.86	7.72	
37(98.6)	16.14	3.50	19.29	4.27	22.43	5.13	24.00	5.59	25.57	6.07	28.71	7.11	31.86	8.22	
39(102.2)	16.14	3.69	19.29	4.52	22.43	5.43	24.00	5.93	25.57	6.45	28.71	7.55	31.86	8.74	
41(105.8)	16.14	3.80	19.29	4.71	22.43	5.63	24.00	6.17	25.57	6.69	28.71	7.90	31.86	9.14	
43(109.4)	16.14	3.92	19.29	4.91	22.43	5.83	24.00	6.35	25.57	6.92	28.71	8.24	31.86	9.53	
45(113)	16.14	4.11	19.29	5.16	22.43	6.07	24.00	6.59	25.57	7.27	28.71	8.61	31.86	10.06	
48(118.4)	16.14	4.42	19.29	5.50	22.43	6.38	24.00	6.98	25.57	7.83	28.71	9.06	31.86	10.85	

Cooling capacity table

MV5-X400W/V2GN1

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	13.50	1.75	16.14	2.02	18.71	2.32	20.00	2.43	21.29	2.57	23.86	2.92	26.57	3.15
	-2(28.4)	13.50	1.76	16.14	2.06	18.71	2.35	20.00	2.47	21.29	2.61	23.86	2.96	26.57	3.19
	0(32)	13.50	1.79	16.14	2.10	18.71	2.39	20.00	2.50	21.29	2.64	23.86	3.01	26.57	3.24
	2(35.6)	13.50	1.82	16.14	2.12	18.71	2.43	20.00	2.54	21.29	2.69	23.86	3.02	26.57	3.31
	4(39.2)	13.50	1.83	16.14	2.16	18.71	2.46	20.00	2.57	21.29	2.74	23.86	3.10	26.57	3.39
	6(42.8)	13.50	1.87	16.14	2.19	18.71	2.50	20.00	2.63	21.29	2.79	23.86	3.14	26.57	3.49
	8(46.4)	13.50	1.91	16.14	2.23	18.71	2.54	20.00	2.69	21.29	2.83	23.86	3.19	26.57	3.60
	10(50)	13.50	1.95	16.14	2.26	18.71	2.58	20.00	2.73	21.29	2.91	23.86	3.28	26.57	3.66
	12(53.6)	13.50	1.97	16.14	2.29	18.71	2.62	20.00	2.78	21.29	2.97	23.86	3.34	26.57	3.71
	14(57.2)	13.50	2.00	16.14	2.32	18.71	2.65	20.00	2.84	21.29	3.02	23.86	3.39	26.57	3.79
	16(60.8)	13.50	2.02	16.14	2.35	18.71	2.70	20.00	2.88	21.29	3.06	23.86	3.45	26.57	3.85
	18(64.4)	13.50	2.05	16.14	2.39	18.71	2.74	20.00	2.93	21.29	3.12	23.86	3.51	26.57	3.92
	20(68)	13.50	2.08	16.14	2.42	18.71	2.78	20.00	2.97	21.29	3.18	23.86	3.57	26.57	3.99
	21(69.8)	13.50	2.10	16.14	2.45	18.71	2.81	20.00	3.00	21.29	3.20	23.86	3.61	26.57	4.04
	23(73.4)	13.50	2.13	16.14	2.48	18.71	2.86	20.00	3.06	21.29	3.26	23.86	3.67	26.57	4.12
	25(77)	13.50	2.16	16.14	2.52	18.71	2.91	20.00	3.12	21.29	3.37	23.86	3.86	26.57	4.40
	27(80.6)	13.50	2.20	16.14	2.62	18.71	3.07	20.00	3.32	21.29	3.57	23.86	4.11	26.57	4.69
	29(84.2)	13.50	2.32	16.14	2.77	18.71	3.26	20.00	3.53	21.29	3.80	23.86	4.37	26.57	5.00
	31(87.8)	13.50	2.45	16.14	2.93	18.71	3.45	20.00	3.74	21.29	4.04	23.86	4.65	26.57	5.32
	33(91.4)	13.50	2.59	16.14	3.10	18.71	3.67	20.00	3.96	21.29	4.28	23.86	4.94	26.57	5.65
35(95)	13.50	2.74	16.14	3.28	18.71	3.87	20.00	4.20	21.29	4.53	23.86	5.24	26.57	6.00	
37(98.6)	13.50	2.88	16.14	3.47	18.71	4.11	20.00	4.44	21.29	4.81	23.86	5.56	26.57	6.38	
39(102.2)	13.50	3.04	16.14	3.66	18.71	4.34	20.00	4.71	21.29	5.10	23.86	5.90	26.57	6.77	
41(105.8)	13.50	3.17	16.14	3.81	18.71	4.50	20.00	4.93	21.29	5.32	23.86	6.21	26.57	7.09	
43(109.4)	13.50	3.38	16.14	4.08	18.71	4.66	20.00	5.15	21.29	5.46	23.86	6.53	26.57	7.40	
45(113)	13.50	3.46	16.14	4.18	18.71	4.97	20.00	5.54	21.29	5.69	23.86	7.16	26.57	8.03	
48(118.4)	13.50	3.69	16.14	4.50	18.71	5.18	20.00	5.80	21.29	5.85	23.86	7.58	26.57	8.45	

Cooling capacity table

MV5-X450W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	-5(23)	39.54	5.24	47.09	6.40	54.64	6.86	56.73	7.14	59.46	7.34	60.91	7.99	62.44	8.04
	-2(28.4)	39.54	5.24	47.09	6.53	54.64	6.86	56.73	7.18	59.46	7.34	60.91	8.09	62.44	8.12
	0(32)	39.54	5.33	47.09	6.64	54.64	7.11	56.73	7.58	59.46	7.77	60.91	8.19	62.44	8.22
	2(35.6)	39.54	5.43	47.09	6.65	54.64	7.36	56.73	8.00	59.46	7.86	60.91	8.25	62.44	8.35
	4(39.2)	39.54	5.55	47.09	6.78	54.64	7.61	56.73	8.04	59.46	7.96	60.91	8.24	62.44	8.51
	6(42.8)	39.54	5.66	47.09	6.92	54.64	7.89	56.73	8.10	58.80	8.21	60.16	8.24	61.75	8.57
	8(46.4)	39.54	5.79	47.09	7.08	54.64	8.29	56.73	8.50	58.07	8.48	59.51	3.90	60.97	8.65
	10(50)	39.54	5.91	47.09	7.23	54.64	8.59	56.73	8.79	57.37	4.04	58.82	4.06	60.27	8.90
	12(53.6)	39.54	6.02	47.09	7.37	54.64	8.77	55.93	4.03	56.73	4.06	58.02	4.07	59.46	8.96
	14(57.2)	39.54	6.14	47.09	7.50	54.48	4.05	55.29	4.06	55.93	4.08	57.37	4.09	58.82	9.16
	16(60.8)	39.54	6.24	47.09	7.66	53.84	4.06	54.48	4.08	55.12	4.10	56.57	4.12	58.02	9.30
	18(64.4)	39.54	6.36	47.09	7.82	53.04	9.16	53.68	9.22	54.48	9.27	55.93	9.36	57.37	9.44
	20(68)	39.54	6.50	47.09	8.32	52.23	9.61	53.04	9.67	53.68	9.72	55.12	9.80	56.57	9.91
	21(69.8)	39.54	6.67	47.09	8.61	51.91	9.84	52.71	9.89	53.35	9.94	54.80	10.05	56.25	10.13
	23(73.4)	39.54	7.16	47.09	9.23	51.27	10.29	51.91	10.34	52.55	10.39	54.00	10.50	55.44	10.60
	25(77)	39.54	7.64	47.09	9.89	50.46	10.74	51.10	10.79	51.91	10.86	53.35	10.96	54.80	11.07
	27(80.6)	39.54	8.16	47.09	10.58	49.82	11.19	50.46	11.26	51.10	11.31	52.55	11.43	54.00	11.55
	29(84.2)	39.54	8.72	47.09	11.31	49.02	11.64	49.66	11.71	50.46	11.78	51.91	11.90	53.35	12.02
	31(87.8)	39.54	9.30	46.93	11.97	48.21	12.10	49.02	12.17	49.66	12.23	51.10	12.36	52.55	12.50
	33(91.4)	39.54	9.91	46.12	12.42	47.57	12.55	48.21	12.62	49.02	12.69	50.46	12.83	51.75	12.97
35(95)	39.54	10.57	45.32	12.87	46.77	13.02	47.57	13.09	48.21	13.16	49.66	13.32	51.10	13.45	
37(98.6)	39.54	11.24	44.68	13.33	46.12	13.49	46.77	13.56	47.57	13.64	48.85	13.80	50.30	13.96	
39(102.2)	39.54	11.97	43.87	13.47	45.32	13.94	46.12	14.02	46.77	14.11	48.21	14.27	49.66	14.44	
41(105.8)	39.54	12.59	43.42	13.60	44.84	14.07	45.65	14.15	46.29	14.24	47.74	14.29	47.76	14.57	
43(109.4)	39.54	12.91	43.10	13.67	44.61	14.11	45.41	14.22	45.81	14.26	46.87	14.32	47.19	14.60	
45(113)	39.54	13.56	42.83	13.80	44.13	14.24	44.93	14.31	45.15	14.33	45.60	14.37	46.26	14.88	
48(118.4)	39.54	14.52	42.69	13.99	43.42	14.51	44.22	14.39	44.58	14.46	44.38	14.45	45.19	15.60	
120%	-5(23)	36.48	5.07	43.39	6.13	50.47	7.26	54.00	7.91	56.57	8.25	57.86	8.51	59.14	8.74
	-2(28.4)	36.48	5.12	43.39	6.20	50.47	7.33	54.00	7.96	56.57	8.35	57.86	8.58	59.14	8.77
	0(32)	36.48	5.16	43.39	6.24	50.47	7.41	54.00	7.98	56.57	8.42	57.86	8.63	59.14	8.79
	2(35.6)	36.48	5.18	43.39	6.31	50.47	7.46	54.00	8.05	56.57	8.45	57.86	8.70	59.14	8.80
	4(39.2)	36.48	5.23	43.39	6.39	50.47	7.57	54.00	8.13	56.57	8.57	57.86	8.72	59.14	8.83
	6(42.8)	36.48	5.28	43.39	6.44	50.47	7.66	54.00	8.22	56.57	8.66	57.86	8.79	59.14	8.86
	8(46.4)	36.48	5.33	43.39	6.50	50.47	7.76	54.00	8.32	56.57	8.74	57.86	8.82	59.14	8.90
	10(50)	36.48	5.40	43.39	6.59	50.47	7.83	54.00	8.47	56.57	8.75	57.86	8.84	59.14	8.94
	12(53.6)	36.48	5.50	43.39	6.71	50.47	7.99	54.00	8.63	55.77	8.79	57.05	8.79	58.34	8.99
	14(57.2)	36.48	5.60	43.39	6.85	50.47	8.14	54.00	8.80	54.96	8.84	56.41	8.93	57.69	9.10
	16(60.8)	36.48	5.71	43.39	6.99	50.47	8.30	53.68	4.10	54.32	8.97	55.61	9.08	56.89	9.24
	18(64.4)	36.48	5.81	43.39	7.12	50.47	8.58	52.88	9.16	53.52	9.20	54.80	9.29	56.25	9.37
	20(68)	36.48	5.93	43.39	7.40	50.47	9.23	52.23	9.61	52.88	9.65	54.16	9.74	55.45	9.82
	21(69.8)	36.48	5.98	43.39	7.66	50.47	9.56	51.75	9.84	52.39	9.87	53.84	9.96	55.13	10.06
	23(73.4)	36.48	6.40	43.39	8.21	50.47	10.24	51.11	10.27	51.75	10.32	53.03	10.43	54.32	10.51
	25(77)	36.48	6.83	43.39	8.78	49.66	10.69	50.30	10.72	50.95	10.77	52.39	10.88	53.68	10.98
	27(80.6)	36.48	7.30	43.39	9.39	49.02	11.12	49.66	11.19	50.30	11.24	51.59	11.34	52.88	11.45
	29(84.2)	36.48	7.78	43.39	10.03	48.21	11.57	48.86	11.64	49.50	11.69	50.79	11.81	52.23	11.91
	31(87.8)	36.48	8.30	43.39	10.70	47.41	12.03	48.21	12.09	48.86	12.16	50.14	12.28	51.43	12.40
	33(91.4)	36.48	8.84	43.39	11.41	46.76	12.48	47.41	12.55	48.05	12.61	49.34	12.74	50.62	12.87
35(95)	36.48	9.41	43.39	12.17	45.96	12.93	46.61	13.00	47.41	13.07	48.69	13.21	49.98	13.35	
37(98.6)	36.48	10.01	43.39	12.97	45.32	13.40	45.96	13.47	46.61	13.54	47.89	13.68	49.18	13.83	
39(102.2)	36.48	10.65	43.23	13.69	44.52	13.85	45.16	13.94	45.80	14.01	47.25	14.16	48.54	14.30	
41(105.8)	36.48	10.94	42.88	13.79	44.17	13.95	44.81	14.03	45.46	14.10	46.90	14.20	47.14	14.41	
43(109.4)	36.48	11.11	42.65	13.89	43.82	14.03	44.46	14.09	45.11	14.15	46.08	14.24	46.41	14.70	
45(113)	36.48	11.24	42.42	14.02	43.40	14.16	44.00	14.22	44.71	14.26	45.15	14.28	45.94	15.01	
48(118.4)	36.48	11.43	42.06	14.22	42.84	14.34	43.30	14.40	44.22	14.53	44.45	14.56	45.34	15.21	

Cooling capacity table

MV5-X450W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	33.43	4.42	39.86	5.51	46.29	6.57	49.50	7.05	52.71	7.59	56.73	7.88	58.02	8.12
	-2(28.4)	33.43	4.51	39.86	5.58	46.29	6.63	49.50	7.12	52.71	7.65	56.73	7.96	58.02	8.17
	0(32)	33.43	4.55	39.86	5.61	46.29	6.68	49.50	7.17	52.71	7.73	56.73	8.04	58.02	8.27
	2(35.6)	33.43	4.65	39.86	5.66	46.29	6.78	49.50	7.25	52.71	7.82	56.73	8.15	58.02	8.37
	4(39.2)	33.43	4.75	39.86	5.73	46.29	6.85	49.50	7.34	52.71	7.94	56.73	8.27	58.02	8.45
	6(42.8)	33.43	4.79	39.86	5.79	46.29	6.91	49.50	7.45	52.71	8.02	56.73	8.35	58.02	8.58
	8(46.4)	33.43	4.84	39.86	5.89	46.29	6.99	49.50	7.53	52.71	8.12	56.73	8.41	58.02	8.67
	10(50)	33.43	4.89	39.86	5.97	46.29	7.09	49.50	7.66	52.71	8.25	56.73	8.47	58.02	8.74
	12(53.6)	33.43	5.00	39.86	6.09	46.29	7.23	49.50	7.82	52.71	8.40	56.09	8.59	57.22	8.86
	14(57.2)	33.43	5.08	39.86	6.19	46.29	7.37	49.50	7.95	52.71	8.56	55.29	8.66	56.57	8.92
	16(60.8)	33.43	5.17	39.86	6.31	46.29	7.50	49.50	8.11	52.71	8.73	54.65	8.77	55.77	9.02
	18(64.4)	33.43	5.27	39.86	6.43	46.29	7.66	49.50	8.33	52.71	9.15	53.84	9.22	55.13	9.30
	20(68)	33.43	5.38	39.86	6.57	46.29	8.11	49.50	8.96	51.91	9.60	53.20	9.67	54.33	9.75
	21(69.8)	33.43	5.43	39.86	6.76	46.29	8.40	49.50	9.29	51.59	9.82	52.72	9.89	54.00	9.98
	23(73.4)	33.43	5.69	39.86	7.25	46.29	9.01	49.50	9.96	50.79	10.25	52.08	10.36	53.20	10.44
	25(77)	33.43	6.07	39.86	7.75	46.29	9.63	49.50	10.67	50.14	10.70	51.27	10.81	52.55	10.89
	27(80.6)	33.43	6.47	39.86	8.28	46.29	10.31	48.70	11.12	49.34	11.15	50.63	11.26	51.75	11.36
	29(84.2)	33.43	6.90	39.86	8.84	46.29	11.01	48.05	11.57	48.70	11.62	49.82	11.72	51.11	11.83
	31(87.8)	33.43	7.35	39.86	9.42	46.29	11.76	47.25	12.02	47.89	12.07	49.18	12.17	50.30	12.29
	33(91.4)	33.43	7.82	39.86	10.05	45.97	12.40	46.61	12.47	47.25	12.52	48.38	12.64	49.66	12.76
35(95)	33.43	8.32	39.86	10.70	45.16	12.85	45.81	12.92	46.45	12.99	47.57	13.11	48.86	13.23	
37(98.6)	33.43	8.85	39.86	11.40	44.52	13.32	45.16	13.37	45.65	13.44	46.93	13.57	48.05	13.69	
39(102.2)	33.43	9.41	39.86	12.14	43.72	13.76	44.36	13.83	45.00	13.90	46.13	14.04	47.41	14.18	
41(105.8)	33.43	9.50	39.86	12.24	43.37	13.86	44.01	13.93	44.66	14.00	45.54	14.14	45.98	14.28	
43(109.4)	33.43	9.60	39.86	12.39	43.03	13.96	43.67	14.03	44.32	14.10	45.13	14.19	45.28	14.57	
45(113)	33.43	9.91	39.86	12.46	42.59	14.09	43.21	14.20	43.92	14.23	44.68	14.58	44.86	14.90	
48(118.4)	33.43	10.16	39.86	12.66	41.98	14.28	42.53	14.42	43.42	14.51	43.94	15.14	44.28	15.68	
100%	-5(23)	30.38	4.03	36.16	4.85	42.11	5.77	45.00	6.18	47.89	6.71	53.84	7.65	56.89	7.98
	-2(28.4)	30.38	4.08	36.16	4.91	42.11	5.84	45.00	6.30	47.89	6.80	53.84	7.74	56.89	8.03
	0(32)	30.38	4.12	36.16	4.97	42.11	5.90	45.00	6.38	47.89	6.86	53.84	7.86	56.89	8.12
	2(35.6)	30.38	4.20	36.16	5.03	42.11	5.97	45.00	6.46	47.89	6.94	53.84	7.98	56.89	8.25
	4(39.2)	30.38	4.23	36.16	5.08	42.11	6.06	45.00	6.56	47.89	7.03	53.84	8.06	56.89	8.34
	6(42.8)	30.38	4.29	36.16	5.18	42.11	6.13	45.00	6.67	47.89	7.13	53.84	8.17	56.89	8.47
	8(46.4)	30.38	4.38	36.16	5.26	42.11	6.25	45.00	6.75	47.89	7.25	53.84	8.30	56.89	8.61
	10(50)	30.38	4.43	36.16	5.36	42.11	6.35	45.00	6.86	47.89	7.38	53.84	8.44	56.89	8.73
	12(53.6)	30.38	4.50	36.16	5.46	42.11	6.47	45.00	6.99	47.89	7.52	53.84	8.59	56.09	8.80
	14(57.2)	30.38	4.58	36.16	5.57	42.11	6.59	45.00	7.12	47.89	7.66	53.84	8.77	55.44	8.91
	16(60.8)	30.38	4.67	36.16	5.67	42.11	6.73	45.00	7.26	47.89	7.82	53.52	8.87	54.64	9.01
	18(64.4)	30.38	4.75	36.16	5.77	42.11	6.85	45.00	7.40	47.89	7.97	52.88	9.16	54.00	9.23
	20(68)	30.38	4.84	36.16	5.90	42.11	7.06	45.00	7.78	47.89	8.54	52.07	9.60	53.19	9.68
	21(69.8)	30.38	4.89	36.16	5.95	42.11	7.31	45.00	8.06	47.89	8.84	51.75	9.82	52.88	9.91
	23(73.4)	30.38	5.01	36.16	6.35	42.11	7.83	45.00	8.63	47.89	9.47	51.11	10.27	52.07	10.36
	25(77)	30.38	5.34	36.16	6.78	42.11	8.39	45.00	9.25	47.89	10.15	50.31	10.72	51.43	10.81
	27(80.6)	30.38	5.71	36.16	7.23	42.11	8.96	45.00	9.89	47.89	10.86	49.50	11.17	50.63	11.27
	29(84.2)	30.38	6.07	36.16	7.71	42.11	9.56	45.00	10.57	47.73	11.53	48.86	11.64	49.98	11.72
	31(87.8)	30.38	6.47	36.16	8.23	42.11	10.20	45.00	11.27	47.09	11.98	48.06	12.09	49.18	12.19
	33(91.4)	30.38	6.86	36.16	8.77	42.11	10.88	45.00	12.03	46.29	12.43	47.41	12.54	48.54	12.66
35(95)	30.38	7.30	36.16	9.32	42.11	11.60	45.00	12.83	45.48	12.88	46.61	13.00	47.73	13.11	
37(98.6)	30.38	7.76	36.16	9.93	42.11	12.36	44.19	13.28	44.84	13.35	45.96	13.47	46.93	13.57	
39(102.2)	30.38	8.25	36.16	10.55	42.11	13.16	43.55	13.73	44.03	13.80	45.16	13.92	46.29	14.06	
41(105.8)	30.38	8.63	36.16	10.93	42.11	13.64	42.88	13.83	43.70	14.01	44.64	14.25	45.61	14.35	
43(109.4)	30.38	9.02	36.16	11.32	42.11	13.89	42.20	13.99	43.38	14.15	44.37	14.34	44.81	14.51	
45(113)	30.38	9.53	36.16	11.83	42.11	14.13	42.16	14.18	43.16	14.40	43.91	14.56	44.27	14.70	
48(118.4)	30.38	10.30	36.16	12.60	42.11	14.37	42.13	14.56	43.09	14.95	43.55	14.98	44.00	15.08	

Cooling capacity table

MV5-X450W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	27.32	3.56	32.63	4.28	37.93	5.04	40.50	5.50	43.07	5.85	48.37	6.73	53.68	7.71
	-2(28.4)	27.32	3.60	32.63	4.32	37.93	5.11	40.50	5.58	43.07	5.92	48.37	6.80	53.68	7.78
	0(32)	27.32	3.65	32.63	4.37	37.93	5.19	40.50	5.65	43.07	6.00	48.37	6.87	53.68	7.84
	2(35.6)	27.32	3.71	32.63	4.43	37.93	5.24	40.50	5.73	43.07	6.09	48.37	7.02	53.68	7.96
	4(39.2)	27.32	3.76	32.63	4.49	37.93	5.33	40.50	5.81	43.07	6.17	48.37	7.13	53.68	8.07
	6(42.8)	27.32	3.81	32.63	4.58	37.93	5.43	40.50	5.92	43.07	6.28	48.37	7.24	53.68	8.21
	8(46.4)	27.32	3.89	32.63	4.67	37.93	5.54	40.50	6.00	43.07	6.39	48.37	7.37	53.68	8.29
	10(50)	27.32	3.96	32.63	4.77	37.93	5.64	40.50	6.09	43.07	6.54	48.37	7.47	53.68	8.42
	12(53.6)	27.32	4.03	32.63	4.86	37.93	5.74	40.50	6.19	43.07	6.66	48.37	7.61	53.68	8.58
	14(57.2)	27.32	4.10	32.63	4.94	37.93	5.84	40.50	6.31	43.07	6.78	48.37	7.75	53.68	8.73
	16(60.8)	27.32	4.17	32.63	5.03	37.93	5.97	40.50	6.43	43.07	6.92	48.37	7.90	53.52	8.89
	18(64.4)	27.32	4.24	32.63	5.14	37.93	6.07	40.50	6.55	43.07	7.05	48.37	8.06	52.88	9.16
	20(68)	27.32	4.32	32.63	5.25	37.93	6.19	40.50	6.69	43.07	7.31	48.37	8.66	52.07	9.60
	21(69.8)	27.32	4.36	32.63	5.29	37.93	6.29	40.50	6.92	43.07	7.57	48.37	8.97	51.75	9.82
	23(73.4)	27.32	4.44	32.63	5.50	37.93	6.74	40.50	7.42	43.07	8.13	48.37	9.63	50.94	10.27
	25(77)	27.32	4.69	32.63	5.88	37.93	7.21	40.50	7.94	43.07	8.68	48.37	10.31	50.31	10.72
	27(80.6)	27.32	4.98	32.63	6.26	37.93	7.69	40.50	8.47	43.07	9.28	48.37	11.03	49.50	11.17
	29(84.2)	27.32	5.31	32.63	6.67	37.93	8.21	40.50	9.04	43.07	9.92	47.89	11.53	48.86	11.62
	31(87.8)	27.32	5.64	32.63	7.11	37.93	8.75	40.50	9.65	43.07	10.58	47.09	11.98	48.05	12.09
	33(91.4)	27.32	5.98	32.63	7.56	37.93	9.34	40.50	10.29	43.07	11.29	46.45	12.45	47.41	12.53
35(95)	27.32	6.36	32.63	8.04	37.93	9.94	40.50	10.96	43.07	12.03	45.64	12.90	46.61	13.00	
37(98.6)	27.32	6.74	32.63	8.54	37.93	10.58	40.50	11.67	43.07	12.83	44.84	13.35	45.96	13.45	
39(102.2)	27.32	7.16	32.63	9.10	37.93	11.26	40.50	12.43	43.07	13.66	44.20	13.82	45.16	13.92	
41(105.8)	27.32	7.40	32.63	9.51	37.93	11.67	40.50	12.76	43.07	13.74	43.89	14.17	44.86	14.25	
43(109.4)	27.32	7.76	32.63	9.92	37.93	12.08	40.50	13.09	43.07	14.03	43.66	14.35	44.47	14.47	
45(113)	27.32	8.25	32.63	10.41	37.93	12.57	40.50	13.53	43.07	14.42	43.42	14.50	43.79	14.66	
48(118.4)	27.32	8.91	32.63	11.07	37.93	13.23	40.50	14.19	43.07	14.75	43.25	14.79	43.46	14.91	
80%	-5(23)	24.27	3.14	28.93	3.71	33.59	4.40	36.00	4.67	38.41	5.03	43.07	5.82	47.73	6.64
	-2(28.4)	24.27	3.19	28.93	3.76	33.59	4.43	36.00	4.75	38.41	5.08	43.07	5.87	47.73	6.70
	0(32)	24.27	3.24	28.93	3.80	33.59	4.49	36.00	4.80	38.41	5.17	43.07	5.96	47.73	6.80
	2(35.6)	24.27	3.31	28.93	3.86	33.59	4.55	36.00	4.89	38.41	5.26	43.07	6.08	47.73	6.93
	4(39.2)	24.27	3.36	28.93	3.92	33.59	4.64	36.00	5.00	38.41	5.36	43.07	6.19	47.73	7.02
	6(42.8)	24.27	3.42	28.93	4.02	33.59	4.71	36.00	5.12	38.41	5.46	43.07	6.28	47.73	7.14
	8(46.4)	24.27	3.48	28.93	4.11	33.59	4.82	36.00	5.20	38.41	5.58	43.07	6.37	47.73	7.28
	10(50)	24.27	3.51	28.93	4.20	33.59	4.95	36.00	5.33	38.41	5.71	43.07	6.52	47.73	7.35
	12(53.6)	24.27	3.56	28.93	4.27	33.59	5.03	36.00	5.43	38.41	5.83	43.07	6.64	47.73	7.49
	14(57.2)	24.27	3.63	28.93	4.36	33.59	5.12	36.00	5.52	38.41	5.93	43.07	6.76	47.73	7.63
	16(60.8)	24.27	3.68	28.93	4.43	33.59	5.22	36.00	5.62	38.41	6.04	43.07	6.90	47.73	7.76
	18(64.4)	24.27	3.75	28.93	4.51	33.59	5.33	36.00	5.74	38.41	6.16	43.07	7.04	47.73	7.92
	20(68)	24.27	3.82	28.93	4.60	33.59	5.43	36.00	5.84	38.41	6.28	43.07	7.30	47.73	8.47
	21(69.8)	24.27	3.86	28.93	4.63	33.59	5.48	36.00	5.91	38.41	6.42	43.07	7.56	47.73	8.78
	23(73.4)	24.27	3.93	28.93	4.74	33.59	5.74	36.00	6.29	38.41	6.86	43.07	8.09	47.73	9.42
	25(77)	24.27	4.05	28.93	5.03	33.59	6.14	36.00	6.73	38.41	7.33	43.07	8.66	47.73	10.08
	27(80.6)	24.27	4.31	28.93	5.36	33.59	6.54	36.00	7.18	38.41	7.83	43.07	9.25	47.73	10.79
	29(84.2)	24.27	4.58	28.93	5.71	33.59	6.97	36.00	7.64	38.41	8.37	43.07	9.87	47.73	11.53
	31(87.8)	24.27	4.86	28.93	6.07	33.59	7.42	36.00	8.14	38.41	8.92	43.07	10.55	46.93	11.98
	33(91.4)	24.27	5.17	28.93	6.45	33.59	7.90	36.00	8.68	38.41	9.49	43.07	11.24	46.29	12.43
35(95)	24.27	5.48	28.93	6.86	33.59	8.40	36.00	9.23	38.41	10.12	43.07	11.98	45.48	12.88	
37(98.6)	24.27	5.81	28.93	7.28	33.59	8.94	36.00	9.84	38.41	10.77	43.07	12.78	44.84	13.33	
39(102.2)	24.27	6.16	28.93	7.76	33.59	9.51	36.00	10.46	38.41	11.46	43.07	13.61	44.04	13.80	
41(105.8)	24.27	6.29	28.93	7.83	33.59	9.65	36.00	10.74	38.41	11.67	43.07	13.95	43.77	14.04	
43(109.4)	24.27	6.48	28.93	7.90	33.59	9.79	36.00	10.92	38.41	11.83	43.07	14.12	43.50	14.19	
45(113)	24.27	6.66	28.93	7.99	33.59	9.98	36.00	11.15	38.41	12.04	43.07	14.27	42.96	14.42	
48(118.4)	24.27	6.80	28.93	8.13	33.59	10.27	36.00	11.57	38.41	12.38	43.07	14.60	42.60	14.92	

Cooling capacity table

MV5-X450W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	21.22	2.80	25.39	3.29	29.41	3.72	31.50	3.99	33.59	4.26	37.61	4.88	41.78	5.60
	-2(28.4)	21.22	2.83	25.39	3.30	29.41	3.75	31.50	4.07	33.59	4.34	37.61	4.95	41.78	5.68
	0(32)	21.22	2.84	25.39	3.35	29.41	3.82	31.50	4.15	33.59	4.41	37.61	5.05	41.78	5.76
	2(35.6)	21.22	2.86	25.39	3.36	29.41	3.89	31.50	4.22	33.59	4.49	37.61	5.16	41.78	5.85
	4(39.2)	21.22	2.89	25.39	3.45	29.41	3.97	31.50	4.30	33.59	4.59	37.61	5.24	41.78	5.99
	6(42.8)	21.22	2.94	25.39	3.51	29.41	4.07	31.50	4.44	33.59	4.70	37.61	5.34	41.78	6.10
	8(46.4)	21.22	2.99	25.39	3.61	29.41	4.16	31.50	4.51	33.59	4.80	37.61	5.49	41.78	6.22
	10(50)	21.22	3.06	25.39	3.67	29.41	4.27	31.50	4.60	33.59	4.93	37.61	5.60	41.78	6.29
	12(53.6)	21.22	3.13	25.39	3.72	29.41	4.36	31.50	4.69	33.59	5.01	37.61	5.71	41.78	6.42
	14(57.2)	21.22	3.18	25.39	3.79	29.41	4.43	31.50	4.76	33.59	5.10	37.61	5.81	41.78	6.54
	16(60.8)	21.22	3.23	25.39	3.86	29.41	4.51	31.50	4.86	33.59	5.20	37.61	5.91	41.78	6.66
	18(64.4)	21.22	3.29	25.39	3.93	29.41	4.60	31.50	4.95	33.59	5.29	37.61	6.03	41.78	6.80
	20(68)	21.22	3.34	25.39	3.99	29.41	4.69	31.50	5.03	33.59	5.39	37.61	6.16	41.78	6.99
	21(69.8)	21.22	3.37	25.39	4.03	29.41	4.72	31.50	5.08	33.59	5.45	37.61	6.24	41.78	7.23
	23(73.4)	21.22	3.42	25.39	4.10	29.41	4.82	31.50	5.26	33.59	5.72	37.61	6.69	41.78	7.75
	25(77)	21.22	3.49	25.39	4.27	29.41	5.14	31.50	5.62	33.59	6.10	37.61	7.16	41.78	8.28
	27(80.6)	21.22	3.70	25.39	4.55	29.41	5.48	31.50	5.98	33.59	6.52	37.61	7.64	41.78	8.85
	29(84.2)	21.22	3.93	25.39	4.82	29.41	5.83	31.50	6.38	33.59	6.93	37.61	8.14	41.78	9.46
	31(87.8)	21.22	4.15	25.39	5.12	29.41	6.21	31.50	6.78	33.59	7.38	37.61	8.68	41.78	10.08
	33(91.4)	21.22	4.41	25.39	5.45	29.41	6.61	31.50	7.21	33.59	7.87	37.61	9.25	41.78	10.76
35(95)	21.22	4.67	25.39	5.78	29.41	7.00	31.50	7.68	33.59	8.37	37.61	9.86	41.78	11.46	
37(98.6)	21.22	4.93	25.39	6.12	29.41	7.45	31.50	8.14	33.59	8.91	37.61	10.50	41.78	12.21	
39(102.2)	21.22	5.22	25.39	6.48	29.41	7.90	31.50	8.66	33.59	9.46	37.61	11.15	41.78	13.00	
41(105.8)	21.22	5.45	25.39	6.71	29.41	8.13	31.50	8.95	33.59	9.75	37.61	11.61	41.78	13.58	
43(109.4)	21.22	5.90	25.39	7.18	29.41	8.47	31.50	9.43	33.59	10.03	37.61	12.04	41.78	14.00	
45(113)	21.22	6.03	25.39	7.33	29.41	8.65	31.50	9.58	33.59	10.53	37.61	12.69	41.78	14.54	
48(118.4)	21.22	6.42	25.39	7.79	29.41	9.18	31.50	10.05	33.59	10.84	37.61	13.07	41.78	14.85	
60%	-5(23)	18.16	2.39	21.70	2.77	25.23	3.23	27.00	3.44	28.77	3.72	32.30	4.17	35.84	4.79
	-2(28.4)	18.16	2.40	21.70	2.82	25.23	3.29	27.00	3.49	28.77	3.76	32.30	4.24	35.84	4.82
	0(32)	18.16	2.44	21.70	2.85	25.23	3.33	27.00	3.54	28.77	3.82	32.30	4.30	35.84	4.88
	2(35.6)	18.16	2.48	21.70	2.92	25.23	3.40	27.00	3.60	28.77	3.87	32.30	4.39	35.84	4.94
	4(39.2)	18.16	2.55	21.70	2.97	25.23	3.46	27.00	3.65	28.77	3.93	32.30	4.46	35.84	5.01
	6(42.8)	18.16	2.58	21.70	3.03	25.23	3.53	27.00	3.73	28.77	4.01	32.30	4.55	35.84	5.13
	8(46.4)	18.16	2.63	21.70	3.08	25.23	3.59	27.00	3.80	28.77	4.09	32.30	4.63	35.84	5.21
	10(50)	18.16	2.68	21.70	3.15	25.23	3.65	27.00	3.91	28.77	4.17	32.30	4.72	35.84	5.29
	12(53.6)	18.16	2.73	21.70	3.20	25.23	3.72	27.00	3.98	28.77	4.24	32.30	4.81	35.84	5.38
	14(57.2)	18.16	2.77	21.70	3.25	25.23	3.77	27.00	4.05	28.77	4.32	32.30	4.89	35.84	5.48
	16(60.8)	18.16	2.80	21.70	3.30	25.23	3.84	27.00	4.11	28.77	4.39	32.30	4.98	35.84	5.58
	18(64.4)	18.16	2.85	21.70	3.35	25.23	3.91	27.00	4.18	28.77	4.48	32.30	5.07	35.84	5.69
	20(68)	18.16	2.89	21.70	3.42	25.23	3.98	27.00	4.27	28.77	4.56	32.30	5.17	35.84	5.81
	21(69.8)	18.16	2.92	21.70	3.44	25.23	4.01	27.00	4.30	28.77	4.60	32.30	5.22	35.84	5.86
	23(73.4)	18.16	2.96	21.70	3.51	25.23	4.08	27.00	4.39	28.77	4.69	32.30	5.43	35.84	6.24
	25(77)	18.16	3.01	21.70	3.56	25.23	4.24	27.00	4.60	28.77	4.98	32.30	5.79	35.84	6.66
	27(80.6)	18.16	3.13	21.70	3.79	25.23	4.51	27.00	4.91	28.77	5.31	32.30	6.17	35.84	7.11
	29(84.2)	18.16	3.30	21.70	4.01	25.23	4.81	27.00	5.22	28.77	5.65	32.30	6.59	35.84	7.59
	31(87.8)	18.16	3.51	21.70	4.25	25.23	5.10	27.00	5.55	28.77	6.02	32.30	7.00	35.84	8.07
	33(91.4)	18.16	3.70	21.70	4.51	25.23	5.41	27.00	5.90	28.77	6.40	32.30	7.45	35.84	8.61
35(95)	18.16	3.92	21.70	4.79	25.23	5.74	27.00	6.26	28.77	6.79	32.30	7.94	35.84	9.16	
37(98.6)	18.16	4.15	21.70	5.07	25.23	6.09	27.00	6.64	28.77	7.21	32.30	8.44	35.84	9.75	
39(102.2)	18.16	4.37	21.70	5.36	25.23	6.45	27.00	7.04	28.77	7.66	32.30	8.96	35.84	10.37	
41(105.8)	18.16	4.51	21.70	5.59	25.23	6.68	27.00	7.32	28.77	7.94	32.30	9.38	35.84	10.84	
43(109.4)	18.16	4.66	21.70	5.83	25.23	6.92	27.00	7.54	28.77	8.22	32.30	9.78	35.84	11.31	
45(113)	18.16	4.87	21.70	6.12	25.23	7.20	27.00	7.82	28.77	8.62	32.30	10.21	35.84	11.94	
48(118.4)	18.16	5.25	21.70	6.53	25.23	7.58	27.00	8.29	28.77	9.30	32.30	10.76	35.84	12.88	

Cooling capacity table

MV5-X450W/V2GN1

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	15.19	2.08	18.16	2.40	21.05	2.76	22.50	2.89	23.95	3.05	26.84	3.47	29.89	3.73
	-2(28.4)	15.19	2.09	18.16	2.45	21.05	2.79	22.50	2.93	23.95	3.10	26.84	3.51	29.89	3.78
	0(32)	15.19	2.13	18.16	2.49	21.05	2.84	22.50	2.97	23.95	3.14	26.84	3.57	29.89	3.85
	2(35.6)	15.19	2.16	18.16	2.52	21.05	2.89	22.50	3.01	23.95	3.19	26.84	3.59	29.89	3.92
	4(39.2)	15.19	2.18	18.16	2.56	21.05	2.92	22.50	3.05	23.95	3.26	26.84	3.67	29.89	4.02
	6(42.8)	15.19	2.22	18.16	2.60	21.05	2.96	22.50	3.12	23.95	3.32	26.84	3.73	29.89	4.14
	8(46.4)	15.19	2.27	18.16	2.65	21.05	3.01	22.50	3.19	23.95	3.36	26.84	3.79	29.89	4.28
	10(50)	15.19	2.32	18.16	2.68	21.05	3.06	22.50	3.24	23.95	3.46	26.84	3.89	29.89	4.34
	12(53.6)	15.19	2.33	18.16	2.71	21.05	3.11	22.50	3.30	23.95	3.53	26.84	3.96	29.89	4.41
	14(57.2)	15.19	2.37	18.16	2.75	21.05	3.15	22.50	3.37	23.95	3.58	26.84	4.03	29.89	4.50
	16(60.8)	15.19	2.40	18.16	2.78	21.05	3.20	22.50	3.42	23.95	3.63	26.84	4.10	29.89	4.56
	18(64.4)	15.19	2.44	18.16	2.84	21.05	3.25	22.50	3.48	23.95	3.70	26.84	4.17	29.89	4.65
	20(68)	15.19	2.47	18.16	2.87	21.05	3.30	22.50	3.53	23.95	3.77	26.84	4.24	29.89	4.74
	21(69.8)	15.19	2.49	18.16	2.90	21.05	3.34	22.50	3.56	23.95	3.80	26.84	4.29	29.89	4.79
	23(73.4)	15.19	2.52	18.16	2.94	21.05	3.39	22.50	3.63	23.95	3.87	26.84	4.36	29.89	4.89
	25(77)	15.19	2.56	18.16	2.99	21.05	3.46	22.50	3.70	23.95	3.99	26.84	4.58	29.89	5.22
	27(80.6)	15.19	2.61	18.16	3.11	21.05	3.65	22.50	3.94	23.95	4.24	26.84	4.88	29.89	5.57
	29(84.2)	15.19	2.75	18.16	3.28	21.05	3.87	22.50	4.18	23.95	4.51	26.84	5.19	29.89	5.93
	31(87.8)	15.19	2.90	18.16	3.48	21.05	4.10	22.50	4.44	23.95	4.79	26.84	5.52	29.89	6.31
	33(91.4)	15.19	3.08	18.16	3.68	21.05	4.36	22.50	4.70	23.95	5.08	26.84	5.86	29.89	6.71
35(95)	15.19	3.25	18.16	3.89	21.05	4.60	22.50	4.98	23.95	5.38	26.84	6.22	29.89	7.12	
37(98.6)	15.19	3.42	18.16	4.11	21.05	4.88	22.50	5.27	23.95	5.71	26.84	6.60	29.89	7.57	
39(102.2)	15.19	3.61	18.16	4.34	21.05	5.15	22.50	5.58	23.95	6.05	26.84	7.00	29.89	8.04	
41(105.8)	15.19	3.76	18.16	4.53	21.05	5.34	22.50	5.85	23.95	6.31	26.84	7.38	29.89	8.41	
43(109.4)	15.19	4.01	18.16	4.84	21.05	5.53	22.50	6.11	23.95	6.47	26.84	7.75	29.89	8.79	
45(113)	15.19	4.10	18.16	4.96	21.05	5.90	22.50	6.58	23.95	6.75	26.84	8.50	29.89	9.53	
48(118.4)	15.19	4.38	18.16	5.34	21.05	6.15	22.50	6.88	23.95	6.95	26.84	8.99	29.89	10.03	

Cooling capacity table

MV5-X500W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	-5(23)	43.93	5.91	52.32	7.22	60.71	7.74	63.03	8.05	66.06	8.28	67.68	9.01	69.38	9.06
	-2(28.4)	43.93	5.91	52.32	7.36	60.71	7.74	63.03	8.10	66.06	8.28	67.68	9.12	69.38	9.15
	0(32)	43.93	6.02	52.32	7.49	60.71	8.02	63.03	8.55	66.06	8.76	67.68	9.23	69.38	9.28
	2(35.6)	43.93	6.12	52.32	7.50	60.71	8.30	63.03	9.03	66.06	8.86	67.68	9.30	69.38	9.41
	4(39.2)	43.93	6.26	52.32	7.65	60.71	8.58	63.03	9.06	66.06	8.98	67.68	9.29	69.38	9.59
	6(42.8)	43.93	6.38	52.32	7.80	60.71	8.90	63.03	9.14	65.33	9.26	66.85	9.29	68.62	9.66
	8(46.4)	43.93	6.53	52.32	7.98	60.71	9.35	63.03	9.59	64.52	9.56	66.12	3.90	67.74	9.76
	10(50)	43.93	6.67	52.32	8.15	60.71	9.69	63.03	9.91	63.75	4.04	65.36	4.06	66.96	10.04
	12(53.6)	43.93	6.79	52.32	8.31	60.71	9.89	62.14	4.03	63.03	4.06	64.46	4.07	66.07	10.10
	14(57.2)	43.93	6.92	52.32	8.46	60.53	4.05	61.43	4.06	62.14	4.08	63.75	4.09	65.36	10.33
	16(60.8)	43.93	7.04	52.32	8.64	59.82	4.06	60.53	4.08	61.25	4.10	62.86	4.12	64.46	10.49
	18(64.4)	43.93	7.18	52.32	8.82	58.93	10.34	59.64	10.40	60.53	10.45	62.14	10.55	63.75	10.65
	20(68)	43.93	7.33	52.32	9.38	58.03	10.84	58.93	10.90	59.64	10.96	61.25	11.06	62.86	11.17
	21(69.8)	43.93	7.53	52.32	9.71	57.68	11.10	58.57	11.16	59.28	11.21	60.89	11.33	62.50	11.43
	23(73.4)	43.93	8.07	52.32	10.41	56.96	11.60	57.68	11.66	58.39	11.72	60.00	11.84	61.60	11.96
	25(77)	43.93	8.62	52.32	11.16	56.07	12.11	56.78	12.17	57.68	12.25	59.28	12.36	60.89	12.48
	27(80.6)	43.93	9.21	52.32	11.94	55.36	12.62	56.07	12.70	56.78	12.75	58.39	12.89	60.00	13.03
	29(84.2)	43.93	9.83	52.32	12.75	54.46	13.12	55.18	13.20	56.07	13.28	57.68	13.42	59.28	13.55
	31(87.8)	43.93	10.49	52.14	13.50	53.57	13.65	54.46	13.73	55.18	13.79	56.78	13.94	58.39	14.10
	33(91.4)	43.93	11.17	51.25	14.00	52.86	14.16	53.57	14.24	54.46	14.31	56.07	14.47	57.50	14.63
35(95)	43.93	11.92	50.35	14.51	51.96	14.69	52.86	14.76	53.57	14.84	55.18	15.02	56.78	15.17	
37(98.6)	43.93	12.68	49.64	15.04	51.25	15.21	51.96	15.29	52.86	15.39	54.28	15.56	55.89	15.74	
39(102.2)	43.93	13.50	48.75	15.19	50.35	15.72	51.25	15.82	51.96	15.91	53.57	16.09	55.18	16.28	
41(105.8)	43.93	14.20	48.25	15.34	49.83	15.87	50.72	15.96	51.43	16.06	53.04	16.12	53.06	16.43	
43(109.4)	43.93	14.57	47.89	15.41	49.56	15.91	50.46	16.04	50.90	16.08	52.08	16.15	52.43	16.47	
45(113)	43.93	15.29	47.59	15.56	49.03	16.06	49.93	16.14	50.16	16.16	50.66	16.21	51.40	16.78	
48(118.4)	43.93	16.38	47.44	15.78	48.24	16.37	49.13	16.23	49.53	16.31	49.31	16.30	50.21	17.60	
120%	-5(23)	40.54	5.71	48.21	6.92	56.07	8.18	60.00	8.92	62.86	9.30	64.29	9.60	65.72	9.86
	-2(28.4)	40.54	5.77	48.21	6.99	56.07	8.26	60.00	8.98	62.86	9.41	64.29	9.68	65.72	9.89
	0(32)	40.54	5.82	48.21	7.04	56.07	8.36	60.00	9.00	62.86	9.50	64.29	9.74	65.72	9.91
	2(35.6)	40.54	5.84	48.21	7.11	56.07	8.42	60.00	9.08	62.86	9.53	64.29	9.81	65.72	9.93
	4(39.2)	40.54	5.90	48.21	7.20	56.07	8.54	60.00	9.17	62.86	9.66	64.29	9.83	65.72	9.96
	6(42.8)	40.54	5.96	48.21	7.26	56.07	8.64	60.00	9.27	62.86	9.76	64.29	9.91	65.72	9.99
	8(46.4)	40.54	6.01	48.21	7.33	56.07	8.76	60.00	9.39	62.86	9.86	64.29	9.94	65.72	10.04
	10(50)	40.54	6.08	48.21	7.43	56.07	8.83	60.00	9.56	62.86	9.87	64.29	9.97	65.72	10.08
	12(53.6)	40.54	6.20	48.21	7.57	56.07	9.01	60.00	9.73	61.97	9.91	63.39	9.92	64.82	10.14
	14(57.2)	40.54	6.32	48.21	7.72	56.07	9.18	60.00	9.93	61.07	9.97	62.68	10.07	64.10	10.27
	16(60.8)	40.54	6.44	48.21	7.88	56.07	9.36	59.64	4.10	60.36	10.12	61.78	10.24	63.21	10.42
	18(64.4)	40.54	6.55	48.21	8.04	56.07	9.67	58.75	10.34	59.46	10.37	60.89	10.47	62.50	10.57
	20(68)	40.54	6.69	48.21	8.35	56.07	10.41	58.04	10.84	58.75	10.88	60.18	10.98	61.61	11.08
	21(69.8)	40.54	6.75	48.21	8.64	56.07	10.78	57.50	11.10	58.21	11.14	59.82	11.23	61.25	11.35
	23(73.4)	40.54	7.22	48.21	9.26	56.07	11.54	56.79	11.58	57.50	11.64	58.93	11.76	60.36	11.86
	25(77)	40.54	7.70	48.21	9.91	55.18	12.05	55.89	12.09	56.61	12.15	58.21	12.27	59.64	12.38
	27(80.6)	40.54	8.23	48.21	10.59	54.46	12.54	55.18	12.62	55.89	12.68	57.32	12.79	58.75	12.91
	29(84.2)	40.54	8.78	48.21	11.31	53.57	13.05	54.29	13.12	55.00	13.18	56.43	13.32	58.04	13.44
	31(87.8)	40.54	9.36	48.21	12.07	52.68	13.57	53.57	13.63	54.29	13.71	55.72	13.85	57.14	13.98
	33(91.4)	40.54	9.97	48.21	12.87	51.96	14.08	52.68	14.16	53.39	14.22	54.82	14.37	56.25	14.51
35(95)	40.54	10.61	48.21	13.73	51.07	14.58	51.79	14.67	52.68	14.74	54.10	14.90	55.53	15.06	
37(98.6)	40.54	11.29	48.21	14.63	50.36	15.11	51.07	15.19	51.79	15.27	53.21	15.43	54.64	15.60	
39(102.2)	40.54	12.01	48.04	15.45	49.47	15.62	50.18	15.72	50.89	15.80	52.50	15.97	53.93	16.13	
41(105.8)	40.54	12.34	47.65	15.56	49.08	15.73	49.79	15.83	50.51	15.91	52.11	16.02	52.38	16.25	
43(109.4)	40.54	12.53	47.39	15.67	48.69	15.83	49.40	15.89	50.12	15.96	51.21	16.06	51.56	16.57	
45(113)	40.54	12.67	47.13	15.81	48.22	15.97	48.89	16.04	49.68	16.09	50.17	16.11	51.05	16.93	
48(118.4)	40.54	12.89	46.73	16.03	47.60	16.17	48.11	16.24	49.13	16.39	49.39	16.42	50.37	17.15	

Cooling capacity table

MV5-X500W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	37.14	4.99	44.29	6.21	51.43	7.41	55.00	7.95	58.57	8.56	63.04	8.89	64.47	9.16
	-2(28.4)	37.14	5.08	44.29	6.29	51.43	7.47	55.00	8.03	58.57	8.63	63.04	8.98	64.47	9.21
	0(32)	37.14	5.14	44.29	6.33	51.43	7.53	55.00	8.09	58.57	8.72	63.04	9.07	64.47	9.32
	2(35.6)	37.14	5.25	44.29	6.39	51.43	7.65	55.00	8.17	58.57	8.82	63.04	9.20	64.47	9.44
	4(39.2)	37.14	5.35	44.29	6.46	51.43	7.72	55.00	8.27	58.57	8.95	63.04	9.32	64.47	9.53
	6(42.8)	37.14	5.40	44.29	6.53	51.43	7.80	55.00	8.41	58.57	9.05	63.04	9.42	64.47	9.67
	8(46.4)	37.14	5.45	44.29	6.64	51.43	7.88	55.00	8.49	58.57	9.15	63.04	9.49	64.47	9.78
	10(50)	37.14	5.52	44.29	6.73	51.43	8.00	55.00	8.64	58.57	9.30	63.04	9.55	64.47	9.86
	12(53.6)	37.14	5.64	44.29	6.86	51.43	8.15	55.00	8.82	58.57	9.48	62.33	9.69	63.57	9.99
	14(57.2)	37.14	5.73	44.29	6.98	51.43	8.31	55.00	8.97	58.57	9.65	61.43	9.77	62.86	10.06
	16(60.8)	37.14	5.83	44.29	7.12	51.43	8.46	55.00	9.15	58.57	9.85	60.72	9.89	61.96	10.17
	18(64.4)	37.14	5.95	44.29	7.26	51.43	8.64	55.00	9.40	58.57	10.32	59.82	10.39	61.25	10.49
	20(68)	37.14	6.06	44.29	7.41	51.43	9.15	55.00	10.10	57.68	10.82	59.11	10.90	60.36	11.00
	21(69.8)	37.14	6.12	44.29	7.63	51.43	9.48	55.00	10.47	57.32	11.08	58.58	11.16	60.00	11.25
	23(73.4)	37.14	6.42	44.29	8.17	51.43	10.16	55.00	11.23	56.43	11.56	57.86	11.68	59.11	11.78
	25(77)	37.14	6.85	44.29	8.74	51.43	10.86	55.00	12.03	55.71	12.07	56.97	12.19	58.39	12.29
	27(80.6)	37.14	7.29	44.29	9.34	51.43	11.62	54.11	12.54	54.82	12.58	56.25	12.70	57.50	12.81
	29(84.2)	37.14	7.78	44.29	9.97	51.43	12.42	53.39	13.05	54.11	13.11	55.36	13.22	56.79	13.34
	31(87.8)	37.14	8.29	44.29	10.63	51.43	13.26	52.50	13.55	53.22	13.61	54.65	13.73	55.89	13.87
	33(91.4)	37.14	8.82	44.29	11.33	51.07	13.98	51.79	14.06	52.50	14.12	53.75	14.26	55.18	14.39
35(95)	37.14	9.38	44.29	12.07	50.18	14.49	50.90	14.57	51.61	14.65	52.86	14.78	54.29	14.92	
37(98.6)	37.14	9.99	44.29	12.85	49.46	15.02	50.18	15.08	50.72	15.15	52.15	15.31	53.39	15.45	
39(102.2)	37.14	10.61	44.29	13.69	48.57	15.52	49.29	15.60	50.00	15.68	51.25	15.84	52.68	15.99	
41(105.8)	37.14	10.72	44.29	13.80	48.19	15.63	48.91	15.71	49.62	15.79	50.60	15.95	51.09	16.10	
43(109.4)	37.14	10.83	44.29	13.98	47.81	15.74	48.52	15.82	49.24	15.90	50.15	16.00	50.31	16.43	
45(113)	37.14	11.18	44.29	14.06	47.33	15.89	48.01	16.01	48.80	16.04	49.64	16.44	49.84	16.81	
48(118.4)	37.14	11.45	44.29	14.27	46.64	16.11	47.25	16.26	48.25	16.36	48.82	17.08	49.20	17.69	
100%	-5(23)	33.75	4.54	40.18	5.47	46.79	6.51	50.00	6.97	53.22	7.57	59.82	8.62	63.22	9.00
	-2(28.4)	33.75	4.60	40.18	5.54	46.79	6.58	50.00	7.10	53.22	7.67	59.82	8.73	63.22	9.06
	0(32)	33.75	4.64	40.18	5.60	46.79	6.66	50.00	7.19	53.22	7.74	59.82	8.87	63.22	9.16
	2(35.6)	33.75	4.74	40.18	5.68	46.79	6.73	50.00	7.29	53.22	7.83	59.82	9.00	63.22	9.30
	4(39.2)	33.75	4.77	40.18	5.73	46.79	6.83	50.00	7.39	53.22	7.93	59.82	9.09	63.22	9.41
	6(42.8)	33.75	4.84	40.18	5.85	46.79	6.92	50.00	7.52	53.22	8.05	59.82	9.22	63.22	9.55
	8(46.4)	33.75	4.93	40.18	5.93	46.79	7.04	50.00	7.61	53.22	8.18	59.82	9.36	63.22	9.71
	10(50)	33.75	4.99	40.18	6.05	46.79	7.16	50.00	7.74	53.22	8.33	59.82	9.52	63.22	9.85
	12(53.6)	33.75	5.07	40.18	6.16	46.79	7.29	50.00	7.88	53.22	8.48	59.82	9.69	62.32	9.92
	14(57.2)	33.75	5.17	40.18	6.28	46.79	7.43	50.00	8.04	53.22	8.64	59.82	9.89	61.61	10.05
	16(60.8)	33.75	5.27	40.18	6.40	46.79	7.59	50.00	8.19	53.22	8.82	59.47	10.00	60.72	10.16
	18(64.4)	33.75	5.36	40.18	6.51	46.79	7.72	50.00	8.35	53.22	8.99	58.75	10.34	60.00	10.41
	20(68)	33.75	5.46	40.18	6.65	46.79	7.96	50.00	8.77	53.22	9.63	57.86	10.82	59.11	10.92
	21(69.8)	33.75	5.52	40.18	6.71	46.79	8.25	50.00	9.09	53.22	9.97	57.50	11.08	58.75	11.17
	23(73.4)	33.75	5.65	40.18	7.16	46.79	8.83	50.00	9.73	53.22	10.69	56.79	11.58	57.86	11.68
	25(77)	33.75	6.03	40.18	7.64	46.79	9.46	50.00	10.43	53.22	11.45	55.90	12.09	57.14	12.19
	27(80.6)	33.75	6.43	40.18	8.15	46.79	10.10	50.00	11.15	53.22	12.25	55.00	12.60	56.25	12.71
	29(84.2)	33.75	6.84	40.18	8.70	46.79	10.78	50.00	11.92	53.04	13.01	54.29	13.12	55.54	13.22
	31(87.8)	33.75	7.29	40.18	9.28	46.79	11.51	50.00	12.71	52.32	13.51	53.40	13.63	54.64	13.75
	33(91.4)	33.75	7.74	40.18	9.89	46.79	12.27	50.00	13.57	51.43	14.02	52.68	14.14	53.93	14.27
35(95)	33.75	8.23	40.18	10.51	46.79	13.09	50.00	14.47	50.54	14.53	51.79	14.66	53.04	14.78	
37(98.6)	33.75	8.76	40.18	11.19	46.79	13.94	49.10	14.98	49.82	15.05	51.07	15.19	52.15	15.31	
39(102.2)	33.75	9.30	40.18	11.90	46.79	14.84	48.39	15.48	48.93	15.56	50.18	15.70	51.43	15.85	
41(105.8)	33.75	9.74	40.18	12.33	46.79	15.38	47.64	15.59	48.55	15.80	49.60	16.07	50.68	16.18	
43(109.4)	33.75	10.17	40.18	12.76	46.79	15.67	46.89	15.77	48.20	15.95	49.30	16.17	49.79	16.36	
45(113)	33.75	10.75	40.18	13.34	46.79	15.94	46.84	15.99	47.95	16.24	48.79	16.42	49.19	16.58	
48(118.4)	33.75	11.62	40.18	14.21	46.79	16.21	46.81	16.43	47.88	16.86	48.39	16.89	48.89	17.01	

Cooling capacity table

MV5-X500W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	30.36	4.02	36.25	4.82	42.14	5.69	45.00	6.21	47.86	6.60	53.75	7.59	59.64	8.69
	-2(28.4)	30.36	4.06	36.25	4.87	42.14	5.76	45.00	6.29	47.86	6.68	53.75	7.67	59.64	8.78
	0(32)	30.36	4.12	36.25	4.93	42.14	5.85	45.00	6.37	47.86	6.77	53.75	7.75	59.64	8.85
	2(35.6)	30.36	4.18	36.25	4.99	42.14	5.91	45.00	6.47	47.86	6.87	53.75	7.91	59.64	8.98
	4(39.2)	30.36	4.24	36.25	5.07	42.14	6.01	45.00	6.55	47.86	6.96	53.75	8.04	59.64	9.11
	6(42.8)	30.36	4.30	36.25	5.17	42.14	6.12	45.00	6.68	47.86	7.08	53.75	8.16	59.64	9.26
	8(46.4)	30.36	4.38	36.25	5.27	42.14	6.24	45.00	6.76	47.86	7.21	53.75	8.31	59.64	9.35
	10(50)	30.36	4.47	36.25	5.38	42.14	6.36	45.00	6.86	47.86	7.37	53.75	8.42	59.64	9.50
	12(53.6)	30.36	4.54	36.25	5.48	42.14	6.47	45.00	6.98	47.86	7.51	53.75	8.58	59.64	9.67
	14(57.2)	30.36	4.62	36.25	5.58	42.14	6.59	45.00	7.12	47.86	7.64	53.75	8.74	59.64	9.85
	16(60.8)	30.36	4.70	36.25	5.67	42.14	6.73	45.00	7.25	47.86	7.80	53.75	8.91	59.46	10.02
	18(64.4)	30.36	4.78	36.25	5.79	42.14	6.84	45.00	7.39	47.86	7.96	53.75	9.09	58.75	10.34
	20(68)	30.36	4.87	36.25	5.92	42.14	6.98	45.00	7.55	47.86	8.25	53.75	9.77	57.86	10.82
	21(69.8)	30.36	4.91	36.25	5.97	42.14	7.10	45.00	7.80	47.86	8.54	53.75	10.12	57.50	11.08
	23(73.4)	30.36	5.01	36.25	6.20	42.14	7.60	45.00	8.37	47.86	9.16	53.75	10.86	56.61	11.58
	25(77)	30.36	5.28	36.25	6.63	42.14	8.13	45.00	8.95	47.86	9.79	53.75	11.62	55.89	12.09
	27(80.6)	30.36	5.62	36.25	7.06	42.14	8.68	45.00	9.56	47.86	10.47	53.75	12.44	55.00	12.60
	29(84.2)	30.36	5.99	36.25	7.53	42.14	9.26	45.00	10.20	47.86	11.19	53.21	13.01	54.28	13.10
	31(87.8)	30.36	6.36	36.25	8.02	42.14	9.87	45.00	10.88	47.86	11.93	52.32	13.51	53.39	13.63
	33(91.4)	30.36	6.75	36.25	8.52	42.14	10.53	45.00	11.60	47.86	12.73	51.61	14.04	52.68	14.14
35(95)	30.36	7.18	36.25	9.07	42.14	11.21	45.00	12.36	47.86	13.57	50.72	14.55	51.79	14.66	
37(98.6)	30.36	7.60	36.25	9.63	42.14	11.93	45.00	13.16	47.86	14.47	49.82	15.05	51.07	15.17	
39(102.2)	30.36	8.07	36.25	10.26	42.14	12.69	45.00	14.02	47.86	15.41	49.11	15.58	50.18	15.70	
41(105.8)	30.36	8.35	36.25	10.72	42.14	13.16	45.00	14.39	47.86	15.50	48.77	15.98	49.84	16.07	
43(109.4)	30.36	8.75	36.25	11.18	42.14	13.62	45.00	14.76	47.86	15.83	48.52	16.19	49.41	16.32	
45(113)	30.36	9.31	36.25	11.74	42.14	14.18	45.00	15.26	47.86	16.27	48.25	16.35	48.66	16.54	
48(118.4)	30.36	10.05	36.25	12.48	42.14	14.92	45.00	16.00	47.86	16.63	48.06	16.69	48.29	16.81	
80%	-5(23)	26.96	3.54	32.14	4.19	37.32	4.96	40.00	5.27	42.68	5.68	47.86	6.56	53.04	7.49
	-2(28.4)	26.96	3.59	32.14	4.24	37.32	5.00	40.00	5.35	42.68	5.73	47.86	6.62	53.04	7.56
	0(32)	26.96	3.66	32.14	4.29	37.32	5.06	40.00	5.42	42.68	5.83	47.86	6.72	53.04	7.66
	2(35.6)	26.96	3.73	32.14	4.35	37.32	5.13	40.00	5.52	42.68	5.94	47.86	6.85	53.04	7.81
	4(39.2)	26.96	3.79	32.14	4.43	37.32	5.23	40.00	5.64	42.68	6.04	47.86	6.98	53.04	7.91
	6(42.8)	26.96	3.85	32.14	4.53	37.32	5.31	40.00	5.77	42.68	6.15	47.86	7.08	53.04	8.05
	8(46.4)	26.96	3.93	32.14	4.63	37.32	5.44	40.00	5.86	42.68	6.29	47.86	7.19	53.04	8.21
	10(50)	26.96	3.96	32.14	4.74	37.32	5.58	40.00	6.01	42.68	6.44	47.86	7.35	53.04	8.29
	12(53.6)	26.96	4.02	32.14	4.82	37.32	5.67	40.00	6.12	42.68	6.57	47.86	7.49	53.04	8.44
	14(57.2)	26.96	4.10	32.14	4.91	37.32	5.77	40.00	6.22	42.68	6.69	47.86	7.63	53.04	8.60
	16(60.8)	26.96	4.15	32.14	4.99	37.32	5.89	40.00	6.34	42.68	6.81	47.86	7.78	53.04	8.76
	18(64.4)	26.96	4.23	32.14	5.09	37.32	6.01	40.00	6.47	42.68	6.94	47.86	7.94	53.04	8.93
	20(68)	26.96	4.31	32.14	5.19	37.32	6.12	40.00	6.59	42.68	7.08	47.86	8.23	53.04	9.56
	21(69.8)	26.96	4.35	32.14	5.23	37.32	6.18	40.00	6.67	42.68	7.24	47.86	8.52	53.04	9.91
	23(73.4)	26.96	4.43	32.14	5.34	37.32	6.47	40.00	7.10	42.68	7.74	47.86	9.13	53.04	10.63
	25(77)	26.96	4.56	32.14	5.67	37.32	6.92	40.00	7.59	42.68	8.27	47.86	9.77	53.04	11.37
	27(80.6)	26.96	4.86	32.14	6.05	37.32	7.37	40.00	8.09	42.68	8.83	47.86	10.43	53.04	12.17
	29(84.2)	26.96	5.17	32.14	6.44	37.32	7.86	40.00	8.62	42.68	9.44	47.86	11.14	53.04	13.01
	31(87.8)	26.96	5.48	32.14	6.85	37.32	8.37	40.00	9.19	42.68	10.06	47.86	11.90	52.14	13.52
	33(91.4)	26.96	5.83	32.14	7.27	37.32	8.91	40.00	9.79	42.68	10.71	47.86	12.68	51.43	14.02
35(95)	26.96	6.18	32.14	7.74	37.32	9.48	40.00	10.41	42.68	11.41	47.86	13.52	50.54	14.53	
37(98.6)	26.96	6.55	32.14	8.21	37.32	10.08	40.00	11.10	42.68	12.15	47.86	14.41	49.82	15.04	
39(102.2)	26.96	6.94	32.14	8.76	37.32	10.73	40.00	11.80	42.68	12.93	47.86	15.35	48.93	15.56	
41(105.8)	26.96	7.10	32.14	8.83	37.32	10.88	40.00	12.11	42.68	13.16	47.86	15.74	48.63	15.84	
43(109.4)	26.96	7.31	32.14	8.91	37.32	11.04	40.00	12.32	42.68	13.35	47.86	15.92	48.33	16.01	
45(113)	26.96	7.52	32.14	9.02	37.32	11.25	40.00	12.58	42.68	13.58	47.86	16.10	47.73	16.27	
48(118.4)	26.96	7.67	32.14	9.17	37.32	11.58	40.00	13.05	42.68	13.96	47.86	16.46	47.33	16.82	

Cooling capacity table

MV5-X500W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	23.57	3.16	28.21	3.71	32.68	4.20	35.00	4.50	37.32	4.81	41.79	5.50	46.43	6.32
	-2(28.4)	23.57	3.19	28.21	3.72	32.68	4.23	35.00	4.59	37.32	4.89	41.79	5.58	46.43	6.41
	0(32)	23.57	3.20	28.21	3.78	32.68	4.31	35.00	4.68	37.32	4.98	41.79	5.70	46.43	6.49
	2(35.6)	23.57	3.22	28.21	3.79	32.68	4.38	35.00	4.76	37.32	5.07	41.79	5.82	46.43	6.60
	4(39.2)	23.57	3.26	28.21	3.89	32.68	4.48	35.00	4.85	37.32	5.18	41.79	5.91	46.43	6.75
	6(42.8)	23.57	3.32	28.21	3.96	32.68	4.59	35.00	5.00	37.32	5.30	41.79	6.02	46.43	6.88
	8(46.4)	23.57	3.38	28.21	4.07	32.68	4.69	35.00	5.08	37.32	5.41	41.79	6.19	46.43	7.01
	10(50)	23.57	3.45	28.21	4.13	32.68	4.82	35.00	5.19	37.32	5.56	41.79	6.32	46.43	7.10
	12(53.6)	23.57	3.53	28.21	4.19	32.68	4.91	35.00	5.29	37.32	5.66	41.79	6.44	46.43	7.24
	14(57.2)	23.57	3.59	28.21	4.27	32.68	4.99	35.00	5.36	37.32	5.75	41.79	6.55	46.43	7.37
	16(60.8)	23.57	3.65	28.21	4.35	32.68	5.09	35.00	5.48	37.32	5.87	41.79	6.67	46.43	7.51
	18(64.4)	23.57	3.71	28.21	4.43	32.68	5.19	35.00	5.58	37.32	5.97	41.79	6.81	46.43	7.66
	20(68)	23.57	3.76	28.21	4.51	32.68	5.29	35.00	5.68	37.32	6.08	41.79	6.94	46.43	7.88
	21(69.8)	23.57	3.80	28.21	4.54	32.68	5.32	35.00	5.73	37.32	6.14	41.79	7.04	46.43	8.15
	23(73.4)	23.57	3.86	28.21	4.62	32.68	5.44	35.00	5.93	37.32	6.46	41.79	7.55	46.43	8.74
	25(77)	23.57	3.94	28.21	4.82	32.68	5.79	35.00	6.34	37.32	6.88	41.79	8.07	46.43	9.34
	27(80.6)	23.57	4.17	28.21	5.13	32.68	6.18	35.00	6.75	37.32	7.35	41.79	8.62	46.43	9.99
	29(84.2)	23.57	4.43	28.21	5.44	32.68	6.57	35.00	7.20	37.32	7.82	41.79	9.19	46.43	10.67
	31(87.8)	23.57	4.68	28.21	5.77	32.68	7.00	35.00	7.64	37.32	8.33	41.79	9.79	46.43	11.37
	33(91.4)	23.57	4.97	28.21	6.14	32.68	7.45	35.00	8.13	37.32	8.87	41.79	10.43	46.43	12.13
35(95)	23.57	5.27	28.21	6.51	32.68	7.90	35.00	8.66	37.32	9.44	41.79	11.12	46.43	12.93	
37(98.6)	23.57	5.56	28.21	6.90	32.68	8.41	35.00	9.19	37.32	10.04	41.79	11.84	46.43	13.77	
39(102.2)	23.57	5.89	28.21	7.31	32.68	8.91	35.00	9.77	37.32	10.67	41.79	12.58	46.43	14.67	
41(105.8)	23.57	6.15	28.21	7.57	32.68	9.17	35.00	10.10	37.32	10.99	41.79	13.10	46.43	15.31	
43(109.4)	23.57	6.65	28.21	8.09	32.68	9.55	35.00	10.64	37.32	11.32	41.79	13.57	46.43	15.79	
45(113)	23.57	6.80	28.21	8.27	32.68	9.75	35.00	10.81	37.32	11.88	41.79	14.31	46.43	16.40	
48(118.4)	23.57	7.24	28.21	8.79	32.68	10.35	35.00	11.33	37.32	12.23	41.79	14.74	46.43	16.74	
60%	-5(23)	20.18	2.70	24.11	3.13	28.04	3.64	30.00	3.88	31.97	4.19	35.89	4.71	39.82	5.40
	-2(28.4)	20.18	2.71	24.11	3.18	28.04	3.71	30.00	3.94	31.97	4.24	35.89	4.78	39.82	5.44
	0(32)	20.18	2.75	24.11	3.22	28.04	3.76	30.00	3.99	31.97	4.31	35.89	4.85	39.82	5.51
	2(35.6)	20.18	2.80	24.11	3.29	28.04	3.83	30.00	4.07	31.97	4.36	35.89	4.95	39.82	5.58
	4(39.2)	20.18	2.88	24.11	3.35	28.04	3.90	30.00	4.12	31.97	4.43	35.89	5.03	39.82	5.65
	6(42.8)	20.18	2.91	24.11	3.42	28.04	3.98	30.00	4.21	31.97	4.52	35.89	5.13	39.82	5.79
	8(46.4)	20.18	2.96	24.11	3.47	28.04	4.05	30.00	4.29	31.97	4.61	35.89	5.22	39.82	5.88
	10(50)	20.18	3.02	24.11	3.55	28.04	4.11	30.00	4.41	31.97	4.70	35.89	5.32	39.82	5.97
	12(53.6)	20.18	3.08	24.11	3.61	28.04	4.19	30.00	4.48	31.97	4.78	35.89	5.42	39.82	6.06
	14(57.2)	20.18	3.12	24.11	3.67	28.04	4.25	30.00	4.56	31.97	4.87	35.89	5.52	39.82	6.18
	16(60.8)	20.18	3.16	24.11	3.72	28.04	4.33	30.00	4.64	31.97	4.95	35.89	5.62	39.82	6.30
	18(64.4)	20.18	3.22	24.11	3.78	28.04	4.41	30.00	4.72	31.97	5.05	35.89	5.71	39.82	6.41
	20(68)	20.18	3.26	24.11	3.86	28.04	4.48	30.00	4.82	31.97	5.15	35.89	5.83	39.82	6.55
	21(69.8)	20.18	3.30	24.11	3.88	28.04	4.52	30.00	4.85	31.97	5.19	35.89	5.89	39.82	6.61
	23(73.4)	20.18	3.33	24.11	3.96	28.04	4.60	30.00	4.95	31.97	5.28	35.89	6.12	39.82	7.04
	25(77)	20.18	3.39	24.11	4.02	28.04	4.78	30.00	5.19	31.97	5.62	35.89	6.53	39.82	7.51
	27(80.6)	20.18	3.53	24.11	4.27	28.04	5.09	30.00	5.54	31.97	5.99	35.89	6.96	39.82	8.01
	29(84.2)	20.18	3.72	24.11	4.52	28.04	5.42	30.00	5.89	31.97	6.38	35.89	7.43	39.82	8.56
	31(87.8)	20.18	3.96	24.11	4.80	28.04	5.75	30.00	6.26	31.97	6.79	35.89	7.90	39.82	9.11
	33(91.4)	20.18	4.17	24.11	5.09	28.04	6.10	30.00	6.65	31.97	7.21	35.89	8.40	39.82	9.71
35(95)	20.18	4.43	24.11	5.40	28.04	6.47	30.00	7.06	31.97	7.66	35.89	8.95	39.82	10.33	
37(98.6)	20.18	4.68	24.11	5.71	28.04	6.86	30.00	7.49	31.97	8.13	35.89	9.52	39.82	11.00	
39(102.2)	20.18	4.93	24.11	6.04	28.04	7.27	30.00	7.94	31.97	8.64	35.89	10.10	39.82	11.70	
41(105.8)	20.18	5.09	24.11	6.31	28.04	7.54	30.00	8.25	31.97	8.96	35.89	10.58	39.82	12.23	
43(109.4)	20.18	5.25	24.11	6.57	28.04	7.80	30.00	8.50	31.97	9.27	35.89	11.03	39.82	12.76	
45(113)	20.18	5.50	24.11	6.90	28.04	8.12	30.00	8.82	31.97	9.73	35.89	11.52	39.82	13.46	
48(118.4)	20.18	5.92	24.11	7.37	28.04	8.54	30.00	9.35	31.97	10.48	35.89	12.13	39.82	14.52	

Cooling capacity table

MV5-X500W/V2GN1

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	16.88	2.34	20.18	2.71	23.39	3.11	25.00	3.26	26.61	3.44	29.82	3.91	33.22	4.21
	-2(28.4)	16.88	2.36	20.18	2.76	23.39	3.14	25.00	3.30	26.61	3.50	29.82	3.96	33.22	4.27
	0(32)	16.88	2.40	20.18	2.81	23.39	3.20	25.00	3.35	26.61	3.54	29.82	4.03	33.22	4.34
	2(35.6)	16.88	2.43	20.18	2.84	23.39	3.26	25.00	3.40	26.61	3.60	29.82	4.04	33.22	4.43
	4(39.2)	16.88	2.46	20.18	2.89	23.39	3.29	25.00	3.44	26.61	3.67	29.82	4.14	33.22	4.54
	6(42.8)	16.88	2.50	20.18	2.94	23.39	3.34	25.00	3.52	26.61	3.74	29.82	4.21	33.22	4.67
	8(46.4)	16.88	2.56	20.18	2.99	23.39	3.40	25.00	3.59	26.61	3.79	29.82	4.28	33.22	4.82
	10(50)	16.88	2.61	20.18	3.02	23.39	3.45	25.00	3.65	26.61	3.90	29.82	4.39	33.22	4.89
	12(53.6)	16.88	2.63	20.18	3.06	23.39	3.51	25.00	3.72	26.61	3.98	29.82	4.47	33.22	4.97
	14(57.2)	16.88	2.67	20.18	3.10	23.39	3.55	25.00	3.80	26.61	4.04	29.82	4.54	33.22	5.07
	16(60.8)	16.88	2.71	20.18	3.14	23.39	3.61	25.00	3.86	26.61	4.10	29.82	4.62	33.22	5.15
	18(64.4)	16.88	2.75	20.18	3.20	23.39	3.67	25.00	3.92	26.61	4.17	29.82	4.70	33.22	5.25
	20(68)	16.88	2.79	20.18	3.24	23.39	3.72	25.00	3.98	26.61	4.25	29.82	4.78	33.22	5.34
	21(69.8)	16.88	2.81	20.18	3.28	23.39	3.76	25.00	4.02	26.61	4.29	29.82	4.84	33.22	5.40
	23(73.4)	16.88	2.85	20.18	3.32	23.39	3.82	25.00	4.10	26.61	4.37	29.82	4.91	33.22	5.52
	25(77)	16.88	2.89	20.18	3.37	23.39	3.90	25.00	4.17	26.61	4.50	29.82	5.17	33.22	5.89
	27(80.6)	16.88	2.94	20.18	3.51	23.39	4.11	25.00	4.45	26.61	4.78	29.82	5.50	33.22	6.28
	29(84.2)	16.88	3.10	20.18	3.70	23.39	4.37	25.00	4.72	26.61	5.09	29.82	5.85	33.22	6.69
	31(87.8)	16.88	3.28	20.18	3.92	23.39	4.62	25.00	5.01	26.61	5.40	29.82	6.22	33.22	7.12
	33(91.4)	16.88	3.47	20.18	4.15	23.39	4.91	25.00	5.30	26.61	5.73	29.82	6.61	33.22	7.57
35(95)	16.88	3.67	20.18	4.39	23.39	5.19	25.00	5.62	26.61	6.07	29.82	7.02	33.22	8.03	
37(98.6)	16.88	3.86	20.18	4.64	23.39	5.50	25.00	5.95	26.61	6.43	29.82	7.45	33.22	8.54	
39(102.2)	16.88	4.08	20.18	4.89	23.39	5.81	25.00	6.30	26.61	6.82	29.82	7.90	33.22	9.07	
41(105.8)	16.88	4.24	20.18	5.10	23.39	6.02	25.00	6.59	26.61	7.12	29.82	8.32	33.22	9.49	
43(109.4)	16.88	4.52	20.18	5.46	23.39	6.23	25.00	6.89	26.61	7.30	29.82	8.74	33.22	9.91	
45(113)	16.88	4.63	20.18	5.60	23.39	6.65	25.00	7.42	26.61	7.61	29.82	9.58	33.22	10.75	
48(118.4)	16.88	4.94	20.18	6.02	23.39	6.93	25.00	7.76	26.61	7.84	29.82	10.14	33.22	11.31	

Cooling capacity table

MV5-X560W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	-5(23)	49.20	6.81	58.60	8.32	67.99	8.92	70.60	9.28	73.99	9.54	75.80	10.38	77.70	10.44
	-2(28.4)	49.20	6.81	58.60	8.48	67.99	8.92	70.60	9.33	73.99	9.54	75.80	10.51	77.70	10.55
	0(32)	49.20	6.93	58.60	8.62	67.99	9.24	70.60	9.84	73.99	10.10	75.80	10.64	77.70	10.69
	2(35.6)	49.20	7.06	58.60	8.64	67.99	9.56	70.60	10.40	73.99	10.21	75.80	10.71	77.70	10.84
	4(39.2)	49.20	7.21	58.60	8.81	67.99	9.89	70.60	10.44	73.99	10.34	75.80	10.71	77.70	11.05
	6(42.8)	49.20	7.35	58.60	8.99	67.99	10.25	70.60	10.53	73.17	10.67	74.87	10.71	76.85	11.13
	8(46.4)	49.20	7.53	58.60	9.19	67.99	10.77	70.60	11.05	72.26	11.01	74.06	3.90	75.87	11.24
	10(50)	49.20	7.68	58.60	9.39	67.99	11.17	70.60	11.41	71.40	4.04	73.20	4.06	75.00	11.57
	12(53.6)	49.20	7.82	58.60	9.57	67.99	11.39	69.60	4.03	70.60	4.06	72.20	4.07	74.00	11.64
	14(57.2)	49.20	7.98	58.60	9.75	67.80	4.05	68.80	4.06	69.60	4.08	71.40	4.09	73.20	11.90
	16(60.8)	49.20	8.11	58.60	9.95	67.00	4.06	67.80	4.08	68.60	4.10	70.40	4.12	72.20	12.09
	18(64.4)	49.20	8.27	58.60	10.16	66.00	11.91	66.80	11.98	67.80	12.04	69.60	12.16	71.40	12.27
	20(68)	49.20	8.45	58.60	10.81	65.00	12.49	66.00	12.56	66.80	12.63	68.60	12.74	70.40	12.87
	21(69.8)	49.20	8.67	58.60	11.19	64.60	12.79	65.60	12.85	66.40	12.92	68.20	13.05	70.00	13.17
	23(73.4)	49.20	9.30	58.60	12.00	63.80	13.37	64.60	13.43	65.40	13.50	67.20	13.64	68.99	13.77
	25(77)	49.20	9.93	58.60	12.85	62.80	13.95	63.60	14.02	64.60	14.11	66.40	14.24	68.20	14.38
	27(80.6)	49.20	10.60	58.60	13.75	62.00	14.54	62.80	14.63	63.60	14.69	65.40	14.85	67.20	15.01
	29(84.2)	49.20	11.32	58.60	14.69	61.00	15.12	61.80	15.21	62.80	15.30	64.60	15.46	66.40	15.62
	31(87.8)	49.20	12.09	58.40	15.55	60.00	15.73	61.00	15.82	61.80	15.88	63.60	16.06	65.40	16.24
	33(91.4)	49.20	12.87	57.40	16.13	59.20	16.31	60.00	16.40	61.00	16.49	62.80	16.67	64.40	16.85
35(95)	49.20	13.73	56.40	16.72	58.20	16.92	59.20	17.01	60.00	17.10	61.80	17.30	63.60	17.48	
37(98.6)	49.20	14.61	55.60	17.32	57.40	17.53	58.20	17.62	59.20	17.73	60.80	17.93	62.60	18.13	
39(102.2)	49.20	15.55	54.60	17.50	56.40	18.11	57.40	18.22	58.20	18.33	60.00	18.54	61.80	18.76	
41(105.8)	49.20	16.36	54.03	17.67	55.81	18.28	56.81	18.39	57.61	18.50	59.40	18.57	59.43	18.93	
43(109.4)	49.20	16.78	53.64	17.76	55.51	18.33	56.51	18.48	57.01	18.53	58.32	18.61	58.72	18.97	
45(113)	49.20	17.61	53.30	17.93	54.92	18.50	55.92	18.60	56.18	18.61	56.74	18.68	57.57	19.33	
48(118.4)	49.20	18.87	53.13	18.18	54.03	18.86	55.03	18.70	55.47	18.79	55.23	18.78	56.24	20.27	
120%	-5(23)	45.40	6.58	54.00	7.97	62.80	9.43	67.20	10.28	70.40	10.72	72.00	11.06	73.60	11.35
	-2(28.4)	45.40	6.65	54.00	8.06	62.80	9.52	67.20	10.34	70.40	10.84	72.00	11.15	73.60	11.39
	0(32)	45.40	6.71	54.00	8.11	62.80	9.63	67.20	10.37	70.40	10.94	72.00	11.22	73.60	11.42
	2(35.6)	45.40	6.72	54.00	8.19	62.80	9.70	67.20	10.46	70.40	10.98	72.00	11.30	73.60	11.44
	4(39.2)	45.40	6.79	54.00	8.30	62.80	9.83	67.20	10.56	70.40	11.13	72.00	11.32	73.60	11.47
	6(42.8)	45.40	6.86	54.00	8.36	62.80	9.95	67.20	10.68	70.40	11.25	72.00	11.42	73.60	11.51
	8(46.4)	45.40	6.93	54.00	8.45	62.80	10.09	67.20	10.81	70.40	11.36	72.00	11.45	73.60	11.56
	10(50)	45.40	7.01	54.00	8.56	62.80	10.18	67.20	11.01	70.40	11.37	72.00	11.49	73.60	11.61
	12(53.6)	45.40	7.14	54.00	8.72	62.80	10.38	67.20	11.21	69.40	11.42	71.00	11.42	72.60	11.69
	14(57.2)	45.40	7.28	54.00	8.90	62.80	10.58	67.20	11.44	68.40	11.49	70.20	11.60	71.80	11.83
	16(60.8)	45.40	7.41	54.00	9.08	62.80	10.78	66.80	4.10	67.60	11.66	69.20	11.79	70.80	12.01
	18(64.4)	45.40	7.55	54.00	9.26	62.80	11.14	65.80	11.91	66.60	11.95	68.20	12.06	70.00	12.18
	20(68)	45.40	7.71	54.00	9.61	62.80	12.00	65.00	12.49	65.80	12.54	67.40	12.65	69.00	12.76
	21(69.8)	45.40	7.77	54.00	9.95	62.80	12.42	64.40	12.78	65.20	12.83	67.00	12.94	68.60	13.08
	23(73.4)	45.40	8.31	54.00	10.67	62.80	13.30	63.60	13.35	64.40	13.41	66.00	13.55	67.60	13.66
	25(77)	45.40	8.87	54.00	11.41	61.80	13.88	62.60	13.93	63.40	14.00	65.20	14.13	66.80	14.27
	27(80.6)	45.40	9.48	54.00	12.20	61.00	14.45	61.80	14.54	62.60	14.60	64.20	14.74	65.80	14.87
	29(84.2)	45.40	10.11	54.00	13.03	60.00	15.03	60.80	15.12	61.60	15.19	63.20	15.34	65.00	15.48
	31(87.8)	45.40	10.78	54.00	13.91	59.00	15.64	60.00	15.70	60.80	15.79	62.40	15.95	64.00	16.11
	33(91.4)	45.40	11.48	54.00	14.83	58.20	16.22	59.00	16.31	59.80	16.38	61.40	16.56	63.00	16.72
35(95)	45.40	12.22	54.00	15.82	57.20	16.80	58.00	16.90	59.00	16.98	60.60	17.17	62.20	17.34	
37(98.6)	45.40	13.01	54.00	16.85	56.40	17.41	57.20	17.50	58.00	17.59	59.60	17.77	61.20	17.97	
39(102.2)	45.40	13.84	53.80	17.79	55.40	18.00	56.20	18.11	57.00	18.20	58.80	18.40	60.40	18.58	
41(105.8)	45.40	14.22	53.37	17.92	54.97	18.12	55.77	18.23	56.57	18.32	58.36	18.45	58.66	18.72	
43(109.4)	45.40	14.43	53.08	18.05	54.53	18.23	55.33	18.30	56.13	18.39	57.35	18.50	57.75	19.09	
45(113)	45.40	14.60	52.79	18.22	54.01	18.40	54.75	18.48	55.64	18.53	56.19	18.56	57.17	19.51	
48(118.4)	45.40	14.85	52.34	18.47	53.31	18.63	53.88	18.71	55.03	18.89	55.32	18.91	56.42	19.76	

Cooling capacity table

MV5-X560W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	41.60	5.75	49.60	7.15	57.60	8.54	61.60	9.16	65.60	9.86	70.60	10.24	72.20	10.56
	-2(28.4)	41.60	5.86	49.60	7.25	57.60	8.61	61.60	9.26	65.60	9.94	70.60	10.34	72.20	10.61
	0(32)	41.60	5.92	49.60	7.29	57.60	8.68	61.60	9.31	65.60	10.05	70.60	10.44	72.20	10.74
	2(35.6)	41.60	6.05	49.60	7.36	57.60	8.81	61.60	9.42	65.60	10.16	70.60	10.59	72.20	10.88
	4(39.2)	41.60	6.17	49.60	7.44	57.60	8.90	61.60	9.53	65.60	10.31	70.60	10.74	72.20	10.98
	6(42.8)	41.60	6.23	49.60	7.53	57.60	8.98	61.60	9.68	65.60	10.43	70.60	10.85	72.20	11.14
	8(46.4)	41.60	6.28	49.60	7.65	57.60	9.08	61.60	9.78	65.60	10.54	70.60	10.93	72.20	11.26
	10(50)	41.60	6.36	49.60	7.75	57.60	9.21	61.60	9.95	65.60	10.72	70.60	11.00	72.20	11.36
	12(53.6)	41.60	6.49	49.60	7.91	57.60	9.39	61.60	10.16	65.60	10.92	69.81	11.17	71.20	11.51
	14(57.2)	41.60	6.61	49.60	8.04	57.60	9.57	61.60	10.34	65.60	11.12	68.80	11.26	70.40	11.59
	16(60.8)	41.60	6.72	49.60	8.20	57.60	9.75	61.60	10.54	65.60	11.35	68.00	11.39	69.40	11.71
	18(64.4)	41.60	6.85	49.60	8.36	57.60	9.95	61.60	10.83	65.60	11.89	67.00	11.97	68.60	12.09
	20(68)	41.60	6.99	49.60	8.54	57.60	10.54	61.60	11.64	64.60	12.47	66.20	12.56	67.60	12.67
	21(69.8)	41.60	7.05	49.60	8.78	57.60	10.92	61.60	12.07	64.20	12.76	65.60	12.85	67.20	12.96
	23(73.4)	41.60	7.39	49.60	9.41	57.60	11.71	61.60	12.94	63.20	13.32	64.81	13.46	66.20	13.57
	25(77)	41.60	7.89	49.60	10.06	57.60	12.51	61.60	13.86	62.40	13.91	63.80	14.04	65.40	14.16
	27(80.6)	41.60	8.40	49.60	10.76	57.60	13.39	60.60	14.45	61.40	14.49	63.00	14.63	64.40	14.76
	29(84.2)	41.60	8.96	49.60	11.48	57.60	14.31	59.80	15.03	60.60	15.10	62.00	15.23	63.60	15.37
	31(87.8)	41.60	9.55	49.60	12.25	57.60	15.28	58.80	15.62	59.60	15.68	61.20	15.82	62.60	15.97
	33(91.4)	41.60	10.16	49.60	13.05	57.20	16.11	58.00	16.20	58.80	16.27	60.20	16.42	61.80	16.58
35(95)	41.60	10.81	49.60	13.91	56.20	16.69	57.00	16.78	57.80	16.87	59.20	17.03	60.80	17.19	
37(98.6)	41.60	11.50	49.60	14.81	55.40	17.30	56.20	17.37	56.80	17.46	58.40	17.64	59.80	17.79	
39(102.2)	41.60	12.22	49.60	15.77	54.40	17.88	55.20	17.97	56.00	18.06	57.40	18.24	59.00	18.42	
41(105.8)	41.60	12.35	49.60	15.90	53.98	18.01	54.77	18.10	55.58	18.19	56.67	18.37	57.23	18.55	
43(109.4)	41.60	12.47	49.60	16.10	53.55	18.14	54.35	18.23	55.15	18.32	56.17	18.44	56.35	18.93	
45(113)	41.60	12.88	49.60	16.19	53.01	18.30	53.78	18.45	54.66	18.48	55.60	18.94	55.82	19.37	
48(118.4)	41.60	13.20	49.60	16.44	52.24	18.56	52.92	18.74	54.04	18.85	54.68	19.68	55.10	20.37	
100%	-5(23)	37.80	5.23	45.00	6.30	52.40	7.50	56.00	8.03	59.60	8.72	67.00	9.94	70.80	10.37
	-2(28.4)	37.80	5.30	45.00	6.38	52.40	7.58	56.00	8.18	59.60	8.84	67.00	10.05	70.80	10.44
	0(32)	37.80	5.35	45.00	6.45	52.40	7.67	56.00	8.28	59.60	8.92	67.00	10.22	70.80	10.55
	2(35.6)	37.80	5.46	45.00	6.54	52.40	7.75	56.00	8.39	59.60	9.02	67.00	10.37	70.80	10.72
	4(39.2)	37.80	5.50	45.00	6.60	52.40	7.87	56.00	8.52	59.60	9.14	67.00	10.47	70.80	10.84
	6(42.8)	37.80	5.58	45.00	6.73	52.40	7.97	56.00	8.67	59.60	9.27	67.00	10.62	70.80	11.00
	8(46.4)	37.80	5.68	45.00	6.83	52.40	8.11	56.00	8.77	59.60	9.42	67.00	10.79	70.80	11.19
	10(50)	37.80	5.75	45.00	6.96	52.40	8.24	56.00	8.92	59.60	9.59	67.00	10.96	70.80	11.35
	12(53.6)	37.80	5.84	45.00	7.10	52.40	8.40	56.00	9.08	59.60	9.77	67.00	11.17	69.80	11.43
	14(57.2)	37.80	5.95	45.00	7.23	52.40	8.56	56.00	9.26	59.60	9.95	67.00	11.39	69.00	11.57
	16(60.8)	37.80	6.07	45.00	7.37	52.40	8.74	56.00	9.44	59.60	10.16	66.60	11.53	68.00	11.71
	18(64.4)	37.80	6.18	45.00	7.50	52.40	8.90	56.00	9.62	59.60	10.36	65.80	11.91	67.20	12.00
	20(68)	37.80	6.29	45.00	7.66	52.40	9.17	56.00	10.11	59.60	11.10	64.80	12.47	66.20	12.58
	21(69.8)	37.80	6.36	45.00	7.73	52.40	9.50	56.00	10.47	59.60	11.48	64.40	12.76	65.80	12.87
	23(73.4)	37.80	6.51	45.00	8.24	52.40	10.18	56.00	11.21	59.60	12.31	63.60	13.34	64.80	13.46
	25(77)	37.80	6.94	45.00	8.81	52.40	10.90	56.00	12.02	59.60	13.19	62.60	13.93	64.00	14.04
	27(80.6)	37.80	7.41	45.00	9.39	52.40	11.64	56.00	12.85	59.60	14.11	61.60	14.51	63.00	14.65
	29(84.2)	37.80	7.88	45.00	10.02	52.40	12.42	56.00	13.73	59.40	14.98	60.80	15.12	62.20	15.23
	31(87.8)	37.80	8.40	45.00	10.69	52.40	13.25	56.00	14.65	58.60	15.57	59.80	15.70	61.20	15.84
	33(91.4)	37.80	8.92	45.00	11.39	52.40	14.13	56.00	15.64	57.60	16.15	59.00	16.29	60.40	16.44
35(95)	37.80	9.48	45.00	12.11	52.40	15.07	56.00	16.67	56.60	16.74	58.00	16.89	59.40	17.03	
37(98.6)	37.80	10.09	45.00	12.90	52.40	16.06	54.99	17.25	55.80	17.34	57.20	17.50	58.40	17.64	
39(102.2)	37.80	10.72	45.00	13.70	52.40	17.10	54.20	17.84	54.80	17.93	56.20	18.09	57.60	18.27	
41(105.8)	37.80	11.22	45.00	14.20	52.40	17.72	53.36	17.96	54.38	18.20	55.55	18.51	56.76	18.64	
43(109.4)	37.80	11.72	45.00	14.70	52.40	18.05	52.52	18.17	53.98	18.38	55.22	18.63	55.76	18.85	
45(113)	37.80	12.38	45.00	15.37	52.40	18.36	52.47	18.42	53.70	18.71	54.64	18.92	55.09	19.10	
48(118.4)	37.80	13.38	45.00	16.37	52.40	18.67	52.43	18.92	53.62	19.42	54.20	19.46	54.76	19.60	

Cooling capacity table

MV5-X560W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	34.00	4.63	40.60	5.55	47.20	6.55	50.40	7.15	53.60	7.61	60.20	8.75	66.80	10.01
	-2(28.4)	34.00	4.67	40.60	5.61	47.20	6.64	50.40	7.25	53.60	7.70	60.20	8.83	66.80	10.11
	0(32)	34.00	4.74	40.60	5.68	47.20	6.74	50.40	7.34	53.60	7.80	60.20	8.93	66.80	10.19
	2(35.6)	34.00	4.81	40.60	5.75	47.20	6.81	50.40	7.45	53.60	7.92	60.20	9.12	66.80	10.34
	4(39.2)	34.00	4.89	40.60	5.84	47.20	6.92	50.40	7.55	53.60	8.02	60.20	9.26	66.80	10.49
	6(42.8)	34.00	4.95	40.60	5.95	47.20	7.05	50.40	7.69	53.60	8.16	60.20	9.40	66.80	10.67
	8(46.4)	34.00	5.05	40.60	6.07	47.20	7.19	50.40	7.79	53.60	8.30	60.20	9.58	66.80	10.77
	10(50)	34.00	5.14	40.60	6.20	47.20	7.32	50.40	7.91	53.60	8.49	60.20	9.70	66.80	10.94
	12(53.6)	34.00	5.23	40.60	6.31	47.20	7.46	50.40	8.04	53.60	8.65	60.20	9.88	66.80	11.14
	14(57.2)	34.00	5.32	40.60	6.42	47.20	7.59	50.40	8.20	53.60	8.81	60.20	10.06	66.80	11.34
	16(60.8)	34.00	5.41	40.60	6.54	47.20	7.75	50.40	8.36	53.60	8.99	60.20	10.27	66.60	11.55
	18(64.4)	34.00	5.50	40.60	6.67	47.20	7.88	50.40	8.51	53.60	9.17	60.20	10.47	65.80	11.91
	20(68)	34.00	5.62	40.60	6.83	47.20	8.04	50.40	8.69	53.60	9.50	60.20	11.25	64.80	12.47
	21(69.8)	34.00	5.66	40.60	6.87	47.20	8.18	50.40	8.99	53.60	9.84	60.20	11.66	64.40	12.76
	23(73.4)	34.00	5.77	40.60	7.14	47.20	8.76	50.40	9.64	53.60	10.56	60.20	12.51	63.40	13.34
	25(77)	34.00	6.09	40.60	7.64	47.20	9.37	50.40	10.31	53.60	11.28	60.20	13.39	62.60	13.93
	27(80.6)	34.00	6.47	40.60	8.13	47.20	10.00	50.40	11.01	53.60	12.06	60.20	14.33	61.60	14.51
	29(84.2)	34.00	6.90	40.60	8.67	47.20	10.67	50.40	11.75	53.60	12.90	59.60	14.98	60.80	15.10
	31(87.8)	34.00	7.32	40.60	9.23	47.20	11.37	50.40	12.54	53.60	13.75	58.60	15.57	59.80	15.70
	33(91.4)	34.00	7.77	40.60	9.82	47.20	12.13	50.40	13.37	53.60	14.67	57.80	16.17	59.00	16.29
35(95)	34.00	8.27	40.60	10.45	47.20	12.92	50.40	14.24	53.60	15.64	56.80	16.76	58.00	16.89	
37(98.6)	34.00	8.76	40.60	11.10	47.20	13.75	50.40	15.16	53.60	16.67	55.80	17.34	57.20	17.48	
39(102.2)	34.00	9.30	40.60	11.82	47.20	14.62	50.40	16.15	53.60	17.75	55.00	17.95	56.20	18.08	
41(105.8)	34.00	9.62	40.60	12.35	47.20	15.16	50.40	16.58	53.60	17.85	54.62	18.41	55.82	18.51	
43(109.4)	34.00	10.08	40.60	12.89	47.20	15.69	50.40	17.01	53.60	18.24	54.34	18.65	55.34	18.80	
45(113)	34.00	10.72	40.60	13.53	47.20	16.33	50.40	17.58	53.60	18.74	54.04	18.84	54.50	19.05	
48(118.4)	34.00	11.58	40.60	14.38	47.20	17.19	50.40	18.43	53.60	19.16	53.83	19.22	54.08	19.37	
80%	-5(23)	30.20	4.08	36.00	4.82	41.80	5.71	44.80	6.07	47.80	6.54	53.60	7.56	59.40	8.63
	-2(28.4)	30.20	4.14	36.00	4.88	41.80	5.76	44.80	6.17	47.80	6.60	53.60	7.63	59.40	8.71
	0(32)	30.20	4.21	36.00	4.94	41.80	5.83	44.80	6.24	47.80	6.72	53.60	7.74	59.40	8.83
	2(35.6)	30.20	4.30	36.00	5.01	41.80	5.91	44.80	6.36	47.80	6.84	53.60	7.89	59.40	9.00
	4(39.2)	30.20	4.37	36.00	5.10	41.80	6.03	44.80	6.50	47.80	6.96	53.60	8.04	59.40	9.12
	6(42.8)	30.20	4.44	36.00	5.22	41.80	6.12	44.80	6.65	47.80	7.09	53.60	8.16	59.40	9.27
	8(46.4)	30.20	4.52	36.00	5.34	41.80	6.26	44.80	6.75	47.80	7.25	53.60	8.28	59.40	9.45
	10(50)	30.20	4.56	36.00	5.46	41.80	6.43	44.80	6.92	47.80	7.41	53.60	8.47	59.40	9.55
	12(53.6)	30.20	4.63	36.00	5.55	41.80	6.54	44.80	7.05	47.80	7.57	53.60	8.63	59.40	9.73
	14(57.2)	30.20	4.72	36.00	5.66	41.80	6.65	44.80	7.17	47.80	7.71	53.60	8.78	59.40	9.91
	16(60.8)	30.20	4.79	36.00	5.75	41.80	6.78	44.80	7.30	47.80	7.84	53.60	8.96	59.40	10.09
	18(64.4)	30.20	4.88	36.00	5.86	41.80	6.92	44.80	7.46	47.80	8.00	53.60	9.14	59.40	10.29
	20(68)	30.20	4.97	36.00	5.98	41.80	7.05	44.80	7.59	47.80	8.16	53.60	9.48	59.40	11.01
	21(69.8)	30.20	5.01	36.00	6.02	41.80	7.12	44.80	7.68	47.80	8.34	53.60	9.82	59.40	11.41
	23(73.4)	30.20	5.10	36.00	6.16	41.80	7.46	44.80	8.18	47.80	8.92	53.60	10.51	59.40	12.24
	25(77)	30.20	5.26	36.00	6.54	41.80	7.98	44.80	8.74	47.80	9.53	53.60	11.26	59.40	13.10
	27(80.6)	30.20	5.59	36.00	6.96	41.80	8.49	44.80	9.32	47.80	10.18	53.60	12.02	59.40	14.02
	29(84.2)	30.20	5.95	36.00	7.41	41.80	9.05	44.80	9.93	47.80	10.87	53.60	12.83	59.40	14.99
	31(87.8)	30.20	6.31	36.00	7.89	41.80	9.64	44.80	10.58	47.80	11.59	53.60	13.70	58.40	15.57
	33(91.4)	30.20	6.72	36.00	8.38	41.80	10.27	44.80	11.28	47.80	12.33	53.60	14.60	57.60	16.15
35(95)	30.20	7.12	36.00	8.92	41.80	10.92	44.80	12.00	47.80	13.14	53.60	15.57	56.60	16.74	
37(98.6)	30.20	7.55	36.00	9.46	41.80	11.62	44.80	12.78	47.80	14.00	53.60	16.60	55.80	17.32	
39(102.2)	30.20	8.00	36.00	10.09	41.80	12.36	44.80	13.59	47.80	14.90	53.60	17.68	54.80	17.93	
41(105.8)	30.20	8.18	36.00	10.18	41.80	12.54	44.80	13.95	47.80	15.17	53.60	18.13	54.46	18.24	
43(109.4)	30.20	8.42	36.00	10.27	41.80	12.72	44.80	14.19	47.80	15.38	53.60	18.34	54.13	18.44	
45(113)	30.20	8.66	36.00	10.39	41.80	12.96	44.80	14.49	47.80	15.64	53.60	18.54	53.46	18.74	
48(118.4)	30.20	8.84	36.00	10.57	41.80	13.34	44.80	15.03	47.80	16.08	53.60	18.97	53.01	19.38	

Cooling capacity table

MV5-X560W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	26.40	3.64	31.60	4.27	36.60	4.84	39.20	5.19	41.80	5.54	46.80	6.33	52.00	7.28
	-2(28.4)	26.40	3.67	31.60	4.29	36.60	4.87	39.20	5.29	41.80	5.64	46.80	6.43	52.00	7.38
	0(32)	26.40	3.69	31.60	4.35	36.60	4.97	39.20	5.39	41.80	5.74	46.80	6.56	52.00	7.48
	2(35.6)	26.40	3.71	31.60	4.37	36.60	5.05	39.20	5.49	41.80	5.84	46.80	6.70	52.00	7.60
	4(39.2)	26.40	3.76	31.60	4.48	36.60	5.16	39.20	5.59	41.80	5.97	46.80	6.81	52.00	7.78
	6(42.8)	26.40	3.82	31.60	4.56	36.60	5.29	39.20	5.77	41.80	6.10	46.80	6.93	52.00	7.93
	8(46.4)	26.40	3.89	31.60	4.69	36.60	5.41	39.20	5.86	41.80	6.23	46.80	7.13	52.00	8.08
	10(50)	26.40	3.97	31.60	4.76	36.60	5.55	39.20	5.98	41.80	6.40	46.80	7.28	52.00	8.18
	12(53.6)	26.40	4.07	31.60	4.83	36.60	5.66	39.20	6.09	41.80	6.52	46.80	7.41	52.00	8.34
	14(57.2)	26.40	4.13	31.60	4.92	36.60	5.75	39.20	6.18	41.80	6.63	46.80	7.55	52.00	8.49
	16(60.8)	26.40	4.20	31.60	5.01	36.60	5.86	39.20	6.31	41.80	6.76	46.80	7.68	52.00	8.65
	18(64.4)	26.40	4.27	31.60	5.10	36.60	5.98	39.20	6.43	41.80	6.87	46.80	7.84	52.00	8.83
	20(68)	26.40	4.34	31.60	5.19	36.60	6.09	39.20	6.54	41.80	7.01	46.80	8.00	52.00	9.08
	21(69.8)	26.40	4.38	31.60	5.24	36.60	6.13	39.20	6.61	41.80	7.08	46.80	8.11	52.00	9.39
	23(73.4)	26.40	4.45	31.60	5.32	36.60	6.27	39.20	6.83	41.80	7.44	46.80	8.69	52.00	10.07
	25(77)	26.40	4.54	31.60	5.55	36.60	6.67	39.20	7.30	41.80	7.93	46.80	9.30	52.00	10.76
	27(80.6)	26.40	4.81	31.60	5.91	36.60	7.12	39.20	7.77	41.80	8.47	46.80	9.93	52.00	11.50
	29(84.2)	26.40	5.10	31.60	6.27	36.60	7.57	39.20	8.29	41.80	9.01	46.80	10.58	52.00	12.29
	31(87.8)	26.40	5.39	31.60	6.65	36.60	8.07	39.20	8.81	41.80	9.59	46.80	11.28	52.00	13.10
	33(91.4)	26.40	5.73	31.60	7.08	36.60	8.58	39.20	9.37	41.80	10.22	46.80	12.02	52.00	13.97
35(95)	26.40	6.07	31.60	7.50	36.60	9.10	39.20	9.98	41.80	10.87	46.80	12.81	52.00	14.90	
37(98.6)	26.40	6.40	31.60	7.95	36.60	9.68	39.20	10.58	41.80	11.57	46.80	13.64	52.00	15.86	
39(102.2)	26.40	6.79	31.60	8.43	36.60	10.27	39.20	11.26	41.80	12.29	46.80	14.49	52.00	16.90	
41(105.8)	26.40	7.08	31.60	8.72	36.60	10.57	39.20	11.63	41.80	12.66	46.80	15.09	52.00	17.64	
43(109.4)	26.40	7.66	31.60	9.32	36.60	11.00	39.20	12.25	41.80	13.04	46.80	15.64	52.00	18.19	
45(113)	26.40	7.83	31.60	9.52	36.60	11.23	39.20	12.45	41.80	13.69	46.80	16.49	52.00	18.89	
48(118.4)	26.40	8.34	31.60	10.12	36.60	11.93	39.20	13.05	41.80	14.09	46.80	16.98	52.00	19.29	
60%	-5(23)	22.60	3.11	27.00	3.60	31.40	4.20	33.60	4.47	35.80	4.83	40.20	5.42	44.60	6.22
	-2(28.4)	22.60	3.12	27.00	3.66	31.40	4.27	33.60	4.54	35.80	4.88	40.20	5.51	44.60	6.26
	0(32)	22.60	3.17	27.00	3.70	31.40	4.33	33.60	4.59	35.80	4.96	40.20	5.59	44.60	6.34
	2(35.6)	22.60	3.23	27.00	3.79	31.40	4.41	33.60	4.68	35.80	5.03	40.20	5.70	44.60	6.42
	4(39.2)	22.60	3.32	27.00	3.86	31.40	4.50	33.60	4.74	35.80	5.10	40.20	5.79	44.60	6.51
	6(42.8)	22.60	3.35	27.00	3.94	31.40	4.58	33.60	4.85	35.80	5.20	40.20	5.91	44.60	6.67
	8(46.4)	22.60	3.42	27.00	4.00	31.40	4.67	33.60	4.94	35.80	5.31	40.20	6.02	44.60	6.77
	10(50)	22.60	3.48	27.00	4.09	31.40	4.74	33.60	5.08	35.80	5.41	40.20	6.13	44.60	6.87
	12(53.6)	22.60	3.55	27.00	4.16	31.40	4.83	33.60	5.17	35.80	5.50	40.20	6.25	44.60	6.99
	14(57.2)	22.60	3.59	27.00	4.22	31.40	4.90	33.60	5.26	35.80	5.62	40.20	6.36	44.60	7.12
	16(60.8)	22.60	3.64	27.00	4.29	31.40	4.99	33.60	5.35	35.80	5.71	40.20	6.47	44.60	7.26
	18(64.4)	22.60	3.71	27.00	4.36	31.40	5.08	33.60	5.44	35.80	5.82	40.20	6.58	44.60	7.39
	20(68)	22.60	3.75	27.00	4.45	31.40	5.17	33.60	5.55	35.80	5.93	40.20	6.72	44.60	7.55
	21(69.8)	22.60	3.80	27.00	4.47	31.40	5.21	33.60	5.59	35.80	5.98	40.20	6.78	44.60	7.62
	23(73.4)	22.60	3.84	27.00	4.56	31.40	5.30	33.60	5.71	35.80	6.09	40.20	7.05	44.60	8.11
	25(77)	22.60	3.91	27.00	4.63	31.40	5.50	33.60	5.98	35.80	6.47	40.20	7.53	44.60	8.65
	27(80.6)	22.60	4.07	27.00	4.92	31.40	5.86	33.60	6.38	35.80	6.90	40.20	8.02	44.60	9.23
	29(84.2)	22.60	4.29	27.00	5.21	31.40	6.25	33.60	6.78	35.80	7.35	40.20	8.56	44.60	9.86
	31(87.8)	22.60	4.56	27.00	5.53	31.40	6.63	33.60	7.21	35.80	7.82	40.20	9.10	44.60	10.49
	33(91.4)	22.60	4.81	27.00	5.86	31.40	7.03	33.60	7.66	35.80	8.31	40.20	9.68	44.60	11.19
35(95)	22.60	5.10	27.00	6.22	31.40	7.46	33.60	8.13	35.80	8.83	40.20	10.31	44.60	11.91	
37(98.6)	22.60	5.39	27.00	6.58	31.40	7.91	33.60	8.63	35.80	9.37	40.20	10.96	44.60	12.67	
39(102.2)	22.60	5.68	27.00	6.96	31.40	8.38	33.60	9.14	35.80	9.95	40.20	11.64	44.60	13.48	
41(105.8)	22.60	5.87	27.00	7.26	31.40	8.68	33.60	9.51	35.80	10.32	40.20	12.18	44.60	14.09	
43(109.4)	22.60	6.05	27.00	7.57	31.40	8.99	33.60	9.79	35.80	10.68	40.20	12.70	44.60	14.70	
45(113)	22.60	6.33	27.00	7.95	31.40	9.35	33.60	10.16	35.80	11.21	40.20	13.27	44.60	15.51	
48(118.4)	22.60	6.82	27.00	8.49	31.40	9.84	33.60	10.77	35.80	12.08	40.20	13.98	44.60	16.73	

Cooling capacity table

MV5-X560W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	18.90	2.70	22.60	3.12	26.20	3.58	28.00	3.75	29.80	3.96	33.40	4.50	37.20	4.85
	-2(28.4)	18.90	2.72	22.60	3.18	26.20	3.62	28.00	3.80	29.80	4.03	33.40	4.56	37.20	4.92
	0(32)	18.90	2.76	22.60	3.23	26.20	3.69	28.00	3.86	29.80	4.08	33.40	4.64	37.20	5.00
	2(35.6)	18.90	2.80	22.60	3.27	26.20	3.75	28.00	3.91	29.80	4.15	33.40	4.66	37.20	5.10
	4(39.2)	18.90	2.83	22.60	3.33	26.20	3.79	28.00	3.96	29.80	4.23	33.40	4.77	37.20	5.23
	6(42.8)	18.90	2.88	22.60	3.38	26.20	3.85	28.00	4.05	29.80	4.31	33.40	4.85	37.20	5.38
	8(46.4)	18.90	2.95	22.60	3.44	26.20	3.91	28.00	4.14	29.80	4.37	33.40	4.93	37.20	5.56
	10(50)	18.90	3.01	22.60	3.48	26.20	3.98	28.00	4.21	29.80	4.49	33.40	5.05	37.20	5.64
	12(53.6)	18.90	3.03	22.60	3.53	26.20	4.04	28.00	4.29	29.80	4.58	33.40	5.14	37.20	5.73
	14(57.2)	18.90	3.08	22.60	3.57	26.20	4.09	28.00	4.38	29.80	4.65	33.40	5.23	37.20	5.84
	16(60.8)	18.90	3.12	22.60	3.62	26.20	4.16	28.00	4.45	29.80	4.72	33.40	5.32	37.20	5.93
	18(64.4)	18.90	3.17	22.60	3.68	26.20	4.22	28.00	4.52	29.80	4.81	33.40	5.41	37.20	6.04
	20(68)	18.90	3.21	22.60	3.73	26.20	4.29	28.00	4.58	29.80	4.90	33.40	5.50	37.20	6.16
	21(69.8)	18.90	3.23	22.60	3.77	26.20	4.34	28.00	4.63	29.80	4.94	33.40	5.57	37.20	6.22
	23(73.4)	18.90	3.28	22.60	3.82	26.20	4.40	28.00	4.72	29.80	5.03	33.40	5.66	37.20	6.36
	25(77)	18.90	3.32	22.60	3.89	26.20	4.49	28.00	4.81	29.80	5.19	33.40	5.95	37.20	6.78
	27(80.6)	18.90	3.39	22.60	4.04	26.20	4.74	28.00	5.12	29.80	5.50	33.40	6.34	37.20	7.23
	29(84.2)	18.90	3.57	22.60	4.27	26.20	5.03	28.00	5.44	29.80	5.86	33.40	6.74	37.20	7.71
	31(87.8)	18.90	3.77	22.60	4.52	26.20	5.32	28.00	5.77	29.80	6.22	33.40	7.17	37.20	8.20
	33(91.4)	18.90	4.00	22.60	4.78	26.20	5.66	28.00	6.11	29.80	6.60	33.40	7.62	37.20	8.72
35(95)	18.90	4.22	22.60	5.05	26.20	5.98	28.00	6.47	29.80	6.99	33.40	8.09	37.20	9.26	
37(98.6)	18.90	4.45	22.60	5.35	26.20	6.34	28.00	6.85	29.80	7.41	33.40	8.58	37.20	9.84	
39(102.2)	18.90	4.70	22.60	5.64	26.20	6.69	28.00	7.26	29.80	7.86	33.40	9.10	37.20	10.45	
41(105.8)	18.90	4.89	22.60	5.88	26.20	6.94	28.00	7.60	29.80	8.20	33.40	9.58	37.20	10.93	
43(109.4)	18.90	5.21	22.60	6.29	26.20	7.18	28.00	7.93	29.80	8.41	33.40	10.07	37.20	11.42	
45(113)	18.90	5.33	22.60	6.45	26.20	7.66	28.00	8.55	29.80	8.77	33.40	11.04	37.20	12.39	
48(118.4)	18.90	5.69	22.60	6.93	26.20	7.99	28.00	8.94	29.80	9.03	33.40	11.69	37.20	13.03	

Cooling capacity table

MV5-X615W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	-5(23)	54.03	7.67	64.35	9.36	74.67	10.04	77.53	10.45	81.26	10.74	83.24	11.68	85.33	11.76
	-2(28.4)	54.03	7.67	64.35	9.55	74.67	10.04	77.53	10.51	81.26	10.74	83.24	11.83	85.33	11.87
	0(32)	54.03	7.80	64.35	9.71	74.67	10.41	77.53	11.08	81.26	11.37	83.24	11.98	85.33	12.03
	2(35.6)	54.03	7.94	64.35	9.73	74.67	10.76	77.53	11.71	81.26	11.50	83.24	12.06	85.33	12.21
	4(39.2)	54.03	8.12	64.35	9.92	74.67	11.13	77.53	11.76	81.26	11.65	83.24	12.06	85.33	12.44
	6(42.8)	54.03	8.28	64.35	10.12	74.67	11.55	77.53	11.86	80.35	12.01	82.22	12.05	84.40	12.53
	8(46.4)	54.03	8.48	64.35	10.35	74.67	12.12	77.53	12.44	79.36	12.40	81.33	3.90	83.32	12.66
	10(50)	54.03	8.65	64.35	10.58	74.67	12.57	77.53	12.85	78.41	4.04	80.39	4.06	82.36	13.02
	12(53.6)	54.03	8.80	64.35	10.78	74.67	12.83	76.43	4.03	77.53	4.06	79.29	4.07	81.26	13.11
	14(57.2)	54.03	8.98	64.35	10.98	74.46	4.05	75.56	4.06	76.43	4.08	78.41	4.09	80.39	13.40
	16(60.8)	54.03	9.13	64.35	11.21	73.58	4.06	74.46	4.08	75.34	4.10	77.31	4.12	79.29	13.61
	18(64.4)	54.03	9.31	64.35	11.44	72.48	13.41	73.36	13.48	74.46	13.56	76.43	13.69	78.41	13.81
	20(68)	54.03	9.51	64.35	12.17	71.38	14.07	72.48	14.14	73.36	14.22	75.34	14.34	77.31	14.50
	21(69.8)	54.03	9.77	64.35	12.60	70.94	14.40	72.04	14.47	72.92	14.55	74.89	14.70	76.87	14.82
	23(73.4)	54.03	10.47	64.35	13.51	70.06	15.05	70.94	15.13	71.82	15.20	73.79	15.36	75.77	15.51
	25(77)	54.03	11.18	64.35	14.47	68.96	15.71	69.84	15.79	70.94	15.89	72.92	16.04	74.89	16.19
	27(80.6)	54.03	11.94	64.35	15.48	68.09	16.37	68.96	16.47	69.84	16.54	71.82	16.72	73.79	16.90
	29(84.2)	54.03	12.75	64.35	16.54	66.99	17.03	67.87	17.13	68.96	17.23	70.94	17.41	72.92	17.58
	31(87.8)	54.03	13.61	64.14	17.51	65.89	17.71	66.99	17.81	67.87	17.89	69.84	18.09	71.82	18.29
	33(91.4)	54.03	14.50	63.03	18.16	65.01	18.37	65.89	18.47	66.99	18.57	68.96	18.77	70.72	18.97
35(95)	54.03	15.46	61.94	18.82	63.91	19.05	65.01	19.15	65.89	19.25	67.87	19.48	69.84	19.68	
37(98.6)	54.03	16.44	61.06	19.51	63.04	19.73	63.91	19.83	65.01	19.96	66.77	20.19	68.74	20.42	
39(102.2)	54.03	17.51	59.96	19.71	61.94	20.39	63.04	20.52	63.91	20.64	65.89	20.87	67.87	21.12	
41(105.8)	54.03	18.43	59.34	19.90	61.29	20.58	62.39	20.71	63.26	20.83	65.24	20.91	65.27	21.32	
43(109.4)	54.03	18.89	58.91	20.00	60.96	20.64	62.06	20.80	62.61	20.86	64.05	20.95	64.49	21.36	
45(113)	54.03	19.83	58.54	20.19	60.31	20.83	61.41	20.94	61.70	20.96	62.31	21.03	63.22	21.77	
48(118.4)	54.03	21.24	58.35	20.47	59.34	21.23	60.43	21.05	60.92	21.16	60.66	21.14	61.76	22.83	
120%	-5(23)	49.86	7.41	59.30	8.98	68.97	10.62	73.80	11.58	77.31	12.07	79.07	12.45	80.83	12.78
	-2(28.4)	49.86	7.48	59.30	9.07	68.97	10.72	73.80	11.64	77.31	12.21	79.07	12.56	80.83	12.83
	0(32)	49.86	7.55	59.30	9.13	68.97	10.84	73.80	11.67	77.31	12.32	79.07	12.63	80.83	12.85
	2(35.6)	49.86	7.57	59.30	9.23	68.97	10.92	73.80	11.78	77.31	12.37	79.07	12.72	80.83	12.88
	4(39.2)	49.86	7.65	59.30	9.34	68.97	11.07	73.80	11.89	77.31	12.53	79.07	12.75	80.83	12.91
	6(42.8)	49.86	7.73	59.30	9.42	68.97	11.20	73.80	12.02	77.31	12.67	79.07	12.86	80.83	12.95
	8(46.4)	49.86	7.80	59.30	9.51	68.97	11.36	73.80	12.17	77.31	12.79	79.07	12.90	80.83	13.02
	10(50)	49.86	7.89	59.30	9.64	68.97	11.46	73.80	12.40	77.31	12.80	79.07	12.94	80.83	13.07
	12(53.6)	49.86	8.04	59.30	9.82	68.97	11.69	73.80	12.62	76.22	12.86	77.97	12.86	79.73	13.16
	14(57.2)	49.86	8.20	59.30	10.02	68.97	11.91	73.80	12.88	75.12	12.94	77.09	13.06	78.85	13.32
	16(60.8)	49.86	8.35	59.30	10.22	68.97	12.14	73.36	4.10	74.24	13.13	76.00	13.28	77.75	13.52
	18(64.4)	49.86	8.50	59.30	10.42	68.97	12.55	72.26	13.41	73.14	13.46	74.90	13.58	76.87	13.71
	20(68)	49.86	8.68	59.30	10.83	68.97	13.51	71.38	14.07	72.26	14.12	74.02	14.24	75.78	14.37
	21(69.8)	49.86	8.75	59.30	11.21	68.97	13.99	70.72	14.39	71.60	14.44	73.58	14.57	75.34	14.72
	23(73.4)	49.86	9.36	59.30	12.02	68.97	14.98	69.85	15.03	70.72	15.10	72.48	15.25	74.24	15.38
	25(77)	49.86	9.99	59.30	12.85	67.87	15.63	68.75	15.68	69.63	15.76	71.60	15.91	73.36	16.06
	27(80.6)	49.86	10.68	59.30	13.74	66.99	16.27	67.87	16.37	68.75	16.44	70.50	16.59	72.26	16.75
	29(84.2)	49.86	11.38	59.30	14.67	65.89	16.92	66.77	17.02	67.65	17.10	69.41	17.28	71.38	17.43
	31(87.8)	49.86	12.14	59.30	15.66	64.79	17.61	65.89	17.68	66.77	17.78	68.53	17.96	70.28	18.14
	33(91.4)	49.86	12.93	59.30	16.70	63.91	18.26	64.79	18.37	65.67	18.44	67.43	18.64	69.19	18.82
35(95)	49.86	13.76	59.30	17.81	62.82	18.92	63.70	19.02	64.79	19.12	66.55	19.33	68.31	19.53	
37(98.6)	49.86	14.65	59.30	18.97	61.94	19.61	62.82	19.71	63.70	19.81	65.45	20.01	67.21	20.24	
39(102.2)	49.86	15.58	59.08	20.04	60.84	20.26	61.72	20.39	62.60	20.49	64.57	20.72	66.33	20.92	
41(105.8)	49.86	16.01	58.61	20.18	60.36	20.41	61.24	20.53	62.12	20.63	64.10	20.78	64.42	21.08	
43(109.4)	49.86	16.25	58.29	20.32	59.89	20.53	60.77	20.61	61.64	20.71	62.98	20.83	63.42	21.50	
45(113)	49.86	16.44	57.97	20.51	59.31	20.72	60.13	20.80	61.10	20.87	61.71	20.90	62.79	21.97	
48(118.4)	49.86	16.72	57.48	20.80	58.55	20.98	59.17	21.06	60.43	21.26	60.75	21.29	61.96	22.25	

Cooling capacity table

MV5-X615W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
110%	-5(23)	45.69	6.47	54.48	8.06	63.26	9.61	67.65	10.32	72.04	11.10	77.54	11.53	79.30	11.89
	-2(28.4)	45.69	6.60	54.48	8.16	63.26	9.69	67.65	10.42	72.04	11.19	77.54	11.64	79.30	11.95
	0(32)	45.69	6.66	54.48	8.21	63.26	9.77	67.65	10.49	72.04	11.31	77.54	11.76	79.30	12.09
	2(35.6)	45.69	6.81	54.48	8.28	63.26	9.92	67.65	10.60	72.04	11.43	77.54	11.93	79.30	12.25
	4(39.2)	45.69	6.94	54.48	8.38	63.26	10.02	67.65	10.73	72.04	11.61	77.54	12.09	79.30	12.36
	6(42.8)	45.69	7.01	54.48	8.48	63.26	10.11	67.65	10.90	72.04	11.74	77.54	12.22	79.30	12.55
	8(46.4)	45.69	7.08	54.48	8.61	63.26	10.23	67.65	11.02	72.04	11.87	77.54	12.30	79.30	12.68
	10(50)	45.69	7.16	54.48	8.73	63.26	10.37	67.65	11.21	72.04	12.07	77.54	12.39	79.30	12.79
	12(53.6)	45.69	7.31	54.48	8.90	63.26	10.58	67.65	11.43	72.04	12.29	76.66	12.57	78.19	12.96
	14(57.2)	45.69	7.44	54.48	9.06	63.26	10.78	67.65	11.64	72.04	12.52	75.56	12.67	77.32	13.05
	16(60.8)	45.69	7.56	54.48	9.23	63.26	10.98	67.65	11.86	72.04	12.77	74.68	12.83	76.22	13.19
	18(64.4)	45.69	7.72	54.48	9.41	63.26	11.21	67.65	12.19	72.04	13.38	73.58	13.48	75.34	13.61
	20(68)	45.69	7.87	54.48	9.61	63.26	11.86	67.65	13.10	70.95	14.04	72.70	14.14	74.24	14.27
	21(69.8)	45.69	7.94	54.48	9.89	63.26	12.29	67.65	13.59	70.51	14.37	72.05	14.47	73.80	14.60
	23(73.4)	45.69	8.32	54.48	10.60	63.26	13.18	67.65	14.57	69.41	15.00	71.17	15.15	72.70	15.28
	25(77)	45.69	8.88	54.48	11.33	63.26	14.09	67.65	15.61	68.53	15.66	70.07	15.81	71.82	15.94
	27(80.6)	45.69	9.46	54.48	12.12	63.26	15.08	66.56	16.27	67.43	16.32	69.19	16.47	70.73	16.62
	29(84.2)	45.69	10.09	54.48	12.93	63.26	16.11	65.67	16.92	66.56	17.00	68.09	17.15	69.85	17.30
	31(87.8)	45.69	10.75	54.48	13.79	63.26	17.20	64.58	17.58	65.46	17.66	67.21	17.81	68.75	17.99
	33(91.4)	45.69	11.43	54.48	14.70	62.82	18.14	63.70	18.24	64.58	18.32	66.11	18.49	67.87	18.67
35(95)	45.69	12.17	54.48	15.66	61.72	18.80	62.60	18.90	63.48	19.00	65.02	19.18	66.78	19.35	
37(98.6)	45.69	12.95	54.48	16.67	60.84	19.48	61.72	19.56	62.38	19.66	64.14	19.86	65.67	20.04	
39(102.2)	45.69	13.76	54.48	17.76	59.75	20.14	60.62	20.24	61.51	20.34	63.04	20.54	64.80	20.74	
41(105.8)	45.69	13.90	54.48	17.90	59.28	20.28	60.15	20.38	61.04	20.48	62.24	20.68	62.85	20.89	
43(109.4)	45.69	14.04	54.48	18.13	58.81	20.42	59.68	20.52	60.57	20.62	61.68	20.76	61.88	21.31	
45(113)	45.69	14.50	54.48	18.23	58.21	20.61	59.06	20.77	60.03	20.81	61.06	21.33	61.31	21.81	
48(118.4)	45.69	14.86	54.48	18.52	57.37	20.89	58.12	21.10	59.35	21.23	60.05	22.15	60.52	22.94	
100%	-5(23)	41.51	5.89	49.42	7.10	57.55	8.45	61.50	9.05	65.45	9.82	73.58	11.19	77.75	11.67
	-2(28.4)	41.51	5.97	49.42	7.19	57.55	8.54	61.50	9.22	65.45	9.95	73.58	11.32	77.75	11.75
	0(32)	41.51	6.03	49.42	7.26	57.55	8.63	61.50	9.33	65.45	10.04	73.58	11.51	77.75	11.88
	2(35.6)	41.51	6.15	49.42	7.36	57.55	8.73	61.50	9.45	65.45	10.15	73.58	11.67	77.75	12.07
	4(39.2)	41.51	6.19	49.42	7.43	57.55	8.86	61.50	9.59	65.45	10.29	73.58	11.79	77.75	12.20
	6(42.8)	41.51	6.28	49.42	7.58	57.55	8.97	61.50	9.76	65.45	10.44	73.58	11.96	77.75	12.39
	8(46.4)	41.51	6.40	49.42	7.70	57.55	9.14	61.50	9.87	65.45	10.61	73.58	12.14	77.75	12.59
	10(50)	41.51	6.48	49.42	7.84	57.55	9.28	61.50	10.04	65.45	10.80	73.58	12.35	77.75	12.77
	12(53.6)	41.51	6.58	49.42	7.99	57.55	9.46	61.50	10.22	65.45	11.00	73.58	12.57	76.65	12.87
	14(57.2)	41.51	6.70	49.42	8.15	57.55	9.64	61.50	10.42	65.45	11.21	73.58	12.82	75.77	13.03
	16(60.8)	41.51	6.83	49.42	8.30	57.55	9.84	61.50	10.62	65.45	11.43	73.14	12.98	74.68	13.18
	18(64.4)	41.51	6.96	49.42	8.45	57.55	10.02	61.50	10.83	65.45	11.66	72.26	13.41	73.80	13.51
	20(68)	41.51	7.08	49.42	8.63	57.55	10.32	61.50	11.38	65.45	12.50	71.16	14.04	72.70	14.17
	21(69.8)	41.51	7.16	49.42	8.70	57.55	10.70	61.50	11.79	65.45	12.93	70.73	14.37	72.26	14.49
	23(73.4)	41.51	7.34	49.42	9.28	57.55	11.46	61.50	12.62	65.45	13.86	69.85	15.03	71.16	15.15
	25(77)	41.51	7.82	49.42	9.92	57.55	12.27	61.50	13.53	65.45	14.85	68.75	15.68	70.28	15.81
	27(80.6)	41.51	8.35	49.42	10.57	57.55	13.10	61.50	14.47	65.45	15.89	67.65	16.34	69.19	16.49
	29(84.2)	41.51	8.88	49.42	11.28	57.55	13.99	61.50	15.46	65.23	16.87	66.77	17.02	68.31	17.15
	31(87.8)	41.51	9.46	49.42	12.04	57.55	14.92	61.50	16.49	64.35	17.53	65.68	17.68	67.21	17.83
	33(91.4)	41.51	10.04	49.42	12.83	57.55	15.91	61.50	17.61	63.26	18.19	64.80	18.34	66.33	18.52
35(95)	41.51	10.67	49.42	13.63	57.55	16.97	61.50	18.77	62.16	18.85	63.70	19.02	65.23	19.18	
37(98.6)	41.51	11.36	49.42	14.52	57.55	18.09	60.39	19.43	61.28	19.53	62.82	19.70	64.14	19.86	
39(102.2)	41.51	12.07	49.42	15.43	57.55	19.25	59.52	20.09	60.18	20.19	61.72	20.36	63.26	20.57	
41(105.8)	41.51	12.63	49.42	15.99	57.55	19.95	58.60	20.23	59.72	20.50	61.01	20.84	62.34	20.99	
43(109.4)	41.51	13.19	49.42	16.56	57.55	20.32	57.67	20.46	59.29	20.69	60.64	20.98	61.24	21.22	
45(113)	41.51	13.94	49.42	17.31	57.55	20.67	57.62	20.74	58.98	21.07	60.01	21.30	60.50	21.50	
48(118.4)	41.51	15.07	49.42	18.43	57.55	21.02	57.58	21.31	58.89	21.87	59.52	21.91	60.13	22.07	

Cooling capacity table

MV5-X615W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
90%	-5(23)	37.34	5.21	44.59	6.25	51.84	7.38	55.35	8.05	58.86	8.56	66.11	9.85	73.36	11.28
	-2(28.4)	37.34	5.26	44.59	6.32	51.84	7.47	55.35	8.16	58.86	8.67	66.11	9.94	73.36	11.39
	0(32)	37.34	5.34	44.59	6.40	51.84	7.59	55.35	8.26	58.86	8.78	66.11	10.06	73.36	11.47
	2(35.6)	37.34	5.42	44.59	6.48	51.84	7.67	55.35	8.39	58.86	8.92	66.11	10.26	73.36	11.64
	4(39.2)	37.34	5.50	44.59	6.58	51.84	7.79	55.35	8.50	58.86	9.03	66.11	10.42	73.36	11.81
	6(42.8)	37.34	5.58	44.59	6.70	51.84	7.94	55.35	8.66	58.86	9.19	66.11	10.59	73.36	12.01
	8(46.4)	37.34	5.69	44.59	6.83	51.84	8.10	55.35	8.77	58.86	9.35	66.11	10.78	73.36	12.12
	10(50)	37.34	5.79	44.59	6.98	51.84	8.25	55.35	8.90	58.86	9.56	66.11	10.92	73.36	12.32
	12(53.6)	37.34	5.89	44.59	7.11	51.84	8.40	55.35	9.05	58.86	9.74	66.11	11.13	73.36	12.55
	14(57.2)	37.34	5.99	44.59	7.23	51.84	8.55	55.35	9.23	58.86	9.92	66.11	11.33	73.36	12.77
	16(60.8)	37.34	6.10	44.59	7.36	51.84	8.73	55.35	9.41	58.86	10.12	66.11	11.56	73.14	13.00
	18(64.4)	37.34	6.20	44.59	7.51	51.84	8.88	55.35	9.59	58.86	10.32	66.11	11.79	72.26	13.41
	20(68)	37.34	6.32	44.59	7.68	51.84	9.06	55.35	9.79	58.86	10.70	66.11	12.67	71.16	14.04
	21(69.8)	37.34	6.37	44.59	7.74	51.84	9.21	55.35	10.12	58.86	11.08	66.11	13.13	70.73	14.37
	23(73.4)	37.34	6.50	44.59	8.04	51.84	9.86	55.35	10.85	58.86	11.89	66.11	14.09	69.62	15.03
	25(77)	37.34	6.85	44.59	8.60	51.84	10.55	55.35	11.61	58.86	12.70	66.11	15.08	68.75	15.68
	27(80.6)	37.34	7.29	44.59	9.16	51.84	11.26	55.35	12.40	58.86	13.58	66.11	16.14	67.65	16.34
	29(84.2)	37.34	7.77	44.59	9.76	51.84	12.01	55.35	13.23	58.86	14.52	65.45	16.87	66.77	17.00
	31(87.8)	37.34	8.25	44.59	10.40	51.84	12.80	55.35	14.11	58.86	15.48	64.36	17.53	65.67	17.68
	33(91.4)	37.34	8.75	44.59	11.05	51.84	13.66	55.35	15.05	58.86	16.52	63.48	18.21	64.79	18.34
35(95)	37.34	9.31	44.59	11.76	51.84	14.54	55.35	16.04	58.86	17.61	62.38	18.87	63.70	19.02	
37(98.6)	37.34	9.86	44.59	12.50	51.84	15.48	55.35	17.07	58.86	18.77	61.28	19.53	62.82	19.68	
39(102.2)	37.34	10.47	44.59	13.31	51.84	16.47	55.35	18.19	58.86	19.98	60.40	20.21	61.72	20.36	
41(105.8)	37.34	10.83	44.59	13.91	51.84	17.07	55.35	18.67	58.86	20.10	59.98	20.73	61.31	20.84	
43(109.4)	37.34	11.35	44.59	14.51	51.84	17.67	55.35	19.15	58.86	20.53	59.67	20.99	60.78	21.17	
45(113)	37.34	12.08	44.59	15.23	51.84	18.39	55.35	19.79	58.86	21.10	59.34	21.21	59.85	21.45	
48(118.4)	37.34	13.04	44.59	16.19	51.84	19.35	55.35	20.75	58.86	21.57	59.11	21.64	59.39	21.81	
80%	-5(23)	33.17	4.59	39.54	5.43	45.90	6.43	49.20	6.84	52.50	7.36	58.86	8.51	65.23	9.71
	-2(28.4)	33.17	4.66	39.54	5.50	45.90	6.48	49.20	6.94	52.50	7.43	58.86	8.59	65.23	9.81
	0(32)	33.17	4.74	39.54	5.57	45.90	6.57	49.20	7.02	52.50	7.56	58.86	8.71	65.23	9.94
	2(35.6)	33.17	4.84	39.54	5.65	45.90	6.66	49.20	7.16	52.50	7.70	58.86	8.89	65.23	10.13
	4(39.2)	33.17	4.92	39.54	5.74	45.90	6.79	49.20	7.32	52.50	7.84	58.86	9.05	65.23	10.27
	6(42.8)	33.17	5.00	39.54	5.88	45.90	6.89	49.20	7.48	52.50	7.98	58.86	9.19	65.23	10.44
	8(46.4)	33.17	5.09	39.54	6.01	45.90	7.05	49.20	7.61	52.50	8.16	58.86	9.32	65.23	10.64
	10(50)	33.17	5.13	39.54	6.15	45.90	7.24	49.20	7.79	52.50	8.35	58.86	9.54	65.23	10.75
	12(53.6)	33.17	5.21	39.54	6.25	45.90	7.36	49.20	7.94	52.50	8.53	58.86	9.71	65.23	10.95
	14(57.2)	33.17	5.31	39.54	6.37	45.90	7.49	49.20	8.07	52.50	8.68	58.86	9.89	65.23	11.16
	16(60.8)	33.17	5.39	39.54	6.48	45.90	7.64	49.20	8.22	52.50	8.83	58.86	10.09	65.23	11.36
	18(64.4)	33.17	5.49	39.54	6.60	45.90	7.79	49.20	8.40	52.50	9.01	58.86	10.30	65.23	11.59
	20(68)	33.17	5.59	39.54	6.73	45.90	7.94	49.20	8.55	52.50	9.18	58.86	10.68	65.23	12.40
	21(69.8)	33.17	5.64	39.54	6.78	45.90	8.02	49.20	8.65	52.50	9.39	58.86	11.06	65.23	12.85
	23(73.4)	33.17	5.74	39.54	6.93	45.90	8.40	49.20	9.21	52.50	10.04	58.86	11.84	65.23	13.79
	25(77)	33.17	5.92	39.54	7.36	45.90	8.98	49.20	9.84	52.50	10.73	58.86	12.67	65.23	14.75
	27(80.6)	33.17	6.30	39.54	7.84	45.90	9.56	49.20	10.50	52.50	11.46	58.86	13.53	65.23	15.78
	29(84.2)	33.17	6.70	39.54	8.35	45.90	10.20	49.20	11.18	52.50	12.24	58.86	14.44	65.23	16.87
	31(87.8)	33.17	7.11	39.54	8.88	45.90	10.85	49.20	11.91	52.50	13.05	58.86	15.43	64.14	17.53
	33(91.4)	33.17	7.56	39.54	9.44	45.90	11.56	49.20	12.70	52.50	13.89	58.86	16.44	63.26	18.19
35(95)	33.17	8.02	39.54	10.04	45.90	12.29	49.20	13.51	52.50	14.80	58.86	17.53	62.16	18.85	
37(98.6)	33.17	8.50	39.54	10.65	45.90	13.08	49.20	14.39	52.50	15.76	58.86	18.69	61.28	19.50	
39(102.2)	33.17	9.01	39.54	11.36	45.90	13.91	49.20	15.31	52.50	16.77	58.86	19.91	60.18	20.19	
41(105.8)	33.17	9.21	39.54	11.46	45.90	14.12	49.20	15.71	52.50	17.08	58.86	20.42	59.81	20.54	
43(109.4)	33.17	9.48	39.54	11.56	45.90	14.32	49.20	15.98	52.50	17.31	58.86	20.65	59.44	20.76	
45(113)	33.17	9.75	39.54	11.70	45.90	14.60	49.20	16.32	52.50	17.61	58.86	20.88	58.71	21.10	
48(118.4)	33.17	9.95	39.54	11.90	45.90	15.02	49.20	16.93	52.50	18.11	58.86	21.36	58.21	21.82	

Cooling capacity table

MV5-X615W/V2GN1

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
70%	-5(23)	28.99	4.10	34.70	4.81	40.20	5.45	43.05	5.84	45.90	6.23	51.40	7.13	57.11	8.20
	-2(28.4)	28.99	4.13	34.70	4.83	40.20	5.48	43.05	5.95	45.90	6.35	51.40	7.24	57.11	8.31
	0(32)	28.99	4.16	34.70	4.90	40.20	5.59	43.05	6.07	45.90	6.46	51.40	7.39	57.11	8.42
	2(35.6)	28.99	4.18	34.70	4.92	40.20	5.68	43.05	6.18	45.90	6.57	51.40	7.55	57.11	8.56
	4(39.2)	28.99	4.23	34.70	5.04	40.20	5.81	43.05	6.29	45.90	6.72	51.40	7.67	57.11	8.76
	6(42.8)	28.99	4.30	34.70	5.13	40.20	5.95	43.05	6.49	45.90	6.87	51.40	7.81	57.11	8.93
	8(46.4)	28.99	4.38	34.70	5.28	40.20	6.09	43.05	6.59	45.90	7.02	51.40	8.03	57.11	9.10
	10(50)	28.99	4.47	34.70	5.36	40.20	6.25	43.05	6.73	45.90	7.21	51.40	8.20	57.11	9.21
	12(53.6)	28.99	4.58	34.70	5.44	40.20	6.38	43.05	6.86	45.90	7.34	51.40	8.35	57.11	9.39
	14(57.2)	28.99	4.65	34.70	5.54	40.20	6.48	43.05	6.96	45.90	7.46	51.40	8.50	57.11	9.56
	16(60.8)	28.99	4.73	34.70	5.64	40.20	6.60	43.05	7.11	45.90	7.61	51.40	8.65	57.11	9.74
	18(64.4)	28.99	4.81	34.70	5.74	40.20	6.73	43.05	7.23	45.90	7.74	51.40	8.83	57.11	9.94
	20(68)	28.99	4.88	34.70	5.84	40.20	6.86	43.05	7.36	45.90	7.89	51.40	9.01	57.11	10.22
	21(69.8)	28.99	4.93	34.70	5.89	40.20	6.91	43.05	7.44	45.90	7.97	51.40	9.13	57.11	10.57
	23(73.4)	28.99	5.01	34.70	6.00	40.20	7.06	43.05	7.69	45.90	8.37	51.40	9.79	57.11	11.33
	25(77)	28.99	5.11	34.70	6.25	40.20	7.51	43.05	8.22	45.90	8.93	51.40	10.47	57.11	12.12
	27(80.6)	28.99	5.41	34.70	6.65	40.20	8.02	43.05	8.75	45.90	9.54	51.40	11.18	57.11	12.95
	29(84.2)	28.99	5.74	34.70	7.06	40.20	8.53	43.05	9.33	45.90	10.14	51.40	11.91	57.11	13.84
	31(87.8)	28.99	6.07	34.70	7.49	40.20	9.08	43.05	9.92	45.90	10.80	51.40	12.70	57.11	14.75
	33(91.4)	28.99	6.45	34.70	7.97	40.20	9.66	43.05	10.55	45.90	11.51	51.40	13.53	57.11	15.73
35(95)	28.99	6.83	34.70	8.45	40.20	10.25	43.05	11.23	45.90	12.24	51.40	14.42	57.11	16.77	
37(98.6)	28.99	7.21	34.70	8.96	40.20	10.90	43.05	11.91	45.90	13.03	51.40	15.36	57.11	17.86	
39(102.2)	28.99	7.64	34.70	9.49	40.20	11.56	43.05	12.67	45.90	13.84	51.40	16.32	57.11	19.02	
41(105.8)	28.99	7.98	34.70	9.82	40.20	11.90	43.05	13.10	45.90	14.26	51.40	16.99	57.11	19.87	
43(109.4)	28.99	8.63	34.70	10.50	40.20	12.39	43.05	13.80	45.90	14.68	51.40	17.61	57.11	20.48	
45(113)	28.99	8.82	34.70	10.72	40.20	12.65	43.05	14.02	45.90	15.41	51.40	18.56	57.11	21.27	
48(118.4)	28.99	9.39	34.70	11.40	40.20	13.43	43.05	14.70	45.90	15.86	51.40	19.12	57.11	21.72	
60%	-5(23)	24.82	3.50	29.65	4.06	34.48	4.73	36.90	5.04	39.32	5.44	44.15	6.11	48.98	7.00
	-2(28.4)	24.82	3.52	29.65	4.12	34.48	4.81	36.90	5.11	39.32	5.49	44.15	6.20	48.98	7.05
	0(32)	24.82	3.57	29.65	4.17	34.48	4.88	36.90	5.17	39.32	5.59	44.15	6.29	48.98	7.14
	2(35.6)	24.82	3.63	29.65	4.27	34.48	4.97	36.90	5.27	39.32	5.66	44.15	6.42	48.98	7.23
	4(39.2)	24.82	3.74	29.65	4.35	34.48	5.06	36.90	5.34	39.32	5.74	44.15	6.52	48.98	7.33
	6(42.8)	24.82	3.77	29.65	4.43	34.48	5.16	36.90	5.46	39.32	5.86	44.15	6.65	48.98	7.51
	8(46.4)	24.82	3.85	29.65	4.50	34.48	5.26	36.90	5.56	39.32	5.98	44.15	6.78	48.98	7.63
	10(50)	24.82	3.92	29.65	4.60	34.48	5.34	36.90	5.72	39.32	6.10	44.15	6.90	48.98	7.74
	12(53.6)	24.82	4.00	29.65	4.68	34.48	5.44	36.90	5.82	39.32	6.20	44.15	7.03	48.98	7.87
	14(57.2)	24.82	4.05	29.65	4.75	34.48	5.51	36.90	5.92	39.32	6.32	44.15	7.16	48.98	8.02
	16(60.8)	24.82	4.10	29.65	4.83	34.48	5.62	36.90	6.02	39.32	6.42	44.15	7.28	48.98	8.17
	18(64.4)	24.82	4.17	29.65	4.91	34.48	5.72	36.90	6.12	39.32	6.55	44.15	7.41	48.98	8.32
	20(68)	24.82	4.22	29.65	5.01	34.48	5.82	36.90	6.25	39.32	6.68	44.15	7.56	48.98	8.50
	21(69.8)	24.82	4.27	29.65	5.03	34.48	5.87	36.90	6.30	39.32	6.73	44.15	7.64	48.98	8.57
	23(73.4)	24.82	4.33	29.65	5.13	34.48	5.97	36.90	6.42	39.32	6.85	44.15	7.94	48.98	9.13
	25(77)	24.82	4.40	29.65	5.21	34.48	6.20	36.90	6.73	39.32	7.28	44.15	8.47	48.98	9.74
	27(80.6)	24.82	4.58	29.65	5.54	34.48	6.60	36.90	7.18	39.32	7.77	44.15	9.03	48.98	10.39
	29(84.2)	24.82	4.83	29.65	5.87	34.48	7.03	36.90	7.64	39.32	8.27	44.15	9.64	48.98	11.10
	31(87.8)	24.82	5.13	29.65	6.22	34.48	7.46	36.90	8.12	39.32	8.80	44.15	10.24	48.98	11.81
	33(91.4)	24.82	5.41	29.65	6.60	34.48	7.92	36.90	8.62	39.32	9.36	44.15	10.90	48.98	12.60
35(95)	24.82	5.74	29.65	7.01	34.48	8.40	36.90	9.16	39.32	9.94	44.15	11.61	48.98	13.41	
37(98.6)	24.82	6.07	29.65	7.41	34.48	8.90	36.90	9.71	39.32	10.55	44.15	12.34	48.98	14.27	
39(102.2)	24.82	6.40	29.65	7.84	34.48	9.43	36.90	10.29	39.32	11.21	44.15	13.10	48.98	15.18	
41(105.8)	24.82	6.61	29.65	8.18	34.48	9.78	36.90	10.71	39.32	11.62	44.15	13.72	48.98	15.86	
43(109.4)	24.82	6.81	29.65	8.52	34.48	10.12	36.90	11.03	39.32	12.02	44.15	14.30	48.98	16.55	
45(113)	24.82	7.13	29.65	8.96	34.48	10.53	36.90	11.44	39.32	12.62	44.15	14.94	48.98	17.47	
48(118.4)	24.82	7.68	29.65	9.56	34.48	11.08	36.90	12.13	39.32	13.60	44.15	15.74	48.98	18.84	

Cooling capacity table

MV5-X615W/V2GN1

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

Combination (%)	Outdoor temperature (°C(°F) DB)	Indoor temperature(°C(°F))													
		DB:20.8(69.4) WB:14(57.2)		DB:23.3(73.9) WB:16(60.8)		DB:25.8(78.4) WB:18(64.4)		DB:27(80.6) WB:19(66.2)		DB:28.2(82.8) WB:20(68)		DB:30.7(87.3) WB:22(71.6)		DB:32(89.6) WB:24(75.2)	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
50%	-5(23)	20.76	3.04	24.82	3.51	28.77	4.04	30.75	4.23	32.73	4.46	36.68	5.07	40.85	5.46
	-2(28.4)	20.76	3.06	24.82	3.58	28.77	4.08	30.75	4.28	32.73	4.54	36.68	5.14	40.85	5.54
	0(32)	20.76	3.11	24.82	3.64	28.77	4.15	30.75	4.34	32.73	4.59	36.68	5.22	40.85	5.63
	2(35.6)	20.76	3.15	24.82	3.69	28.77	4.23	30.75	4.41	32.73	4.67	36.68	5.24	40.85	5.74
	4(39.2)	20.76	3.19	24.82	3.75	28.77	4.27	30.75	4.46	32.73	4.76	36.68	5.38	40.85	5.89
	6(42.8)	20.76	3.24	24.82	3.81	28.77	4.33	30.75	4.56	32.73	4.85	36.68	5.46	40.85	6.06
	8(46.4)	20.76	3.32	24.82	3.88	28.77	4.41	30.75	4.66	32.73	4.92	36.68	5.55	40.85	6.26
	10(50)	20.76	3.39	24.82	3.92	28.77	4.48	30.75	4.74	32.73	5.06	36.68	5.69	40.85	6.35
	12(53.6)	20.76	3.42	24.82	3.97	28.77	4.55	30.75	4.83	32.73	5.16	36.68	5.79	40.85	6.45
	14(57.2)	20.76	3.47	24.82	4.02	28.77	4.60	30.75	4.93	32.73	5.24	36.68	5.89	40.85	6.58
	16(60.8)	20.76	3.52	24.82	4.07	28.77	4.68	30.75	5.01	32.73	5.31	36.68	5.99	40.85	6.68
	18(64.4)	20.76	3.57	24.82	4.15	28.77	4.76	30.75	5.08	32.73	5.41	36.68	6.10	40.85	6.80
	20(68)	20.76	3.62	24.82	4.20	28.77	4.83	30.75	5.16	32.73	5.51	36.68	6.20	40.85	6.93
	21(69.8)	20.76	3.64	24.82	4.25	28.77	4.88	30.75	5.21	32.73	5.56	36.68	6.27	40.85	7.01
	23(73.4)	20.76	3.69	24.82	4.30	28.77	4.96	30.75	5.31	32.73	5.67	36.68	6.37	40.85	7.16
	25(77)	20.76	3.74	24.82	4.38	28.77	5.06	30.75	5.41	32.73	5.84	36.68	6.70	40.85	7.64
	27(80.6)	20.76	3.82	24.82	4.55	28.77	5.34	30.75	5.77	32.73	6.20	36.68	7.13	40.85	8.14
	29(84.2)	20.76	4.02	24.82	4.81	28.77	5.67	30.75	6.12	32.73	6.60	36.68	7.59	40.85	8.68
	31(87.8)	20.76	4.25	24.82	5.08	28.77	5.99	30.75	6.50	32.73	7.01	36.68	8.07	40.85	9.23
	33(91.4)	20.76	4.50	24.82	5.39	28.77	6.37	30.75	6.88	32.73	7.44	36.68	8.57	40.85	9.81
35(95)	20.76	4.76	24.82	5.69	28.77	6.73	30.75	7.28	32.73	7.87	36.68	9.11	40.85	10.42	
37(98.6)	20.76	5.01	24.82	6.02	28.77	7.13	30.75	7.71	32.73	8.35	36.68	9.66	40.85	11.08	
39(102.2)	20.76	5.29	24.82	6.35	28.77	7.54	30.75	8.17	32.73	8.85	36.68	10.24	40.85	11.76	
41(105.8)	20.76	5.51	24.82	6.62	28.77	7.81	30.75	8.55	32.73	9.24	36.68	10.79	40.85	12.31	
43(109.4)	20.76	5.87	24.82	7.08	28.77	8.08	30.75	8.93	32.73	9.47	36.68	11.34	40.85	12.85	
45(113)	20.76	6.00	24.82	7.26	28.77	8.63	30.75	9.63	32.73	9.87	36.68	12.43	40.85	13.95	
48(118.4)	20.76	6.41	24.82	7.81	28.77	8.99	30.75	10.06	32.73	10.16	36.68	13.16	40.85	14.68	

7.2 Heating capacity tables

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X252W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-19.8(-3.6)	-20(-4)	17.48	4.20	17.40	4.49	17.32	4.79	17.32	4.94	17.23	5.09	17.23	5.39
	-18.8(-1.8)	-19(-2.2)	17.74	4.29	17.66	4.58	17.66	4.88	17.57	5.02	17.57	5.16	17.48	5.46
	-16.7(1.9)	-17(1.4)	18.43	4.49	18.34	4.77	18.26	5.05	18.26	5.19	18.26	5.33	18.17	5.61
	-13.7(7.3)	-15(5)	19.20	4.70	19.12	4.97	19.03	5.24	19.03	5.37	18.94	5.51	18.94	5.78
	-11.8(10.8)	-13(8.6)	19.97	4.91	19.97	5.17	19.89	5.43	19.80	5.56	19.80	5.69	19.71	5.94
	-9.8(14.4)	-11(12.2)	20.92	5.12	20.83	5.37	20.74	5.62	20.74	5.74	20.74	5.86	20.66	6.11
	-9.5(14.9)	-10(14)	21.43	5.23	21.34	5.47	21.26	5.71	21.26	5.83	21.17	5.95	21.17	6.19
	-8.5(16.7)	-9.1(15.6)	21.86	5.33	21.77	5.56	21.77	5.80	21.69	5.91	21.69	6.03	21.60	6.27
	-7(19.4)	-7.6(18.3)	22.63	5.48	22.63	5.71	22.54	5.93	22.54	6.05	22.46	6.16	22.37	6.39
	-5(23)	-5.6(21.9)	23.83	5.69	23.74	5.90	23.66	6.12	23.66	6.23	23.57	6.33	23.57	6.54
	-3(26.6)	-3.7(25.3)	24.94	5.87	24.86	6.08	24.86	6.28	24.77	6.39	24.77	6.49	24.68	6.69
	0(32)	-0.7(30.7)	26.91	6.16	26.91	6.35	26.83	6.54	26.83	6.61	26.74	6.73	26.74	6.91
	3(37.4)	2.2(36)	29.05	6.41	28.97	6.59	28.89	6.77	28.89	6.85	28.89	6.95	28.80	7.12
	5(41)	4.1(39.4)	30.51	6.58	30.43	6.74	30.43	6.91	30.34	6.99	30.34	7.08	30.26	7.24
	7(44.6)	6(42.8)	32.06	6.73	31.97	6.88	31.97	7.05	31.88	7.12	31.88	7.20	30.60	6.91
	9(48.2)	7.9(46.2)	33.68	6.87	33.60	7.02	33.60	7.17	33.51	7.25	32.83	7.09	30.60	6.50
11(51.8)	9.8(49.6)	35.40	7.01	35.31	7.15	35.14	7.24	33.94	6.95	32.83	6.67	30.60	6.12	
13(55.4)	11.8(53.2)	37.28	7.14	37.20	7.28	35.14	6.78	33.94	6.51	32.83	6.26	30.60	5.74	
15(59)	13.7(56.7)	39.08	7.26	37.37	6.89	35.14	6.39	33.94	6.14	32.83	5.90	30.60	5.42	
120%	-19.8(-3.6)	-20(-4)	17.40	4.37	17.31	4.62	17.23	4.89	17.23	5.01	17.23	5.14	17.14	5.41
	-18.8(-1.8)	-19(-2.2)	17.66	4.45	17.57	4.70	17.57	4.96	17.49	5.09	17.49	5.22	17.40	5.47
	-16.7(1.9)	-17(1.4)	18.34	4.62	18.26	4.87	18.14	5.11	18.17	5.24	18.17	5.36	18.09	5.60
	-13.7(7.3)	-15(5)	19.12	4.81	19.03	5.04	18.94	5.28	18.94	5.40	18.94	5.52	18.86	5.75
	-11.8(10.8)	-13(8.6)	19.89	4.99	19.89	5.22	19.80	5.44	19.80	5.56	19.72	5.67	19.72	5.90
	-9.8(14.4)	-11(12.2)	20.83	5.18	20.74	5.39	20.74	5.61	20.66	5.72	20.66	5.83	20.57	6.04
	-9.5(14.9)	-10(14)	21.35	5.28	21.26	5.49	21.17	5.69	21.17	5.80	21.17	5.91	21.09	6.12
	-8.5(16.7)	-9.1(15.6)	21.77	5.36	21.69	5.56	21.69	5.77	21.60	5.87	21.60	5.98	21.51	6.18
	-7(19.4)	-7.6(18.3)	22.54	5.49	22.54	5.69	22.46	5.89	22.46	5.99	22.37	6.09	22.37	6.29
	-5(23)	-5.6(21.9)	23.74	5.67	23.66	5.86	23.57	6.05	23.57	6.15	23.57	6.24	23.49	6.43
	-3(26.6)	-3.7(25.3)	24.86	5.84	24.86	6.02	24.77	6.20	24.77	6.29	24.69	6.38	24.69	6.56
	0(32)	-0.7(30.7)	26.83	6.09	26.83	6.26	26.74	6.42	26.74	6.51	26.66	6.59	26.66	6.76
	3(37.4)	2.2(36)	28.97	6.32	28.89	6.47	28.89	6.62	28.80	6.70	28.80	6.78	28.20	6.74
	5(41)	4.1(39.4)	30.43	6.45	30.34	6.60	30.34	6.75	30.26	6.82	30.26	6.89	28.20	6.33
	7(44.6)	6(42.8)	31.97	6.59	31.97	6.73	31.89	6.87	31.37	6.77	30.34	6.49	28.20	5.96
	9(48.2)	7.9(46.2)	33.60	6.72	33.52	6.85	32.40	6.62	31.37	6.36	30.34	6.10	28.20	5.60
11(51.8)	9.8(49.6)	35.31	6.84	34.46	6.72	32.40	6.23	31.37	5.99	30.34	5.74	28.20	5.28	
13(55.4)	11.8(53.2)	36.60	6.77	34.46	6.30	32.40	5.84	31.37	5.62	30.34	5.40	28.20	4.97	
15(59)	13.7(56.7)	36.60	6.37	34.46	5.93	32.40	5.51	31.37	5.30	30.34	5.09	28.20	4.69	
110%	-19.8(-3.6)	-20(-4)	17.31	4.87	17.23	5.11	17.14	5.36	17.14	5.48	17.15	5.60	17.06	5.85
	-18.8(-1.8)	-19(-2.2)	17.57	4.95	17.49	5.19	17.49	5.43	17.49	5.55	17.40	5.67	17.40	5.91
	-16.7(1.9)	-17(1.4)	18.26	5.11	18.17	5.35	18.43	5.58	18.09	5.69	18.09	5.81	18.00	6.04
	-13.7(7.3)	-15(5)	19.03	5.29	18.95	5.51	18.86	5.73	18.86	5.84	18.86	5.96	18.77	6.17
	-11.8(10.8)	-13(8.6)	19.80	5.47	19.80	5.68	19.71	5.89	19.71	5.99	19.63	6.10	19.63	6.32
	-9.8(14.4)	-11(12.2)	20.74	5.64	20.66	5.84	20.66	6.05	20.57	6.15	20.57	6.25	20.57	6.45
	-9.5(14.9)	-10(14)	21.26	5.73	21.17	5.93	21.08	6.13	21.08	6.23	21.08	6.32	21.00	6.52
	-8.5(16.7)	-9.1(15.6)	21.69	5.81	21.60	6.00	21.60	6.20	21.51	6.29	21.51	6.39	21.51	6.58
	-7(19.4)	-7.6(18.3)	22.46	5.94	22.46	6.12	22.37	6.31	22.37	6.41	22.37	6.50	22.29	6.68
	-5(23)	-5.6(21.9)	23.66	6.11	23.57	6.29	23.49	6.46	23.49	6.55	23.49	6.64	23.40	6.82
	-3(26.6)	-3.7(25.3)	24.77	6.26	24.77	6.43	24.69	6.60	24.69	6.68	24.60	6.77	24.60	6.94
	0(32)	-0.7(30.7)	26.74	6.50	26.74	6.65	26.66	6.81	26.66	6.89	26.66	6.97	25.89	6.83
	3(37.4)	2.2(36)	28.89	6.72	28.80	6.86	28.80	7.00	28.71	7.07	27.77	6.78	25.89	6.22
	5(41)	4.1(39.4)	30.34	6.84	30.34	6.99	29.74	6.92	28.71	6.64	27.77	6.38	25.89	5.85
	7(44.6)	6(42.8)	31.88	6.97	31.63	7.02	29.74	6.50	28.71	6.24	27.77	5.99	25.89	5.50
	9(48.2)	7.9(46.2)	33.51	7.08	31.63	6.59	29.74	6.11	28.71	5.87	27.77	5.64	25.89	5.19
11(51.8)	9.8(49.6)	33.51	6.66	31.63	6.20	29.74	5.75	28.71	5.53	27.77	5.32	25.89	4.90	
13(55.4)	11.8(53.2)	33.51	6.25	31.63	5.82	29.74	5.41	28.71	5.20	27.77	5.00	25.89	4.61	
15(59)	13.7(56.7)	33.51	5.55	31.63	5.49	29.74	5.11	28.71	4.91	27.77	4.73	25.89	4.36	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X252W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-19.8(-3.6)	-20(-4)	17.23	5.26	17.14	5.48	17.14	5.71	17.06	5.82	17.06	5.92	16.97	6.15
	-18.8(-1.8)	-19(-2.2)	17.49	5.33	17.49	5.55	17.40	5.77	17.40	5.88	17.32	5.99	17.32	6.21
	-16.7(1.9)	-17(1.4)	18.17	5.48	18.08	5.69	18.08	5.90	18.00	6.01	18.00	6.11	18.00	6.32
	-13.7(7.3)	-15(5)	18.94	5.64	18.86	5.84	18.77	6.05	18.77	6.15	18.77	6.25	18.69	6.45
	-11.8(10.8)	-13(8.6)	19.72	5.81	19.72	5.99	19.63	6.19	19.63	6.29	19.63	6.38	19.54	6.58
	-9.8(14.4)	-11(12.2)	20.66	5.96	20.57	6.15	20.57	6.33	20.57	6.43	20.48	6.52	20.48	6.70
	-9.5(14.9)	-10(14)	21.17	6.05	21.09	6.23	21.09	6.41	21.00	6.50	21.00	6.59	20.91	6.77
	-8.5(16.7)	-9.1(15.6)	21.60	6.11	21.51	6.29	21.51	6.47	21.51	6.56	21.43	6.65	21.43	6.82
	-7(19.4)	-7.6(18.3)	22.37	6.23	22.37	6.41	22.29	6.57	22.29	6.66	22.29	6.74	22.20	6.92
	-5(23)	-5.6(21.9)	23.57	6.39	23.48	6.55	23.48	6.71	23.40	6.79	23.40	6.87	23.31	7.04
	-3(26.6)	-3.7(25.3)	24.69	6.53	24.69	5.93	24.60	6.84	24.60	6.92	24.60	6.99	23.57	6.70
	0(32)	-0.7(30.7)	26.66	6.74	26.66	6.89	26.57	7.03	26.14	6.92	25.29	6.63	23.57	6.08
	3(37.4)	2.2(36)	28.80	6.94	28.71	7.07	27.00	6.54	26.14	6.29	25.29	6.04	23.57	5.54
	5(41)	4.1(39.4)	30.26	7.07	28.71	6.64	27.00	6.15	26.14	5.92	25.29	5.68	23.57	5.23
	7(44.6)	6(42.8)	30.43	6.71	28.71	6.24	27.00	5.79	26.14	5.57	25.29	5.35	23.57	4.92
9(48.2)	7.9(46.2)	30.43	6.30	28.71	5.87	27.00	5.45	26.14	5.18	25.29	5.05	23.57	4.65	
11(51.8)	9.8(49.6)	30.43	5.93	28.71	5.53	27.00	5.14	26.14	4.95	25.29	4.76	23.57	4.39	
13(55.4)	11.8(53.2)	30.43	5.57	28.71	5.20	27.00	4.84	26.14	4.66	25.29	4.49	23.57	4.14	
15(59)	13.7(56.7)	30.43	5.26	28.71	4.91	27.00	4.57	26.14	4.41	25.29	4.24	23.57	3.93	
90%	-19.8(-3.6)	-20(-4)	17.11	5.65	17.03	5.85	17.03	6.05	16.94	6.15	16.94	6.26	16.94	6.45
	-18.8(-1.8)	-19(-2.2)	17.37	5.71	17.37	5.92	17.28	6.11	17.28	6.21	17.28	6.31	17.20	6.50
	-16.7(1.9)	-17(1.4)	18.05	5.86	17.97	6.05	17.97	6.23	17.97	6.33	17.88	6.42	17.88	6.61
	-13.7(7.3)	-15(5)	18.82	6.00	18.74	6.18	18.74	6.36	18.65	6.45	18.65	6.54	18.65	6.72
	-11.8(10.8)	-13(8.6)	19.59	6.14	19.59	6.32	19.51	6.49	19.51	6.58	19.51	6.66	19.42	6.84
	-9.8(14.4)	-11(12.2)	20.54	6.29	20.54	6.45	20.45	6.62	20.45	6.70	20.45	6.79	20.36	6.96
	-9.5(14.9)	-10(14)	21.05	6.36	20.96	6.53	20.96	6.68	20.88	6.77	20.88	6.85	20.88	7.01
	-8.5(16.7)	-9.1(15.6)	21.48	6.43	21.48	6.59	21.39	6.74	21.39	6.82	21.39	6.90	21.13	6.97
	-7(19.4)	-7.6(18.3)	22.25	6.53	22.25	6.68	22.16	6.84	22.16	6.92	22.16	6.99	21.13	6.65
	-5(23)	-5.6(21.9)	23.44	6.68	23.36	6.82	23.36	6.96	23.27	7.04	22.67	6.82	21.13	6.26
	-3(26.6)	-3.7(25.3)	24.56	6.81	24.56	6.94	24.30	6.97	23.44	6.69	22.67	6.42	21.13	5.89
	0(32)	-0.7(30.7)	26.61	7.00	25.84	6.83	24.30	6.32	23.44	6.08	22.67	5.84	21.13	5.36
	3(37.4)	2.2(36)	27.38	6.67	25.84	6.21	24.30	5.76	23.44	5.54	22.67	5.32	21.13	4.90
	5(41)	4.1(39.4)	27.38	6.27	25.84	5.84	24.30	5.43	23.44	5.22	22.67	5.02	21.13	4.62
	7(44.6)	6(42.8)	27.38	5.89	25.84	5.50	24.30	5.11	23.44	4.92	22.67	4.74	21.13	4.37
9(48.2)	7.9(46.2)	27.38	5.56	25.84	5.18	24.30	4.82	23.44	4.65	22.67	4.47	21.13	4.13	
11(51.8)	9.8(49.6)	27.38	5.23	25.84	4.89	24.30	4.56	23.44	4.39	22.67	4.23	21.13	3.91	
13(55.4)	11.8(53.2)	27.38	4.92	25.84	4.61	24.30	4.29	23.44	4.14	22.67	3.99	21.13	3.69	
15(59)	13.7(56.7)	27.38	4.65	25.84	4.35	24.30	4.07	23.44	3.92	22.67	3.78	21.13	3.50	
80%	-19.8(-3.6)	-20(-4)	17.06	6.05	16.97	6.22	16.97	6.40	16.97	6.49	16.88	6.58	16.88	6.75
	-18.8(-1.8)	-19(-2.2)	17.31	6.10	17.31	6.28	17.23	6.45	17.23	6.54	17.23	6.62	17.14	6.81
	-16.7(1.9)	-17(1.4)	18.00	6.23	17.92	6.39	17.92	6.56	17.92	6.65	17.92	6.73	17.83	6.90
	-13.7(7.3)	-15(5)	18.77	6.35	18.69	6.51	18.69	6.68	18.69	6.75	18.60	6.83	18.60	7.00
	-11.8(10.8)	-13(8.6)	19.54	6.48	19.54	6.64	19.46	6.79	19.46	6.86	19.46	6.95	18.86	6.76
	-9.8(14.4)	-11(12.2)	20.49	6.61	20.49	6.76	20.40	6.91	20.40	6.98	20.23	6.96	18.86	6.38
	-9.5(14.9)	-10(14)	21.00	6.68	20.91	6.82	20.92	6.96	20.92	7.04	20.23	6.76	18.86	6.20
	-8.5(16.7)	-9.1(15.6)	21.43	6.74	19.92	6.88	21.34	7.02	20.92	6.86	20.23	6.58	18.86	6.03
	-7(19.4)	-7.6(18.3)	22.20	6.83	22.20	6.97	21.60	6.82	20.92	6.55	20.23	6.29	18.86	5.77
	-5(23)	-5.6(21.9)	23.40	6.96	22.97	6.92	21.60	6.41	20.92	6.16	20.23	5.91	18.86	5.43
	-3(26.6)	-3.7(25.3)	24.34	6.99	22.97	6.51	21.60	6.03	20.92	5.80	20.23	5.57	18.86	5.13
	0(32)	-0.7(30.7)	24.34	6.35	22.97	5.91	21.60	5.49	20.92	5.29	20.23	5.08	18.86	4.68
	3(37.4)	2.2(36)	24.34	5.78	22.97	5.39	21.60	5.02	20.92	4.83	20.23	4.65	18.86	4.29
	5(41)	4.1(39.4)	24.34	5.44	22.97	5.08	21.60	4.73	20.92	4.56	20.23	4.39	18.86	4.05
	7(44.6)	6(42.8)	24.34	5.13	22.97	4.80	21.60	4.47	20.92	4.31	20.23	4.15	18.86	3.83
9(48.2)	7.9(46.2)	24.34	4.84	22.97	4.53	21.60	4.22	20.92	4.07	20.23	3.93	18.86	3.63	
11(51.8)	9.8(49.6)	24.34	4.57	22.97	4.28	21.60	3.99	20.92	3.85	20.23	3.71	18.86	3.44	
13(55.4)	11.8(53.2)	24.34	4.31	22.97	4.04	21.60	3.77	20.92	3.64	20.23	3.51	18.86	3.26	
15(59)	13.7(56.7)	24.34	4.08	22.97	3.83	21.60	3.58	20.92	3.45	20.23	3.33	18.86	3.10	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X252W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-19.8(-3.6)	-20(-4)	16.93	6.44	16.85	6.59	16.85	6.74	16.85	6.82	16.85	6.90	16.42	6.83
	-18.8(-1.8)	-19(-2.2)	17.19	6.49	17.19	6.64	17.10	6.79	17.10	6.86	17.10	6.95	16.42	6.68
	-16.7(1.9)	-17(1.4)	17.87	6.59	17.87	6.74	17.79	6.89	17.79	6.96	17.62	6.20	16.42	6.38
	-13.7(7.3)	-15(5)	18.64	6.71	18.56	6.85	18.56	6.99	18.22	6.89	17.62	6.61	16.42	6.06
	-11.8(10.8)	-13(8.6)	19.41	6.82	19.41	6.95	18.90	6.79	18.22	6.53	17.62	6.26	16.42	5.74
	-9.8(14.4)	-11(12.2)	20.35	6.93	20.10	6.92	18.90	6.41	18.22	6.17	17.62	5.92	16.42	5.44
	-9.5(14.9)	-10(14)	20.87	6.99	20.10	6.72	18.90	6.23	18.22	5.99	17.62	5.75	16.42	5.29
	-8.5(16.7)	-9.1(15.6)	21.29	7.03	20.10	6.54	18.90	6.06	18.22	5.83	17.62	5.60	16.42	5.15
	-7(19.4)	-7.6(18.3)	21.29	6.71	20.10	6.25	18.90	5.80	18.22	5.58	17.62	5.36	16.42	4.93
	-5(23)	-5.6(21.9)	21.29	6.31	20.10	5.88	18.90	5.46	18.22	5.25	17.62	6.20	16.42	4.65
	-3(26.6)	-3.7(25.3)	21.29	5.94	20.10	5.54	18.90	5.15	18.22	4.96	17.62	4.77	16.42	4.40
	0(32)	-0.7(30.7)	21.29	5.41	20.10	5.05	18.90	4.70	18.22	4.53	17.62	4.36	16.42	4.03
	3(37.4)	2.2(36)	21.29	4.94	20.10	4.62	18.90	4.31	18.22	4.15	17.62	4.00	16.42	3.70
	5(41)	4.1(39.4)	21.29	4.66	20.10	4.36	18.90	4.08	18.22	3.92	17.62	3.78	16.42	3.50
	7(44.6)	6(42.8)	21.29	4.41	20.10	4.13	18.90	3.85	18.22	3.71	17.62	3.59	16.42	3.32
9(48.2)	7.9(46.2)	21.29	4.17	20.10	3.90	18.90	3.65	18.22	3.52	17.62	3.40	16.42	3.15	
11(51.8)	9.8(49.6)	21.29	3.94	20.10	3.69	18.90	3.46	18.22	3.34	17.62	3.23	16.42	2.99	
13(55.4)	11.8(53.2)	21.29	3.72	20.10	3.50	18.90	3.27	18.22	3.17	17.62	3.05	16.42	2.84	
15(59)	13.7(56.7)	21.29	3.53	20.10	3.32	18.90	3.11	18.22	3.01	17.62	2.90	16.42	2.71	
60%	-19.8(-3.6)	-20(-4)	16.89	6.83	16.80	6.95	16.20	6.69	15.69	6.43	15.17	6.17	14.14	5.66
	-18.8(-1.8)	-19(-2.2)	17.14	6.87	17.14	7.00	16.20	6.55	15.69	6.29	15.17	6.04	14.14	5.54
	-16.7(1.9)	-17(1.4)	17.83	6.96	17.23	6.74	16.20	6.25	15.69	6.01	15.17	5.77	14.14	5.30
	-13.7(7.3)	-15(5)	18.26	6.89	17.23	6.41	16.20	5.94	15.69	5.71	15.17	5.49	14.14	5.05
	-11.8(10.8)	-13(8.6)	18.26	6.52	17.23	6.07	16.20	5.63	15.69	5.42	15.17	5.21	14.14	4.82
	-9.8(14.4)	-11(12.2)	18.26	6.16	17.23	5.74	16.20	5.33	15.69	5.13	15.17	4.93	14.14	4.55
	-9.5(14.9)	-10(14)	18.26	5.99	17.23	5.58	16.20	5.18	15.69	4.99	15.17	4.80	14.14	4.42
	-8.5(16.7)	-9.1(15.6)	18.26	5.83	17.23	5.44	16.20	5.05	15.69	4.86	15.17	4.68	14.14	4.32
	-7(19.4)	-7.6(18.3)	18.26	5.57	17.23	5.20	16.20	4.83	15.69	4.66	15.17	4.48	14.14	4.14
	-5(23)	-5.6(21.9)	18.26	5.25	17.23	4.90	16.20	4.56	15.69	4.40	15.17	4.23	14.14	3.92
	-3(26.6)	-3.7(25.3)	18.26	4.95	17.23	4.63	16.20	4.32	15.69	4.17	15.17	4.01	14.14	3.71
	0(32)	-0.7(30.7)	18.26	4.53	17.23	4.24	16.20	3.96	15.69	3.82	15.17	3.68	14.14	3.41
	3(37.4)	2.2(36)	18.26	4.15	17.23	3.89	16.20	3.64	15.69	3.51	15.17	3.39	14.14	3.14
	5(41)	4.1(39.4)	18.26	3.93	17.23	3.68	16.20	3.44	15.69	3.33	15.17	3.21	14.14	2.98
	7(44.6)	6(42.8)	18.26	3.71	17.23	3.49	16.20	3.26	15.69	3.16	15.17	3.05	14.14	2.83
9(48.2)	7.9(46.2)	18.26	3.52	17.23	3.31	16.20	3.10	15.69	3.00	15.17	2.89	14.14	2.70	
11(51.8)	9.8(49.6)	18.26	3.34	17.23	3.14	16.20	2.95	15.69	2.85	15.17	2.75	14.14	2.57	
13(55.4)	11.8(53.2)	18.26	3.16	17.23	2.98	16.20	2.80	15.69	2.71	15.17	2.62	14.14	2.44	
15(59)	13.7(56.7)	18.26	3.01	17.23	2.83	16.20	2.66	15.69	2.58	15.17	2.50	14.14	2.33	
50%	-19.8(-3.6)	-20(-4)	15.21	6.21	14.35	5.78	13.50	5.37	12.99	5.17	12.56	4.97	11.71	4.58
	-18.8(-1.8)	-19(-2.2)	15.21	6.08	14.35	5.66	13.50	5.26	12.99	5.06	12.56	4.86	11.71	4.49
	-16.7(1.9)	-17(1.4)	15.21	5.80	14.35	5.41	13.50	5.03	12.99	4.84	12.56	4.66	11.71	4.30
	-13.7(7.3)	-15(5)	15.21	5.52	14.35	5.15	13.50	4.79	12.99	4.62	12.56	4.44	11.71	4.11
	-11.8(10.8)	-13(8.6)	15.21	5.24	14.35	4.89	13.50	4.56	12.99	4.39	12.56	4.23	11.71	3.91
	-9.8(14.4)	-11(12.2)	15.21	4.96	14.35	4.64	13.50	4.32	12.99	4.17	12.56	4.02	11.71	3.71
	-9.5(14.9)	-10(14)	15.21	4.83	14.35	4.51	13.50	4.21	12.99	4.06	12.56	3.91	11.71	3.62
	-8.5(16.7)	-9.1(15.6)	15.21	4.71	14.35	4.41	13.50	4.11	12.99	3.96	12.56	3.82	11.71	3.53
	-7(19.4)	-7.6(18.3)	15.21	4.51	14.35	4.23	13.50	3.94	12.99	3.80	12.56	3.67	11.71	3.40
	-5(23)	-5.6(21.9)	15.21	4.26	14.35	3.99	13.50	3.73	12.99	3.60	12.56	3.47	11.71	3.22
	-3(26.6)	-3.7(25.3)	15.21	4.03	14.35	3.78	13.50	3.53	12.99	3.41	12.56	3.29	11.71	3.06
	0(32)	-0.7(30.7)	15.21	3.70	14.35	3.47	13.50	3.26	12.99	3.14	12.56	3.04	11.71	2.83
	3(37.4)	2.2(36)	15.21	3.41	14.35	3.20	13.50	3.00	12.99	2.90	12.56	2.80	11.71	2.62
	5(41)	4.1(39.4)	15.21	3.23	14.35	3.04	13.50	2.85	12.99	2.76	12.56	2.67	11.71	2.49
	7(44.6)	6(42.8)	15.21	3.07	14.35	2.89	13.50	2.71	12.99	2.62	12.56	2.54	11.71	2.38
9(48.2)	7.9(46.2)	15.21	2.91	14.35	2.74	13.50	2.58	12.99	2.50	12.56	2.42	11.71	2.26	
11(51.8)	9.8(49.6)	15.21	2.77	14.35	2.61	13.50	2.46	12.99	2.38	12.56	2.31	11.71	2.16	
13(55.4)	11.8(53.2)	15.21	2.63	14.35	2.48	13.50	2.34	12.99	2.27	12.56	2.20	11.71	2.06	
15(59)	13.7(56.7)	15.21	2.50	14.35	2.37	13.50	2.23	12.99	2.17	12.56	2.10	11.71	1.97	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X280W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-19.8(-3.6)	-20(-4)	20.40	5.21	20.30	5.58	20.20	5.95	20.20	6.13	20.10	6.32	20.10	6.69
	-18.8(-1.8)	-19(-2.2)	20.70	5.33	20.60	5.69	20.60	6.06	20.50	6.24	20.50	6.41	20.40	6.78
	-16.7(1.9)	-17(1.4)	21.50	5.58	21.40	5.92	21.30	6.28	21.30	6.45	21.30	6.62	21.20	6.97
	-13.7(7.3)	-15(5)	22.40	5.84	22.30	6.17	22.20	6.51	22.20	6.67	22.10	6.84	22.10	7.18
	-11.8(10.8)	-13(8.6)	23.30	6.09	23.30	6.42	23.20	6.74	23.10	6.90	23.10	7.06	23.00	7.38
	-9.8(14.4)	-11(12.2)	24.40	6.36	24.30	6.67	24.20	6.98	24.20	7.13	24.20	7.28	24.10	7.59
	-9.5(14.9)	-10(14)	25.00	6.50	24.90	6.79	24.80	7.09	24.80	7.24	24.70	7.39	24.70	7.69
	-8.5(16.7)	-9.1(15.6)	25.50	6.61	25.40	6.90	25.40	7.20	25.30	7.34	25.30	7.48	25.20	7.78
	-7(19.4)	-7.6(18.3)	26.40	6.80	26.40	7.09	26.30	7.37	26.30	7.51	26.20	7.65	26.10	7.93
	-5(23)	-5.6(21.9)	27.80	7.06	27.70	7.33	27.60	7.60	27.60	7.73	27.50	7.86	27.50	8.13
	-3(26.6)	-3.7(25.3)	29.10	7.29	29.00	7.55	29.00	7.80	28.90	7.93	28.90	8.06	28.80	8.31
	0(32)	-0.7(30.7)	31.40	7.65	31.40	7.89	31.30	8.12	31.30	8.20	31.20	8.36	31.20	8.59
	3(37.4)	2.2(36)	33.90	7.96	33.80	8.18	33.70	8.40	33.70	8.51	33.70	8.63	33.60	8.84
	5(41)	4.1(39.4)	35.60	8.17	35.50	8.38	35.50	8.58	35.40	8.68	35.40	8.79	35.30	8.99
	7(44.6)	6(42.8)	37.40	8.36	37.30	8.55	37.30	8.75	37.20	8.85	37.20	8.94	35.70	8.59
9(48.2)	7.9(46.2)	39.30	8.53	39.20	8.72	39.20	8.90	39.10	9.00	38.30	8.81	35.70	8.07	
11(51.8)	9.8(49.6)	41.30	8.70	41.20	8.87	41.00	8.99	39.60	8.63	38.30	8.28	35.70	7.60	
13(55.4)	11.8(53.2)	43.50	8.86	43.40	9.04	41.00	8.42	39.60	8.09	38.30	7.77	35.70	7.13	
15(59)	13.7(56.7)	45.60	9.02	43.60	8.56	41.00	7.93	39.60	7.63	38.30	7.32	35.70	6.73	
120%	-19.8(-3.6)	-20(-4)	20.30	5.42	20.20	5.74	20.10	6.07	20.10	6.22	20.10	6.39	20.00	6.71
	-18.8(-1.8)	-19(-2.2)	20.60	5.52	20.50	5.84	20.50	6.16	20.40	6.31	20.40	6.48	20.30	6.80
	-16.7(1.9)	-17(1.4)	21.40	5.74	21.30	6.05	21.17	6.35	21.20	6.51	21.20	6.66	21.10	6.96
	-13.7(7.3)	-15(5)	22.30	5.97	22.20	6.26	22.10	6.55	22.10	6.71	22.10	6.85	22.00	7.14
	-11.8(10.8)	-13(8.6)	23.20	6.20	23.20	6.48	23.10	6.76	23.10	6.91	23.00	7.04	23.00	7.32
	-9.8(14.4)	-11(12.2)	24.30	6.43	24.20	6.70	24.20	6.97	24.10	7.11	24.10	7.23	24.00	7.51
	-9.5(14.9)	-10(14)	24.90	6.55	24.80	6.82	24.70	7.07	24.70	7.21	24.70	7.33	24.60	7.60
	-8.5(16.7)	-9.1(15.6)	25.40	6.65	25.30	6.91	25.30	7.16	25.20	7.29	25.20	7.42	25.10	7.68
	-7(19.4)	-7.6(18.3)	26.30	6.82	26.30	7.07	26.20	7.31	26.20	7.44	26.10	7.56	26.10	7.81
	-5(23)	-5.6(21.9)	27.70	7.04	27.60	7.28	27.50	7.51	27.50	7.63	27.50	7.75	27.40	7.98
	-3(26.6)	-3.7(25.3)	29.00	7.25	29.00	7.48	28.90	7.70	28.90	7.81	28.80	7.93	28.80	8.14
	0(32)	-0.7(30.7)	31.30	7.56	31.30	7.77	31.20	7.97	31.20	8.08	31.10	8.18	31.10	8.39
	3(37.4)	2.2(36)	33.80	7.84	33.70	8.03	33.70	8.23	33.60	8.32	33.60	8.42	32.90	8.37
	5(41)	4.1(39.4)	35.50	8.02	35.40	8.20	35.40	8.38	35.30	8.47	35.30	8.56	32.90	7.86
	7(44.6)	6(42.8)	37.30	8.18	37.30	8.35	37.20	8.53	36.60	8.41	35.40	8.06	32.90	7.40
9(48.2)	7.9(46.2)	39.20	8.34	39.10	8.51	37.80	8.23	36.60	7.90	35.40	7.58	32.90	6.96	
11(51.8)	9.8(49.6)	41.20	8.49	40.20	8.34	37.80	7.73	36.60	7.43	35.40	7.13	32.90	6.56	
13(55.4)	11.8(53.2)	42.70	8.41	40.20	7.82	37.80	7.25	36.60	6.98	35.40	6.71	32.90	6.17	
15(59)	13.7(56.7)	42.70	7.92	40.20	7.37	37.80	6.84	36.60	6.58	35.40	6.32	32.90	5.82	
110%	-19.8(-3.6)	-20(-4)	20.20	6.05	20.10	6.35	20.00	6.66	20.00	6.81	20.01	6.96	19.90	7.27
	-18.8(-1.8)	-19(-2.2)	20.50	6.14	20.40	6.44	20.40	6.74	20.40	6.89	20.30	7.04	20.30	7.34
	-16.7(1.9)	-17(1.4)	21.30	6.35	21.20	6.64	21.50	6.93	21.10	7.07	21.10	7.22	21.00	7.50
	-13.7(7.3)	-15(5)	22.20	6.56	22.10	6.84	22.00	7.12	22.00	7.26	22.00	7.40	21.90	7.67
	-11.8(10.8)	-13(8.6)	23.10	6.79	23.10	7.05	23.00	7.31	23.00	7.44	22.90	7.57	22.90	7.84
	-9.8(14.4)	-11(12.2)	24.20	7.00	24.10	7.26	24.10	7.51	24.00	7.64	24.00	7.76	24.00	8.01
	-9.5(14.9)	-10(14)	24.80	7.12	24.70	7.36	24.60	7.61	24.60	7.73	24.60	7.85	24.50	8.10
	-8.5(16.7)	-9.1(15.6)	25.30	7.21	25.20	7.45	25.20	7.69	25.10	7.82	25.10	7.94	25.10	8.24
	-7(19.4)	-7.6(18.3)	26.20	7.38	26.20	7.60	26.10	7.83	26.10	7.96	26.10	8.07	26.00	8.30
	-5(23)	-5.6(21.9)	27.60	7.58	27.50	7.81	27.40	8.02	27.40	8.13	27.40	8.25	27.30	8.47
	-3(26.6)	-3.7(25.3)	28.90	7.78	28.90	7.98	28.80	8.20	28.80	8.30	28.70	8.40	28.70	8.62
	0(32)	-0.7(30.7)	31.20	8.07	31.20	8.26	31.10	8.46	31.10	8.55	31.10	8.66	30.20	8.49
	3(37.4)	2.2(36)	33.70	8.34	33.60	8.52	33.60	8.69	33.50	8.78	32.40	8.42	30.20	7.72
	5(41)	4.1(39.4)	35.40	8.50	35.40	8.67	34.70	8.59	33.50	8.25	32.40	7.92	30.20	7.27
	7(44.6)	6(42.8)	37.20	8.66	36.90	8.71	34.70	8.07	33.50	7.75	32.40	7.44	30.20	6.84
9(48.2)	7.9(46.2)	39.10	8.80	36.90	8.19	34.70	7.59	33.50	7.29	32.40	7.00	30.20	6.44	
11(51.8)	9.8(49.6)	39.10	8.27	36.90	7.70	34.70	7.14	33.50	6.87	32.40	6.60	30.20	6.08	
13(55.4)	11.8(53.2)	39.10	7.76	36.90	7.23	34.70	6.71	33.50	6.46	32.40	6.21	30.20	5.72	
15(59)	13.7(56.7)	39.10	6.89	36.90	6.82	34.70	6.34	33.50	6.10	32.40	5.87	30.20	5.42	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X280W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-19.8(-3.6)	-20(-4)	20.10	6.54	20.00	6.81	20.00	7.09	19.90	7.23	19.90	7.36	19.80	7.64
	-18.8(-1.8)	-19(-2.2)	20.40	6.62	20.40	6.89	20.30	7.16	20.30	7.30	20.20	7.44	20.20	7.71
	-16.7(1.9)	-17(1.4)	21.20	6.81	21.10	7.07	21.10	7.33	21.00	7.46	21.00	7.59	21.00	7.85
	-13.7(7.3)	-15(5)	22.10	7.00	22.00	7.26	21.90	7.51	21.90	7.64	21.90	7.76	21.80	8.01
	-11.8(10.8)	-13(8.6)	23.00	7.21	23.00	7.44	22.90	7.68	22.90	7.81	22.90	7.93	22.80	8.17
	-9.8(14.4)	-11(12.2)	24.10	7.40	24.00	7.64	24.00	7.86	24.00	7.98	23.90	8.10	23.90	8.32
	-9.5(14.9)	-10(14)	24.70	7.51	24.60	7.73	24.60	7.96	24.50	8.07	24.50	8.18	24.40	8.40
	-8.5(16.7)	-9.1(15.6)	25.20	7.59	25.10	7.82	25.10	8.03	25.10	8.14	25.00	8.25	25.00	8.47
	-7(19.4)	-7.6(18.3)	26.10	7.74	26.10	7.96	26.00	8.16	26.00	8.27	26.00	8.38	25.90	8.59
	-5(23)	-5.6(21.9)	27.50	7.94	27.40	8.13	27.40	8.34	27.30	8.43	27.30	8.53	27.20	8.74
	-3(26.6)	-3.7(25.3)	28.80	8.11	28.80	7.37	28.70	8.50	28.70	8.59	28.70	8.68	27.50	8.32
	0(32)	-0.7(30.7)	31.10	8.38	31.10	8.55	31.00	8.73	30.50	8.59	29.50	8.24	27.50	7.55
	3(37.4)	2.2(36)	33.60	8.62	33.50	8.78	31.50	8.12	30.50	7.81	29.50	7.50	27.50	6.88
	5(41)	4.1(39.4)	35.30	8.78	33.50	8.25	31.50	7.64	30.50	7.35	29.50	7.06	27.50	6.49
	7(44.6)	6(42.8)	35.50	8.33	33.50	7.75	31.50	7.19	30.50	6.92	29.50	6.65	27.50	6.12
9(48.2)	7.9(46.2)	35.50	7.82	33.50	7.29	31.50	6.77	30.50	6.43	29.50	6.27	27.50	5.77	
11(51.8)	9.8(49.6)	35.50	7.37	33.50	6.87	31.50	6.39	30.50	6.14	29.50	5.91	27.50	5.45	
13(55.4)	11.8(53.2)	35.50	6.92	33.50	6.46	31.50	6.01	30.50	5.79	29.50	5.57	27.50	5.15	
15(59)	13.7(56.7)	35.50	6.53	33.50	6.10	31.50	5.68	30.50	5.47	29.50	5.27	27.50	4.87	
90%	-19.8(-3.6)	-20(-4)	19.96	7.02	19.86	7.26	19.86	7.52	19.77	7.64	19.77	7.77	19.77	8.01
	-18.8(-1.8)	-19(-2.2)	20.26	7.10	20.26	7.35	20.17	7.59	20.17	7.71	20.17	7.83	20.06	8.08
	-16.7(1.9)	-17(1.4)	21.06	7.27	20.96	7.51	20.96	7.74	20.96	7.86	20.86	7.97	20.86	8.21
	-13.7(7.3)	-15(5)	21.96	7.45	21.86	7.68	21.86	7.90	21.76	8.01	21.76	8.12	21.76	8.35
	-11.8(10.8)	-13(8.6)	22.86	7.63	22.86	7.84	22.76	8.06	22.76	8.17	22.76	8.27	22.66	8.49
	-9.8(14.4)	-11(12.2)	23.96	7.81	23.96	8.01	23.86	8.22	23.86	8.32	23.86	8.43	23.76	8.64
	-9.5(14.9)	-10(14)	24.56	7.90	24.46	8.11	24.46	8.30	24.36	8.40	24.36	8.51	24.36	8.70
	-8.5(16.7)	-9.1(15.6)	25.06	7.98	25.06	8.18	24.96	8.38	24.96	8.47	24.96	8.57	24.66	8.66
	-7(19.4)	-7.6(18.3)	25.95	8.11	25.95	8.30	25.86	8.50	25.86	8.59	25.86	8.68	24.66	8.26
	-5(23)	-5.6(21.9)	27.35	8.29	27.25	8.47	27.25	8.65	27.15	8.74	26.45	8.47	24.66	7.77
	-3(26.6)	-3.7(25.3)	28.65	8.45	28.65	8.62	28.35	8.66	27.35	8.31	26.45	7.97	24.66	7.32
	0(32)	-0.7(30.7)	31.05	8.69	30.15	8.48	28.35	7.85	27.35	7.54	26.45	7.25	24.66	6.66
	3(37.4)	2.2(36)	31.94	8.28	30.15	7.71	28.35	7.15	27.35	6.88	26.45	6.61	24.66	6.09
	5(41)	4.1(39.4)	31.94	7.79	30.15	7.25	28.35	6.74	27.35	6.48	26.45	6.24	24.66	5.74
	7(44.6)	6(42.8)	31.94	7.32	30.15	6.84	28.35	6.35	27.35	6.12	26.45	5.88	24.66	5.43
9(48.2)	7.9(46.2)	31.94	6.90	30.15	6.43	28.35	5.99	27.35	5.77	26.45	5.56	24.66	5.13	
11(51.8)	9.8(49.6)	31.94	6.50	30.15	6.07	28.35	5.66	27.35	5.45	26.45	5.25	24.66	4.86	
13(55.4)	11.8(53.2)	31.94	6.12	30.15	5.72	28.35	5.33	27.35	5.14	26.45	4.96	24.66	4.58	
15(59)	13.7(56.7)	31.94	5.78	30.15	5.41	28.35	5.05	27.35	4.87	26.45	4.70	24.66	4.35	
80%	-19.8(-3.6)	-20(-4)	19.90	7.51	19.80	7.72	19.80	7.95	19.80	8.06	19.70	8.17	19.70	8.38
	-18.8(-1.8)	-19(-2.2)	20.20	7.57	20.20	7.80	20.10	8.01	20.10	8.12	20.10	8.23	20.00	8.45
	-16.7(1.9)	-17(1.4)	21.00	7.73	20.90	7.94	20.90	8.15	20.90	8.25	20.90	8.36	20.80	8.56
	-13.7(7.3)	-15(5)	21.90	7.89	21.80	8.09	21.80	8.29	21.80	8.38	21.70	8.49	21.70	8.69
	-11.8(10.8)	-13(8.6)	22.80	8.05	22.80	8.24	22.70	8.43	22.70	8.52	22.70	8.63	22.00	8.39
	-9.8(14.4)	-11(12.2)	23.90	8.21	23.90	8.39	23.80	8.58	23.80	8.67	23.60	8.65	22.00	7.93
	-9.5(14.9)	-10(14)	24.50	8.29	24.40	8.47	24.40	8.65	24.40	8.74	23.60	8.39	22.00	7.69
	-8.5(16.7)	-9.1(15.6)	25.00	8.37	23.24	8.54	24.90	8.71	24.40	8.52	23.60	8.17	22.00	7.49
	-7(19.4)	-7.6(18.3)	25.90	8.49	25.90	8.66	25.20	8.47	24.40	8.13	23.60	7.81	22.00	7.16
	-5(23)	-5.6(21.9)	27.30	8.64	26.80	8.59	25.20	7.96	24.40	7.65	23.60	7.34	22.00	6.74
	-3(26.6)	-3.7(25.3)	28.40	8.68	26.80	8.09	25.20	7.49	24.40	7.21	23.60	6.92	22.00	6.37
	0(32)	-0.7(30.7)	28.40	7.88	26.80	7.34	25.20	6.82	24.40	6.56	23.60	6.30	22.00	5.81
	3(37.4)	2.2(36)	28.40	7.18	26.80	6.70	25.20	6.23	24.40	5.99	23.60	5.77	22.00	5.32
	5(41)	4.1(39.4)	28.40	6.76	26.80	6.31	25.20	5.87	24.40	5.66	23.60	5.45	22.00	5.03
	7(44.6)	6(42.8)	28.40	6.37	26.80	5.96	25.20	5.55	24.40	5.35	23.60	5.15	22.00	4.76
9(48.2)	7.9(46.2)	28.40	6.01	26.80	5.62	25.20	5.24	24.40	5.05	23.60	4.87	22.00	4.51	
11(51.8)	9.8(49.6)	28.40	5.68	26.80	5.31	25.20	4.96	24.40	4.78	23.60	4.61	22.00	4.28	
13(55.4)	11.8(53.2)	28.40	5.35	26.80	5.01	25.20	4.69	24.40	4.52	23.60	4.36	22.00	4.04	
15(59)	13.7(56.7)	28.40	5.06	26.80	4.75	25.20	4.44	24.40	4.29	23.60	4.14	22.00	3.85	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X280W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-19.8(-3.6)	-20(-4)	19.75	7.99	19.66	8.18	19.66	8.38	19.66	8.47	19.66	8.57	19.16	8.48
	-18.8(-1.8)	-19(-2.2)	20.05	8.06	20.05	8.24	19.96	8.43	19.96	8.52	19.96	8.63	19.16	8.30
	-16.7(1.9)	-17(1.4)	20.85	8.19	20.85	8.38	20.75	8.55	20.75	8.65	20.55	7.70	19.16	7.92
	-13.7(7.3)	-15(5)	21.75	8.33	21.65	8.51	21.65	8.68	21.25	8.55	20.55	8.21	19.16	7.53
	-11.8(10.8)	-13(8.6)	22.65	8.47	22.65	8.64	22.05	8.43	21.25	8.10	20.55	7.78	19.16	7.13
	-9.8(14.4)	-11(12.2)	23.75	8.61	23.45	8.60	22.05	7.96	21.25	7.66	20.55	7.35	19.16	6.75
	-9.5(14.9)	-10(14)	24.35	8.68	23.45	8.35	22.05	7.73	21.25	7.43	20.55	7.14	19.16	6.56
	-8.5(16.7)	-9.1(15.6)	24.84	8.73	23.45	8.12	22.05	7.53	21.25	7.24	20.55	6.96	19.16	6.40
	-7(19.4)	-7.6(18.3)	24.84	8.34	23.45	7.76	22.05	7.20	21.25	6.93	20.55	6.66	19.16	6.13
	-5(23)	-5.6(21.9)	24.84	7.83	23.45	7.30	22.05	6.78	21.25	6.52	20.55	7.70	19.16	5.78
	-3(26.6)	-3.7(25.3)	24.84	7.38	23.45	6.88	22.05	6.40	21.25	6.15	20.55	5.92	19.16	5.46
	0(32)	-0.7(30.7)	24.84	6.71	23.45	6.27	22.05	5.84	21.25	5.62	20.55	5.42	19.16	5.00
	3(37.4)	2.2(36)	24.84	6.13	23.45	5.74	22.05	5.35	21.25	5.15	20.55	4.97	19.16	4.59
	5(41)	4.1(39.4)	24.84	5.79	23.45	5.42	22.05	5.06	21.25	4.87	20.55	4.70	19.16	4.35
	7(44.6)	6(42.8)	24.84	5.47	23.45	5.13	22.05	4.78	21.25	4.61	20.55	4.45	19.16	4.13
9(48.2)	7.9(46.2)	24.84	5.17	23.45	4.85	22.05	4.53	21.25	4.37	20.55	4.22	19.16	3.91	
11(51.8)	9.8(49.6)	24.84	4.89	23.45	4.58	22.05	4.29	21.25	4.15	20.55	4.01	19.16	3.72	
13(55.4)	11.8(53.2)	24.84	4.62	23.45	4.34	22.05	4.06	21.25	3.93	20.55	3.79	19.16	3.53	
15(59)	13.7(56.7)	24.84	4.38	23.45	4.12	22.05	3.86	21.25	3.74	20.55	3.60	19.16	3.36	
60%	-19.8(-3.6)	-20(-4)	19.70	8.48	19.60	8.64	18.90	8.31	18.30	7.98	17.70	7.67	16.50	7.03
	-18.8(-1.8)	-19(-2.2)	20.00	8.53	20.00	8.69	18.90	8.13	18.30	7.82	17.70	7.50	16.50	6.88
	-16.7(1.9)	-17(1.4)	20.80	8.65	20.10	8.38	18.90	7.76	18.30	7.46	17.70	7.16	16.50	6.58
	-13.7(7.3)	-15(5)	21.30	8.55	20.10	7.96	18.90	7.38	18.30	7.10	17.70	6.82	16.50	6.27
	-11.8(10.8)	-13(8.6)	21.30	8.10	20.10	7.53	18.90	6.99	18.30	6.73	17.70	6.47	16.50	5.99
	-9.8(14.4)	-11(12.2)	21.30	7.65	20.10	7.12	18.90	6.62	18.30	6.37	17.70	6.13	16.50	5.65
	-9.5(14.9)	-10(14)	21.30	7.43	20.10	6.93	18.90	6.43	18.30	6.20	17.70	5.96	16.50	5.49
	-8.5(16.7)	-9.1(15.6)	21.30	7.24	20.10	6.75	18.90	6.27	18.30	6.04	17.70	5.81	16.50	5.36
	-7(19.4)	-7.6(18.3)	21.30	6.92	20.10	6.46	18.90	6.00	18.30	5.79	17.70	5.57	16.50	5.14
	-5(23)	-5.6(21.9)	21.30	6.52	20.10	6.09	18.90	5.67	18.30	5.46	17.70	5.26	16.50	4.86
	-3(26.6)	-3.7(25.3)	21.30	6.15	20.10	5.75	18.90	5.36	18.30	5.17	17.70	4.98	16.50	4.60
	0(32)	-0.7(30.7)	21.30	5.62	20.10	5.27	18.90	4.91	18.30	4.74	17.70	4.57	16.50	4.23
	3(37.4)	2.2(36)	21.30	5.15	20.10	4.84	18.90	4.52	18.30	4.36	17.70	4.21	16.50	3.90
	5(41)	4.1(39.4)	21.30	4.87	20.10	4.58	18.90	4.28	18.30	4.14	17.70	3.99	16.50	3.71
	7(44.6)	6(42.8)	21.30	4.61	20.10	4.33	18.90	4.05	18.30	3.92	17.70	3.79	16.50	3.52
9(48.2)	7.9(46.2)	21.30	4.37	20.10	4.11	18.90	3.85	18.30	3.73	17.70	3.59	16.50	3.35	
11(51.8)	9.8(49.6)	21.30	4.15	20.10	3.90	18.90	3.66	18.30	3.54	17.70	3.42	16.50	3.19	
13(55.4)	11.8(53.2)	21.30	3.92	20.10	3.70	18.90	3.47	18.30	3.36	17.70	3.25	16.50	3.03	
15(59)	13.7(56.7)	21.30	3.73	20.10	3.51	18.90	3.31	18.30	3.20	17.70	3.10	16.50	2.89	
50%	-19.8(-3.6)	-20(-4)	17.74	7.71	16.75	7.18	15.75	6.67	15.15	6.42	14.65	6.17	13.66	5.69
	-18.8(-1.8)	-19(-2.2)	17.74	7.54	16.75	7.03	15.75	6.54	15.15	6.28	14.65	6.04	13.66	5.57
	-16.7(1.9)	-17(1.4)	17.74	7.20	16.75	6.71	15.75	6.25	15.15	6.01	14.65	5.79	13.66	5.34
	-13.7(7.3)	-15(5)	17.74	6.85	16.75	6.40	15.75	5.95	15.15	5.73	14.65	5.52	13.66	5.10
	-11.8(10.8)	-13(8.6)	17.74	6.51	16.75	6.08	15.75	5.66	15.15	5.45	14.65	5.25	13.66	4.86
	-9.8(14.4)	-11(12.2)	17.74	6.16	16.75	5.76	15.75	5.37	15.15	5.17	14.65	4.99	13.66	4.61
	-9.5(14.9)	-10(14)	17.74	5.99	16.75	5.60	15.75	5.23	15.15	5.04	14.65	4.86	13.66	4.49
	-8.5(16.7)	-9.1(15.6)	17.74	5.85	16.75	5.47	15.75	5.10	15.15	4.92	14.65	4.74	13.66	4.39
	-7(19.4)	-7.6(18.3)	17.74	5.60	16.75	5.25	15.75	4.89	15.15	4.72	14.65	4.56	13.66	4.22
	-5(23)	-5.6(21.9)	17.74	5.28	16.75	4.96	15.75	4.63	15.15	4.47	14.65	4.31	13.66	4.00
	-3(26.6)	-3.7(25.3)	17.74	5.00	16.75	4.70	15.75	4.39	15.15	4.24	14.65	4.09	13.66	3.80
	0(32)	-0.7(30.7)	17.74	4.59	16.75	4.31	15.75	4.04	15.15	3.90	14.65	3.77	13.66	3.51
	3(37.4)	2.2(36)	17.74	4.23	16.75	3.98	15.75	3.73	15.15	3.60	14.65	3.48	13.66	3.25
	5(41)	4.1(39.4)	17.74	4.01	16.75	3.77	15.75	3.54	15.15	3.43	14.65	3.31	13.66	3.09
	7(44.6)	6(42.8)	17.74	3.81	16.75	3.59	15.75	3.37	15.15	3.26	14.65	3.16	13.66	2.95
9(48.2)	7.9(46.2)	17.74	3.61	16.75	3.41	15.75	3.20	15.15	3.11	14.65	3.01	13.66	2.81	
11(51.8)	9.8(49.6)	17.74	3.44	16.75	3.24	15.75	3.05	15.15	2.96	14.65	2.87	13.66	2.68	
13(55.4)	11.8(53.2)	17.74	3.27	16.75	3.08	15.75	2.90	15.15	2.82	14.65	2.73	13.66	2.56	
15(59)	13.7(56.7)	17.74	3.11	16.75	2.94	15.75	2.77	15.15	2.69	14.65	2.61	13.66	2.45	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X335W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-19.8(-3.6)	-20(-4)	24.28	6.39	24.16	6.84	24.05	7.30	24.05	7.52	23.93	7.75	23.93	8.21
	-18.8(-1.8)	-19(-2.2)	24.64	6.54	24.52	6.98	24.52	7.43	24.40	7.65	24.40	7.86	24.28	8.31
	-16.7(1.9)	-17(1.4)	25.59	6.84	25.47	7.27	25.35	7.70	25.35	7.91	25.35	8.12	25.24	8.55
	-13.7(7.3)	-15(5)	26.66	7.16	26.55	7.57	26.43	7.98	26.43	8.18	26.31	8.39	26.31	8.81
	-11.8(10.8)	-13(8.6)	27.74	7.48	27.74	7.88	27.62	8.26	27.50	8.46	27.50	8.66	27.38	9.05
	-9.8(14.4)	-11(12.2)	29.05	7.81	28.93	8.18	28.81	8.56	28.81	8.75	28.81	8.93	28.69	9.31
	-9.5(14.9)	-10(14)	29.76	7.97	29.64	8.34	29.52	8.70	29.52	8.89	29.40	9.06	29.40	9.43
	-8.5(16.7)	-9.1(15.6)	30.35	8.11	30.24	8.46	30.24	8.83	30.12	9.01	30.12	9.18	30.00	9.55
	-7(19.4)	-7.6(18.3)	31.43	8.35	31.43	8.70	31.31	9.04	31.31	9.22	31.19	9.38	31.07	9.73
	-5(23)	-5.6(21.9)	33.09	8.66	32.97	8.99	32.85	9.32	32.85	9.49	32.74	9.64	32.74	9.97
	-3(26.6)	-3.7(25.3)	34.64	8.95	34.52	9.26	34.52	9.57	34.40	9.73	34.40	9.89	34.28	10.19
	0(32)	-0.7(30.7)	37.38	9.38	37.38	9.67	37.26	9.96	37.26	10.06	37.14	10.25	37.14	10.53
	3(37.4)	2.2(36)	40.35	9.77	40.24	10.04	40.12	10.31	40.12	10.44	40.12	10.58	40.00	10.84
	5(41)	4.1(39.4)	42.38	10.02	42.26	10.27	42.26	10.52	42.14	10.65	42.14	10.78	42.02	11.03
	7(44.6)	6(42.8)	44.52	10.25	44.40	10.49	44.40	10.73	44.28	10.85	44.28	10.97	42.50	10.53
	9(48.2)	7.9(46.2)	46.78	10.46	46.66	10.70	46.66	10.92	46.55	11.04	45.59	10.80	42.50	9.90
11(51.8)	9.8(49.6)	49.16	10.67	49.05	10.89	48.81	11.03	47.14	10.59	45.59	10.16	42.50	9.32	
13(55.4)	11.8(53.2)	51.78	10.87	51.66	11.09	48.81	10.33	47.14	9.92	45.59	9.53	42.50	8.75	
15(59)	13.7(56.7)	54.28	11.06	51.90	10.50	48.81	9.73	47.14	9.36	45.59	8.98	42.50	8.25	
120%	-19.8(-3.6)	-20(-4)	24.17	6.65	24.05	7.04	23.93	7.44	23.93	7.63	23.93	7.84	23.81	8.24
	-18.8(-1.8)	-19(-2.2)	24.53	6.77	24.41	7.17	24.41	7.56	24.29	7.75	24.29	7.95	24.17	8.34
	-16.7(1.9)	-17(1.4)	25.48	7.04	25.36	7.42	25.20	7.79	25.24	7.98	25.24	8.17	25.12	8.54
	-13.7(7.3)	-15(5)	26.55	7.32	26.43	7.68	26.31	8.04	26.31	8.23	26.31	8.40	26.19	8.76
	-11.8(10.8)	-13(8.6)	27.62	7.60	27.62	7.95	27.50	8.29	27.50	8.47	27.38	8.64	27.38	8.98
	-9.8(14.4)	-11(12.2)	28.93	7.89	28.81	8.21	28.81	8.55	28.69	8.72	28.69	8.87	28.57	9.21
	-9.5(14.9)	-10(14)	29.65	8.04	29.53	8.36	29.41	8.67	29.41	8.84	29.41	9.00	29.29	9.32
	-8.5(16.7)	-9.1(15.6)	30.24	8.16	30.12	8.47	30.12	8.78	30.00	8.94	30.00	9.11	29.88	9.42
	-7(19.4)	-7.6(18.3)	31.31	8.37	31.31	8.67	31.19	8.97	31.19	9.13	31.07	9.28	31.07	9.58
	-5(23)	-5.6(21.9)	32.98	8.64	32.86	8.93	32.74	9.22	32.74	9.36	32.74	9.51	32.62	9.79
	-3(26.6)	-3.7(25.3)	34.53	8.90	34.53	9.17	34.41	9.44	34.41	9.58	34.29	9.72	34.29	9.99
	0(32)	-0.7(30.7)	37.26	9.28	37.26	9.53	37.14	9.78	37.14	9.91	37.02	10.03	37.02	10.29
	3(37.4)	2.2(36)	40.24	9.62	40.12	9.86	40.12	10.09	40.00	10.21	40.00	10.32	39.17	10.27
	5(41)	4.1(39.4)	42.26	9.83	42.14	10.06	42.14	10.28	42.02	10.39	42.02	10.50	39.17	9.64
	7(44.6)	6(42.8)	44.41	10.03	44.41	10.25	44.29	10.46	43.57	10.31	42.14	9.89	39.17	9.07
	9(48.2)	7.9(46.2)	46.67	10.24	46.55	10.44	45.00	10.09	43.57	9.69	42.14	9.30	39.17	8.54
11(51.8)	9.8(49.6)	49.05	10.41	47.86	10.24	45.00	9.49	43.57	9.12	42.14	8.75	39.17	8.05	
13(55.4)	11.8(53.2)	50.83	10.31	47.86	9.60	45.00	8.90	43.57	8.56	42.14	8.23	39.17	7.57	
15(59)	13.7(56.7)	50.83	9.71	47.86	9.04	45.00	8.39	43.57	8.07	42.14	7.76	39.17	7.14	
110%	-19.8(-3.6)	-20(-4)	24.05	7.42	23.93	7.79	23.81	8.17	23.81	8.35	23.82	8.53	23.69	8.91
	-18.8(-1.8)	-19(-2.2)	24.41	7.54	24.29	7.90	24.29	8.27	24.29	8.45	24.17	8.64	24.17	9.00
	-16.7(1.9)	-17(1.4)	25.36	7.79	25.24	8.14	25.59	8.50	25.12	8.67	25.12	8.85	25.00	9.20
	-13.7(7.3)	-15(5)	26.43	8.05	26.31	8.40	26.19	8.73	26.19	8.90	26.19	9.07	26.07	9.40
	-11.8(10.8)	-13(8.6)	27.50	8.33	27.50	8.65	27.38	8.97	27.38	9.13	27.26	9.29	27.26	9.62
	-9.8(14.4)	-11(12.2)	28.81	8.59	28.69	8.90	28.69	9.21	28.57	9.37	28.57	9.52	28.57	9.83
	-9.5(14.9)	-10(14)	29.52	8.73	29.40	9.03	29.28	9.34	29.28	9.48	29.28	9.63	29.17	9.93
	-8.5(16.7)	-9.1(15.6)	30.12	8.84	30.00	9.14	30.00	9.44	29.88	9.59	29.88	9.74	29.88	8.88
	-7(19.4)	-7.6(18.3)	31.19	9.05	31.19	9.32	31.07	9.61	31.07	9.76	31.07	9.90	30.95	10.18
	-5(23)	-5.6(21.9)	32.86	9.30	32.74	9.58	32.62	9.84	32.62	9.98	32.62	10.11	32.50	10.39
	-3(26.6)	-3.7(25.3)	34.41	9.54	34.41	9.79	34.29	10.06	34.29	10.18	34.17	10.31	34.17	10.57
	0(32)	-0.7(30.7)	37.14	9.90	37.14	10.14	37.03	10.38	37.03	10.49	37.03	10.62	35.95	10.41
	3(37.4)	2.2(36)	40.12	10.23	40.00	10.45	40.00	10.66	39.88	10.77	38.57	10.33	35.95	9.47
	5(41)	4.1(39.4)	42.14	10.42	42.14	10.64	41.31	10.54	39.88	10.11	38.57	9.71	35.95	8.91
	7(44.6)	6(42.8)	44.28	10.62	43.93	10.69	41.31	9.90	39.88	9.51	38.57	9.13	35.95	8.38
	9(48.2)	7.9(46.2)	46.55	10.79	43.93	10.05	41.31	9.31	39.88	8.95	38.57	8.59	35.95	7.90
11(51.8)	9.8(49.6)	46.55	10.15	43.93	9.45	41.31	8.76	39.88	8.43	38.57	8.10	35.95	7.46	
13(55.4)	11.8(53.2)	46.55	9.52	43.93	8.87	41.31	8.24	39.88	7.93	38.57	7.62	35.95	7.02	
15(59)	13.7(56.7)	46.55	8.45	43.93	8.36	41.31	7.78	39.88	7.48	38.57	7.20	35.95	6.64	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X335W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-19.8(-3.6)	-20(-4)	23.93	8.02	23.81	8.35	23.81	8.69	23.69	8.87	23.69	9.03	23.57	9.37
	-18.8(-1.8)	-19(-2.2)	24.29	8.12	24.29	8.45	24.17	8.79	24.17	8.96	24.05	9.13	24.05	9.46
	-16.7(1.9)	-17(1.4)	25.24	8.35	25.12	8.67	25.12	8.99	25.00	9.15	25.00	9.31	25.00	9.63
	-13.7(7.3)	-15(5)	26.31	8.59	26.19	8.90	26.07	9.21	26.07	9.37	26.07	9.52	25.95	9.83
	-11.8(10.8)	-13(8.6)	27.38	8.84	27.38	9.13	27.26	9.43	27.26	9.58	27.26	9.72	27.14	10.02
	-9.8(14.4)	-11(12.2)	28.69	9.08	28.57	9.37	28.57	9.64	28.57	9.79	28.45	9.93	28.45	10.21
	-9.5(14.9)	-10(14)	29.40	9.21	29.29	9.48	29.29	9.76	29.17	9.90	29.17	10.03	29.05	10.31
	-8.5(16.7)	-9.1(15.6)	30.00	9.31	29.88	9.59	29.88	9.85	29.88	9.99	29.76	10.13	29.76	10.39
	-7(19.4)	-7.6(18.3)	31.07	9.50	31.07	9.76	30.95	10.01	30.95	10.15	30.95	10.27	30.83	10.54
	-5(23)	-5.6(21.9)	32.74	9.74	32.62	9.98	32.62	10.23	32.50	10.34	32.50	10.47	32.38	10.72
	-3(26.6)	-3.7(25.3)	34.29	9.95	34.29	10.23	34.17	10.42	34.17	10.54	34.17	10.65	32.74	10.21
	0(32)	-0.7(30.7)	37.02	10.27	37.02	10.49	36.90	10.71	36.31	10.54	35.12	10.10	32.74	9.27
	3(37.4)	2.2(36)	40.00	10.57	39.88	10.77	37.50	9.97	36.31	9.58	35.12	9.20	32.74	8.44
	5(41)	4.1(39.4)	42.02	10.77	39.88	10.11	37.50	9.37	36.31	9.01	35.12	8.66	32.74	7.96
	7(44.6)	6(42.8)	42.26	10.22	39.88	9.51	37.50	8.82	36.31	8.49	35.12	8.16	32.74	7.50
9(48.2)	7.9(46.2)	42.26	9.60	39.88	8.95	37.50	8.30	36.31	7.89	35.12	7.69	32.74	7.08	
11(51.8)	9.8(49.6)	42.26	9.04	39.88	8.43	37.50	7.83	36.31	7.54	35.12	7.25	32.74	6.69	
13(55.4)	11.8(53.2)	42.26	8.49	39.88	7.93	37.50	7.38	36.31	7.10	35.12	6.84	32.74	6.31	
15(59)	13.7(56.7)	42.26	8.01	39.88	7.48	37.50	6.96	36.31	6.71	35.12	6.46	32.74	5.98	
90%	-19.8(-3.6)	-20(-4)	23.77	8.61	23.65	8.91	23.65	9.22	23.53	9.37	23.53	9.53	23.53	9.83
	-18.8(-1.8)	-19(-2.2)	24.12	8.70	24.12	9.01	24.01	9.31	24.01	9.46	24.01	9.61	23.88	9.91
	-16.7(1.9)	-17(1.4)	25.08	8.92	24.95	9.21	24.95	9.50	24.95	9.64	24.84	9.78	24.84	10.07
	-13.7(7.3)	-15(5)	26.14	9.14	26.02	9.42	26.02	9.69	25.91	9.83	25.91	9.97	25.91	10.24
	-11.8(10.8)	-13(8.6)	27.21	9.36	27.21	9.62	27.09	9.88	27.09	10.02	27.09	10.15	26.98	10.41
	-9.8(14.4)	-11(12.2)	28.52	9.58	28.52	9.83	28.40	10.08	28.40	10.21	28.40	10.34	28.28	10.60
	-9.5(14.9)	-10(14)	29.23	9.69	29.12	9.94	29.12	10.18	29.00	10.31	29.00	10.43	29.00	10.68
	-8.5(16.7)	-9.1(15.6)	29.83	9.79	29.83	10.03	29.71	10.27	29.71	10.39	29.71	10.52	29.35	10.62
	-7(19.4)	-7.6(18.3)	30.90	9.95	30.90	10.18	30.78	10.42	30.78	10.54	30.78	10.65	29.35	10.14
	-5(23)	-5.6(21.9)	32.56	10.17	32.44	10.39	32.44	10.61	32.32	10.72	31.49	10.39	29.35	9.53
	-3(26.6)	-3.7(25.3)	34.11	10.37	34.11	10.57	33.75	10.62	32.56	10.19	31.49	9.78	29.35	8.98
	0(32)	-0.7(30.7)	36.96	10.66	35.89	10.40	33.75	9.63	32.56	9.25	31.49	8.89	29.35	8.17
	3(37.4)	2.2(36)	38.03	10.16	35.89	9.46	33.75	8.77	32.56	8.44	31.49	8.11	29.35	7.47
	5(41)	4.1(39.4)	38.03	9.55	35.89	8.90	33.75	8.27	32.56	7.95	31.49	7.65	29.35	7.04
	7(44.6)	6(42.8)	38.03	8.98	35.89	8.38	33.75	7.79	32.56	7.50	31.49	7.22	29.35	6.65
9(48.2)	7.9(46.2)	38.03	8.47	35.89	7.89	33.75	7.34	32.56	7.08	31.49	6.82	29.35	6.29	
11(51.8)	9.8(49.6)	38.03	7.97	35.89	7.45	33.75	6.94	32.56	6.69	31.49	6.44	29.35	5.96	
13(55.4)	11.8(53.2)	38.03	7.50	35.89	7.02	33.75	6.54	32.56	6.31	31.49	6.08	29.35	5.62	
15(59)	13.7(56.7)	38.03	7.09	35.89	6.63	33.75	6.20	32.56	5.98	31.49	5.76	29.35	5.34	
80%	-19.8(-3.6)	-20(-4)	23.69	9.21	23.57	9.47	23.57	9.75	23.57	9.89	23.45	10.02	23.45	10.29
	-18.8(-1.8)	-19(-2.2)	24.05	9.29	24.05	9.56	23.93	9.83	23.93	9.96	23.93	10.09	23.81	10.37
	-16.7(1.9)	-17(1.4)	25.00	9.48	24.88	9.74	24.88	10.00	24.88	10.13	24.88	10.25	24.76	10.50
	-13.7(7.3)	-15(5)	26.07	9.68	25.95	9.92	25.95	10.17	25.95	10.29	25.83	10.41	25.83	10.66
	-11.8(10.8)	-13(8.6)	27.14	9.87	27.14	10.11	27.02	10.34	27.02	10.46	27.02	10.58	26.19	10.30
	-9.8(14.4)	-11(12.2)	28.45	10.07	28.45	10.30	28.33	10.53	28.33	10.63	28.10	10.61	26.19	9.72
	-9.5(14.9)	-10(14)	29.17	10.17	29.04	10.39	29.05	10.61	29.05	10.72	28.10	10.30	26.19	9.44
	-8.5(16.7)	-9.1(15.6)	29.76	10.26	27.66	10.48	29.64	10.69	29.05	10.45	28.10	10.02	26.19	9.19
	-7(19.4)	-7.6(18.3)	30.83	10.41	30.83	10.62	30.00	10.39	29.05	9.98	28.10	9.58	26.19	8.78
	-5(23)	-5.6(21.9)	32.50	10.59	31.91	10.54	30.00	9.76	29.05	9.38	28.10	9.00	26.19	8.27
	-3(26.6)	-3.7(25.3)	33.81	10.65	31.91	9.92	30.00	9.19	29.05	8.84	28.10	8.49	26.19	7.81
	0(32)	-0.7(30.7)	33.81	9.67	31.91	9.00	30.00	8.36	29.05	8.05	28.10	7.73	26.19	7.12
	3(37.4)	2.2(36)	33.81	8.81	31.91	8.21	30.00	7.64	29.05	7.35	28.10	7.08	26.19	6.53
	5(41)	4.1(39.4)	33.81	8.29	31.91	7.74	30.00	7.20	29.05	6.94	28.10	6.69	26.19	6.17
	7(44.6)	6(42.8)	33.81	7.81	31.91	7.31	30.00	6.80	29.05	6.56	28.10	6.32	26.19	5.84
9(48.2)	7.9(46.2)	33.81	7.38	31.91	6.90	30.00	6.43	29.05	6.20	28.10	5.98	26.19	5.53	
11(51.8)	9.8(49.6)	33.81	6.96	31.91	6.52	30.00	6.08	29.05	5.86	28.10	5.66	26.19	5.25	
13(55.4)	11.8(53.2)	33.81	6.56	31.91	6.15	30.00	5.75	29.05	5.54	28.10	5.35	26.19	4.96	
15(59)	13.7(56.7)	33.81	6.21	31.91	5.83	30.00	5.45	29.05	5.26	28.10	5.07	26.19	4.72	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X335W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-19.8(-3.6)	-20(-4)	23.52	9.80	23.40	10.03	23.40	10.27	23.40	10.39	23.40	10.51	22.81	10.40
	-18.8(-1.8)	-19(-2.2)	23.87	9.88	23.87	10.11	23.76	10.34	23.76	10.46	23.76	10.58	22.81	10.18
	-16.7(1.9)	-17(1.4)	24.82	10.05	24.82	10.27	24.71	10.49	24.71	10.61	24.47	9.45	22.81	9.71
	-13.7(7.3)	-15(5)	25.89	10.22	25.77	10.43	25.77	10.65	25.30	10.49	24.47	10.07	22.81	9.23
	-11.8(10.8)	-13(8.6)	26.96	10.39	26.96	10.59	26.25	10.34	25.30	9.94	24.47	9.54	22.81	8.75
	-9.8(14.4)	-11(12.2)	28.27	10.56	27.91	10.55	26.25	9.77	25.30	9.39	24.47	9.01	22.81	8.28
	-9.5(14.9)	-10(14)	28.98	10.65	27.91	10.24	26.25	9.48	25.30	9.12	24.47	8.76	22.81	8.05
	-8.5(16.7)	-9.1(15.6)	29.58	10.71	27.91	9.96	26.25	9.23	25.30	8.88	24.47	8.53	22.81	7.85
	-7(19.4)	-7.6(18.3)	29.58	10.23	27.91	9.52	26.25	8.83	25.30	8.50	24.47	8.17	22.81	7.51
	-5(23)	-5.6(21.9)	29.58	9.61	27.91	8.96	26.25	8.32	25.30	7.99	24.47	9.44	22.81	7.09
	-3(26.6)	-3.7(25.3)	29.58	9.05	27.91	8.44	26.25	7.85	25.30	7.55	24.47	7.26	22.81	6.70
	0(32)	-0.7(30.7)	29.58	8.24	27.91	7.70	26.25	7.16	25.30	6.90	24.47	6.64	22.81	6.14
	3(37.4)	2.2(36)	29.58	7.53	27.91	7.04	26.25	6.56	25.30	6.32	24.47	6.09	22.81	5.64
	5(41)	4.1(39.4)	29.58	7.10	27.91	6.64	26.25	6.21	25.30	5.98	24.47	5.76	22.81	5.34
	7(44.6)	6(42.8)	29.58	6.71	27.91	6.29	26.25	5.86	25.30	5.66	24.47	5.46	22.81	5.06
9(48.2)	7.9(46.2)	29.58	6.35	27.91	5.94	26.25	5.56	25.30	5.36	24.47	5.18	22.81	4.80	
11(51.8)	9.8(49.6)	29.58	6.00	27.91	5.62	26.25	5.27	25.30	5.09	24.47	4.91	22.81	4.56	
13(55.4)	11.8(53.2)	29.58	5.67	27.91	5.33	26.25	4.98	25.30	4.82	24.47	4.65	22.81	4.33	
15(59)	13.7(56.7)	29.58	5.37	27.91	5.05	26.25	4.73	25.30	4.58	24.47	4.42	22.81	4.12	
60%	-19.8(-3.6)	-20(-4)	23.45	10.40	23.33	10.59	22.50	10.19	21.79	9.79	21.07	9.40	19.64	8.62
	-18.8(-1.8)	-19(-2.2)	23.81	10.47	23.81	10.66	22.50	9.98	21.79	9.59	21.07	9.20	19.64	8.44
	-16.7(1.9)	-17(1.4)	24.76	10.61	23.93	10.27	22.50	9.52	21.79	9.15	21.07	8.79	19.64	8.07
	-13.7(7.3)	-15(5)	25.36	10.49	23.93	9.76	22.50	9.05	21.79	8.71	21.07	8.36	19.64	7.69
	-11.8(10.8)	-13(8.6)	25.36	9.93	23.93	9.24	22.50	8.58	21.79	8.26	21.07	7.94	19.64	7.34
	-9.8(14.4)	-11(12.2)	25.36	9.38	23.93	8.74	22.50	8.12	21.79	7.81	21.07	7.51	19.64	6.93
	-9.5(14.9)	-10(14)	25.36	9.12	23.93	8.50	22.50	7.89	21.79	7.61	21.07	7.31	19.64	6.73
	-8.5(16.7)	-9.1(15.6)	25.36	8.88	23.93	8.28	22.50	7.70	21.79	7.41	21.07	7.12	19.64	6.57
	-7(19.4)	-7.6(18.3)	25.36	8.49	23.93	7.93	22.50	7.36	21.79	7.10	21.07	6.83	19.64	6.31
	-5(23)	-5.6(21.9)	25.36	7.99	23.93	7.47	22.50	6.95	21.79	6.70	21.07	6.45	19.64	5.97
	-3(26.6)	-3.7(25.3)	25.36	7.55	23.93	7.06	22.50	6.57	21.79	6.35	21.07	6.10	19.64	5.65
	0(32)	-0.7(30.7)	25.36	6.90	23.93	6.46	22.50	6.02	21.79	5.82	21.07	5.60	19.64	5.19
	3(37.4)	2.2(36)	25.36	6.32	23.93	5.93	22.50	5.54	21.79	5.35	21.07	5.17	19.64	4.79
	5(41)	4.1(39.4)	25.36	5.98	23.93	5.61	22.50	5.25	21.79	5.07	21.07	4.89	19.64	4.55
	7(44.6)	6(42.8)	25.36	5.66	23.93	5.31	22.50	4.97	21.79	4.81	21.07	4.65	19.64	4.32
9(48.2)	7.9(46.2)	25.36	5.36	23.93	5.04	22.50	4.72	21.79	4.57	21.07	4.41	19.64	4.11	
11(51.8)	9.8(49.6)	25.36	5.09	23.93	4.79	22.50	4.49	21.79	4.34	21.07	4.19	19.64	3.92	
13(55.4)	11.8(53.2)	25.36	4.81	23.93	4.54	22.50	4.26	21.79	4.12	21.07	3.99	19.64	3.72	
15(59)	13.7(56.7)	25.36	4.58	23.93	4.31	22.50	4.05	21.79	3.93	21.07	3.80	19.64	3.55	
50%	-19.8(-3.6)	-20(-4)	21.12	9.46	19.94	8.81	18.75	8.18	18.04	7.88	17.45	7.57	16.26	6.98
	-18.8(-1.8)	-19(-2.2)	21.12	9.25	19.94	8.62	18.75	8.02	18.04	7.71	17.45	7.41	16.26	6.84
	-16.7(1.9)	-17(1.4)	21.12	8.83	19.94	8.24	18.75	7.66	18.04	7.38	17.45	7.10	16.26	6.55
	-13.7(7.3)	-15(5)	21.12	8.41	19.94	7.85	18.75	7.30	18.04	7.03	17.45	6.77	16.26	6.25
	-11.8(10.8)	-13(8.6)	21.12	7.98	19.94	7.46	18.75	6.94	18.04	6.69	17.45	6.44	16.26	5.96
	-9.8(14.4)	-11(12.2)	21.12	7.56	19.94	7.07	18.75	6.59	18.04	6.35	17.45	6.12	16.26	5.66
	-9.5(14.9)	-10(14)	21.12	7.35	19.94	6.87	18.75	6.41	18.04	6.18	17.45	5.96	16.26	5.51
	-8.5(16.7)	-9.1(15.6)	21.12	7.17	19.94	6.71	18.75	6.25	18.04	6.04	17.45	5.82	16.26	5.38
	-7(19.4)	-7.6(18.3)	21.12	6.87	19.94	6.44	18.75	6.00	18.04	5.80	17.45	5.59	16.26	5.18
	-5(23)	-5.6(21.9)	21.12	6.48	19.94	6.08	18.75	5.68	18.04	5.49	17.45	5.29	16.26	4.90
	-3(26.6)	-3.7(25.3)	21.12	6.14	19.94	5.76	18.75	5.38	18.04	5.20	17.45	5.02	16.26	4.66
	0(32)	-0.7(30.7)	21.12	5.64	19.94	5.29	18.75	4.96	18.04	4.79	17.45	4.63	16.26	4.31
	3(37.4)	2.2(36)	21.12	5.19	19.94	4.88	18.75	4.57	18.04	4.42	17.45	4.27	16.26	3.99
	5(41)	4.1(39.4)	21.12	4.92	19.94	4.63	18.75	4.34	18.04	4.20	17.45	4.07	16.26	3.79
	7(44.6)	6(42.8)	21.12	4.67	19.94	4.40	18.75	4.13	18.04	4.00	17.45	3.87	16.26	3.62
9(48.2)	7.9(46.2)	21.12	4.43	19.94	4.18	18.75	3.93	18.04	3.81	17.45	3.69	16.26	3.45	
11(51.8)	9.8(49.6)	21.12	4.22	19.94	3.97	18.75	3.75	18.04	3.63	17.45	3.52	16.26	3.29	
13(55.4)	11.8(53.2)	21.12	4.01	19.94	3.78	18.75	3.56	18.04	3.46	17.45	3.34	16.26	3.14	
15(59)	13.7(56.7)	21.12	3.81	19.94	3.61	18.75	3.40	18.04	3.30	17.45	3.20	16.26	3.00	

Heating capacity table

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X400W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-19.8(-3.6)	-20(-4)	29.14	7.96	29.00	8.52	28.86	9.09	28.86	9.37	28.72	9.64	28.72	10.21
	-18.8(-1.8)	-19(-2.2)	29.57	8.14	29.43	8.69	29.43	9.25	29.29	9.53	29.29	9.79	29.14	10.35
	-16.7(1.9)	-17(1.4)	30.71	8.52	30.57	9.04	30.43	9.59	30.43	9.85	30.43	10.11	30.29	10.64
	-13.7(7.3)	-15(5)	32.00	8.91	31.86	9.43	31.71	9.94	31.71	10.19	31.57	10.45	31.57	10.96
	-11.8(10.8)	-13(8.6)	33.29	9.31	33.29	9.80	33.14	10.29	33.00	10.54	33.00	10.79	32.86	11.27
	-9.8(14.4)	-11(12.2)	34.86	9.72	34.71	10.19	34.57	10.65	34.57	10.89	34.57	11.12	34.43	11.59
	-9.5(14.9)	-10(14)	35.71	9.92	35.57	10.38	35.43	10.83	35.43	11.06	35.28	11.28	35.28	11.74
	-8.5(16.7)	-9.1(15.6)	36.43	10.10	36.29	10.54	36.29	10.99	36.14	11.21	36.14	11.43	36.00	11.88
	-7(19.4)	-7.6(18.3)	37.71	10.39	37.71	10.83	37.57	11.25	37.57	11.47	37.43	11.68	37.28	12.12
	-5(23)	-5.6(21.9)	39.71	10.79	39.57	11.20	39.43	11.61	39.43	11.81	39.29	12.00	39.29	12.41
	-3(26.6)	-3.7(25.3)	41.57	11.14	41.43	11.53	41.43	11.91	41.28	12.12	41.28	12.31	41.14	12.69
	0(32)	-0.7(30.7)	44.85	11.68	44.85	12.04	44.71	12.40	44.71	12.53	44.57	12.76	44.57	13.11
	3(37.4)	2.2(36)	48.42	12.16	48.29	12.50	48.14	12.84	48.14	13.00	48.14	13.17	48.00	13.49
	5(41)	4.1(39.4)	50.85	12.47	50.71	12.79	50.71	13.10	50.57	13.26	50.57	13.42	50.43	13.73
	7(44.6)	6(42.8)	53.43	12.76	53.28	13.05	53.28	13.36	53.14	13.51	53.14	13.65	51.00	13.11
9(48.2)	7.9(46.2)	56.14	13.02	56.00	13.32	56.00	13.60	55.86	13.74	54.71	13.45	51.00	12.32	
11(51.8)	9.8(49.6)	59.00	13.29	58.86	13.55	58.57	13.73	56.57	13.19	54.71	12.64	51.00	11.61	
13(55.4)	11.8(53.2)	62.14	13.54	62.00	13.80	58.57	12.86	56.57	12.35	54.71	11.87	51.00	10.89	
15(59)	13.7(56.7)	65.14	13.77	62.28	13.07	58.57	12.12	56.57	11.65	54.71	11.18	51.00	10.27	
120%	-19.8(-3.6)	-20(-4)	29.00	8.28	28.86	8.77	28.71	9.27	28.71	9.50	28.71	9.75	28.57	10.25
	-18.8(-1.8)	-19(-2.2)	29.43	8.43	29.29	8.92	29.29	9.41	29.14	9.64	29.14	9.89	29.00	10.38
	-16.7(1.9)	-17(1.4)	30.57	8.77	30.43	9.24	30.24	9.70	30.29	9.93	30.29	10.17	30.14	10.63
	-13.7(7.3)	-15(5)	31.86	9.11	31.72	9.56	31.57	10.00	31.57	10.24	31.57	10.46	31.43	10.91
	-11.8(10.8)	-13(8.6)	33.15	9.46	33.15	9.89	33.00	10.32	33.00	10.55	32.86	10.75	32.86	11.18
	-9.8(14.4)	-11(12.2)	34.71	9.82	34.57	10.23	34.57	10.64	34.43	10.85	34.43	11.05	34.29	11.46
	-9.5(14.9)	-10(14)	35.58	10.00	35.43	10.41	35.29	10.80	35.29	11.00	35.29	11.20	35.14	11.60
	-8.5(16.7)	-9.1(15.6)	36.29	10.16	36.14	10.55	36.14	10.93	36.00	11.13	36.00	11.34	35.86	11.73
	-7(19.4)	-7.6(18.3)	37.57	10.42	37.57	10.80	37.43	11.17	37.43	11.37	37.29	11.55	37.29	11.92
	-5(23)	-5.6(21.9)	39.57	10.75	39.43	11.12	39.28	11.48	39.28	11.66	39.28	11.84	39.15	12.19
	-3(26.6)	-3.7(25.3)	41.43	11.07	41.43	11.42	41.29	11.75	41.29	11.92	41.14	12.10	41.14	12.44
	0(32)	-0.7(30.7)	44.72	11.55	44.72	11.87	44.57	12.17	44.57	12.34	44.43	12.49	44.43	12.81
	3(37.4)	2.2(36)	48.29	11.98	48.14	12.27	48.14	12.56	48.00	12.71	48.00	12.85	47.00	12.78
	5(41)	4.1(39.4)	50.72	12.24	50.57	12.52	50.57	12.80	50.43	12.94	50.43	13.07	47.00	12.00
	7(44.6)	6(42.8)	53.29	12.49	53.29	12.75	53.15	13.02	52.29	12.84	50.57	12.31	47.00	11.30
9(48.2)	7.9(46.2)	56.00	12.74	55.86	12.99	54.00	12.56	52.29	12.06	50.57	11.57	47.00	10.63	
11(51.8)	9.8(49.6)	58.86	12.96	57.43	12.74	54.00	11.81	52.29	11.35	50.57	10.89	47.00	10.02	
13(55.4)	11.8(53.2)	61.00	12.84	57.43	11.95	54.00	11.07	52.29	10.66	50.57	10.24	47.00	9.42	
15(59)	13.7(56.7)	61.00	12.09	57.43	11.25	54.00	10.45	52.29	10.05	50.57	9.66	47.00	8.89	
110%	-19.8(-3.6)	-20(-4)	28.86	9.24	28.72	9.70	28.57	10.17	28.57	10.40	28.58	10.62	28.43	11.09
	-18.8(-1.8)	-19(-2.2)	29.29	9.38	29.14	9.84	29.14	10.30	29.14	10.52	29.00	10.75	29.00	11.21
	-16.7(1.9)	-17(1.4)	30.43	9.70	30.29	10.14	30.71	10.58	30.14	10.80	30.14	11.02	30.00	11.45
	-13.7(7.3)	-15(5)	31.72	10.03	31.58	10.45	31.43	10.87	31.43	11.08	31.43	11.29	31.28	11.71
	-11.8(10.8)	-13(8.6)	33.00	10.37	33.00	10.77	32.86	11.17	32.86	11.37	32.71	11.57	32.71	11.98
	-9.8(14.4)	-11(12.2)	34.57	10.70	34.43	11.08	34.43	11.47	34.28	11.67	34.28	11.85	34.28	12.24
	-9.5(14.9)	-10(14)	35.43	10.87	35.29	11.24	35.14	11.62	35.14	11.81	35.14	11.99	35.00	12.36
	-8.5(16.7)	-9.1(15.6)	36.14	11.01	36.00	11.38	36.00	11.75	35.86	11.94	35.86	12.12	35.86	11.05
	-7(19.4)	-7.6(18.3)	37.43	11.27	37.43	11.61	37.29	11.96	37.29	12.15	37.29	12.32	37.14	12.68
	-5(23)	-5.6(21.9)	39.43	11.58	39.29	11.92	39.14	12.25	39.14	12.42	39.14	12.59	39.00	12.94
	-3(26.6)	-3.7(25.3)	41.29	11.88	41.29	12.19	41.14	12.52	41.14	12.68	41.00	12.83	41.00	13.16
	0(32)	-0.7(30.7)	44.57	12.32	44.57	12.62	44.43	12.92	44.43	13.06	44.43	13.22	43.14	12.96
	3(37.4)	2.2(36)	48.14	12.73	48.00	13.01	48.00	13.28	47.86	13.40	46.29	12.86	43.14	11.79
	5(41)	4.1(39.4)	50.57	12.98	50.57	13.25	49.57	13.12	47.86	12.59	46.29	12.09	43.14	11.09
	7(44.6)	6(42.8)	53.14	13.22	52.71	13.31	49.57	12.32	47.86	11.84	46.29	11.37	43.14	10.44
9(48.2)	7.9(46.2)	55.86	13.43	52.71	12.51	49.57	11.59	47.86	11.14	46.29	10.70	43.14	9.84	
11(51.8)	9.8(49.6)	55.86	12.63	52.71	11.76	49.57	10.91	47.86	10.50	46.29	10.08	43.14	9.28	
13(55.4)	11.8(53.2)	55.86	11.85	52.71	11.04	49.57	10.25	47.86	9.87	46.29	9.48	43.14	8.74	
15(59)	13.7(56.7)	55.86	10.52	52.71	10.41	49.57	9.68	47.86	9.31	46.29	8.97	43.14	8.27	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X400W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	-19.8(-3.6)	-20(-4)	28.71	9.98	28.57	10.40	28.57	10.82	28.43	11.04	28.43	11.24	28.29	11.66
	-18.8(-1.8)	-19(-2.2)	29.14	10.11	29.14	10.52	29.00	10.94	29.00	11.15	28.86	11.37	28.86	11.78
	-16.7(1.9)	-17(1.4)	30.29	10.40	30.14	10.79	30.14	11.19	30.00	11.39	30.00	11.59	30.00	11.99
	-13.7(7.3)	-15(5)	31.57	10.69	31.43	11.08	31.28	11.47	31.28	11.66	31.28	11.85	31.14	12.23
	-11.8(10.8)	-13(8.6)	32.86	11.01	32.86	11.37	32.72	11.74	32.72	11.92	32.72	12.11	32.57	12.48
	-9.8(14.4)	-11(12.2)	34.43	11.31	34.29	11.66	34.29	12.01	34.29	12.19	34.14	12.36	34.14	12.70
	-9.5(14.9)	-10(14)	35.28	11.47	35.15	11.81	35.15	12.15	35.00	12.32	35.00	12.49	34.86	12.83
	-8.5(16.7)	-9.1(15.6)	36.00	11.59	35.86	11.94	35.86	12.26	35.86	12.43	35.72	12.61	35.72	12.93
	-7(19.4)	-7.6(18.3)	37.29	11.82	37.29	12.15	37.14	12.46	37.14	12.63	37.14	12.79	37.00	13.12
	-5(23)	-5.6(21.9)	39.29	12.12	39.14	12.42	39.14	12.73	39.00	12.88	39.00	13.03	38.86	13.35
	-3(26.6)	-3.7(25.3)	41.14	12.39	41.14	11.25	41.00	12.98	41.00	13.12	41.00	13.26	39.29	12.70
	0(32)	-0.7(30.7)	44.43	12.79	44.43	13.06	44.28	13.33	43.57	13.12	42.14	12.58	39.29	11.54
	3(37.4)	2.2(36)	48.00	13.16	47.86	13.40	45.00	12.41	43.57	11.92	42.14	11.45	39.29	10.51
	5(41)	4.1(39.4)	50.43	13.40	47.86	12.59	45.00	11.66	43.57	11.22	42.14	10.78	39.29	9.91
	7(44.6)	6(42.8)	50.72	12.72	47.86	11.84	45.00	10.98	43.57	10.57	42.14	10.15	39.29	9.34
	9(48.2)	7.9(46.2)	50.72	11.95	47.86	11.14	45.00	10.34	43.57	9.82	42.14	9.57	39.29	8.81
11(51.8)	9.8(49.6)	50.72	11.25	47.86	10.49	45.00	9.75	43.57	9.38	42.14	9.03	39.29	8.33	
13(55.4)	11.8(53.2)	50.72	10.57	47.86	9.87	45.00	9.18	43.57	8.84	42.14	8.51	39.29	7.86	
15(59)	13.7(56.7)	50.72	9.97	47.86	9.31	45.00	8.67	43.57	8.36	42.14	8.04	39.29	7.44	
90%	-19.8(-3.6)	-20(-4)	28.52	10.72	28.38	11.09	28.38	11.48	28.24	11.66	28.24	11.86	28.24	12.23
	-18.8(-1.8)	-19(-2.2)	28.95	10.84	28.95	11.22	28.81	11.59	28.81	11.78	28.81	11.96	28.66	12.33
	-16.7(1.9)	-17(1.4)	30.09	11.11	29.95	11.47	29.95	11.82	29.95	12.01	29.80	12.18	29.80	12.53
	-13.7(7.3)	-15(5)	31.37	11.38	31.23	11.72	31.23	12.06	31.09	12.23	31.09	12.41	31.09	12.75
	-11.8(10.8)	-13(8.6)	32.66	11.65	32.66	11.98	32.51	12.31	32.51	12.48	32.51	12.63	32.37	12.96
	-9.8(14.4)	-11(12.2)	34.23	11.92	34.23	12.23	34.08	12.55	34.08	12.71	34.08	12.88	33.94	13.19
	-9.5(14.9)	-10(14)	35.08	12.06	34.94	12.38	34.94	12.68	34.80	12.83	34.80	12.99	34.80	13.29
	-8.5(16.7)	-9.1(15.6)	35.79	12.19	35.79	12.49	35.65	12.79	35.65	12.93	35.65	13.09	35.22	13.22
	-7(19.4)	-7.6(18.3)	37.08	12.39	37.08	12.68	36.94	12.98	36.94	13.12	36.94	13.26	35.22	12.62
	-5(23)	-5.6(21.9)	39.07	12.66	38.93	12.93	38.93	13.20	38.79	13.35	37.79	12.93	35.22	11.86
	-3(26.6)	-3.7(25.3)	40.93	12.90	40.93	13.16	40.50	13.22	39.07	12.69	37.79	12.18	35.22	11.18
	0(32)	-0.7(30.7)	44.35	13.28	43.07	12.95	40.50	11.99	39.07	11.52	37.79	11.07	35.22	10.17
	3(37.4)	2.2(36)	45.64	12.65	43.07	11.78	40.50	10.92	39.07	10.51	37.79	10.10	35.22	9.30
	5(41)	4.1(39.4)	45.64	11.89	43.07	11.08	40.50	10.30	39.07	9.90	37.79	9.53	35.22	8.77
	7(44.6)	6(42.8)	45.64	11.18	43.07	10.44	40.50	9.70	39.07	9.34	37.79	8.98	35.22	8.28
	9(48.2)	7.9(46.2)	45.64	10.54	43.07	9.82	40.50	9.14	39.07	8.81	37.79	8.48	35.22	7.83
11(51.8)	9.8(49.6)	45.64	9.92	43.07	9.27	40.50	8.64	39.07	8.33	37.79	8.01	35.22	7.41	
13(55.4)	11.8(53.2)	45.64	9.34	43.07	8.74	40.50	8.14	39.07	7.86	37.79	7.57	35.22	7.00	
15(59)	13.7(56.7)	45.64	8.83	43.07	8.26	40.50	7.71	39.07	7.44	37.79	7.17	35.22	6.64	
80%	-19.8(-3.6)	-20(-4)	28.43	11.46	28.29	11.79	28.29	12.13	28.29	12.31	28.14	12.48	28.14	12.80
	-18.8(-1.8)	-19(-2.2)	28.86	11.56	28.86	11.91	28.71	12.23	28.71	12.41	28.71	12.56	28.57	12.90
	-16.7(1.9)	-17(1.4)	30.00	11.81	29.86	12.12	29.86	12.45	29.86	12.61	29.86	12.76	29.71	13.08
	-13.7(7.3)	-15(5)	31.28	12.05	31.14	12.35	31.14	12.66	31.14	12.80	31.00	12.96	31.00	13.27
	-11.8(10.8)	-13(8.6)	32.57	12.29	32.57	12.59	32.43	12.88	32.43	13.02	32.43	13.18	31.43	12.82
	-9.8(14.4)	-11(12.2)	34.14	12.53	34.14	12.82	34.00	13.10	34.00	13.23	33.71	13.20	31.43	12.11
	-9.5(14.9)	-10(14)	35.00	12.66	34.85	12.93	34.86	13.20	34.86	13.35	33.71	12.82	31.43	11.75
	-8.5(16.7)	-9.1(15.6)	35.72	12.78	33.20	13.05	35.57	13.30	34.86	13.00	33.71	12.48	31.43	11.44
	-7(19.4)	-7.6(18.3)	37.00	12.96	37.00	13.22	36.00	12.93	34.86	12.42	33.71	11.92	31.43	10.94
	-5(23)	-5.6(21.9)	39.00	13.19	38.29	13.12	36.00	12.15	34.86	11.68	33.71	11.21	31.43	10.30
	-3(26.6)	-3.7(25.3)	40.57	13.26	38.29	12.35	36.00	11.44	34.86	11.01	33.71	10.57	31.43	9.72
	0(32)	-0.7(30.7)	40.57	12.03	38.29	11.21	36.00	10.41	34.86	10.02	33.71	9.63	31.43	8.87
	3(37.4)	2.2(36)	40.57	10.97	38.29	10.22	36.00	9.51	34.86	9.15	33.71	8.81	31.43	8.13
	5(41)	4.1(39.4)	40.57	10.32	38.29	9.64	36.00	8.97	34.86	8.64	33.71	8.33	31.43	7.69
	7(44.6)	6(42.8)	40.57	9.72	38.29	9.10	36.00	8.47	34.86	8.17	33.71	7.87	31.43	7.27
	9(48.2)	7.9(46.2)	40.57	9.18	38.29	8.58	36.00	8.00	34.86	7.71	33.71	7.44	31.43	6.89
11(51.8)	9.8(49.6)	40.57	8.67	38.29	8.11	36.00	7.57	34.86	7.30	33.71	7.04	31.43	6.53	
13(55.4)	11.8(53.2)	40.57	8.17	38.29	7.66	36.00	7.16	34.86	6.90	33.71	6.66	31.43	6.17	
15(59)	13.7(56.7)	40.57	7.73	38.29	7.26	36.00	6.79	34.86	6.54	33.71	6.32	31.43	5.87	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X400W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-19.8(-3.6)	-20(-4)	28.22	12.21	28.08	12.49	28.08	12.79	28.08	12.93	28.08	13.09	27.37	12.95
	-18.8(-1.8)	-19(-2.2)	28.65	12.31	28.65	12.59	28.51	12.88	28.51	13.02	28.51	13.18	27.37	12.68
	-16.7(1.9)	-17(1.4)	29.79	12.51	29.79	12.79	29.65	13.06	29.65	13.20	29.36	11.76	27.37	12.09
	-13.7(7.3)	-15(5)	31.07	12.72	30.93	12.99	30.93	13.26	30.36	13.06	29.36	12.53	27.37	11.49
	-11.8(10.8)	-13(8.6)	32.35	12.93	32.35	13.19	31.50	12.88	30.36	12.38	29.36	11.88	27.37	10.89
	-9.8(14.4)	-11(12.2)	33.92	13.15	33.49	13.13	31.50	12.16	30.36	11.69	29.36	11.22	27.37	10.31
	-9.5(14.9)	-10(14)	34.78	13.26	33.49	12.75	31.50	11.81	30.36	11.35	29.36	10.91	27.37	10.02
	-8.5(16.7)	-9.1(15.6)	35.49	13.33	33.49	12.41	31.50	11.49	30.36	11.05	29.36	10.62	27.37	9.77
	-7(19.4)	-7.6(18.3)	35.49	12.73	33.49	11.85	31.50	10.99	30.36	10.58	29.36	10.17	27.37	9.35
	-5(23)	-5.6(21.9)	35.49	11.96	33.49	11.15	31.50	10.35	30.36	9.95	29.36	11.76	27.37	8.83
	-3(26.6)	-3.7(25.3)	35.49	11.26	33.49	10.51	31.50	9.77	30.36	9.40	29.36	9.04	27.37	8.34
	0(32)	-0.7(30.7)	35.49	10.25	33.49	9.58	31.50	8.91	30.36	8.58	29.36	8.27	27.37	7.64
	3(37.4)	2.2(36)	35.49	9.37	33.49	8.77	31.50	8.17	30.36	7.87	29.36	7.59	27.37	7.02
	5(41)	4.1(39.4)	35.49	8.84	33.49	8.27	31.50	7.73	30.36	7.44	29.36	7.17	27.37	6.65
	7(44.6)	6(42.8)	35.49	8.36	33.49	7.83	31.50	7.30	30.36	7.04	29.36	6.80	27.37	6.30
9(48.2)	7.9(46.2)	35.49	7.90	33.49	7.40	31.50	6.92	30.36	6.67	29.36	6.44	27.37	5.97	
11(51.8)	9.8(49.6)	35.49	7.47	33.49	7.00	31.50	6.56	30.36	6.33	29.36	6.12	27.37	5.67	
13(55.4)	11.8(53.2)	35.49	7.06	33.49	6.63	31.50	6.20	30.36	6.00	29.36	5.79	27.37	5.39	
15(59)	13.7(56.7)	35.49	6.69	33.49	6.29	31.50	5.89	30.36	5.70	29.36	5.50	27.37	5.13	
60%	-19.8(-3.6)	-20(-4)	28.14	12.95	28.00	13.19	27.00	12.69	26.14	12.19	25.29	11.71	23.57	10.74
	-18.8(-1.8)	-19(-2.2)	28.57	13.03	28.57	13.28	27.00	12.42	26.14	11.93	25.29	11.45	23.57	10.51
	-16.7(1.9)	-17(1.4)	29.71	13.20	28.71	12.79	27.00	11.85	26.14	11.39	25.29	10.94	23.57	10.05
	-13.7(7.3)	-15(5)	30.43	13.06	28.71	12.15	27.00	11.26	26.14	10.84	25.29	10.41	23.57	9.57
	-11.8(10.8)	-13(8.6)	30.43	12.36	28.71	11.51	27.00	10.68	26.14	10.28	25.29	9.88	23.57	9.14
	-9.8(14.4)	-11(12.2)	30.43	11.68	28.71	10.88	27.00	10.11	26.14	9.72	25.29	9.35	23.57	8.63
	-9.5(14.9)	-10(14)	30.43	11.35	28.71	10.58	27.00	9.82	26.14	9.47	25.29	9.10	23.57	8.38
	-8.5(16.7)	-9.1(15.6)	30.43	11.05	28.71	10.31	27.00	9.58	26.14	9.23	25.29	8.87	23.57	8.18
	-7(19.4)	-7.6(18.3)	30.43	10.57	28.71	9.87	27.00	9.17	26.14	8.84	25.29	8.50	23.57	7.86
	-5(23)	-5.6(21.9)	30.43	9.95	28.71	9.30	27.00	8.65	26.14	8.34	25.29	8.03	23.57	7.43
	-3(26.6)	-3.7(25.3)	30.43	9.40	28.71	8.78	27.00	8.18	26.14	7.90	25.29	7.60	23.57	7.03
	0(32)	-0.7(30.7)	30.43	8.58	28.71	8.04	27.00	7.50	26.14	7.24	25.29	6.97	23.57	6.46
	3(37.4)	2.2(36)	30.43	7.87	28.71	7.39	27.00	6.90	26.14	6.66	25.29	6.43	23.57	5.96
	5(41)	4.1(39.4)	30.43	7.44	28.71	6.99	27.00	6.53	26.14	6.32	25.29	6.09	23.57	5.66
	7(44.6)	6(42.8)	30.43	7.04	28.71	6.62	27.00	6.19	26.14	5.99	25.29	5.79	23.57	5.38
9(48.2)	7.9(46.2)	30.43	6.67	28.71	6.27	27.00	5.87	26.14	5.69	25.29	5.49	23.57	5.12	
11(51.8)	9.8(49.6)	30.43	6.33	28.71	5.96	27.00	5.59	26.14	5.40	25.29	5.22	23.57	4.88	
13(55.4)	11.8(53.2)	30.43	5.99	28.71	5.65	27.00	5.30	26.14	5.13	25.29	4.96	23.57	4.63	
15(59)	13.7(56.7)	30.43	5.70	28.71	5.36	27.00	5.05	26.14	4.89	25.29	4.73	23.57	4.42	
50%	-19.8(-3.6)	-20(-4)	25.35	11.78	23.92	10.97	22.50	10.18	21.65	9.81	20.93	9.42	19.51	8.68
	-18.8(-1.8)	-19(-2.2)	25.35	11.52	23.92	10.74	22.50	9.98	21.65	9.60	20.93	9.23	19.51	8.51
	-16.7(1.9)	-17(1.4)	25.35	10.99	23.92	10.25	22.50	9.54	21.65	9.18	20.93	8.84	19.51	8.16
	-13.7(7.3)	-15(5)	25.35	10.47	23.92	9.77	22.50	9.08	21.65	8.75	20.93	8.43	19.51	7.79
	-11.8(10.8)	-13(8.6)	25.35	9.94	23.92	9.28	22.50	8.64	21.65	8.33	20.93	8.01	19.51	7.41
	-9.8(14.4)	-11(12.2)	25.35	9.41	23.92	8.80	22.50	8.20	21.65	7.90	20.93	7.61	19.51	7.04
	-9.5(14.9)	-10(14)	25.35	9.15	23.92	8.56	22.50	7.98	21.65	7.70	20.93	7.41	19.51	6.86
	-8.5(16.7)	-9.1(15.6)	25.35	8.93	23.92	8.36	22.50	7.79	21.65	7.51	20.93	7.24	19.51	6.70
	-7(19.4)	-7.6(18.3)	25.35	8.56	23.92	8.01	22.50	7.47	21.65	7.22	20.93	6.96	19.51	6.45
	-5(23)	-5.6(21.9)	25.35	8.07	23.92	7.57	22.50	7.07	21.65	6.83	20.93	6.59	19.51	6.10
	-3(26.6)	-3.7(25.3)	25.35	7.64	23.92	7.17	22.50	6.70	21.65	6.47	20.93	6.25	19.51	5.80
	0(32)	-0.7(30.7)	25.35	7.02	23.92	6.59	22.50	6.17	21.65	5.96	20.93	5.76	19.51	5.36
	3(37.4)	2.2(36)	25.35	6.46	23.92	6.07	22.50	5.69	21.65	5.50	20.93	5.32	19.51	4.96
	5(41)	4.1(39.4)	25.35	6.13	23.92	5.76	22.50	5.40	21.65	5.23	20.93	5.06	19.51	4.72
	7(44.6)	6(42.8)	25.35	5.82	23.92	5.48	22.50	5.15	21.65	4.98	20.93	4.82	19.51	4.51
9(48.2)	7.9(46.2)	25.35	5.52	23.92	5.20	22.50	4.89	21.65	4.75	20.93	4.59	19.51	4.29	
11(51.8)	9.8(49.6)	25.35	5.25	23.92	4.95	22.50	4.66	21.65	4.52	20.93	4.38	19.51	4.09	
13(55.4)	11.8(53.2)	25.35	4.99	23.92	4.71	22.50	4.43	21.65	4.31	20.93	4.16	19.51	3.91	
15(59)	13.7(56.7)	25.35	4.75	23.92	4.49	22.50	4.23	21.65	4.11	20.93	3.98	19.51	3.74	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X450W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-19.8(-3.6)	-20(-4)	32.38	9.04	32.22	9.67	32.07	10.32	32.07	10.64	31.91	10.95	31.91	11.60
	-18.8(-1.8)	-19(-2.2)	32.86	9.24	32.70	9.87	32.70	10.50	32.54	10.82	32.54	11.12	32.38	11.75
	-16.7(1.9)	-17(1.4)	34.13	9.67	33.97	10.27	33.81	10.89	33.81	11.19	33.81	11.48	33.65	12.08
	-13.7(7.3)	-15(5)	35.55	10.12	35.40	10.70	35.24	11.29	35.24	11.57	35.08	11.87	35.08	12.45
	-11.8(10.8)	-13(8.6)	36.99	10.57	36.99	11.14	36.83	11.68	36.67	11.97	36.67	12.25	36.51	12.80
	-9.8(14.4)	-11(12.2)	38.73	11.04	38.57	11.57	38.41	12.10	38.41	12.37	38.41	12.63	38.25	13.16
	-9.5(14.9)	-10(14)	39.68	11.27	39.53	11.78	39.37	12.30	39.37	12.56	39.21	12.82	39.21	13.33
	-8.5(16.7)	-9.1(15.6)	40.47	11.47	40.32	11.97	40.32	12.48	40.16	12.73	40.16	12.98	40.00	13.50
	-7(19.4)	-7.6(18.3)	41.91	11.80	41.91	12.30	41.75	12.78	41.75	13.03	41.59	13.26	41.43	13.76
	-5(23)	-5.6(21.9)	44.13	12.25	43.97	12.71	43.81	13.18	43.81	13.41	43.65	13.63	43.65	14.09
	-3(26.6)	-3.7(25.3)	46.19	12.65	46.03	13.10	46.03	13.53	45.87	13.76	45.87	13.98	45.71	14.41
	0(32)	-0.7(30.7)	49.84	13.26	49.84	13.68	49.68	14.08	49.68	14.23	49.52	14.49	49.52	14.89
	3(37.4)	2.2(36)	53.81	13.81	53.65	14.19	53.49	14.58	53.49	14.76	53.49	14.96	53.33	15.32
	5(41)	4.1(39.4)	56.51	14.16	56.35	14.53	56.35	14.88	56.19	15.06	56.19	15.24	56.03	15.59
	7(44.6)	6(42.8)	59.36	14.49	59.21	14.83	59.21	15.17	59.05	15.34	59.05	15.51	56.67	14.89
	9(48.2)	7.9(46.2)	62.38	14.79	62.22	15.12	62.22	15.44	62.06	15.61	60.79	15.28	56.67	13.99
11(51.8)	9.8(49.6)	65.55	15.09	65.40	15.39	65.08	15.59	62.86	14.98	60.79	14.36	56.67	13.18	
13(55.4)	11.8(53.2)	69.04	15.37	68.89	15.67	65.08	14.61	62.86	14.03	60.79	13.48	56.67	12.37	
15(59)	13.7(56.7)	72.38	15.64	69.20	14.84	65.08	13.76	62.86	13.23	60.79	12.70	56.67	11.67	
120%	-19.8(-3.6)	-20(-4)	32.22	9.41	32.06	9.96	31.90	10.52	31.90	10.79	31.90	11.08	31.75	11.65
	-18.8(-1.8)	-19(-2.2)	32.70	9.58	32.54	10.13	32.54	10.68	32.38	10.95	32.38	11.24	32.22	11.79
	-16.7(1.9)	-17(1.4)	33.97	9.96	33.81	10.49	33.60	11.01	33.65	11.28	33.65	11.55	33.49	12.07
	-13.7(7.3)	-15(5)	35.40	10.35	35.24	10.86	35.08	11.36	35.08	11.63	35.08	11.88	34.92	12.39
	-11.8(10.8)	-13(8.6)	36.83	10.75	36.83	11.24	36.67	11.73	36.67	11.98	36.51	12.21	36.51	12.70
	-9.8(14.4)	-11(12.2)	38.57	11.16	38.41	11.61	38.41	12.09	38.25	12.32	38.25	12.55	38.10	13.02
	-9.5(14.9)	-10(14)	39.53	11.36	39.37	11.82	39.21	12.26	39.21	12.50	39.21	12.72	39.05	13.18
	-8.5(16.7)	-9.1(15.6)	40.32	11.53	40.16	11.98	40.16	12.42	40.00	12.64	40.00	12.88	39.84	13.32
	-7(19.4)	-7.6(18.3)	41.75	11.83	41.75	12.26	41.59	12.69	41.59	12.91	41.43	13.11	41.43	13.54
	-5(23)	-5.6(21.9)	43.97	12.21	43.81	12.62	43.65	13.03	43.65	13.24	43.65	13.44	43.50	13.84
	-3(26.6)	-3.7(25.3)	46.04	12.58	46.04	12.97	45.88	13.35	45.88	13.54	45.72	13.74	45.72	14.12
	0(32)	-0.7(30.7)	49.68	13.11	49.68	13.48	49.53	13.82	49.53	14.01	49.37	14.19	49.37	14.55
	3(37.4)	2.2(36)	53.65	13.60	53.49	13.93	53.49	14.27	53.33	14.44	53.33	14.60	52.22	14.52
	5(41)	4.1(39.4)	56.35	13.90	56.19	14.22	56.19	14.53	56.03	14.69	56.03	14.85	52.22	13.63
	7(44.6)	6(42.8)	59.21	14.19	59.21	14.49	59.05	14.79	58.10	14.58	56.19	13.98	52.22	12.83
	9(48.2)	7.9(46.2)	62.23	14.47	62.07	14.75	60.00	14.27	58.10	13.70	56.19	13.14	52.22	12.07
11(51.8)	9.8(49.6)	65.40	14.72	63.81	14.47	60.00	13.41	58.10	12.89	56.19	12.37	52.22	11.38	
13(55.4)	11.8(53.2)	67.78	14.58	63.81	13.57	60.00	12.58	58.10	12.10	56.19	11.63	52.22	10.70	
15(59)	13.7(56.7)	67.78	13.73	63.81	12.78	60.00	11.87	58.10	11.41	56.19	10.97	52.22	10.10	
110%	-19.8(-3.6)	-20(-4)	32.06	10.49	31.91	11.01	31.75	11.55	31.75	11.81	31.76	12.07	31.59	12.60
	-18.8(-1.8)	-19(-2.2)	32.54	10.66	32.38	11.17	32.38	11.69	32.38	11.95	32.22	12.21	32.22	12.73
	-16.7(1.9)	-17(1.4)	33.81	11.01	33.65	11.51	34.12	12.02	33.49	12.26	33.49	12.52	33.33	13.00
	-13.7(7.3)	-15(5)	35.24	11.39	35.09	11.87	34.92	12.34	34.92	12.58	34.92	12.83	34.76	13.30
	-11.8(10.8)	-13(8.6)	36.67	11.77	36.67	12.23	36.51	12.68	36.51	12.91	36.35	13.13	36.35	13.60
	-9.8(14.4)	-11(12.2)	38.41	12.15	38.25	12.58	38.25	13.02	38.09	13.25	38.09	13.46	38.09	13.90
	-9.5(14.9)	-10(14)	39.37	12.34	39.21	12.76	39.05	13.20	39.05	13.41	39.05	13.62	38.89	14.04
	-8.5(16.7)	-9.1(15.6)	40.16	12.50	40.00	12.92	40.00	13.34	39.84	13.56	39.84	13.77	39.84	12.55
	-7(19.4)	-7.6(18.3)	41.59	12.79	41.59	13.18	41.43	13.59	41.43	13.80	41.43	13.99	41.27	14.40
	-5(23)	-5.6(21.9)	43.81	13.15	43.65	13.54	43.49	13.91	43.49	14.11	43.49	14.30	43.33	14.69
	-3(26.6)	-3.7(25.3)	45.88	13.49	45.88	13.85	45.72	14.22	45.72	14.40	45.56	14.58	45.56	14.95
	0(32)	-0.7(30.7)	49.52	13.99	49.52	14.33	49.37	14.67	49.37	14.83	49.37	15.01	47.94	14.72
	3(37.4)	2.2(36)	53.49	14.46	53.33	14.77	53.33	15.08	53.17	15.22	51.43	14.61	47.94	13.39
	5(41)	4.1(39.4)	56.19	14.74	56.19	15.04	55.08	14.90	53.17	14.30	51.43	13.73	47.94	12.60
	7(44.6)	6(42.8)	59.05	15.01	58.57	15.11	55.08	13.99	53.17	13.44	51.43	12.91	47.94	11.85
	9(48.2)	7.9(46.2)	62.06	15.26	58.57	14.20	55.08	13.17	53.17	12.65	51.43	12.15	47.94	11.17
11(51.8)	9.8(49.6)	62.06	14.35	58.57	13.36	55.08	12.39	53.17	11.92	51.43	11.45	47.94	10.54	
13(55.4)	11.8(53.2)	62.06	13.46	58.57	12.53	55.08	11.64	53.17	11.21	51.43	10.77	47.94	9.93	
15(59)	13.7(56.7)	62.06	11.95	58.57	11.82	55.08	11.00	53.17	10.58	51.43	10.19	47.94	9.39	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X450W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-19.8(-3.6)	-20(-4)	31.91	11.34	31.75	11.81	31.75	12.29	31.59	12.53	31.59	12.76	31.43	13.25
	-18.8(-1.8)	-19(-2.2)	32.38	11.48	32.38	11.95	32.22	12.42	32.22	12.66	32.07	12.91	32.07	13.38
	-16.7(1.9)	-17(1.4)	33.65	11.81	33.49	12.26	33.49	12.71	33.34	12.94	33.34	13.17	33.34	13.62
	-13.7(7.3)	-15(5)	35.08	12.15	34.92	12.58	34.76	13.02	34.76	13.25	34.76	13.46	34.61	13.89
	-11.8(10.8)	-13(8.6)	36.51	12.50	36.51	12.91	36.35	13.33	36.35	13.54	36.35	13.75	36.19	14.17
	-9.8(14.4)	-11(12.2)	38.26	12.84	38.10	13.25	38.10	13.64	38.10	13.85	37.94	14.04	37.94	14.43
	-9.5(14.9)	-10(14)	39.21	13.02	39.05	13.41	39.05	13.80	38.89	13.99	38.89	14.19	38.73	14.57
	-8.5(16.7)	-9.1(15.6)	40.00	13.17	39.84	13.55	39.84	13.93	39.84	14.12	39.69	14.32	39.69	14.69
	-7(19.4)	-7.6(18.3)	41.43	13.43	41.43	13.80	41.27	14.15	41.27	14.35	41.27	14.53	41.11	14.90
	-5(23)	-5.6(21.9)	43.65	13.77	43.49	14.11	43.49	14.46	43.34	14.62	43.34	14.80	43.18	15.16
	-3(26.6)	-3.7(25.3)	45.72	14.07	45.72	12.78	45.56	14.74	45.56	14.90	45.56	15.06	43.65	14.43
	0(32)	-0.7(30.7)	49.37	14.53	49.37	14.83	49.21	15.14	48.42	14.90	46.83	14.28	43.65	13.10
	3(37.4)	2.2(36)	53.34	14.95	53.18	15.22	50.00	14.09	48.42	13.54	46.83	13.00	43.65	11.94
	5(41)	4.1(39.4)	56.03	15.22	53.18	14.30	50.00	13.25	48.42	12.74	46.83	12.24	43.65	11.26
	7(44.6)	6(42.8)	56.35	14.45	53.18	13.44	50.00	12.47	48.42	12.00	46.83	11.53	43.65	10.61
	9(48.2)	7.9(46.2)	56.35	13.57	53.18	12.65	50.00	11.74	48.42	11.16	46.83	10.87	43.65	10.01
11(51.8)	9.8(49.6)	56.35	12.78	53.18	11.92	50.00	11.08	48.42	10.66	46.83	10.25	43.65	9.46	
13(55.4)	11.8(53.2)	56.35	12.00	53.18	11.21	50.00	10.43	48.42	10.04	46.83	9.67	43.65	8.92	
15(59)	13.7(56.7)	56.35	11.32	53.18	10.58	50.00	9.85	48.42	9.49	46.83	9.13	43.65	8.45	
90%	-19.8(-3.6)	-20(-4)	31.69	12.18	31.53	12.60	31.53	13.04	31.37	13.25	31.37	13.47	31.37	13.90
	-18.8(-1.8)	-19(-2.2)	32.17	12.31	32.17	12.74	32.01	13.17	32.01	13.38	32.01	13.59	31.85	14.01
	-16.7(1.9)	-17(1.4)	33.44	12.62	33.27	13.02	33.27	13.43	33.27	13.64	33.12	13.83	33.12	14.23
	-13.7(7.3)	-15(5)	34.86	12.92	34.70	13.31	34.70	13.70	34.54	13.89	34.54	14.09	34.54	14.48
	-11.8(10.8)	-13(8.6)	36.28	13.23	36.28	13.60	36.13	13.98	36.13	14.17	36.13	14.35	35.97	14.72
	-9.8(14.4)	-11(12.2)	38.03	13.54	38.03	13.90	37.87	14.25	37.87	14.43	37.87	14.62	37.71	14.98
	-9.5(14.9)	-10(14)	38.98	13.70	38.82	14.06	38.82	14.40	38.66	14.57	38.66	14.75	38.66	15.09
	-8.5(16.7)	-9.1(15.6)	39.77	13.85	39.77	14.19	39.61	14.53	39.61	14.69	39.61	14.87	39.14	15.01
	-7(19.4)	-7.6(18.3)	41.20	14.07	41.20	14.40	41.04	14.74	41.04	14.90	41.04	15.06	39.14	14.33
	-5(23)	-5.6(21.9)	43.42	14.38	43.26	14.69	43.26	15.00	43.10	15.16	41.99	14.69	39.14	13.47
	-3(26.6)	-3.7(25.3)	45.48	14.66	45.48	14.95	45.00	15.01	43.42	14.41	41.99	13.83	39.14	12.70
	0(32)	-0.7(30.7)	49.28	15.08	47.85	14.70	45.00	13.62	43.42	13.08	41.99	12.57	39.14	11.55
	3(37.4)	2.2(36)	50.71	14.36	47.85	13.38	45.00	12.41	43.42	11.94	41.99	11.47	39.14	10.56
	5(41)	4.1(39.4)	50.71	13.51	47.85	12.58	45.00	11.69	43.42	11.24	41.99	10.82	39.14	9.96
	7(44.6)	6(42.8)	50.71	12.70	47.85	11.85	45.00	11.01	43.42	10.61	41.99	10.20	39.14	9.41
	9(48.2)	7.9(46.2)	50.71	11.97	47.85	11.16	45.00	10.38	43.42	10.01	41.99	9.64	39.14	8.89
11(51.8)	9.8(49.6)	50.71	11.27	47.85	10.53	45.00	9.81	43.42	9.46	41.99	9.10	39.14	8.42	
13(55.4)	11.8(53.2)	50.71	10.61	47.85	9.93	45.00	9.25	43.42	8.92	41.99	8.60	39.14	7.95	
15(59)	13.7(56.7)	50.71	10.02	47.85	9.38	45.00	8.76	43.42	8.45	41.99	8.15	39.14	7.55	
80%	-19.8(-3.6)	-20(-4)	31.59	13.02	31.43	13.39	31.43	13.78	31.43	13.98	31.27	14.17	31.27	14.54
	-18.8(-1.8)	-19(-2.2)	32.06	13.13	32.06	13.52	31.90	13.89	31.90	14.09	31.90	14.27	31.75	14.66
	-16.7(1.9)	-17(1.4)	33.33	13.41	33.18	13.77	33.18	14.14	33.18	14.32	33.18	14.49	33.02	14.85
	-13.7(7.3)	-15(5)	34.76	13.68	34.60	14.02	34.60	14.38	34.60	14.54	34.44	14.72	34.44	15.08
	-11.8(10.8)	-13(8.6)	36.19	13.96	36.19	14.30	36.03	14.62	36.03	14.78	36.03	14.96	34.92	14.56
	-9.8(14.4)	-11(12.2)	37.94	14.23	37.94	14.56	37.78	14.88	37.78	15.03	37.46	15.00	34.92	13.75
	-9.5(14.9)	-10(14)	38.89	14.38	38.72	14.69	38.73	15.00	38.73	15.16	37.46	14.56	34.92	13.34
	-8.5(16.7)	-9.1(15.6)	39.68	14.51	36.88	14.82	39.52	15.11	38.73	14.77	37.46	14.17	34.92	12.99
	-7(19.4)	-7.6(18.3)	41.11	14.72	41.11	15.01	40.00	14.69	38.73	14.10	37.46	13.54	34.92	12.42
	-5(23)	-5.6(21.9)	43.33	14.98	42.54	14.90	40.00	13.80	38.73	13.26	37.46	12.73	34.92	11.69
	-3(26.6)	-3.7(25.3)	45.08	15.06	42.54	14.02	40.00	12.99	38.73	12.50	37.46	12.00	34.92	11.04
	0(32)	-0.7(30.7)	45.08	13.67	42.54	12.73	40.00	11.82	38.73	11.38	37.46	10.93	34.92	10.07
	3(37.4)	2.2(36)	45.08	12.45	42.54	11.61	40.00	10.80	38.73	10.40	37.46	10.01	34.92	9.23
	5(41)	4.1(39.4)	45.08	11.73	42.54	10.95	40.00	10.19	38.73	9.81	37.46	9.46	34.92	8.73
	7(44.6)	6(42.8)	45.08	11.04	42.54	10.33	40.00	9.62	38.73	9.28	37.46	8.94	34.92	8.26
	9(48.2)	7.9(46.2)	45.08	10.43	42.54	9.75	40.00	9.08	38.73	8.76	37.46	8.45	34.92	7.82
11(51.8)	9.8(49.6)	45.08	9.85	42.54	9.21	40.00	8.60	38.73	8.29	37.46	8.00	34.92	7.42	
13(55.4)	11.8(53.2)	45.08	9.28	42.54	8.70	40.00	8.13	38.73	7.84	37.46	7.56	34.92	7.01	
15(59)	13.7(56.7)	45.08	8.78	42.54	8.24	40.00	7.71	38.73	7.43	37.46	7.17	34.92	6.67	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X450W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-19.8(-3.6)	-20(-4)	31.36	13.86	31.20	14.19	31.20	14.53	31.20	14.69	31.20	14.87	30.41	14.70
	-18.8(-1.8)	-19(-2.2)	31.83	13.97	31.83	14.30	31.68	14.62	31.68	14.79	31.68	14.96	30.41	14.40
	-16.7(1.9)	-17(1.4)	33.10	14.20	33.10	14.53	32.94	14.83	32.94	15.00	32.62	13.36	30.41	13.73
	-13.7(7.3)	-15(5)	34.52	14.45	34.37	14.75	34.37	15.06	33.73	14.83	32.62	14.23	30.41	13.05
	-11.8(10.8)	-13(8.6)	35.95	14.69	35.95	14.98	35.00	14.62	33.73	14.06	32.62	13.49	30.41	12.37
	-9.8(14.4)	-11(12.2)	37.69	14.93	37.22	14.91	35.00	13.81	33.73	13.28	32.62	12.74	30.41	11.71
	-9.5(14.9)	-10(14)	38.64	15.06	37.22	14.48	35.00	13.41	33.73	12.89	32.62	12.39	30.41	11.38
	-8.5(16.7)	-9.1(15.6)	39.43	15.14	37.22	14.09	35.00	13.05	33.73	12.55	32.62	12.06	30.41	11.09
	-7(19.4)	-7.6(18.3)	39.43	14.46	37.22	13.46	35.00	12.49	33.73	12.02	32.62	11.55	30.41	10.62
	-5(23)	-5.6(21.9)	39.43	13.59	37.22	12.66	35.00	11.76	33.73	11.30	32.62	13.35	30.41	10.02
	-3(26.6)	-3.7(25.3)	39.43	12.79	37.22	11.94	35.00	11.09	33.73	10.67	32.62	10.27	30.41	9.47
	0(32)	-0.7(30.7)	39.43	11.64	37.22	10.88	35.00	10.12	33.73	9.75	32.62	9.39	30.41	8.68
	3(37.4)	2.2(36)	39.43	10.64	37.22	9.96	35.00	9.28	33.73	8.94	32.62	8.61	30.41	7.97
	5(41)	4.1(39.4)	39.43	10.04	37.22	9.39	35.00	8.78	33.73	8.45	32.62	8.15	30.41	7.55
	7(44.6)	6(42.8)	39.43	9.49	37.22	8.89	35.00	8.29	33.73	8.00	32.62	7.72	30.41	7.16
9(48.2)	7.9(46.2)	39.43	8.97	37.22	8.40	35.00	7.85	33.73	7.58	32.62	7.32	30.41	6.79	
11(51.8)	9.8(49.6)	39.43	8.49	37.22	7.95	35.00	7.45	33.73	7.19	32.62	6.95	30.41	6.44	
13(55.4)	11.8(53.2)	39.43	8.02	37.22	7.53	35.00	7.04	33.73	6.82	32.62	6.58	30.41	6.12	
15(59)	13.7(56.7)	39.43	7.59	37.22	7.14	35.00	6.69	33.73	6.48	32.62	6.25	30.41	5.83	
60%	-19.8(-3.6)	-20(-4)	31.27	14.70	31.11	14.98	30.00	14.41	29.05	13.85	28.10	13.30	26.19	12.19
	-18.8(-1.8)	-19(-2.2)	31.75	14.80	31.75	15.08	30.00	14.10	29.05	13.55	28.10	13.00	26.19	11.94
	-16.7(1.9)	-17(1.4)	33.02	15.00	31.91	14.53	30.00	13.46	29.05	12.94	28.10	12.42	26.19	11.42
	-13.7(7.3)	-15(5)	33.81	14.83	31.91	13.80	30.00	12.79	29.05	12.31	28.10	11.82	26.19	10.87
	-11.8(10.8)	-13(8.6)	33.81	14.04	31.91	13.07	30.00	12.13	29.05	11.68	28.10	11.22	26.19	10.38
	-9.8(14.4)	-11(12.2)	33.81	13.26	31.91	12.36	30.00	11.48	29.05	11.04	28.10	10.62	26.19	9.80
	-9.5(14.9)	-10(14)	33.81	12.89	31.91	12.02	30.00	11.16	29.05	10.75	28.10	10.33	26.19	9.52
	-8.5(16.7)	-9.1(15.6)	33.81	12.55	31.91	11.71	30.00	10.88	29.05	10.48	28.10	10.07	26.19	9.30
	-7(19.4)	-7.6(18.3)	33.81	12.00	31.91	11.21	30.00	10.41	29.05	10.04	28.10	9.65	26.19	8.92
	-5(23)	-5.6(21.9)	33.81	11.30	31.91	10.56	30.00	9.83	29.05	9.47	28.10	9.12	26.19	8.44
	-3(26.6)	-3.7(25.3)	33.81	10.67	31.91	9.98	30.00	9.30	29.05	8.97	28.10	8.63	26.19	7.98
	0(32)	-0.7(30.7)	33.81	9.75	31.91	9.13	30.00	8.52	29.05	8.23	28.10	7.92	26.19	7.34
	3(37.4)	2.2(36)	33.81	8.94	31.91	8.39	30.00	7.84	29.05	7.56	28.10	7.30	26.19	6.77
	5(41)	4.1(39.4)	33.81	8.45	31.91	7.93	30.00	7.42	29.05	7.17	28.10	6.91	26.19	6.43
	7(44.6)	6(42.8)	33.81	8.00	31.91	7.51	30.00	7.03	29.05	6.80	28.10	6.57	26.19	6.11
9(48.2)	7.9(46.2)	33.81	7.58	31.91	7.13	30.00	6.67	29.05	6.46	28.10	6.23	26.19	5.81	
11(51.8)	9.8(49.6)	33.81	7.19	31.91	6.77	30.00	6.35	29.05	6.14	28.10	5.93	26.19	5.54	
13(55.4)	11.8(53.2)	33.81	6.80	31.91	6.41	30.00	6.02	29.05	5.83	28.10	5.64	26.19	5.26	
15(59)	13.7(56.7)	33.81	6.48	31.91	6.09	30.00	5.73	29.05	5.55	28.10	5.38	26.19	5.02	
50%	-19.8(-3.6)	-20(-4)	28.17	13.38	26.58	12.45	25.00	11.56	24.05	11.14	23.26	10.70	21.68	9.86
	-18.8(-1.8)	-19(-2.2)	28.17	13.08	26.58	12.19	25.00	11.34	24.05	10.90	23.26	10.48	21.68	9.67
	-16.7(1.9)	-17(1.4)	28.17	12.49	26.58	11.64	25.00	10.83	24.05	10.43	23.26	10.04	21.68	9.26
	-13.7(7.3)	-15(5)	28.17	11.89	26.58	11.09	25.00	10.32	24.05	9.94	23.26	9.57	21.68	8.84
	-11.8(10.8)	-13(8.6)	28.17	11.29	26.58	10.54	25.00	9.81	24.05	9.46	23.26	9.10	21.68	8.42
	-9.8(14.4)	-11(12.2)	28.17	10.69	26.58	9.99	25.00	9.31	24.05	8.97	23.26	8.65	21.68	8.00
	-9.5(14.9)	-10(14)	28.17	10.40	26.58	9.72	25.00	9.07	24.05	8.74	23.26	8.42	21.68	7.79
	-8.5(16.7)	-9.1(15.6)	28.17	10.14	26.58	9.49	25.00	8.84	24.05	8.53	23.26	8.23	21.68	7.61
	-7(19.4)	-7.6(18.3)	28.17	9.72	26.58	9.10	25.00	8.49	24.05	8.19	23.26	7.90	21.68	7.32
	-5(23)	-5.6(21.9)	28.17	9.17	26.58	8.60	25.00	8.03	24.05	7.76	23.26	7.48	21.68	6.93
	-3(26.6)	-3.7(25.3)	28.17	8.68	26.58	8.15	25.00	7.61	24.05	7.35	23.26	7.09	21.68	6.59
	0(32)	-0.7(30.7)	28.17	7.97	26.58	7.48	25.00	7.01	24.05	6.77	23.26	6.54	21.68	6.09
	3(37.4)	2.2(36)	28.17	7.34	26.58	6.90	25.00	6.46	24.05	6.25	23.26	6.04	21.68	5.64
	5(41)	4.1(39.4)	28.17	6.96	26.58	6.54	25.00	6.14	24.05	5.94	23.26	5.75	21.68	5.36
	7(44.6)	6(42.8)	28.17	6.61	26.58	6.22	25.00	5.85	24.05	5.65	23.26	5.47	21.68	5.12
9(48.2)	7.9(46.2)	28.17	6.27	26.58	5.91	25.00	5.55	24.05	5.39	23.26	5.21	21.68	4.87	
11(51.8)	9.8(49.6)	28.17	5.96	26.58	5.62	25.00	5.30	24.05	5.13	23.26	4.97	21.68	4.65	
13(55.4)	11.8(53.2)	28.17	5.67	26.58	5.34	25.00	5.04	24.05	4.89	23.26	4.73	21.68	4.44	
15(59)	13.7(56.7)	28.17	5.39	26.58	5.10	25.00	4.81	24.05	4.66	23.26	4.52	21.68	4.24	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X500W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	-19.8(-3.6)	-20(-4)	36.26	10.26	36.09	10.98	35.91	11.71	35.91	12.07	35.73	12.43	35.73	13.16
	-18.8(-1.8)	-19(-2.2)	36.80	10.49	36.62	11.20	36.62	11.92	36.44	12.28	36.44	12.62	36.26	13.33
	-16.7(1.9)	-17(1.4)	38.22	10.98	38.04	11.66	37.86	12.35	37.86	12.69	37.86	13.03	37.69	13.71
	-13.7(7.3)	-15(5)	39.82	11.49	39.65	12.15	39.47	12.81	39.47	13.13	39.29	13.47	39.29	14.13
	-11.8(10.8)	-13(8.6)	41.42	11.99	41.42	12.64	41.24	13.26	41.07	13.58	41.07	13.90	40.89	14.52
	-9.8(14.4)	-11(12.2)	43.38	12.52	43.20	13.13	43.02	13.73	43.02	14.03	43.02	14.33	42.84	14.94
	-9.5(14.9)	-10(14)	44.44	12.79	44.27	13.37	44.09	13.96	44.09	14.26	43.91	14.54	43.91	15.13
	-8.5(16.7)	-9.1(15.6)	45.33	13.01	45.16	13.58	45.16	14.16	44.98	14.45	44.98	14.73	44.80	15.31
	-7(19.4)	-7.6(18.3)	46.93	13.39	46.93	13.96	46.75	14.50	46.75	14.79	46.58	15.05	46.40	15.62
	-5(23)	-5.6(21.9)	49.42	13.90	49.24	14.43	49.06	14.96	49.06	15.22	48.89	15.46	48.89	15.99
	-3(26.6)	-3.7(25.3)	51.73	14.35	51.56	14.86	51.56	15.35	51.38	15.62	51.38	15.86	51.20	16.35
	0(32)	-0.7(30.7)	55.82	15.05	55.82	15.52	55.64	15.97	55.64	16.14	55.47	16.45	55.47	16.90
	3(37.4)	2.2(36)	60.26	15.67	60.09	16.11	59.91	16.54	59.91	16.75	59.91	16.97	59.73	17.39
	5(41)	4.1(39.4)	63.29	16.07	63.11	16.48	63.11	16.88	62.93	17.09	62.93	17.29	62.76	17.69
	7(44.6)	6(42.8)	66.49	16.45	66.31	16.82	66.31	17.22	66.13	17.41	66.13	17.60	63.46	16.90
9(48.2)	7.9(46.2)	69.86	16.79	69.68	17.16	69.68	17.52	69.51	17.71	68.09	17.33	63.46	15.88	
11(51.8)	9.8(49.6)	73.42	17.12	73.25	17.46	72.89	17.69	70.40	16.99	68.09	16.29	63.46	14.96	
13(55.4)	11.8(53.2)	77.33	17.44	77.15	17.79	72.89	16.58	70.40	15.92	68.09	15.30	63.46	14.03	
15(59)	13.7(56.7)	81.06	17.75	77.51	16.84	72.89	15.62	70.40	15.01	68.09	14.41	63.46	13.24	
120%	-19.8(-3.6)	-20(-4)	36.09	10.67	35.91	11.30	35.73	11.94	35.73	12.25	35.73	12.57	35.55	13.21
	-18.8(-1.8)	-19(-2.2)	36.63	10.87	36.45	11.50	36.45	12.12	36.27	12.43	36.27	12.75	36.09	13.38
	-16.7(1.9)	-17(1.4)	38.05	11.30	37.87	11.91	37.63	12.50	37.69	12.80	37.69	13.11	37.51	13.70
	-13.7(7.3)	-15(5)	39.65	11.75	39.47	12.32	39.29	12.89	39.29	13.20	39.29	13.48	39.11	14.06
	-11.8(10.8)	-13(8.6)	41.25	12.19	41.25	12.75	41.07	13.30	41.07	13.59	40.89	13.86	40.89	14.41
	-9.8(14.4)	-11(12.2)	43.20	12.66	43.02	13.18	43.02	13.72	42.84	13.98	42.84	14.24	42.67	14.77
	-9.5(14.9)	-10(14)	44.27	12.89	44.09	13.41	43.91	13.91	43.91	14.18	43.91	14.43	43.74	14.95
	-8.5(16.7)	-9.1(15.6)	45.16	13.09	44.98	13.59	44.98	14.09	44.80	14.34	44.80	14.61	44.62	15.11
	-7(19.4)	-7.6(18.3)	46.76	13.43	46.76	13.91	46.58	14.40	46.58	14.65	46.40	14.88	46.40	15.36
	-5(23)	-5.6(21.9)	49.24	13.86	49.07	14.32	48.89	14.79	48.89	15.02	48.89	15.26	48.72	15.70
	-3(26.6)	-3.7(25.3)	51.56	14.27	51.56	14.72	51.38	15.15	51.38	15.36	51.20	15.60	51.20	16.03
	0(32)	-0.7(30.7)	55.65	14.88	55.65	15.29	55.47	15.69	55.47	15.90	55.29	16.10	55.29	16.51
	3(37.4)	2.2(36)	60.09	15.44	59.91	15.81	59.91	16.19	59.73	16.38	59.73	16.56	58.49	16.47
	5(41)	4.1(39.4)	63.11	15.77	62.94	16.13	62.94	16.49	62.76	16.67	62.76	16.85	58.49	15.47
	7(44.6)	6(42.8)	66.31	16.10	66.31	16.44	66.14	16.78	65.07	16.54	62.94	15.86	58.49	14.56
9(48.2)	7.9(46.2)	69.69	16.42	69.52	16.74	67.20	16.19	65.07	15.55	62.94	14.92	58.49	13.70	
11(51.8)	9.8(49.6)	73.25	16.71	71.47	16.42	67.20	15.22	65.07	14.63	62.94	14.04	58.49	12.91	
13(55.4)	11.8(53.2)	75.91	16.54	71.47	15.40	67.20	14.27	65.07	13.73	62.94	13.20	58.49	12.14	
15(59)	13.7(56.7)	75.91	15.58	71.47	14.50	67.20	13.47	65.07	12.95	62.94	12.44	58.49	11.46	
110%	-19.8(-3.6)	-20(-4)	35.91	11.91	35.74	12.50	35.56	13.10	35.56	13.40	35.57	13.69	35.38	14.30
	-18.8(-1.8)	-19(-2.2)	36.45	12.09	36.27	12.68	36.27	13.27	36.27	13.56	36.09	13.86	36.09	14.44
	-16.7(1.9)	-17(1.4)	37.87	12.50	37.69	13.07	38.22	13.64	37.51	13.91	37.51	14.21	37.33	14.76
	-13.7(7.3)	-15(5)	39.47	12.92	39.30	13.47	39.11	14.00	39.11	14.28	39.11	14.56	38.93	15.09
	-11.8(10.8)	-13(8.6)	41.07	13.36	41.07	13.87	40.89	14.39	40.89	14.65	40.71	14.90	40.71	15.44
	-9.8(14.4)	-11(12.2)	43.02	13.78	42.84	14.28	42.84	14.78	42.66	15.03	42.66	15.27	42.66	15.77
	-9.5(14.9)	-10(14)	44.09	14.00	43.91	14.48	43.73	14.98	43.73	15.22	43.73	15.46	43.56	15.93
	-8.5(16.7)	-9.1(15.6)	44.98	14.19	44.80	14.66	44.80	15.14	44.62	15.38	44.62	15.62	44.62	14.24
	-7(19.4)	-7.6(18.3)	46.58	14.52	46.58	14.96	46.40	15.42	46.40	15.66	46.40	15.88	46.22	16.34
	-5(23)	-5.6(21.9)	49.07	14.92	48.89	15.36	48.71	15.79	48.71	16.01	48.71	16.23	48.53	16.67
	-3(26.6)	-3.7(25.3)	51.38	15.31	51.38	15.71	51.20	16.13	51.20	16.34	51.02	16.54	51.02	16.96
	0(32)	-0.7(30.7)	55.47	15.88	55.47	16.26	55.29	16.65	55.29	16.83	55.29	17.04	53.69	16.70
	3(37.4)	2.2(36)	59.91	16.41	59.73	16.76	59.73	17.11	59.56	17.27	57.60	16.58	53.69	15.20
	5(41)	4.1(39.4)	62.94	16.72	62.94	17.07	61.69	16.91	59.56	16.23	57.60	15.58	53.69	14.30
	7(44.6)	6(42.8)	66.13	17.04	65.60	17.15	61.69	15.88	59.56	15.25	57.60	14.65	53.69	13.45
9(48.2)	7.9(46.2)	69.51	17.31	65.60	16.12	61.69	14.94	59.56	14.35	57.60	13.78	53.69	12.68	
11(51.8)	9.8(49.6)	69.51	16.28	65.60	15.16	61.69	14.06	59.56	13.53	57.60	12.99	53.69	11.96	
13(55.4)	11.8(53.2)	69.51	15.27	65.60	14.22	61.69	13.21	59.56	12.72	57.60	12.22	53.69	11.27	
15(59)	13.7(56.7)	69.51	13.56	65.60	13.42	61.69	12.48	59.56	12.00	57.60	11.56	53.69	10.66	

Heating capacity table

TC: Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X500W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
100%	-19.8(-3.6)	-20(-4)	35.73	12.86	35.55	13.40	35.55	13.95	35.38	14.22	35.38	14.48	35.20	15.03
	-18.8(-1.8)	-19(-2.2)	36.27	13.03	36.27	13.56	36.09	14.09	36.09	14.37	35.91	14.65	35.91	15.18
	-16.7(1.9)	-17(1.4)	37.69	13.40	37.51	13.91	37.51	14.43	37.34	14.68	37.34	14.94	37.34	15.45
	-13.7(7.3)	-15(5)	39.29	13.78	39.11	14.28	38.93	14.78	38.93	15.03	38.93	15.27	38.76	15.77
	-11.8(10.8)	-13(8.6)	40.89	14.19	40.89	14.65	40.71	15.12	40.71	15.36	40.71	15.60	40.53	16.08
	-9.8(14.4)	-11(12.2)	42.85	14.57	42.67	15.03	42.67	15.47	42.67	15.71	42.49	15.93	42.49	16.37
	-9.5(14.9)	-10(14)	43.91	14.78	43.74	15.22	43.74	15.66	43.56	15.88	43.56	16.10	43.38	16.54
	-8.5(16.7)	-9.1(15.6)	44.80	14.94	44.62	15.38	44.62	15.80	44.62	16.02	44.45	16.25	44.45	16.67
	-7(19.4)	-7.6(18.3)	46.40	15.23	46.40	15.66	46.22	16.06	46.22	16.28	46.22	16.48	46.04	16.91
	-5(23)	-5.6(21.9)	48.89	15.62	48.71	16.01	48.71	16.41	48.54	16.59	48.54	16.80	48.36	17.20
	-3(26.6)	-3.7(25.3)	51.20	15.97	51.20	16.50	51.02	16.72	51.02	16.91	51.02	17.09	48.89	16.37
	0(32)	-0.7(30.7)	55.29	16.48	55.29	16.83	55.11	17.18	54.22	16.91	52.44	16.21	48.89	14.87
	3(37.4)	2.2(36)	59.74	16.96	59.56	17.27	56.00	15.99	54.22	15.36	52.44	14.76	48.89	13.54
	5(41)	4.1(39.4)	62.75	17.27	59.56	16.23	56.00	15.03	54.22	14.46	52.44	13.89	48.89	12.77
	7(44.6)	6(42.8)	63.11	16.39	59.56	15.25	56.00	14.15	54.22	13.62	52.44	13.08	48.89	12.04
9(48.2)	7.9(46.2)	63.11	15.40	59.56	14.35	56.00	13.32	54.22	12.66	52.44	12.33	48.89	11.36	
11(51.8)	9.8(49.6)	63.11	14.50	59.56	13.52	56.00	12.57	54.22	12.09	52.44	11.63	48.89	10.73	
13(55.4)	11.8(53.2)	63.11	13.62	59.56	12.72	56.00	11.84	54.22	11.39	52.44	10.97	48.89	10.13	
15(59)	13.7(56.7)	63.11	12.85	59.56	12.00	56.00	11.17	54.22	10.77	52.44	10.36	48.89	9.59	
90%	-19.8(-3.6)	-20(-4)	35.49	13.82	35.32	14.30	35.32	14.79	35.14	15.03	35.14	15.29	35.14	15.77
	-18.8(-1.8)	-19(-2.2)	36.03	13.97	36.03	14.46	35.85	14.94	35.85	15.18	35.85	15.42	35.67	15.90
	-16.7(1.9)	-17(1.4)	37.45	14.32	37.27	14.78	37.27	15.23	37.27	15.47	37.09	15.69	37.09	16.15
	-13.7(7.3)	-15(5)	39.04	14.66	38.86	15.11	38.86	15.55	38.69	15.77	38.69	15.99	38.69	16.43
	-11.8(10.8)	-13(8.6)	40.64	15.01	40.64	15.44	40.46	15.86	40.46	16.08	40.46	16.28	40.28	16.70
	-9.8(14.4)	-11(12.2)	42.59	15.36	42.59	15.77	42.41	16.17	42.41	16.37	42.41	16.59	42.24	17.00
	-9.5(14.9)	-10(14)	43.66	15.55	43.48	15.95	43.48	16.34	43.30	16.54	43.30	16.74	43.30	17.13
	-8.5(16.7)	-9.1(15.6)	44.54	15.71	44.54	16.10	44.37	16.48	44.37	16.67	44.37	16.87	43.83	17.03
	-7(19.4)	-7.6(18.3)	46.14	15.97	46.14	16.34	45.96	16.72	45.96	16.91	45.96	17.09	43.83	16.26
	-5(23)	-5.6(21.9)	48.63	16.32	48.45	16.67	48.45	17.02	48.27	17.20	47.03	16.67	43.83	15.29
	-3(26.6)	-3.7(25.3)	50.93	16.63	50.93	16.96	50.40	17.03	48.63	16.35	47.03	15.69	43.83	14.41
	0(32)	-0.7(30.7)	55.19	17.11	53.60	16.69	50.40	15.45	48.63	14.85	47.03	14.26	43.83	13.10
	3(37.4)	2.2(36)	56.79	16.30	53.60	15.18	50.40	14.08	48.63	13.54	47.03	13.01	43.83	11.98
	5(41)	4.1(39.4)	56.79	15.33	53.60	14.28	50.40	13.27	48.63	12.75	47.03	12.28	43.83	11.30
	7(44.6)	6(42.8)	56.79	14.41	53.60	13.45	50.40	12.50	48.63	12.04	47.03	11.58	43.83	10.68
9(48.2)	7.9(46.2)	56.79	13.58	53.60	12.66	50.40	11.78	48.63	11.36	47.03	10.93	43.83	10.09	
11(51.8)	9.8(49.6)	56.79	12.79	53.60	11.94	50.40	11.14	48.63	10.73	47.03	10.33	43.83	9.56	
13(55.4)	11.8(53.2)	56.79	12.04	53.60	11.27	50.40	10.49	48.63	10.13	47.03	9.76	43.83	9.02	
15(59)	13.7(56.7)	56.79	11.37	53.60	10.64	50.40	9.94	48.63	9.59	47.03	9.24	43.83	8.56	
80%	-19.8(-3.6)	-20(-4)	35.38	14.77	35.20	15.20	35.20	15.64	35.20	15.86	35.02	16.08	35.02	16.50
	-18.8(-1.8)	-19(-2.2)	35.91	14.90	35.91	15.34	35.73	15.77	35.73	15.99	35.73	16.19	35.56	16.63
	-16.7(1.9)	-17(1.4)	37.33	15.21	37.16	15.62	37.16	16.04	37.16	16.24	37.16	16.45	36.98	16.85
	-13.7(7.3)	-15(5)	38.93	15.53	38.76	15.91	38.76	16.32	38.76	16.50	38.58	16.70	38.58	17.11
	-11.8(10.8)	-13(8.6)	40.54	15.84	40.54	16.23	40.36	16.59	40.36	16.78	40.36	16.98	39.11	16.52
	-9.8(14.4)	-11(12.2)	42.49	16.15	42.49	16.52	42.31	16.89	42.31	17.05	41.96	17.02	39.11	15.60
	-9.5(14.9)	-10(14)	43.55	16.32	43.37	16.67	43.38	17.02	43.38	17.20	41.96	16.52	39.11	15.14
	-8.5(16.7)	-9.1(15.6)	44.45	16.46	44.31	16.81	44.27	17.14	43.38	16.76	41.96	16.08	39.11	14.74
	-7(19.4)	-7.6(18.3)	46.05	16.70	46.05	17.03	44.80	16.67	43.38	16.01	41.96	15.36	39.11	14.09
	-5(23)	-5.6(21.9)	48.53	17.00	47.64	16.91	44.80	15.66	43.38	15.05	41.96	14.44	39.11	13.27
	-3(26.6)	-3.7(25.3)	50.49	17.09	47.64	15.91	44.80	14.74	43.38	14.19	41.96	13.62	39.11	12.53
	0(32)	-0.7(30.7)	50.49	15.51	47.64	14.44	44.80	13.41	43.38	12.92	41.96	12.40	39.11	11.43
	3(37.4)	2.2(36)	50.49	14.13	47.64	13.18	44.80	12.26	43.38	11.80	41.96	11.36	39.11	10.47
	5(41)	4.1(39.4)	50.49	13.30	47.64	12.42	44.80	11.56	43.38	11.14	41.96	10.73	39.11	9.90
	7(44.6)	6(42.8)	50.49	12.53	47.64	11.72	44.80	10.92	43.38	10.53	41.96	10.14	39.11	9.37
9(48.2)	7.9(46.2)	50.49	11.83	47.64	11.06	44.80	10.31	43.38	9.94	41.96	9.59	39.11	8.88	
11(51.8)	9.8(49.6)	50.49	11.17	47.64	10.46	44.80	9.76	43.38	9.41	41.96	9.08	39.11	8.42	
13(55.4)	11.8(53.2)	50.49	10.53	47.64	9.87	44.80	9.22	43.38	8.89	41.96	8.58	39.11	7.96	
15(59)	13.7(56.7)	50.49	9.96	47.64	9.35	44.80	8.75	43.38	8.43	41.96	8.14	39.11	7.57	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X500W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
70%	-19.8(-3.6)	-20(-4)	35.12	15.73	34.94	16.10	34.94	16.48	34.94	16.67	34.94	16.87	34.06	16.68
	-18.8(-1.8)	-19(-2.2)	35.65	15.86	35.65	16.23	35.48	16.59	35.48	16.78	35.48	16.98	34.06	16.34
	-16.7(1.9)	-17(1.4)	37.07	16.12	37.07	16.48	36.90	16.83	36.90	17.02	36.54	15.16	34.06	15.58
	-13.7(7.3)	-15(5)	38.67	16.39	38.49	16.74	38.49	17.09	37.78	16.83	36.54	16.15	34.06	14.81
	-11.8(10.8)	-13(8.6)	40.26	16.67	40.26	17.00	39.20	16.59	37.78	15.95	36.54	15.31	34.06	14.04
	-9.8(14.4)	-11(12.2)	42.21	16.94	41.68	16.92	39.20	15.67	37.78	15.07	36.54	14.46	34.06	13.29
	-9.5(14.9)	-10(14)	43.28	17.09	41.68	16.43	39.20	15.22	37.78	14.63	36.54	14.06	34.06	12.92
	-8.5(16.7)	-9.1(15.6)	44.17	17.18	41.68	15.99	39.20	14.81	37.78	14.24	36.54	13.69	34.06	12.59
	-7(19.4)	-7.6(18.3)	44.17	16.41	41.68	15.27	39.20	14.17	37.78	13.63	36.54	13.10	34.06	12.05
	-5(23)	-5.6(21.9)	44.17	15.42	41.68	14.37	39.20	13.34	37.78	12.83	36.54	15.15	34.06	11.37
	-3(26.6)	-3.7(25.3)	44.17	14.52	41.68	13.54	39.20	12.59	37.78	12.11	36.54	11.65	34.06	10.75
	0(32)	-0.7(30.7)	44.17	13.21	41.68	12.35	39.20	11.48	37.78	11.06	36.54	10.66	34.06	9.85
	3(37.4)	2.2(36)	44.17	12.07	41.68	11.30	39.20	10.53	37.78	10.14	36.54	9.78	34.06	9.04
	5(41)	4.1(39.4)	44.17	11.39	41.68	10.66	39.20	9.96	37.78	9.59	36.54	9.24	34.06	8.56
	7(44.6)	6(42.8)	44.17	10.77	41.68	10.09	39.20	9.41	37.78	9.08	36.54	8.76	34.06	8.12
9(48.2)	7.9(46.2)	44.17	10.18	41.68	9.54	39.20	8.91	37.78	8.60	36.54	8.31	34.06	7.70	
11(51.8)	9.8(49.6)	44.17	9.63	41.68	9.02	39.20	8.45	37.78	8.16	36.54	7.88	34.06	7.31	
13(55.4)	11.8(53.2)	44.17	9.10	41.68	8.54	39.20	7.99	37.78	7.74	36.54	7.46	34.06	6.95	
15(59)	13.7(56.7)	44.17	8.62	41.68	8.10	39.20	7.59	37.78	7.35	36.54	7.09	34.06	6.62	
60%	-19.8(-3.6)	-20(-4)	35.02	16.69	34.84	17.00	33.60	16.35	32.53	15.71	31.47	15.09	29.33	13.84
	-18.8(-1.8)	-19(-2.2)	35.56	16.80	35.56	17.11	33.60	16.00	32.53	15.38	31.47	14.76	29.33	13.54
	-16.7(1.9)	-17(1.4)	36.98	17.02	35.73	16.48	33.60	15.27	32.53	14.68	31.47	14.09	29.33	12.95
	-13.7(7.3)	-15(5)	37.87	16.83	35.73	15.66	33.60	14.52	32.53	13.97	31.47	13.41	29.33	12.33
	-11.8(10.8)	-13(8.6)	37.87	15.93	35.73	14.83	33.60	13.76	32.53	13.25	31.47	12.73	29.33	11.78
	-9.8(14.4)	-11(12.2)	37.87	15.05	35.73	14.02	33.60	13.03	32.53	12.53	31.47	12.05	29.33	11.12
	-9.5(14.9)	-10(14)	37.87	14.63	35.73	13.63	33.60	12.66	32.53	12.20	31.47	11.72	29.33	10.80
	-8.5(16.7)	-9.1(15.6)	37.87	14.24	35.73	13.29	33.60	12.35	32.53	11.89	31.47	11.43	29.33	10.55
	-7(19.4)	-7.6(18.3)	37.87	13.62	35.73	12.72	33.60	11.82	32.53	11.39	31.47	10.95	29.33	10.12
	-5(23)	-5.6(21.9)	37.87	12.83	35.73	11.98	33.60	11.15	32.53	10.75	31.47	10.35	29.33	9.57
	-3(26.6)	-3.7(25.3)	37.87	12.11	35.73	11.32	33.60	10.55	32.53	10.18	31.47	9.79	29.33	9.06
	0(32)	-0.7(30.7)	37.87	11.06	35.73	10.36	33.60	9.67	32.53	9.33	31.47	8.99	29.33	8.32
	3(37.4)	2.2(36)	37.87	10.14	35.73	9.52	33.60	8.89	32.53	8.58	31.47	8.29	29.33	7.68
	5(41)	4.1(39.4)	37.87	9.59	35.73	9.00	33.60	8.42	32.53	8.14	31.47	7.85	29.33	7.29
	7(44.6)	6(42.8)	37.87	9.08	35.73	8.53	33.60	7.97	32.53	7.72	31.47	7.46	29.33	6.93
9(48.2)	7.9(46.2)	37.87	8.60	35.73	8.08	33.60	7.57	32.53	7.33	31.47	7.07	29.33	6.60	
11(51.8)	9.8(49.6)	37.87	8.16	35.73	7.68	33.60	7.20	32.53	6.96	31.47	6.73	29.33	6.28	
13(55.4)	11.8(53.2)	37.87	7.72	35.73	7.28	33.60	6.84	32.53	6.62	31.47	6.39	29.33	5.97	
15(59)	13.7(56.7)	37.87	7.35	35.73	6.91	33.60	6.51	32.53	6.30	31.47	6.10	29.33	5.70	
50%	-19.8(-3.6)	-20(-4)	31.54	15.18	29.77	14.13	28.00	13.12	26.94	12.64	26.05	12.15	24.28	11.19
	-18.8(-1.8)	-19(-2.2)	31.54	14.85	29.77	13.84	28.00	12.86	26.94	12.37	26.05	11.89	24.28	10.97
	-16.7(1.9)	-17(1.4)	31.54	14.17	29.77	13.21	28.00	12.29	26.94	11.83	26.05	11.39	24.28	10.51
	-13.7(7.3)	-15(5)	31.54	13.49	29.77	12.59	28.00	11.70	26.94	11.28	26.05	10.86	24.28	10.03
	-11.8(10.8)	-13(8.6)	31.54	12.81	29.77	11.96	28.00	11.14	26.94	10.73	26.05	10.33	24.28	9.55
	-9.8(14.4)	-11(12.2)	31.54	12.13	29.77	11.34	28.00	10.57	26.94	10.18	26.05	9.81	24.28	9.08
	-9.5(14.9)	-10(14)	31.54	11.80	29.77	11.02	28.00	10.29	26.94	9.92	26.05	9.55	24.28	8.84
	-8.5(16.7)	-9.1(15.6)	31.54	11.50	29.77	10.77	28.00	10.03	26.94	9.68	26.05	9.33	24.28	8.64
	-7(19.4)	-7.6(18.3)	31.54	11.02	29.77	10.33	28.00	9.63	26.94	9.30	26.05	8.97	24.28	8.31
	-5(23)	-5.6(21.9)	31.54	10.40	29.77	9.76	28.00	9.11	26.94	8.80	26.05	8.49	24.28	7.86
	-3(26.6)	-3.7(25.3)	31.54	9.85	29.77	9.24	28.00	8.64	26.94	8.34	26.05	8.05	24.28	7.48
	0(32)	-0.7(30.7)	31.54	9.04	29.77	8.49	28.00	7.96	26.94	7.68	26.05	7.42	24.28	6.91
	3(37.4)	2.2(36)	31.54	8.32	29.77	7.83	28.00	7.33	26.94	7.09	26.05	6.85	24.28	6.39
	5(41)	4.1(39.4)	31.54	7.90	29.77	7.42	28.00	6.96	26.94	6.74	26.05	6.52	24.28	6.08
	7(44.6)	6(42.8)	31.54	7.50	29.77	7.06	28.00	6.63	26.94	6.41	26.05	6.21	24.28	5.81
9(48.2)	7.9(46.2)	31.54	7.11	29.77	6.71	28.00	6.30	26.94	6.12	26.05	5.92	24.28	5.53	
11(51.8)	9.8(49.6)	31.54	6.76	29.77	6.38	28.00	6.01	26.94	5.82	26.05	5.64	24.28	5.27	
13(55.4)	11.8(53.2)	31.54	6.43	29.77	6.06	28.00	5.71	26.94	5.55	26.05	5.37	24.28	5.03	
15(59)	13.7(56.7)	31.54	6.12	29.77	5.79	28.00	5.46	26.94	5.29	26.05	5.13	24.28	4.81	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X560W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	-19.8(-3.6)	-20(-4)	40.80	11.59	40.60	12.40	40.40	13.23	40.40	13.63	40.20	14.04	40.20	14.87
	-18.8(-1.8)	-19(-2.2)	41.40	11.84	41.20	12.65	41.20	13.46	41.00	13.87	41.00	14.25	40.80	15.06
	-16.7(1.9)	-17(1.4)	43.00	12.40	42.80	13.16	42.60	13.95	42.60	14.33	42.60	14.72	42.40	15.48
	-13.7(7.3)	-15(5)	44.80	12.97	44.60	13.72	44.40	14.46	44.40	14.82	44.20	15.21	44.20	15.95
	-11.8(10.8)	-13(8.6)	46.60	13.55	46.60	14.27	46.40	14.97	46.20	15.34	46.20	15.70	46.00	16.40
	-9.8(14.4)	-11(12.2)	48.80	14.14	48.60	14.82	48.40	15.51	48.40	15.85	48.40	16.19	48.20	16.87
	-9.5(14.9)	-10(14)	50.00	14.44	49.80	15.10	49.60	15.76	49.60	16.10	49.40	16.42	49.40	17.08
	-8.5(16.7)	-9.1(15.6)	51.00	14.70	50.80	15.34	50.80	16.00	50.60	16.32	50.60	16.63	50.40	17.30
	-7(19.4)	-7.6(18.3)	52.80	15.12	52.80	15.76	52.60	16.38	52.60	16.70	52.40	17.00	52.20	17.64
	-5(23)	-5.6(21.9)	55.60	15.70	55.40	16.29	55.20	16.89	55.20	17.19	55.00	17.46	55.00	18.06
	-3(26.6)	-3.7(25.3)	58.20	16.21	58.00	16.78	58.00	17.34	57.80	17.64	57.80	17.91	57.60	18.47
	0(32)	-0.7(30.7)	62.80	17.00	62.80	17.53	62.60	18.04	62.60	18.23	62.40	18.57	62.40	19.08
	3(37.4)	2.2(36)	67.79	17.70	67.60	18.19	67.40	18.68	67.40	18.91	67.40	19.17	67.20	19.64
	5(41)	4.1(39.4)	71.20	18.15	71.00	18.62	71.00	19.06	70.80	19.30	70.80	19.53	70.60	19.98
	7(44.6)	6(42.8)	74.80	18.57	74.60	19.00	74.60	19.45	74.40	19.66	74.40	19.87	71.40	19.08
	9(48.2)	7.9(46.2)	78.60	18.96	78.40	19.38	78.40	19.79	78.20	20.00	76.60	19.58	71.40	17.93
11(51.8)	9.8(49.6)	82.60	19.34	82.40	19.72	82.00	19.98	79.20	19.19	76.60	18.40	71.40	16.89	
13(55.4)	11.8(53.2)	87.00	19.70	86.80	20.09	82.00	18.72	79.20	17.98	76.60	17.27	71.40	15.85	
15(59)	13.7(56.7)	91.20	20.04	87.20	19.02	82.00	17.64	79.20	16.96	76.60	16.27	71.40	14.95	
120%	-19.8(-3.6)	-20(-4)	40.60	12.05	40.40	12.76	40.20	13.49	40.20	13.83	40.20	14.20	40.00	14.92
	-18.8(-1.8)	-19(-2.2)	41.20	12.27	41.00	12.98	41.00	13.69	40.80	14.03	40.80	14.40	40.60	15.10
	-16.7(1.9)	-17(1.4)	42.80	12.76	42.60	13.45	42.34	14.11	42.40	14.46	42.40	14.80	42.20	15.47
	-13.7(7.3)	-15(5)	44.60	13.27	44.40	13.91	44.20	14.56	44.20	14.90	44.20	15.23	44.00	15.87
	-11.8(10.8)	-13(8.6)	46.41	13.77	46.41	14.40	46.20	15.03	46.20	15.35	46.00	15.65	46.00	16.28
	-9.8(14.4)	-11(12.2)	48.60	14.30	48.40	14.88	48.40	15.49	48.20	15.79	48.20	16.08	48.00	16.68
	-9.5(14.9)	-10(14)	49.81	14.56	49.60	15.15	49.40	15.71	49.40	16.02	49.40	16.30	49.20	16.88
	-8.5(16.7)	-9.1(15.6)	50.80	14.78	50.60	15.35	50.60	15.91	50.40	16.20	50.40	16.50	50.20	17.07
	-7(19.4)	-7.6(18.3)	52.60	15.17	52.60	15.71	52.40	16.26	52.40	16.54	52.20	16.80	52.20	17.35
	-5(23)	-5.6(21.9)	55.40	15.65	55.20	16.18	55.00	16.70	55.00	16.97	55.00	17.23	54.81	17.73
	-3(26.6)	-3.7(25.3)	58.00	16.12	58.00	16.62	57.80	17.11	57.80	17.35	57.60	17.61	57.60	18.10
	0(32)	-0.7(30.7)	62.60	16.80	62.60	17.27	62.40	17.71	62.40	17.96	62.20	18.18	62.20	18.64
	3(37.4)	2.2(36)	67.60	17.43	67.40	17.86	67.40	18.28	67.20	18.50	67.20	18.70	65.80	18.60
	5(41)	4.1(39.4)	71.00	17.81	70.80	18.22	70.80	18.62	70.60	18.83	70.60	19.03	65.80	17.47
	7(44.6)	6(42.8)	74.60	18.18	74.60	18.56	74.40	18.95	73.21	18.68	70.80	17.92	65.80	16.44
	9(48.2)	7.9(46.2)	78.41	18.54	78.20	18.91	75.60	18.28	73.21	17.56	70.80	16.84	65.80	15.47
11(51.8)	9.8(49.6)	82.40	18.87	80.40	18.54	75.60	17.19	73.21	16.52	70.80	15.85	65.80	14.58	
13(55.4)	11.8(53.2)	85.40	18.68	80.40	17.39	75.60	16.12	73.21	15.51	70.80	14.90	65.80	13.71	
15(59)	13.7(56.7)	85.40	17.59	80.40	16.38	75.60	15.21	73.21	14.62	70.80	14.05	65.80	12.94	
110%	-19.8(-3.6)	-20(-4)	40.40	13.45	40.20	14.11	40.00	14.80	40.00	15.13	40.02	15.46	39.80	16.15
	-18.8(-1.8)	-19(-2.2)	41.00	13.66	40.80	14.32	40.80	14.98	40.80	15.32	40.60	15.65	40.60	16.31
	-16.7(1.9)	-17(1.4)	42.60	14.11	42.40	14.76	42.99	15.40	42.20	15.71	42.20	16.04	42.00	16.67
	-13.7(7.3)	-15(5)	44.40	14.59	44.21	15.21	44.00	15.81	44.00	16.13	44.00	16.44	43.80	17.04
	-11.8(10.8)	-13(8.6)	46.20	15.09	46.20	15.67	46.00	16.25	46.00	16.54	45.80	16.83	45.80	17.43
	-9.8(14.4)	-11(12.2)	48.40	15.57	48.20	16.13	48.20	16.69	48.00	16.98	48.00	17.25	48.00	17.81
	-9.5(14.9)	-10(14)	49.60	15.81	49.40	16.35	49.20	16.91	49.20	17.18	49.20	17.45	49.00	17.99
	-8.5(16.7)	-9.1(15.6)	50.60	16.02	50.40	16.56	50.40	17.10	50.20	17.37	50.20	17.64	50.20	18.08
	-7(19.4)	-7.6(18.3)	52.40	16.40	52.40	16.89	52.20	17.41	52.20	17.68	52.20	17.93	52.00	18.45
	-5(23)	-5.6(21.9)	55.20	16.85	55.00	17.35	54.80	17.83	54.80	18.08	54.80	18.33	54.60	18.83
	-3(26.6)	-3.7(25.3)	57.80	17.29	57.80	17.74	57.60	18.22	57.60	18.45	57.40	18.68	57.40	19.16
	0(32)	-0.7(30.7)	62.40	17.93	62.40	18.37	62.20	18.80	62.20	19.01	62.20	19.24	60.40	18.86
	3(37.4)	2.2(36)	67.40	18.53	67.20	18.93	67.20	19.32	67.00	19.51	64.80	18.72	60.40	17.16
	5(41)	4.1(39.4)	70.80	18.89	70.80	19.28	69.40	19.09	67.00	18.33	64.80	17.60	60.40	16.15
	7(44.6)	6(42.8)	74.40	19.24	73.80	19.36	69.40	17.93	67.00	17.22	64.80	16.54	60.40	15.19
	9(48.2)	7.9(46.2)	78.20	19.55	73.80	18.20	69.40	16.87	67.00	16.21	64.80	15.57	60.40	14.32
11(51.8)	9.8(49.6)	78.20	18.39	73.80	17.12	69.40	15.88	67.00	15.28	64.80	14.67	60.40	13.51	
13(55.4)	11.8(53.2)	78.20	17.25	73.80	16.06	69.40	14.92	67.00	14.36	64.80	13.80	60.40	12.72	
15(59)	13.7(56.7)	78.20	15.32	73.80	15.15	69.40	14.09	67.00	13.55	64.80	13.05	60.40	12.04	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X560W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-19.8(-3.6)	-20(-4)	40.20	14.53	40.00	15.13	40.00	15.75	39.80	16.06	39.80	16.35	39.60	16.98
	-18.8(-1.8)	-19(-2.2)	40.80	14.71	40.80	15.32	40.60	15.92	40.60	16.23	40.40	16.54	40.40	17.14
	-16.7(1.9)	-17(1.4)	42.40	15.13	42.20	15.71	42.20	16.29	42.00	16.58	42.00	16.87	42.00	17.45
	-13.7(7.3)	-15(5)	44.20	15.56	44.00	16.13	43.80	16.69	43.80	16.98	43.80	17.25	43.60	17.80
	-11.8(10.8)	-13(8.6)	46.00	16.02	46.00	16.54	45.80	17.08	45.80	17.35	45.80	17.62	45.60	18.16
	-9.8(14.4)	-11(12.2)	48.20	16.46	48.00	16.98	48.00	17.47	48.00	17.74	47.80	17.99	47.80	18.49
	-9.5(14.9)	-10(14)	49.40	16.69	49.20	17.18	49.20	17.68	49.00	17.93	49.00	18.18	48.80	18.68
	-8.5(16.7)	-9.1(15.6)	50.40	16.87	50.20	17.37	50.20	17.85	50.20	18.10	50.00	18.35	50.00	18.82
	-7(19.4)	-7.6(18.3)	52.20	17.20	52.20	17.68	52.00	18.14	52.00	18.39	52.00	18.62	51.80	19.09
	-5(23)	-5.6(21.9)	55.00	17.64	54.80	18.08	54.80	18.53	54.60	18.74	54.60	18.97	54.40	19.43
	-3(26.6)	-3.7(25.3)	57.60	18.04	57.60	18.37	57.40	18.89	57.40	19.09	57.40	19.30	55.00	18.49
	0(32)	-0.7(30.7)	62.20	18.62	62.20	19.01	62.00	19.40	61.00	19.09	59.00	18.31	55.00	16.79
	3(37.4)	2.2(36)	67.20	19.16	67.00	19.51	63.00	18.06	61.00	17.35	59.00	16.67	55.00	15.29
	5(41)	4.1(39.4)	70.60	19.51	67.00	18.33	63.00	16.98	61.00	16.33	59.00	15.69	55.00	14.42
	7(44.6)	6(42.8)	71.00	18.51	67.00	17.22	63.00	15.98	61.00	15.38	59.00	14.78	55.00	13.59
	9(48.2)	7.9(46.2)	71.00	17.39	67.00	16.21	63.00	15.05	61.00	14.30	59.00	13.92	55.00	12.83
11(51.8)	9.8(49.6)	71.00	16.37	67.00	15.27	63.00	14.20	61.00	13.65	59.00	13.14	55.00	12.12	
13(55.4)	11.8(53.2)	71.00	15.38	67.00	14.36	63.00	13.37	61.00	12.87	59.00	12.39	55.00	11.44	
15(59)	13.7(56.7)	71.00	14.51	67.00	13.55	63.00	12.62	61.00	12.16	59.00	11.71	55.00	10.83	
90%	-19.8(-3.6)	-20(-4)	39.93	15.61	39.73	16.15	39.73	16.71	39.53	16.98	39.53	17.27	39.53	17.81
	-18.8(-1.8)	-19(-2.2)	40.53	15.77	40.53	16.33	40.33	16.87	40.33	17.14	40.33	17.41	40.13	17.95
	-16.7(1.9)	-17(1.4)	42.13	16.17	41.92	16.69	41.92	17.20	41.92	17.47	41.73	17.72	41.73	18.24
	-13.7(7.3)	-15(5)	43.92	16.56	43.72	17.06	43.72	17.56	43.52	17.81	43.52	18.05	43.52	18.55
	-11.8(10.8)	-13(8.6)	45.72	16.96	45.72	17.43	45.52	17.91	45.52	18.16	45.52	18.39	45.32	18.86
	-9.8(14.4)	-11(12.2)	47.92	17.35	47.92	17.81	47.71	18.26	47.71	18.49	47.71	18.74	47.51	19.20
	-9.5(14.9)	-10(14)	49.11	17.56	48.92	18.01	48.92	18.45	48.72	18.68	48.72	18.91	48.72	19.34
	-8.5(16.7)	-9.1(15.6)	50.11	17.74	50.11	18.18	49.91	18.62	49.91	18.82	49.91	19.05	49.31	19.24
	-7(19.4)	-7.6(18.3)	51.91	18.04	51.91	18.45	51.71	18.88	51.71	19.09	51.71	19.30	49.31	18.37
	-5(23)	-5.6(21.9)	54.70	18.43	54.51	18.82	54.51	19.22	54.30	19.43	52.91	18.82	49.31	17.27
	-3(26.6)	-3.7(25.3)	57.30	18.78	57.30	19.16	56.70	19.24	54.70	18.47	52.91	17.72	49.31	16.27
	0(32)	-0.7(30.7)	62.09	19.32	60.29	18.84	56.70	17.45	54.70	16.77	52.91	16.10	49.31	14.80
	3(37.4)	2.2(36)	63.89	18.41	60.29	17.14	56.70	15.90	54.70	15.29	52.91	14.69	49.31	13.53
	5(41)	4.1(39.4)	63.89	17.31	60.29	16.12	56.70	14.98	54.70	14.40	52.91	13.86	49.31	12.76
	7(44.6)	6(42.8)	63.89	16.27	60.29	15.19	56.70	14.11	54.70	13.59	52.91	13.07	49.31	12.06
	9(48.2)	7.9(46.2)	63.89	15.34	60.29	14.30	56.70	13.30	54.70	12.82	52.91	12.35	49.31	11.39
11(51.8)	9.8(49.6)	63.89	14.44	60.29	13.49	56.70	12.58	54.70	12.12	52.91	11.66	49.31	10.79	
13(55.4)	11.8(53.2)	63.89	13.59	60.29	12.72	56.70	11.85	54.70	11.43	52.91	11.02	49.31	10.19	
15(59)	13.7(56.7)	63.89	12.85	60.29	12.02	56.70	11.23	54.70	10.83	52.91	10.44	49.31	9.67	
80%	-19.8(-3.6)	-20(-4)	39.80	16.68	39.60	17.16	39.60	17.66	39.60	17.91	39.40	18.16	39.40	18.64
	-18.8(-1.8)	-19(-2.2)	40.40	16.83	40.40	17.33	40.20	17.81	40.20	18.05	40.20	18.28	40.00	18.78
	-16.7(1.9)	-17(1.4)	42.00	17.18	41.80	17.64	41.80	18.12	41.80	18.34	41.80	18.57	41.60	19.03
	-13.7(7.3)	-15(5)	43.80	17.54	43.60	17.97	43.60	18.43	43.60	18.64	43.40	18.86	43.40	19.32
	-11.8(10.8)	-13(8.6)	45.60	17.89	45.60	18.32	45.40	18.74	45.40	18.95	45.40	19.18	44.00	18.66
	-9.8(14.4)	-11(12.2)	47.80	18.24	47.80	18.66	47.60	19.07	47.60	19.26	47.20	19.22	44.00	17.62
	-9.5(14.9)	-10(14)	49.00	18.43	48.79	18.82	48.80	19.22	48.80	19.42	47.20	18.66	44.00	17.10
	-8.5(16.7)	-9.1(15.6)	50.00	18.59	46.47	18.99	49.80	19.36	48.80	18.93	47.20	18.16	44.00	16.64
	-7(19.4)	-7.6(18.3)	51.80	18.86	51.80	19.24	50.40	18.82	48.80	18.08	47.20	17.35	44.00	15.92
	-5(23)	-5.6(21.9)	54.60	19.20	53.60	19.09	50.40	17.68	48.80	17.00	47.20	16.31	44.00	14.98
	-3(26.6)	-3.7(25.3)	56.80	19.30	53.60	17.97	50.40	16.64	48.80	16.02	47.20	15.38	44.00	14.15
	0(32)	-0.7(30.7)	56.80	17.52	53.60	16.31	50.40	15.15	48.80	14.59	47.20	14.01	44.00	12.91
	3(37.4)	2.2(36)	56.80	15.96	53.60	14.88	50.40	13.84	48.80	13.32	47.20	12.82	44.00	11.83
	5(41)	4.1(39.4)	56.80	15.03	53.60	14.03	50.40	13.05	48.80	12.58	47.20	12.12	44.00	11.19
	7(44.6)	6(42.8)	56.80	14.15	53.60	13.24	50.40	12.33	48.80	11.89	47.20	11.46	44.00	10.58
	9(48.2)	7.9(46.2)	56.80	13.36	53.60	12.49	50.40	11.64	48.80	11.23	47.20	10.83	44.00	10.02
11(51.8)	9.8(49.6)	56.80	12.62	53.60	11.81	50.40	11.02	48.80	10.63	47.20	10.25	44.00	9.50	
13(55.4)	11.8(53.2)	56.80	11.89	53.60	11.14	50.40	10.42	48.80	10.04	47.20	9.69	44.00	8.99	
15(59)	13.7(56.7)	56.80	11.25	53.60	10.56	50.40	9.88	48.80	9.53	47.20	9.19	44.00	8.55	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X560W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-19.8(-3.6)	-20(-4)	39.51	17.76	39.31	18.18	39.31	18.62	39.31	18.82	39.31	19.05	38.31	18.84
	-18.8(-1.8)	-19(-2.2)	40.11	17.91	40.11	18.32	39.91	18.74	39.91	18.95	39.91	19.18	38.31	18.45
	-16.7(1.9)	-17(1.4)	41.71	18.20	41.71	18.62	41.51	19.01	41.51	19.22	41.11	17.12	38.31	17.60
	-13.7(7.3)	-15(5)	43.50	18.51	43.30	18.91	43.30	19.30	42.50	19.01	41.11	18.24	38.31	16.73
	-11.8(10.8)	-13(8.6)	45.30	18.82	45.30	19.20	44.10	18.74	42.50	18.01	41.11	17.29	38.31	15.85
	-9.8(14.4)	-11(12.2)	47.49	19.13	46.89	19.11	44.10	17.70	42.50	17.02	41.11	16.33	38.31	15.00
	-9.5(14.9)	-10(14)	48.69	19.30	46.89	18.55	44.10	17.18	42.50	16.52	41.11	15.87	38.31	14.59
	-8.5(16.7)	-9.1(15.6)	49.69	19.40	46.89	18.05	44.10	16.73	42.50	16.08	41.11	15.46	38.31	14.22
	-7(19.4)	-7.6(18.3)	49.69	18.53	46.89	17.24	44.10	16.00	42.50	15.40	41.11	14.80	38.31	13.61
	-5(23)	-5.6(21.9)	49.69	17.41	46.89	16.23	44.10	15.07	42.50	14.49	41.11	17.11	38.31	12.85
	-3(26.6)	-3.7(25.3)	49.69	16.39	46.89	15.29	44.10	14.22	42.50	13.68	41.11	13.16	38.31	12.14
	0(32)	-0.7(30.7)	49.69	14.92	46.89	13.95	44.10	12.97	42.50	12.49	41.11	12.04	38.31	11.12
	3(37.4)	2.2(36)	49.69	13.63	46.89	12.76	44.10	11.89	42.50	11.45	41.11	11.04	38.31	10.21
	5(41)	4.1(39.4)	49.69	12.87	46.89	12.04	44.10	11.25	42.50	10.83	41.11	10.44	38.31	9.67
	7(44.6)	6(42.8)	49.69	12.16	46.89	11.39	44.10	10.63	42.50	10.25	41.11	9.90	38.31	9.17
9(48.2)	7.9(46.2)	49.69	11.50	46.89	10.77	44.10	10.07	42.50	9.71	41.11	9.38	38.31	8.70	
11(51.8)	9.8(49.6)	49.69	10.87	46.89	10.19	44.10	9.55	42.50	9.21	41.11	8.90	38.31	8.26	
13(55.4)	11.8(53.2)	49.69	10.27	46.89	9.65	44.10	9.03	42.50	8.74	41.11	8.43	38.31	7.84	
15(59)	13.7(56.7)	49.69	9.73	46.89	9.15	44.10	8.57	42.50	8.30	41.11	8.01	38.31	7.47	
60%	-19.8(-3.6)	-20(-4)	39.40	18.84	39.20	19.20	37.80	18.47	36.60	17.74	35.40	17.04	33.00	15.63
	-18.8(-1.8)	-19(-2.2)	40.00	18.97	40.00	19.32	37.80	18.07	36.60	17.37	35.40	16.66	33.00	15.29
	-16.7(1.9)	-17(1.4)	41.60	19.22	40.20	18.61	37.80	17.24	36.60	16.58	35.40	15.92	33.00	14.63
	-13.7(7.3)	-15(5)	42.60	19.01	40.20	17.68	37.80	16.39	36.60	15.77	35.40	15.15	33.00	13.92
	-11.8(10.8)	-13(8.6)	42.60	17.99	40.20	16.75	37.80	15.54	36.60	14.96	35.40	14.38	33.00	13.30
	-9.8(14.4)	-11(12.2)	42.60	17.00	40.20	15.83	37.80	14.71	36.60	14.15	35.40	13.61	33.00	12.55
	-9.5(14.9)	-10(14)	42.60	16.52	40.20	15.40	37.80	14.30	36.60	13.78	35.40	13.24	33.00	12.20
	-8.5(16.7)	-9.1(15.6)	42.60	16.08	40.20	15.00	37.80	13.95	36.60	13.43	35.40	12.91	33.00	11.91
	-7(19.4)	-7.6(18.3)	42.60	15.38	40.20	14.36	37.80	13.34	36.60	12.87	35.40	12.37	33.00	11.43
	-5(23)	-5.6(21.9)	42.60	14.48	40.20	13.53	37.80	12.60	36.60	12.14	35.40	11.68	33.00	10.81
	-3(26.6)	-3.7(25.3)	42.60	13.68	40.20	12.78	37.80	11.91	36.60	11.50	35.40	11.06	33.00	10.23
	0(32)	-0.7(30.7)	42.60	12.49	40.20	11.70	37.80	10.92	36.60	10.54	35.40	10.15	33.00	9.40
	3(37.4)	2.2(36)	42.60	11.46	40.20	10.75	37.80	10.04	36.60	9.69	35.40	9.36	33.00	8.67
	5(41)	4.1(39.4)	42.60	10.83	40.20	10.17	37.80	9.50	36.60	9.19	35.40	8.86	33.00	8.24
	7(44.6)	6(42.8)	42.60	10.25	40.20	9.63	37.80	9.01	36.60	8.72	35.40	8.43	33.00	7.82
9(48.2)	7.9(46.2)	42.60	9.71	40.20	9.13	37.80	8.55	36.60	8.28	35.40	7.99	33.00	7.45	
11(51.8)	9.8(49.6)	42.60	9.21	40.20	8.67	37.80	8.13	36.60	7.87	35.40	7.60	33.00	7.10	
13(55.4)	11.8(53.2)	42.60	8.72	40.20	8.22	37.80	7.72	36.60	7.47	35.40	7.22	33.00	6.74	
15(59)	13.7(56.7)	42.60	8.30	40.20	7.80	37.80	7.35	36.60	7.12	35.40	6.89	33.00	6.43	
50%	-19.8(-3.6)	-20(-4)	35.49	17.14	33.49	15.96	31.50	14.82	30.30	14.28	29.31	13.72	27.31	12.64
	-18.8(-1.8)	-19(-2.2)	35.49	16.77	33.49	15.63	31.50	14.53	30.30	13.97	29.31	13.43	27.31	12.39
	-16.7(1.9)	-17(1.4)	35.49	16.00	33.49	14.92	31.50	13.88	30.30	13.36	29.31	12.87	27.31	11.87
	-13.7(7.3)	-15(5)	35.49	15.23	33.49	14.21	31.50	13.22	30.30	12.74	29.31	12.26	27.31	11.33
	-11.8(10.8)	-13(8.6)	35.49	14.46	33.49	13.51	31.50	12.58	30.30	12.12	29.31	11.66	27.31	10.79
	-9.8(14.4)	-11(12.2)	35.49	13.70	33.49	12.80	31.50	11.93	30.30	11.50	29.31	11.08	27.31	10.25
	-9.5(14.9)	-10(14)	35.49	13.32	33.49	12.45	31.50	11.62	30.30	11.21	29.31	10.79	27.31	9.98
	-8.5(16.7)	-9.1(15.6)	35.49	12.99	33.49	12.16	31.50	11.33	30.30	10.94	29.31	10.54	27.31	9.75
	-7(19.4)	-7.6(18.3)	35.49	12.45	33.49	11.66	31.50	10.87	30.30	10.50	29.31	10.13	27.31	9.38
	-5(23)	-5.6(21.9)	35.49	11.75	33.49	11.02	31.50	10.29	30.30	9.94	29.31	9.59	27.31	8.88
	-3(26.6)	-3.7(25.3)	35.49	11.12	33.49	10.44	31.50	9.75	30.30	9.42	29.31	9.09	27.31	8.45
	0(32)	-0.7(30.7)	35.49	10.21	33.49	9.59	31.50	8.99	30.30	8.67	29.31	8.38	27.31	7.80
	3(37.4)	2.2(36)	35.49	9.40	33.49	8.84	31.50	8.28	30.30	8.01	29.31	7.74	27.31	7.22
	5(41)	4.1(39.4)	35.49	8.92	33.49	8.38	31.50	7.87	30.30	7.62	29.31	7.37	27.31	6.87
	7(44.6)	6(42.8)	35.49	8.47	33.49	7.97	31.50	7.49	30.30	7.24	29.31	7.01	27.31	6.56
9(48.2)	7.9(46.2)	35.49	8.03	33.49	7.57	31.50	7.12	30.30	6.91	29.31	6.68	27.31	6.25	
11(51.8)	9.8(49.6)	35.49	7.64	33.49	7.20	31.50	6.79	30.30	6.58	29.31	6.37	27.31	5.96	
13(55.4)	11.8(53.2)	35.49	7.26	33.49	6.85	31.50	6.45	30.30	6.27	29.31	6.06	27.31	5.69	
15(59)	13.7(56.7)	35.49	6.91	33.49	6.54	31.50	6.16	30.30	5.98	29.31	5.79	27.31	5.44	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X615W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	-19.8(-3.6)	-20(-4)	44.68	12.95	44.46	13.86	44.25	14.78	44.25	15.24	44.03	15.69	44.03	16.62
	-18.8(-1.8)	-19(-2.2)	45.35	13.24	45.12	14.14	45.12	15.04	44.90	15.50	44.90	15.92	44.68	16.83
	-16.7(1.9)	-17(1.4)	47.09	13.86	46.87	14.71	46.65	15.59	46.65	16.02	46.65	16.45	46.44	17.31
	-13.7(7.3)	-15(5)	49.06	14.50	48.85	15.33	48.63	16.16	48.63	16.57	48.41	17.00	48.41	17.83
	-11.8(10.8)	-13(8.6)	51.04	15.14	51.04	15.95	50.82	16.74	50.60	17.14	50.60	17.54	50.38	18.33
	-9.8(14.4)	-11(12.2)	53.45	15.81	53.23	16.57	53.01	17.33	53.01	17.71	53.01	18.09	52.79	18.85
	-9.5(14.9)	-10(14)	54.76	16.14	54.54	16.88	54.32	17.62	54.32	18.00	54.10	18.35	54.10	19.09
	-8.5(16.7)	-9.1(15.6)	55.85	16.43	55.64	17.14	55.64	17.88	55.42	18.23	55.42	18.59	55.20	19.33
	-7(19.4)	-7.6(18.3)	57.83	16.90	57.83	17.62	57.61	18.31	57.61	18.66	57.39	19.00	57.17	19.71
	-5(23)	-5.6(21.9)	60.89	17.54	60.67	18.21	60.45	18.88	60.45	19.21	60.24	19.52	60.24	20.19
	-3(26.6)	-3.7(25.3)	63.74	18.12	63.52	18.76	63.52	19.38	63.30	19.71	63.30	20.02	63.08	20.64
	0(32)	-0.7(30.7)	68.78	19.00	68.78	19.59	68.56	20.16	68.56	20.38	68.34	20.76	68.34	21.33
	3(37.4)	2.2(36)	74.25	19.78	74.04	20.33	73.82	20.88	73.82	21.14	73.82	21.43	73.60	21.95
	5(41)	4.1(39.4)	77.98	20.28	77.76	20.81	77.76	21.31	77.54	21.57	77.54	21.83	77.32	22.33
	7(44.6)	6(42.8)	81.92	20.76	81.70	21.23	81.70	21.73	81.48	21.97	81.48	22.21	78.20	21.33
	9(48.2)	7.9(46.2)	86.08	21.19	85.86	21.66	85.86	22.11	85.65	22.35	83.89	21.88	78.20	20.04
11(51.8)	9.8(49.6)	90.46	21.61	90.25	22.04	89.81	22.33	86.74	21.45	83.89	20.57	78.20	18.88	
13(55.4)	11.8(53.2)	95.28	22.02	95.06	22.45	89.81	20.93	86.74	20.09	83.89	19.31	78.20	17.71	
15(59)	13.7(56.7)	99.88	22.40	95.50	21.26	89.81	19.71	86.74	18.95	83.89	18.19	78.20	16.71	
120%	-19.8(-3.6)	-20(-4)	44.47	13.47	44.25	14.26	44.03	15.07	44.03	15.46	44.03	15.87	43.81	16.68
	-18.8(-1.8)	-19(-2.2)	45.13	13.72	44.91	14.51	44.91	15.30	44.69	15.69	44.69	16.09	44.47	16.88
	-16.7(1.9)	-17(1.4)	46.88	14.26	46.66	15.03	46.37	15.77	46.44	16.16	46.44	16.54	46.22	17.29
	-13.7(7.3)	-15(5)	48.85	14.83	48.63	15.55	48.41	16.27	48.41	16.66	48.41	17.02	48.19	17.74
	-11.8(10.8)	-13(8.6)	50.82	15.39	50.82	16.09	50.60	16.79	50.60	17.15	50.38	17.49	50.38	18.19
	-9.8(14.4)	-11(12.2)	53.23	15.98	53.01	16.63	53.01	17.31	52.79	17.65	52.79	17.97	52.58	18.65
	-9.5(14.9)	-10(14)	54.55	16.27	54.33	16.93	54.11	17.56	54.11	17.90	54.11	18.22	53.89	18.87
	-8.5(16.7)	-9.1(15.6)	55.64	16.52	55.42	17.15	55.42	17.79	55.20	18.10	55.20	18.44	54.98	19.07
	-7(19.4)	-7.6(18.3)	57.61	16.95	57.61	17.56	57.39	18.17	57.39	18.49	57.17	18.78	57.17	19.39
	-5(23)	-5.6(21.9)	60.68	17.49	60.46	18.08	60.24	18.67	60.24	18.96	60.24	19.26	60.02	19.82
	-3(26.6)	-3.7(25.3)	63.53	18.01	63.53	18.58	63.31	19.12	63.31	19.39	63.09	19.69	63.09	20.23
	0(32)	-0.7(30.7)	68.56	18.78	68.56	19.30	68.34	19.80	68.34	20.07	68.12	20.32	68.12	20.84
	3(37.4)	2.2(36)	74.04	19.48	73.82	19.96	73.82	20.43	73.60	20.68	73.60	20.91	72.07	20.79
	5(41)	4.1(39.4)	77.76	19.91	77.54	20.36	77.54	20.81	77.32	21.04	77.32	21.27	72.07	19.53
	7(44.6)	6(42.8)	81.71	20.32	81.71	20.75	81.49	21.18	80.18	20.88	77.54	20.02	72.07	18.37
	9(48.2)	7.9(46.2)	85.87	20.73	85.65	21.13	82.80	20.43	80.18	19.62	77.54	18.83	72.07	17.29
11(51.8)	9.8(49.6)	90.25	21.09	88.06	20.73	82.80	19.21	80.18	18.46	77.54	17.72	72.07	16.30	
13(55.4)	11.8(53.2)	93.53	20.88	88.06	19.44	82.80	18.01	80.18	17.34	77.54	16.66	72.07	15.32	
15(59)	13.7(56.7)	93.53	19.66	88.06	18.31	82.80	17.00	80.18	16.34	77.54	15.71	72.07	14.46	
110%	-19.8(-3.6)	-20(-4)	44.25	15.03	44.03	15.77	43.81	16.54	43.81	16.91	43.83	17.28	43.59	18.05
	-18.8(-1.8)	-19(-2.2)	44.91	15.26	44.69	16.00	44.69	16.75	44.69	17.12	44.47	17.49	44.47	18.23
	-16.7(1.9)	-17(1.4)	46.66	15.77	46.44	16.49	47.09	17.21	46.22	17.56	46.22	17.93	46.00	18.63
	-13.7(7.3)	-15(5)	48.63	16.31	48.42	17.00	48.19	17.67	48.19	18.02	48.19	18.37	47.97	19.04
	-11.8(10.8)	-13(8.6)	50.60	16.86	50.60	17.51	50.38	18.16	50.38	18.49	50.16	18.81	50.16	19.48
	-9.8(14.4)	-11(12.2)	53.01	17.40	52.79	18.02	52.79	18.65	52.57	18.97	52.57	19.28	52.57	19.90
	-9.5(14.9)	-10(14)	54.32	17.67	54.10	18.28	53.88	18.90	53.88	19.21	53.88	19.51	53.67	20.11
	-8.5(16.7)	-9.1(15.6)	55.42	17.91	55.20	18.51	55.20	19.11	54.98	19.42	54.98	19.72	54.98	17.98
	-7(19.4)	-7.6(18.3)	57.39	18.33	57.39	18.88	57.18	19.46	57.18	19.76	57.18	20.04	56.95	20.62
	-5(23)	-5.6(21.9)	60.46	18.83	60.24	19.39	60.02	19.92	60.02	20.20	60.02	20.48	59.80	21.04
	-3(26.6)	-3.7(25.3)	63.31	19.32	63.31	19.83	63.09	20.37	63.09	20.62	62.87	20.88	62.87	21.41
	0(32)	-0.7(30.7)	68.34	20.04	68.34	20.53	68.13	21.01	68.13	21.25	68.13	21.50	66.15	21.08
	3(37.4)	2.2(36)	73.82	20.71	73.60	21.15	73.60	21.59	73.38	21.80	70.97	20.92	66.15	19.18
	5(41)	4.1(39.4)	77.55	21.11	77.55	21.55	76.01	21.34	73.38	20.48	70.97	19.67	66.15	18.05
	7(44.6)	6(42.8)	81.48	21.50	80.83	21.64	76.01	20.04	73.38	19.25	70.97	18.49	66.15	16.98
	9(48.2)	7.9(46.2)	85.65	21.85	80.83	20.34	76.01	18.86	73.38	18.11	70.97	17.40	66.15	16.00
11(51.8)	9.8(49.6)	85.65	20.55	80.83	19.14	76.01	17.74	73.38	17.07	70.97	16.40	66.15	15.10	
13(55.4)	11.8(53.2)	85.65	19.28	80.83	17.95	76.01	16.68	73.38	16.05	70.97	15.43	66.15	14.22	
15(59)	13.7(56.7)	85.65	17.12	80.83	16.93	76.01	15.75	73.38	15.15	70.97	14.59	66.15	13.45	

Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X615W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100%	-19.8(-3.6)	-20(-4)	44.03	16.24	43.81	16.91	43.81	17.60	43.59	17.95	43.59	18.28	43.37	18.97
	-18.8(-1.8)	-19(-2.2)	44.68	16.45	44.68	17.12	44.46	17.79	44.46	18.14	44.25	18.49	44.25	19.16
	-16.7(1.9)	-17(1.4)	46.44	16.91	46.22	17.56	46.22	18.21	46.00	18.53	46.00	18.86	46.00	19.51
	-13.7(7.3)	-15(5)	48.41	17.40	48.19	18.02	47.97	18.65	47.97	18.97	47.97	19.27	47.75	19.90
	-11.8(10.8)	-13(8.6)	50.38	17.91	50.38	18.49	50.16	19.09	50.16	19.39	50.16	19.69	49.94	20.30
	-9.8(14.4)	-11(12.2)	52.79	18.39	52.57	18.97	52.57	19.53	52.57	19.83	52.35	20.11	52.35	20.67
	-9.5(14.9)	-10(14)	54.10	18.65	53.89	19.20	53.89	19.76	53.67	20.04	53.67	20.32	53.45	20.87
	-8.5(16.7)	-9.1(15.6)	55.20	18.86	54.98	19.41	54.98	19.95	54.98	20.23	54.77	20.51	54.77	21.04
	-7(19.4)	-7.6(18.3)	57.17	19.23	57.17	19.76	56.95	20.27	56.95	20.55	56.95	20.81	56.73	21.34
	-5(23)	-5.6(21.9)	60.24	19.72	60.02	20.20	60.02	20.71	59.80	20.94	59.80	21.20	59.58	21.71
	-3(26.6)	-3.7(25.3)	63.09	20.16	63.09	18.30	62.87	21.11	62.87	21.34	62.87	21.57	60.24	20.67
	0(32)	-0.7(30.7)	68.12	20.81	68.12	21.25	67.90	21.69	66.81	21.34	64.62	20.46	60.24	18.76
	3(37.4)	2.2(36)	73.60	21.41	73.38	21.80	69.00	20.18	66.81	19.39	64.62	18.63	60.24	17.09
	5(41)	4.1(39.4)	77.32	21.80	73.38	20.48	69.00	18.97	66.81	18.25	64.62	17.53	60.24	16.12
	7(44.6)	6(42.8)	77.76	20.69	73.38	19.25	69.00	17.86	66.81	17.19	64.62	16.52	60.24	15.19
	9(48.2)	7.9(46.2)	77.76	19.44	73.38	18.12	69.00	16.82	66.81	15.98	64.62	15.56	60.24	14.33
11(51.8)	9.8(49.6)	77.76	18.30	73.38	17.07	69.00	15.87	66.81	15.26	64.62	14.68	60.24	13.55	
13(55.4)	11.8(53.2)	77.76	17.19	73.38	16.05	69.00	14.94	66.81	14.38	64.62	13.85	60.24	12.78	
15(59)	13.7(56.7)	77.76	16.21	73.38	15.15	69.00	14.10	66.81	13.59	64.62	13.08	60.24	12.11	
90%	-19.8(-3.6)	-20(-4)	43.73	17.44	43.51	18.04	43.51	18.67	43.30	18.97	43.30	19.30	43.30	19.90
	-18.8(-1.8)	-19(-2.2)	44.39	17.63	44.39	18.25	44.17	18.86	44.17	19.16	44.17	19.46	43.95	20.06
	-16.7(1.9)	-17(1.4)	46.14	18.07	45.92	18.65	45.92	19.23	45.92	19.53	45.70	19.81	45.70	20.39
	-13.7(7.3)	-15(5)	48.10	18.51	47.89	19.07	47.89	19.62	47.67	19.90	47.67	20.18	47.67	20.74
	-11.8(10.8)	-13(8.6)	50.07	18.95	50.07	19.48	49.85	20.02	49.85	20.30	49.85	20.55	49.64	21.08
	-9.8(14.4)	-11(12.2)	52.48	19.39	52.48	19.90	52.26	20.41	52.26	20.67	52.26	20.94	52.04	21.45
	-9.5(14.9)	-10(14)	53.79	19.62	53.57	20.13	53.57	20.62	53.36	20.87	53.36	21.13	53.36	21.62
	-8.5(16.7)	-9.1(15.6)	54.88	19.83	54.88	20.32	54.67	20.81	54.67	21.04	54.67	21.29	54.01	21.50
	-7(19.4)	-7.6(18.3)	56.85	20.16	56.85	20.62	56.64	21.11	56.64	21.34	56.64	21.57	54.01	20.53
	-5(23)	-5.6(21.9)	59.91	20.60	59.70	21.04	59.70	21.48	59.47	21.71	57.95	21.04	54.01	19.30
	-3(26.6)	-3.7(25.3)	62.76	20.99	62.76	21.41	62.10	21.50	59.91	20.64	57.95	19.81	54.01	18.18
	0(32)	-0.7(30.7)	68.01	21.59	66.04	21.06	62.10	19.51	59.91	18.74	57.95	18.00	54.01	16.54
	3(37.4)	2.2(36)	69.97	20.57	66.04	19.16	62.10	17.77	59.91	17.09	57.95	16.42	54.01	15.12
	5(41)	4.1(39.4)	69.97	19.34	66.04	18.02	62.10	16.75	59.91	16.10	57.95	15.49	54.01	14.26
	7(44.6)	6(42.8)	69.97	18.18	66.04	16.98	62.10	15.77	59.91	15.19	57.95	14.61	54.01	13.48
	9(48.2)	7.9(46.2)	69.97	17.14	66.04	15.98	62.10	14.87	59.91	14.33	57.95	13.80	54.01	12.73
11(51.8)	9.8(49.6)	69.97	16.14	66.04	15.08	62.10	14.06	59.91	13.55	57.95	13.04	54.01	12.06	
13(55.4)	11.8(53.2)	69.97	15.19	66.04	14.22	62.10	13.24	59.91	12.78	57.95	12.32	54.01	11.39	
15(59)	13.7(56.7)	69.97	14.36	66.04	13.43	62.10	12.55	59.91	12.11	57.95	11.67	54.01	10.81	
80%	-19.8(-3.6)	-20(-4)	43.59	18.65	43.37	19.18	43.37	19.74	43.37	20.02	43.15	20.30	43.15	20.83
	-18.8(-1.8)	-19(-2.2)	44.25	18.81	44.25	19.37	44.03	19.90	44.03	20.18	44.03	20.43	43.81	20.99
	-16.7(1.9)	-17(1.4)	46.00	19.20	45.78	19.72	45.78	20.25	45.78	20.50	45.78	20.76	45.56	21.27
	-13.7(7.3)	-15(5)	47.97	19.60	47.75	20.09	47.75	20.60	47.75	20.83	47.53	21.08	47.53	21.59
	-11.8(10.8)	-13(8.6)	49.94	19.99	49.94	20.48	49.72	20.94	49.72	21.18	49.72	21.43	48.19	20.85
	-9.8(14.4)	-11(12.2)	52.35	20.39	52.35	20.85	52.13	21.31	52.13	21.52	51.69	21.48	48.19	19.69
	-9.5(14.9)	-10(14)	53.67	20.60	53.44	21.04	53.45	21.48	53.45	21.71	51.69	20.85	48.19	19.11
	-8.5(16.7)	-9.1(15.6)	54.76	20.78	50.90	21.22	54.54	21.64	53.45	21.15	51.69	20.30	48.19	18.60
	-7(19.4)	-7.6(18.3)	56.73	21.08	56.73	21.50	55.20	21.04	53.45	20.20	51.69	19.39	48.19	17.79
	-5(23)	-5.6(21.9)	59.80	21.45	58.71	21.34	55.20	19.76	53.45	19.00	51.69	18.23	48.19	16.75
	-3(26.6)	-3.7(25.3)	62.21	21.57	58.71	20.09	55.20	18.60	53.45	17.91	51.69	17.19	48.19	15.82
	0(32)	-0.7(30.7)	62.21	19.58	58.71	18.23	55.20	16.93	53.45	16.31	51.69	15.66	48.19	14.43
	3(37.4)	2.2(36)	62.21	17.84	58.71	16.63	55.20	15.47	53.45	14.89	51.69	14.33	48.19	13.22
	5(41)	4.1(39.4)	62.21	16.79	58.71	15.68	55.20	14.59	53.45	14.06	51.69	13.55	48.19	12.50
	7(44.6)	6(42.8)	62.21	15.82	58.71	14.80	55.20	13.78	53.45	13.29	51.69	12.80	48.19	11.83
	9(48.2)	7.9(46.2)	62.21	14.94	58.71	13.96	55.20	13.01	53.45	12.55	51.69	12.11	48.19	11.20
11(51.8)	9.8(49.6)	62.21	14.10	58.71	13.20	55.20	12.32	53.45	11.88	51.69	11.46	48.19	10.62	
13(55.4)	11.8(53.2)	62.21	13.29	58.71	12.45	55.20	11.64	53.45	11.23	51.69	10.83	48.19	10.04	
15(59)	13.7(56.7)	62.21	12.57	58.71	11.81	55.20	11.04	53.45	10.65	51.69	10.28	48.19	9.56	

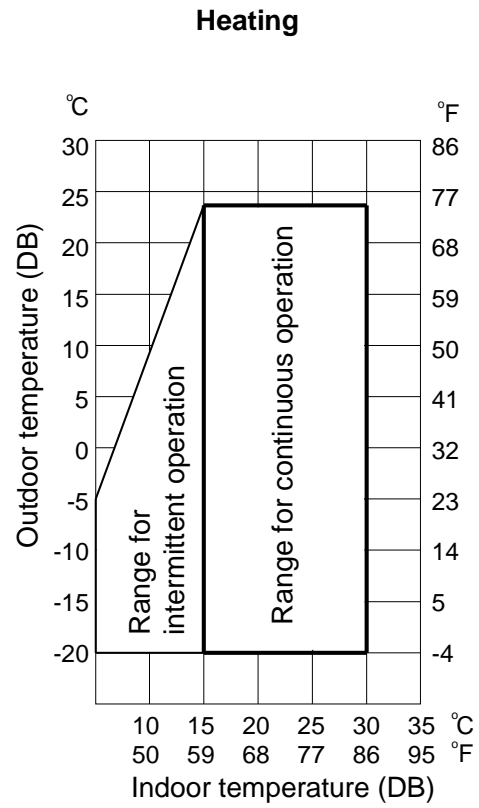
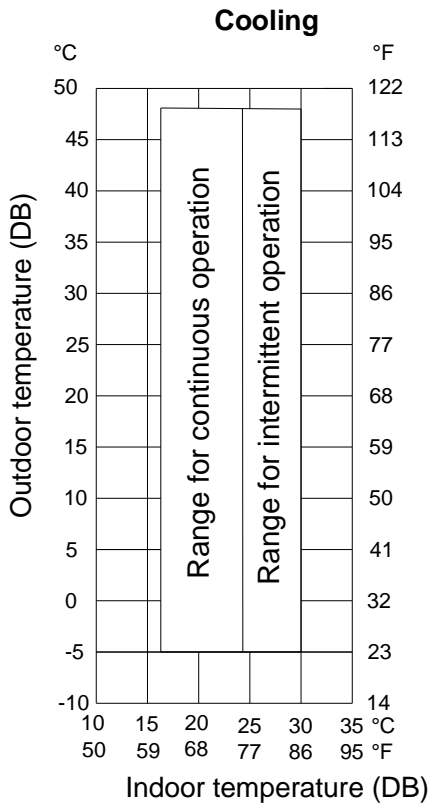
Heating capacity table

TC: Total Capacity (kW); PI: Power Input (kW) (Compressor + Outdoor fan motor)

MV5-X615W/V2GN1

Combination (%)	Outdoor temperature		Indoor temperature(°C(°F) DB)											
			16(60.8)		18(64.4)		20(68)		21(69.8)		22(71.6)		24(75.2)	
	°C(°F) DB	°C(°F) WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70%	-19.8(-3.6)	-20(-4)	43.27	19.85	43.05	20.32	43.05	20.81	43.05	21.04	43.05	21.29	41.96	21.06
	-18.8(-1.8)	-19(-2.2)	43.93	20.02	43.93	20.48	43.71	20.94	43.71	21.18	43.71	21.43	41.96	20.62
	-16.7(1.9)	-17(1.4)	45.68	20.34	45.68	20.81	45.46	21.25	45.46	21.48	45.02	19.13	41.96	19.67
	-13.7(7.3)	-15(5)	47.64	20.69	47.43	21.13	47.43	21.57	46.55	21.25	45.02	20.39	41.96	18.69
	-11.8(10.8)	-13(8.6)	49.61	21.04	49.61	21.45	48.30	20.94	46.55	20.13	45.02	19.32	41.96	17.72
	-9.8(14.4)	-11(12.2)	52.01	21.38	51.36	21.36	48.30	19.78	46.55	19.02	45.02	18.25	41.96	16.77
	-9.5(14.9)	-10(14)	53.33	21.57	51.36	20.74	48.30	19.20	46.55	18.46	45.02	17.74	41.96	16.30
	-8.5(16.7)	-9.1(15.6)	54.42	21.69	51.36	20.18	48.30	18.69	46.55	17.98	45.02	17.28	41.96	15.89
	-7(19.4)	-7.6(18.3)	54.42	20.71	51.36	19.27	48.30	17.88	46.55	17.21	45.02	16.54	41.96	15.22
	-5(23)	-5.6(21.9)	54.42	19.46	51.36	18.14	48.30	16.84	46.55	16.19	45.02	19.12	41.96	14.36
	-3(26.6)	-3.7(25.3)	54.42	18.32	51.36	17.09	48.30	15.89	46.55	15.28	45.02	14.70	41.96	13.57
	0(32)	-0.7(30.7)	54.42	16.68	51.36	15.59	48.30	14.50	46.55	13.96	45.02	13.45	41.96	12.43
	3(37.4)	2.2(36)	54.42	15.24	51.36	14.26	48.30	13.29	46.55	12.80	45.02	12.34	41.96	11.41
	5(41)	4.1(39.4)	54.42	14.38	51.36	13.45	48.30	12.57	46.55	12.11	45.02	11.67	41.96	10.81
	7(44.6)	6(42.8)	54.42	13.59	51.36	12.73	48.30	11.88	46.55	11.46	45.02	11.06	41.96	10.25
	9(48.2)	7.9(46.2)	54.42	12.85	51.36	12.04	48.30	11.25	46.55	10.86	45.02	10.48	41.96	9.72
11(51.8)	9.8(49.6)	54.42	12.15	51.36	11.39	48.30	10.67	46.55	10.30	45.02	9.95	41.96	9.23	
13(55.4)	11.8(53.2)	54.42	11.48	51.36	10.78	48.30	10.09	46.55	9.76	45.02	9.42	41.96	8.77	
15(59)	13.7(56.7)	54.42	10.88	51.36	10.23	48.30	9.58	46.55	9.28	45.02	8.95	41.96	8.35	
60%	-19.8(-3.6)	-20(-4)	43.15	21.06	42.93	21.45	41.40	20.64	40.09	19.83	38.77	19.04	36.14	17.46
	-18.8(-1.8)	-19(-2.2)	43.81	21.20	43.81	21.59	41.40	20.20	40.09	19.41	38.77	18.62	36.14	17.09
	-16.7(1.9)	-17(1.4)	45.56	21.48	44.03	20.80	41.40	19.27	40.09	18.53	38.77	17.79	36.14	16.35
	-13.7(7.3)	-15(5)	46.66	21.25	44.03	19.76	41.40	18.32	40.09	17.63	38.77	16.93	36.14	15.56
	-11.8(10.8)	-13(8.6)	46.66	20.11	44.03	18.72	41.40	17.37	40.09	16.72	38.77	16.07	36.14	14.87
	-9.8(14.4)	-11(12.2)	46.66	19.00	44.03	17.70	41.40	16.44	40.09	15.82	38.77	15.21	36.14	14.03
	-9.5(14.9)	-10(14)	46.66	18.46	44.03	17.21	41.40	15.98	40.09	15.40	38.77	14.80	36.14	13.64
	-8.5(16.7)	-9.1(15.6)	46.66	17.97	44.03	16.77	41.40	15.59	40.09	15.01	38.77	14.43	36.14	13.31
	-7(19.4)	-7.6(18.3)	46.66	17.19	44.03	16.05	41.40	14.91	40.09	14.38	38.77	13.82	36.14	12.78
	-5(23)	-5.6(21.9)	46.66	16.19	44.03	15.12	41.40	14.08	40.09	13.57	38.77	13.06	36.14	12.08
	-3(26.6)	-3.7(25.3)	46.66	15.28	44.03	14.29	41.40	13.31	40.09	12.85	38.77	12.36	36.14	11.43
	0(32)	-0.7(30.7)	46.66	13.96	44.03	13.08	41.40	12.20	40.09	11.78	38.77	11.34	36.14	10.51
	3(37.4)	2.2(36)	46.66	12.80	44.03	12.01	41.40	11.23	40.09	10.83	38.77	10.46	36.14	9.69
	5(41)	4.1(39.4)	46.66	12.11	44.03	11.36	41.40	10.62	40.09	10.27	38.77	9.90	36.14	9.21
	7(44.6)	6(42.8)	46.66	11.46	44.03	10.76	41.40	10.07	40.09	9.74	38.77	9.42	36.14	8.74
	9(48.2)	7.9(46.2)	46.66	10.85	44.03	10.20	41.40	9.56	40.09	9.25	38.77	8.93	36.14	8.33
11(51.8)	9.8(49.6)	46.66	10.30	44.03	9.69	41.40	9.09	40.09	8.79	38.77	8.49	36.14	7.93	
13(55.4)	11.8(53.2)	46.66	9.74	44.03	9.18	41.40	8.63	40.09	8.35	38.77	8.07	36.14	7.54	
15(59)	13.7(56.7)	46.66	9.28	44.03	8.72	41.40	8.21	40.09	7.96	38.77	7.70	36.14	7.19	
50%	-19.8(-3.6)	-20(-4)	38.87	19.16	36.68	17.84	34.50	16.56	33.19	15.96	32.10	15.33	29.91	14.12
	-18.8(-1.8)	-19(-2.2)	38.87	18.74	36.68	17.46	34.50	16.24	33.19	15.61	32.10	15.01	29.91	13.85
	-16.7(1.9)	-17(1.4)	38.87	17.88	36.68	16.68	34.50	15.52	33.19	14.94	32.10	14.38	29.91	13.27
	-13.7(7.3)	-15(5)	38.87	17.02	36.68	15.89	34.50	14.77	33.19	14.24	32.10	13.71	29.91	12.66
	-11.8(10.8)	-13(8.6)	38.87	16.17	36.68	15.10	34.50	14.06	33.19	13.54	32.10	13.03	29.91	12.06
	-9.8(14.4)	-11(12.2)	38.87	15.31	36.68	14.31	34.50	13.34	33.19	12.85	32.10	12.38	29.91	11.46
	-9.5(14.9)	-10(14)	38.87	14.89	36.68	13.92	34.50	12.99	33.19	12.52	32.10	12.06	29.91	11.16
	-8.5(16.7)	-9.1(15.6)	38.87	14.52	36.68	13.59	34.50	12.66	33.19	12.22	32.10	11.78	29.91	10.90
	-7(19.4)	-7.6(18.3)	38.87	13.92	36.68	13.03	34.50	12.15	33.19	11.74	32.10	11.32	29.91	10.48
	-5(23)	-5.6(21.9)	38.87	13.13	36.68	12.32	34.50	11.50	33.19	11.11	32.10	10.72	29.91	9.93
	-3(26.6)	-3.7(25.3)	38.87	12.43	36.68	11.67	34.50	10.90	33.19	10.53	32.10	10.16	29.91	9.44
	0(32)	-0.7(30.7)	38.87	11.41	36.68	10.72	34.50	10.04	33.19	9.69	32.10	9.37	29.91	8.72
	3(37.4)	2.2(36)	38.87	10.51	36.68	9.88	34.50	9.25	33.19	8.95	32.10	8.65	29.91	8.07
	5(41)	4.1(39.4)	38.87	9.97	36.68	9.37	34.50	8.79	33.19	8.51	32.10	8.23	29.91	7.68
	7(44.6)	6(42.8)	38.87	9.46	36.68	8.91	34.50	8.37	33.19	8.09	32.10	7.84	29.91	7.33
	9(48.2)	7.9(46.2)	38.87	8.98	36.68	8.47	34.50	7.95	33.19	7.72	32.10	7.47	29.91	6.98
11(51.8)	9.8(49.6)	38.87	8.54	36.68	8.05	34.50	7.58	33.19	7.35	32.10	7.12	29.91	6.66	
13(55.4)	11.8(53.2)	38.87	8.12	36.68	7.65	34.50	7.21	33.19	7.00	32.10	6.77	29.91	6.35	
15(59)	13.7(56.7)	38.87	7.72	36.68	7.31	34.50	6.89	33.19	6.68	32.10	6.47	29.91	6.08	

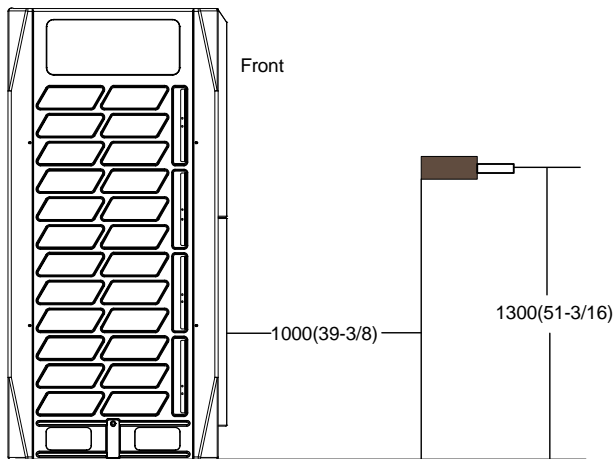
8. Operation limits



Note:

1. These figures assume the following operating conditions:
Equivalent piping length: 295-1/4inch (7.5m)
Level difference: 0
2. If the system is running in cooling mode, when the ambient temperature is lower than -5°C (23°F) or higher than 48 °C(118.4 °F), the unit will stop for protection control.

9. Sound levels



Notes:





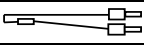
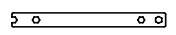
- Data is valid at free field condition
- Data is valid at nominal operating condition
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed
- Sound level can be increased in static pressure mode or used air guide.

unit: mm(in.)

Model	Sound pressure level d(B)A
MV5-X252W/V2GN1	58
MV5-X280W/V2GN1	59
MV5-X335W/V2GN1	60
MV5-X400W/V2GN1	62
MV5-X450W/V2GN1	62
MV5-X500W/V2GN1	63
MV5-X560W/V2GN1	63
MV5-X615W/V2GN1	63

10. Accessories

10.1 Standard accessories

Name	Shape	Quantity	Function
Installation manual of outdoor unit		1	/
Operation manual of outdoor unit		1	/
Operation manual of indoor unit		2	/
Toggling flathead screw	-	1	For toggling of indoor and outdoor units
90° mouting elbow		1	For connecting pipes
Seal plug		8	Be used in cleaning pipe
Connection pipe		3	For connecting pipes
Matched resistance		2	Enhance stability of communication
Wrench		1	Dismantle screws of side plate
Accessory bag	-	1	/

10.2 Optional accessories

Branch joint of outdoor & indoor unit

Optional accessories	Model name	Packing Size in.(mm)	Net/gross Weight (lbs.(kg))	Function
Branch joint of outdoor side	FQZHW-02N1D	10-1/16x6x7-5/16 (255x150x185)	3.3/2.6 (1.5/1.2)	Distribute the refrigerant to indoor units and balance the resistance between each outdoor unit.
	FQZHW-03N1D	13-9/16x6-5/16x11-1/4 (345x160x285)	7.5/5.3 (3.4/2.4)	
	FQZHW-04N1D	18-11/16x6-1/2x11-7/8 (475x165x300)	10.6/7.9 (4.8/3.6)	
Branch joint of indoor side	FQZHN-01D	11-7/16x4-1/8x4 (290x105x100)	0.9/0.7 (0.4/0.3)	
	FQZHN-02D	11-7/16x4-1/8x4 (290x105x100)	1.3/0.9 (0.6/0.4)	
	FQZHN-03D	12-3/16x5-1/8x5 (310x130x125)	2.0/1.3 (0.9/0.6)	
	FQZHN-04D	13-3/4x6-5/8x7-1/8 (350x170x180)	3.3/2.4 (1.5/1.1)	
	FQZHN-05D	14-3/8x7-11/16x8-1/2 (365x195x215)	4.2/3.1 (1.9/1.4)	

Other optional accessories

Optional accessories	Model name	Function
Outdoor controller	MD-CCM02/E	Monitor the outdoor operating parameter
Three phase electricity power protector	DPA51CM44 or HWUA/DPB71CM48	To stop the air-conditioner running in case of bad power supply such as Phase Error, Over-voltage, Under-voltage lose, phase lost and phase sequence inverse. Thus to protect the equipment.
Digital ammeter (WHM)	DTS634/DT636	Electricity Charge monitor

Part 4 Outdoor Unit Installation

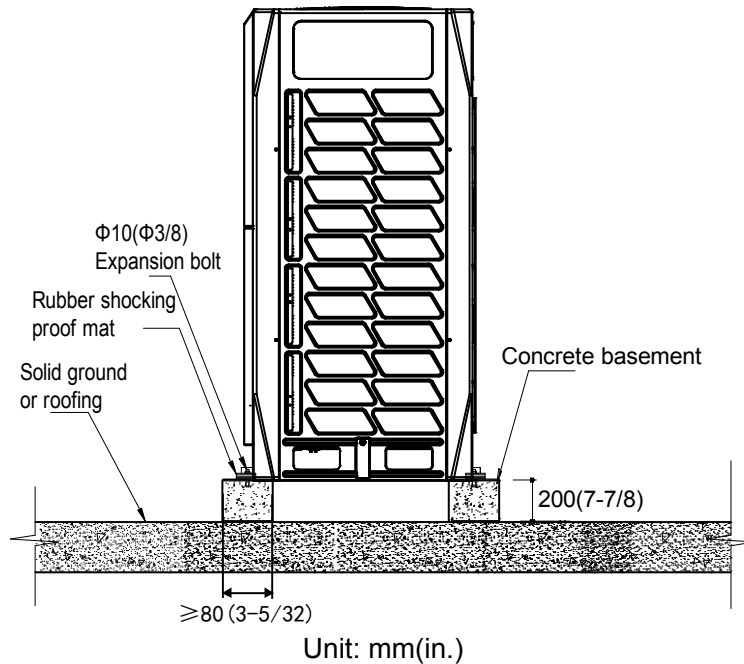
1. Select installation position	124
2. Foundation for installation	124
3. Master and slave unit setting	125
4. Installation space	125
5. Air ventilation assembly installation	128
6. Refrigerant piping installation	131
6.1 Refrigerant piping length permitted value	131
6.2 Refrigerant piping selection	132
6.3 Example	134
6.4 Piping connection between outdoor units	137
6.5 Branch pipe installation	137
7. Caution for brazing	138
8. Remove dirt or water in the piping	139
9. Gas tightness test	139
10. Vacuum	139
11. Additional refrigerant charge	140
12. Electric wiring installation	141
12.1 Wiring terminals instruction	141
12.2 Electric characteristics	141
12.3 Electric wiring installation	142
12.4 Control system installation	143
12.5 Dial switch setting	145
13. Running test	147
13.1 Inspection and confirmation before commissioning	147
13.2 Preparation before debugging	147
13.3 Fill the name of connected system	148
13.4 Caution on refrigerant leakage	148

1. Select installation position

- ◆ Ensure that the outdoor unit is installed in a dry, well-ventilated place.
- ◆ Ensure that the noise and exhaust ventilation of the outdoor unit do not affect the neighbors of the property owner or the surrounding ventilation.
- ◆ Ensure that the outdoor unit is installed in a well-ventilated place that is possibly closest to the indoor unit.
- ◆ Ensure that the outdoor unit is installed in a cool place without direct sunshine exposure or direct radiation of high-temp heat source.
- ◆ Do not install the outdoor unit in a dirty or severely polluted place, so as to avoid blockage of the heat exchanger in the outdoor unit.
- ◆ Do not install the outdoor unit in a place with oil pollution or full of harmful gas such as sulfurous gas.
- ◆ Do not install the outdoor unit in a place surrounded by salty air. (Except for the models with corrosion-resistant function)

2. Foundation for installation

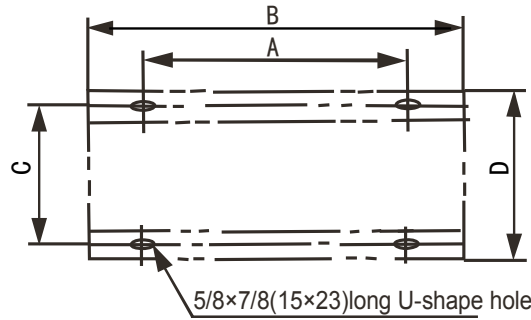
- ◆ A solid, correct base can: Avoid the outdoor unit from sinking and avoid the abnormal noise generated due to base.
- ◆ Base types: Steel structure base or concrete base (See the figure below for the general making method)



Note: The key points to make basement:

- The master unit's basement must be made on the solid concrete ground . Refer to the structure diagram to make concrete basement in detail, or make after field measurements.
- In order to ensure every point can contact equality, the basement should be on completely level.
- If the basement is placed on the roofing, the detritus layer isn't needed, but the concrete surface must be flat. The standard concrete mixture ratio is cement 1/ sand 2/ carpolite 4, and adds Φ3/8inch(10mm) strengthen reinforcing steel bar, the surface of the cement and sand plasm must be flat, border of the basement must be chamfer angle.
- Before construct the unit base, please ensure the base is directly supporting the rear and front folding edges of the bottom panel vertically, for the reason of these edges are the actual supported sites to the unit.
- In order to drain off the seeper around the equipment, a discharge ditch must be setup around the basement.
- Please check the affordability of the roofing to ensure the load capacity.
- When piping from the bottom of the unit, the base height should be no less than 7-7/8inch(200mm).

- ◆ Position illustration of screw bolt (Unit: in.(mm))



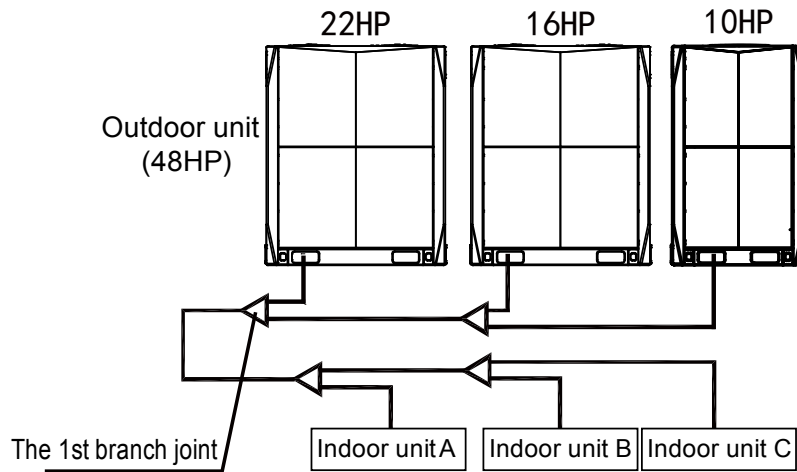
Size (in.(mm))	8, 10, 12HP	14, 16, 18, 20, 22HP
A	740(29-1/8)	1090(42-7/8)
B	990(39)	1340(52-3/4)
C	723(28-1/2)	723(28-1/2)
D	790(31-1/8)	790(31-1/8)

3. Master and slave unit setting

When the quantity of outdoor unit is more than two in one system, the outdoor unit should be placed from large capacity unit to small capacity unit. The largest capacity unit must be placed at the first branch site, and be set as master unit, while the other are set as slave units.

Take 48HP (composed by 10HP, 16HP and 22HP) as an example:

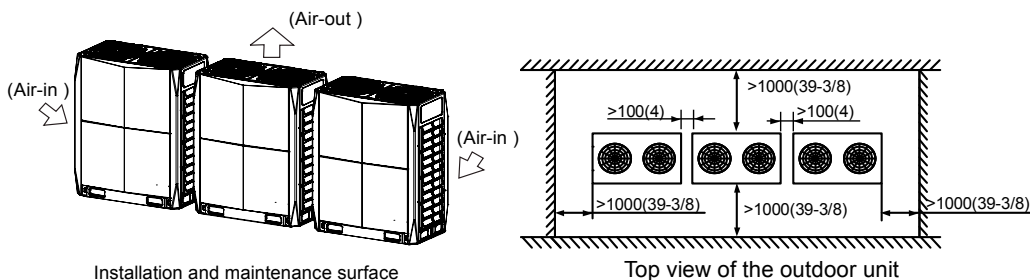
- 1) Place the 22HP at a side of the first branch site.
- 2) Place the unit from the large capacity to small (See the detail placement illustration)
- 3) Set 22HP as the master unit, while the 16HP and the 10HP as slave units.



4. Installation space

- ◆ Ensure enough space for maintenance. The modules in the same system must be on the same height.
- ◆ When installing the unit, leave enough space for maintenance.

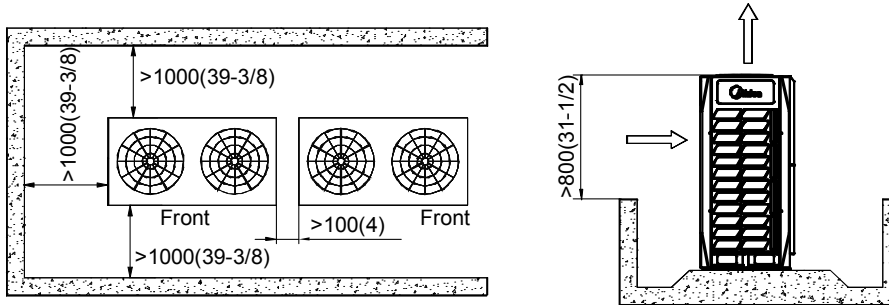
Unit: mm(in.)



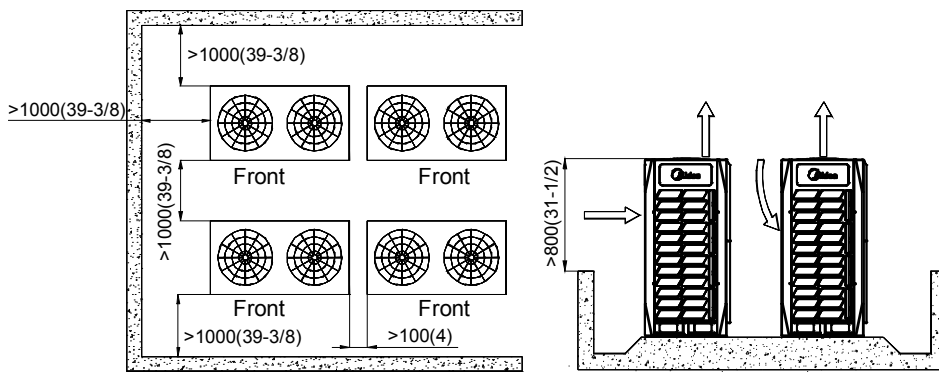
- When the outdoor unit is higher than the surrounding obstacle

Unit: mm(in.)

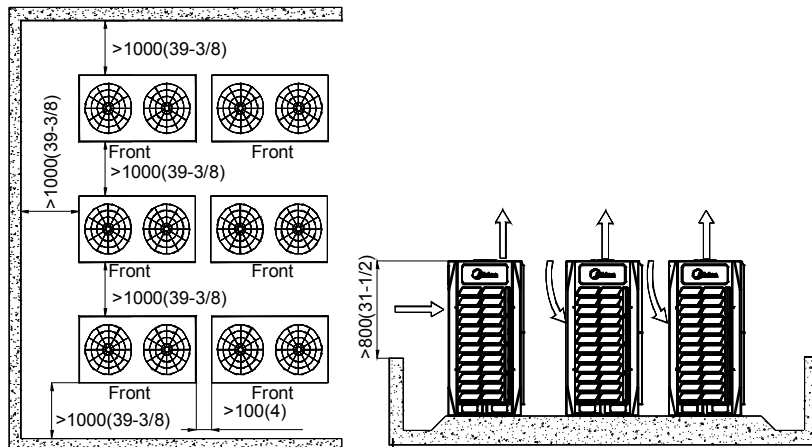
One row



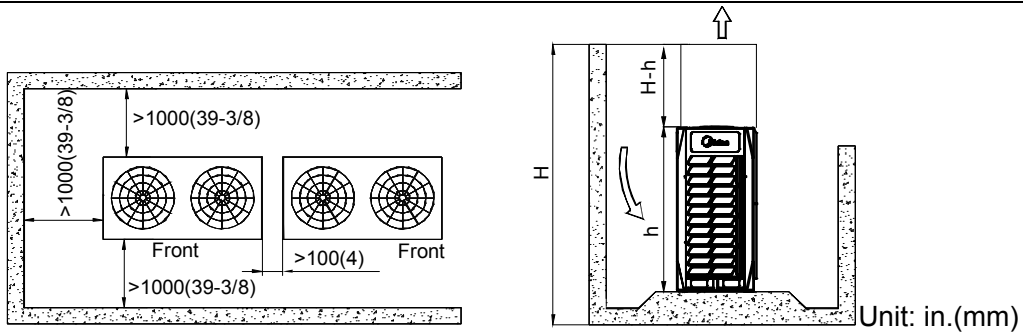
Two rows



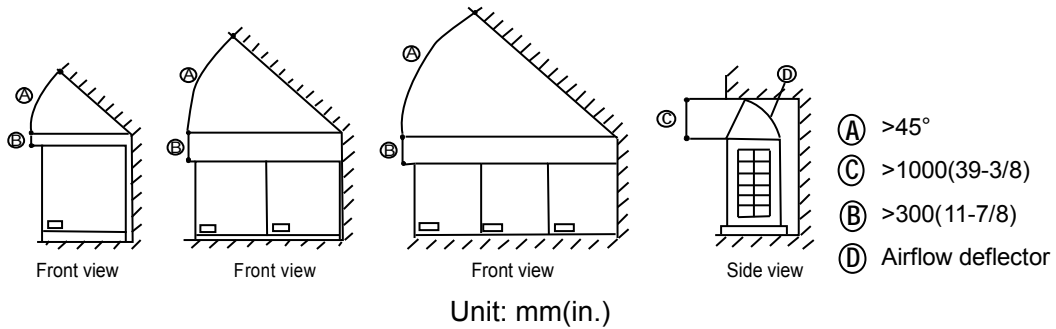
More than two rows



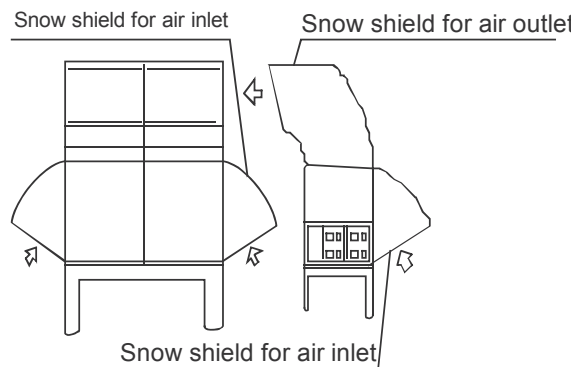
- When the outdoor unit is lower than the surrounding obstacle, to avoid cross connection of the outdoor hot air from affecting the heat exchange effect, please add an air director onto the exhaust hood of the outdoor unit to facilitate heat dissipation. See the figure below. The height of the air director is HD (namely H-h). Please make the air director on site.



- If miscellaneous articles are piled around the outdoor unit, such articles must be 31-1/2inch(800mm) below the top of the outdoor unit. The articles must be 31-1/2inch(800mm) below the top of the outdoor unit. Otherwise, a mechanic exhaust device must be added.



- Set the snow-proof facility
- In snowy areas, facilities should be installed to prevent snow. (See the figure below) (Defective facilities may cause malfunction.) Please lift the bracket higher and install snow shield at the air inlet and air outlet.



5. Air ventilation assembly installation

The ventilation assembly is provided at the field installation. When installing, please take off the mesh cover firstly, and then install the unit as the following method.

5.1 Installation of 8, 10, 12HP

Example A

Unit: mm(in.)

Example A	
A	$A \geq 300(11-3/4)$
B	$B \geq 250(9-7/8)$
C	$C \leq 3000(118-1/8)$
D	$731(28-3/4) \leq D \leq 770(30-3/8)$
E	$E = A + 731(28-3/4)$
θ	$\theta \leq 15^\circ$

ESP	Remarks
0Pa	Factory default
0~20Pa	Remove the iron filter and connect to the duct which is less than 3 meters.
$\geq 20Pa$	Need to customize.

Example B

Unit: mm(in.)

Example B	
A	$A \geq 300(11-3/4)$
B	$B \geq 250(9-7/8)$
C	$C \leq 3000(118-1/8)$
D	$D = A + 750(29-1/2)$
θ	$\theta \leq 15^\circ$

ESP	Remarks
0Pa	Factory default
0~20Pa	Remove the iron filter and connect to the duct which is less than 3 meters.
$\geq 20Pa$	Need to customize.

5.2 Installation of 14, 16, 18, 20, 22HP

Example A

Unit: mm(in.)

Example A		ESP	Remarks
A	$A \geq 300 (11-3/4)$	0Pa	Factory default
B	$B \geq 250 (9-7/8)$	0~20Pa	Remove the iron filter and connect to the duct which is less than 3 meters.
C	$C \leq 3000 (118-1/8)$		
D	$630 (24-3/4) \leq D \leq 660 (26)$		
E	$E = A + 630 (24-3/4)$	$\geq 20Pa$	Need to customize.
θ	$\theta \leq 15^\circ$		

Example B

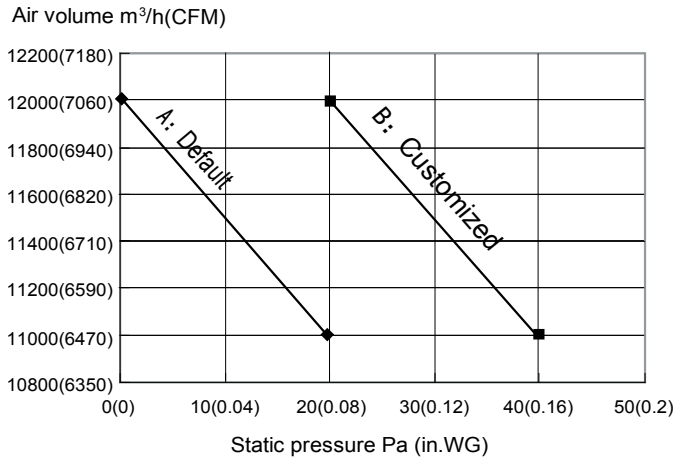
Unit: mm(in.)

Example B		ESP	Remarks
A	$A \geq 300 (11-3/4)$	0Pa	Factory default
B	$B \geq 250 (9-7/8)$	0~20Pa	Remove the iron filter and connect to the duct which is less than 3 meters.
C	$C \leq 3000 (118-1/8)$		
D	$D = A + 1290 (50-3/4)$		
θ	$\theta \leq 15^\circ$	$\geq 20Pa$	Need to customize.

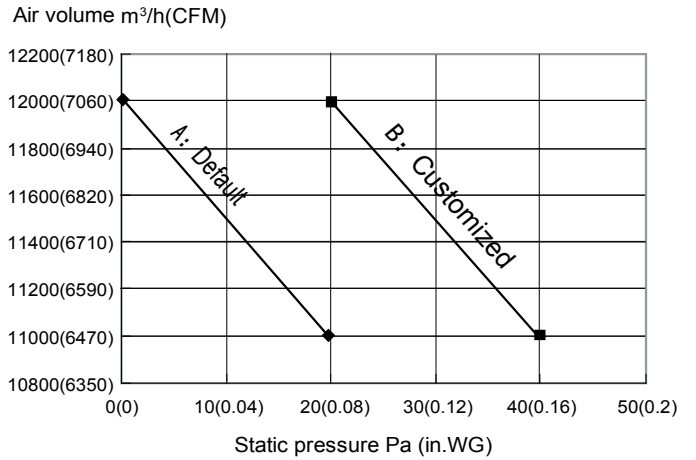
Outdoor fan performance

The default static pressure of outdoor unit is 0 Pa, and 20Pa can be achieved when the steel mesh is removed.

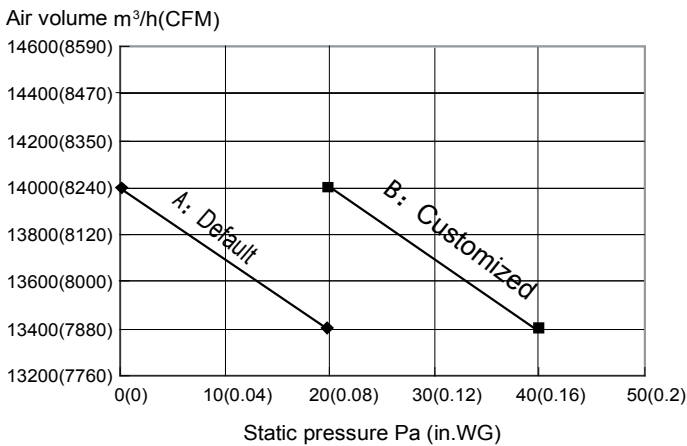
8/10HP



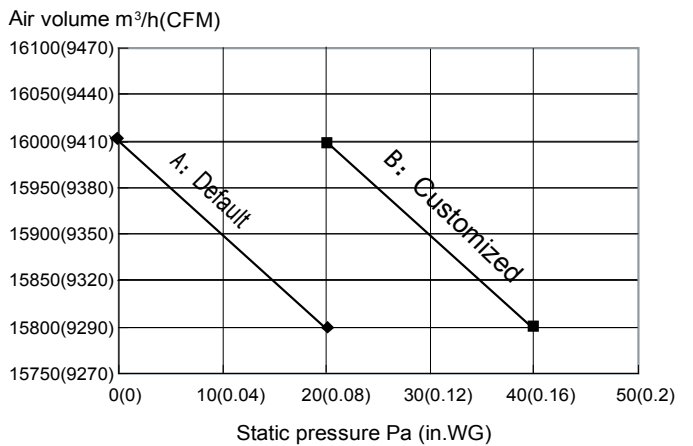
12HP



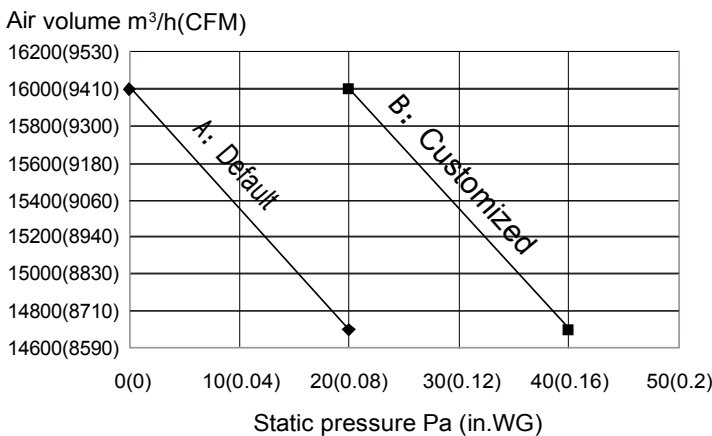
14/16HP



18HP



20/22HP



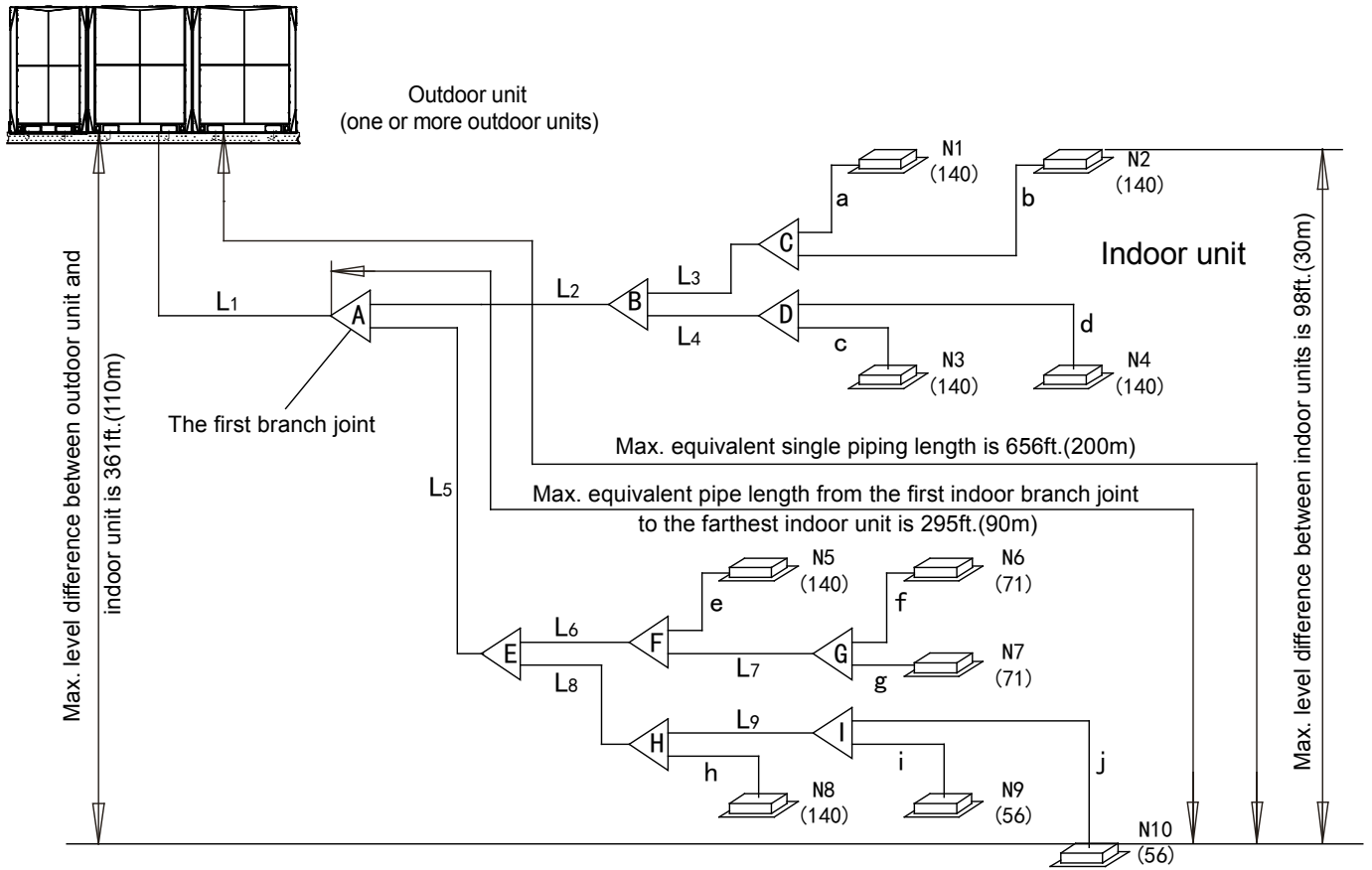
Note:

Before install the ventilation assembly, please remove the steel meshes firstly, otherwise, they would decrease the air supply volume.

1. Increase shutters would decrease the air supply volume, as well as cooling (heating) capacity and energy efficiency would be decreased, the larger angle of the shutter, the more effect to the unit. So we don't recommend applying shutter, if necessary to apply shutter, please ensuring the angle should not over than 15°.
2. The bending place at ventilated duct should be not more than 1(show in above figure), otherwise, operation malfunction would be caused.
3. Install the flexible connector between the unit and the air deflector pipe to avoid vibration noise.

6. Refrigerant piping installation

6.1 Refrigerant piping length permitted value



Piping length		Permitted value	Piping	
Piping length	Total piping length	≤3280ft(1000m) (refer to note 1)	$L1+(L2+L3+L4+L5+L6+L7+L8+L9) \times 2+a+b+c+d+e+f+g+h+i+j$	
	Single piping length	Actual length	≤574ft(175m)	
		Equivalent length	≤656ft(200m) (refer to note 2)	$L1+L5+L8+L9+j$
	Piping length from the first branch joint to the farthest indoor unit		≤131/295ft(40/90m) (refer to note 3)	$L5+L8+L9+j$
Level difference	Level difference between indoor unit and outdoor unit	Outdoor unit is up	≤ 295ft(90m) (refer to note 4)	/
		Outdoor unit is down	≤361ft(110m) (refer to note 5)	/
	Level difference between indoor units		≤98ft(30m)	/

Note:

The indoor units should be installed as possible as equal in the both sides of the U-shape branch joint.

1. When counting the total piping length, the actual pipe length branch joints should be double:

$$\text{Total piping length} = L1+(L2+L3+L4+L5+L6+L7+L8+L9) \times 2+a+b+c+d+e+f+g+h+i+j \leq 3280\text{ft}(1000\text{m})$$

2. The equivalent length of each branch joint is 1.64ft(0.5m).

3. The allowable piping length from the first branch joint to the farthest indoor unit should be equal to or less than 131ft(40m), but when the following conditions are all met, the allowable length can be extended to 295ft (90m).

- The piping length from each indoor unit to the nearest branch joint should be less than 131ft(40m). (a, b, c, d, e, f, g, h, i, $j \leq 131\text{ft}(40\text{m})$)

- The length difference between (the outdoor unit to the farthest indoor unit) and (the outdoor unit to the nearest indoor unit) $\leq 131\text{ft}(40\text{m})$.

The farthest indoor unit: N10

The nearest indoor unit: N1

$$(L1+L5+L8+L9+j)-(L1+L2+L3+a) \leq 131\text{ft}(40\text{m})$$

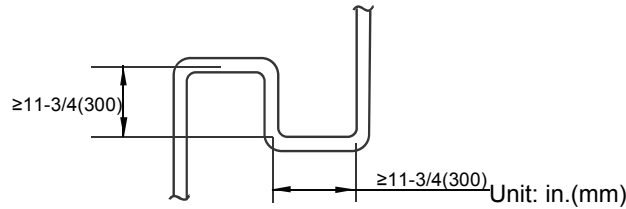
- It needs to increase the size of pipes which between the first branch joint and the last branch joint. (Please change the pipe diameter at field) If the pipe diameter of the main slave pipe is the same as the main pipe, then it is no need to be increased.

When: $131\text{ft}(40\text{m}) < L5+L8+L9+j \leq 295\text{ft}(90\text{m})$, L2, L3, L4, L5, L6, L7, L8, L9 are needed to increase the pipe diameter.

Increasing size as followed: unit in.(mm)

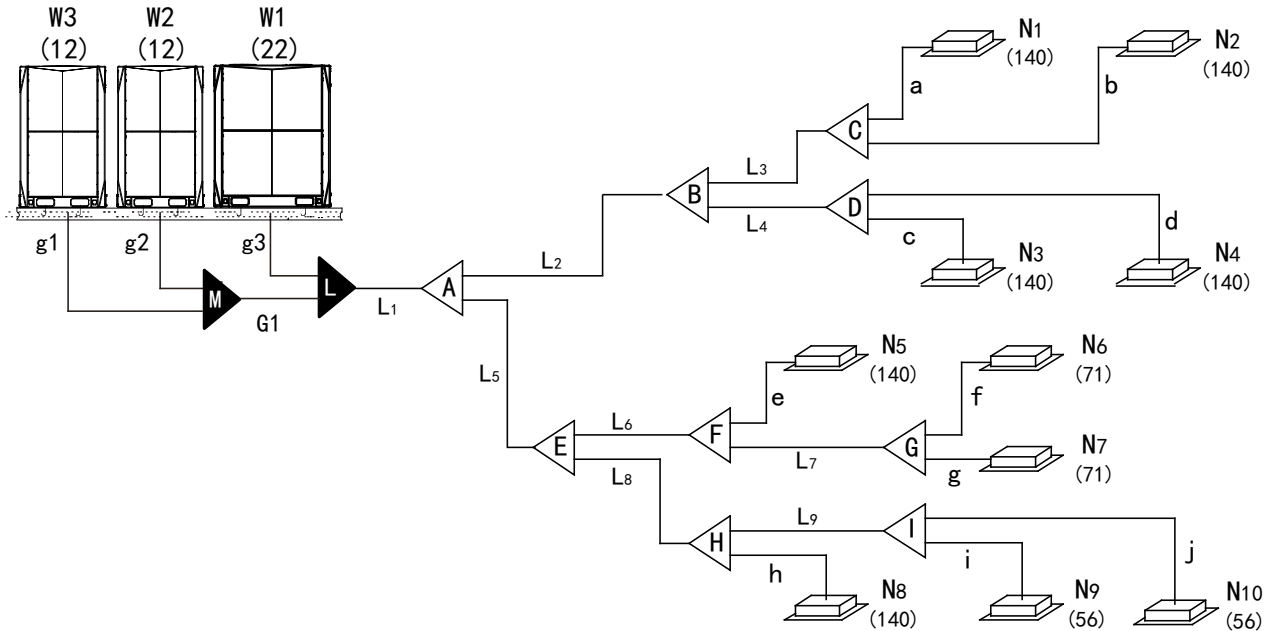
$\Phi 3/8(9.53) \rightarrow$ $\Phi 1/2(12.7)$	$\Phi 1/2(12.7) \rightarrow$ $\Phi 5/8(15.9)$	$\Phi 5/8(15.9) \rightarrow$ $\Phi 3/4(19.1)$	$\Phi 3/4(19.1) \rightarrow$ $\Phi 7/8(22.2)$	$\Phi 7/8(22.2) \rightarrow$ $\Phi 1(25.4)$	$\Phi 1(25.4) \rightarrow$ $\Phi 1-1/8(28.6)$
$\Phi 1-1/8(28.6) \rightarrow$ $\Phi 1-1/4(31.8)$	$\Phi 1-1/4(31.8) \rightarrow$ $\Phi 1-1/2(38.1)$	$\Phi 1-1/2(38.1) \rightarrow$ $\Phi 1-5/8(41.3)$	$\Phi 1-5/8(41.3) \rightarrow$ $\Phi 1-3/4(44.5)$	$\Phi 1-3/4(44.5) \rightarrow$ $\Phi 2-1/8(54.0)$	

4. When the outdoor unit is higher than indoor units and the level difference is over 65.6ft(20m), it is recommended to set an oil return bend every 32.8ft(10m) in the gas pipe of the main pipe, the specification of the oil return bend refers to below figure.



5. When the outdoor unit is lower than indoor units and the level difference is more than 131ft(40m), the liquid pipe of the main pipe need to increase one size.

6.2 Refrigerant piping selection



- Pipe name

Main pipe	L1
Indoor unit main pipe	L2, L3, L4, L5, L6, L7, L8, L9
Indoor unit auxiliary pipe (from indoor unit to the nearest branch joint)	a, b, c, d, e, f, g, h, i, j
Indoor unit branch joint assembly	A, B, C, D, E, F, G, H, I
Outdoor unit branch joint assembly	L, M
Outdoor connection pipe	g1, g2, g3, G1

➤ Table 1: Indoor unit main pipe selection (L1~L9) Unit: in.(mm)

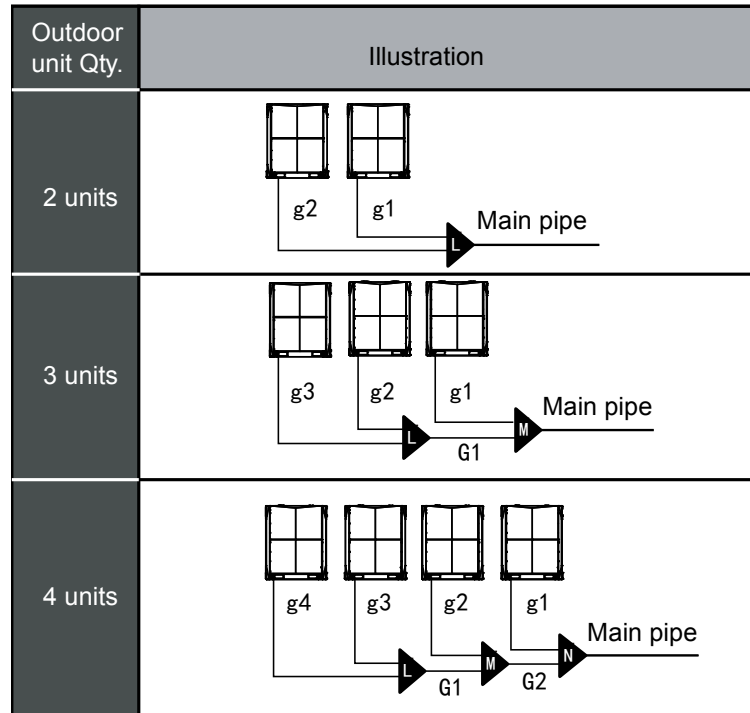
Capacity of indoor unit kW(kBtu/h)	Indoor unit main pipe in.(mm)		
	Gas pipe	Liquid pipe	Available branching pipe assembly
A<16.6(56.6)	Φ5/8(15.9)	Φ3/8(9.53)	FQZHN-01D
(56.6)16.6≤A<23(78.5)	Φ3/4(19.1)	Φ3/8(9.53)	FQZHN-01D
(78.5)23≤A<33(112.6)	Φ7/8(22.2)	Φ3/8(9.53)	FQZHN-02D
(112.6)33≤A<46(157)	Φ1-1/8(28.6)	Φ1/2(12.7)	FQZHN-03D
(157)46≤A<66(225.2)	Φ1-1/8(28.6)	Φ5/8(15.9)	FQZHN-03D
(225.2)66≤A<92(313.9)	Φ1-1/4(31.8)	Φ3/4(19.1)	FQZHN-03D
(313.9)92≤A<135(460.6)	Φ1-1/2(38.1)	Φ3/4(19.1)	FQZHN-04D
(460.6)135≤A<180(614.2)	Φ1-5/8(41.3)	Φ7/8(22.2)	FQZHN-05D
(614.2)180≤A	Φ1-3/4(44.5)	Φ1(25.4)	FQZHN-05D

➤ Table 2: Main pipe selection (L1) Unit: in.(mm)

Model	Main pipe in.(mm)					
	When the equivalent length of all liquid pipes<295ft.(90m)			When the equivalent length of all liquid pipes≥295ft.(90m)		
	Gas pipe	Liquid pipe	The 1 st branch pipe	Gas pipe	Liquid pipe	The 1 st branch pipe
8HP	Φ7/8(22.2)	Φ3/8(9.53)	FQZHN-02D	Φ7/8(22.2)	Φ1/2(12.7)	FQZHN-02D
10HP	Φ7/8(22.2)	Φ3/8(9.53)	FQZHN-02D	Φ1(25.4)	Φ1/2(12.7)	FQZHN-02D
12-14HP	Φ1(25.4)	Φ1/2(12.7)	FQZHN-02D	Φ1-1/8(28.6)	Φ5/8(15.9)	FQZHN-03D
16HP	Φ1-1/8(28.6)	Φ1/2(12.7)	FQZHN-03D	Φ1-1/4(31.8)	Φ5/8(15.9)	FQZHN-03D
18-22HP	Φ1-1/8(28.6)	Φ5/8(15.9)	FQZHN-03D	Φ1-1/4(31.8)	Φ3/4(19.1)	FQZHN-03D
24HP	Φ1-1/8(28.6)	Φ5/8(15.9)	FQZHN-03D	Φ1-1/4(31.8)	Φ3/4(19.1)	FQZHN-03D
26-34HP	Φ1-1/4(31.8)	Φ3/4(19.1)	FQZHN-03D	Φ1-1/2(38.1)	Φ7/8(22.2)	FQZHN-04D
36-50HP	Φ1-1/2(38.1)	Φ3/4(19.1)	FQZHN-04D	Φ1-1/2(38.1)	Φ7/8(22.2)	FQZHN-04D
52-66HP	Φ1-5/8(41.3)	Φ7/8(22.2)	FQZHN-05D	Φ1-3/4(44.5)	Φ1(25.4)	FQZHN-05D
68-88HP	Φ1-3/4(44.5)	Φ1(25.4)	FQZHN-05D	Φ2-1/8(54.0)	Φ1(25.4)	FQZHN-06D

Note: the main pipe L1 can be selected from table1 or table2, the larger size should be finally selected.

● Outdoor unit branch pipe assembly



➤ Table 3: Outdoor unit connection pipe selection (g1, g2, g3, g4, G1, G2) Unit: in.(mm)

Pipe		Gas pipe	Liquid pipe
g1,g2,,g3,g4	8~12HP	Φ1(25.4)	Φ1/2(12.7)
	14~22HP	Φ1-1/4(31.8)	Φ5/8(15.9)
G1		Φ1-1/4(31.8)	Φ3/4(19.1)
G2		Φ1-5/8(41.3)	Φ7/8(22.2)

➤ Table 4: Outdoor unit branching pipe assembly selection (L, M, N)

Outdoor unit quantity	Parallel connect with the branch pipes
2 units	L: FQZHW-02N1D
3 units	L+M: FQZHW-03N1D
4 units	L+M+N: FQZHW-04N1D

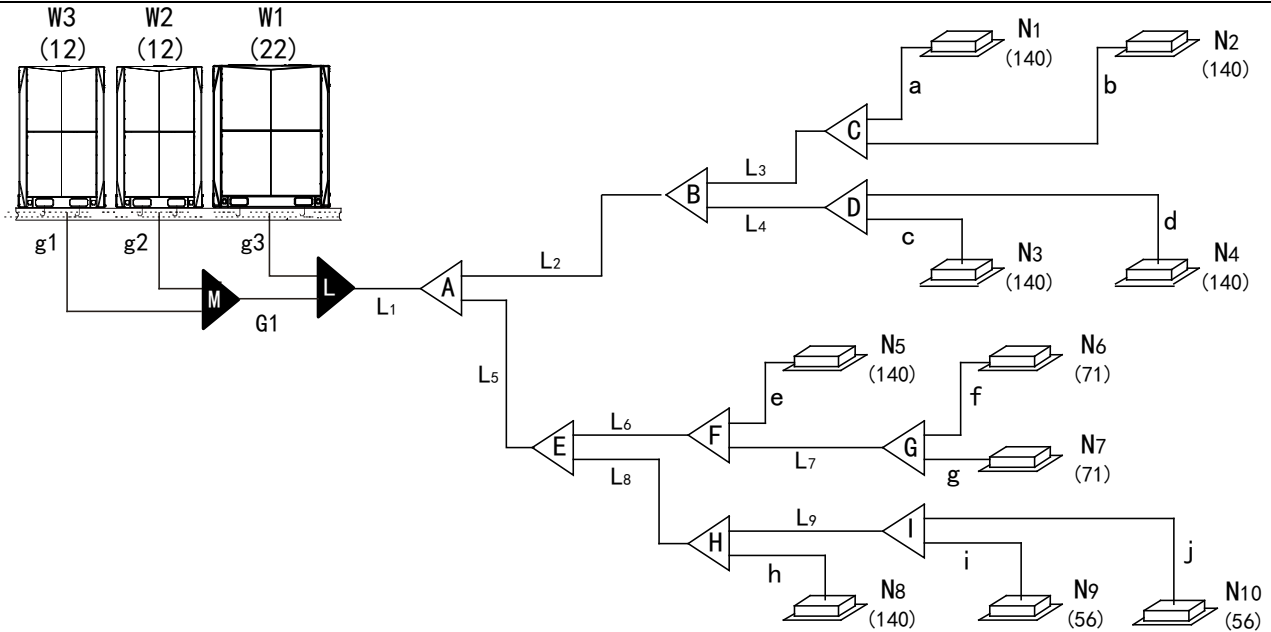
➤ Table 5: Indoor unit to the nearest branch joint (a~j) Unit: in.(mm)

Capacity of indoor unit kW(kBtu/h))	The pipe length from indoor unit to the nearest branch joint ≤32.8ft.(10m)		The pipe length from indoor unit to the nearest branch joint >32.8ft.(10m)	
	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe
A≤4.5(15.4)	Φ1/2(12.7)	Φ1/4(6.35)	Φ5/8(15.9)	Φ3/8(9.53)
A≥5.6 (19.1)	Φ5/8(15.9)	Φ3/8(9.53)	Φ3/4(19.1)	Φ1/2(12.7)

6.3 Example

The example is as blow:

(Provided that the capacity of outdoor unit is (12+12+22) HP, the equivalent length of all pipes in this system is larger than 90m, the pipe length from the 1st branch joint to the farthest indoor unit is less than 40m, and the pipe from indoor unit to the nearest branch joint is less than 10m.



1. Select indoor unit pipes from indoor unit to the nearest branch joint: a, b, c, d, e, f, g, h, i, j.

Refer to table 5, the pipes of a~j are $\Phi 5/8(15.9)/\Phi 3/8(9.53)$.

2. Select the main pipe L1, indoor unit main pipes L2~L9 and branch joints B~I:

- The downstream indoor units of L3 are N1 and N2, which capacity is $14 \times 2 = 28\text{kW}(95.5\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L3 is $\Phi 7/8(22.2)/\Phi 3/8(9.53)$. The branch pipe assembly C is FQZHN-02D.
- The downstream indoor unit of L4 is N3 and N4, which capacity is $14 \times 2 = 28\text{kW}(95.5\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L4 is $\Phi 7/8(22.2)/\Phi 3/8(9.53)$. The branch pipe assembly D is FQZHN-02D.
- The downstream indoor unit of L7 is N6 and N7, which capacity is $7.1 \times 2 = 14.2\text{kW}(48.5\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L7 is $\Phi 5/8(15.9)/\Phi 3/8(9.53)$. The branch pipe assembly G is FQZHN-01D.
- The downstream indoor units of L9 are N9 and N10, which capacity is $5.6 \times 2 = 11.2\text{kW}(38.2\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L9 is $\Phi 5/8(15.9)/\Phi 3/8(9.53)$. The branch pipe assembly I is FQZHN-01D.
- The downstream indoor units of L2 are N1, N2, N3 and N4, which capacity is $14 \times 4 = 56\text{ kW}(191.1\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L2 is $\Phi 1-1/8(28.6)/\Phi 5/8(15.9)$. The branch pipe assembly B is FQZHN-03D.
- The downstream indoor unit of L6 is N5, N6 and N7, which capacity is $14 + 7.1 \times 2 = 28.2\text{kW}(96.2\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L6 is $\Phi 7/8(22.2)/\Phi 3/8(9.53)$. The branch pipe assembly F is FQZHN-02D.
- The downstream indoor units of L8 are N8, N9 and N10, which capacity is $14 + 5.6 \times 2 = 25.2\text{kW}(86\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L8 is $\Phi 7/8(22.2)/\Phi 3/8(9.53)$. The branch pipe assembly H is FQZHN-02D.
- The downstream indoor units of L5 are N5, N6, N7, N8, N9 and N10, which capacity is $14 \times 2 + 7.1 \times 2 + 5.6 \times 2 = 53.4\text{kW}(182.2\text{kBtu/h})$. Refer to table 1, the indoor unit main pipe L2 is $\Phi 1-1/8(28.6)/\Phi 5/8(15.9)$. The branch pipe assembly E is FQZHN-03D.

3. Select main pipe L1 and branch joint A:

For the capacity of outdoor unit is 46HP, the equivalent length of all pipes in this system is larger than 295ft(90m), refer to table 2, the main pipe L1 is $\Phi 1-1/2(38.1)/\Phi 7/8(22.2)$, the branch pipe assembly A is FQZHN-04D.

The downstream indoor units of L1 are N1~N10, which capacity is $14 \times 6 + 7.1 \times 2 + 5.6 \times 2 = 109.4\text{kW}(373.3\text{kBtu/h})$. Refer to table 1, the main pipe L1 is $\Phi 1-1/2(38.1)/\Phi 3/4(19.1)$. So we finally select the larger pipe $\Phi 1-1/2(38.1)/\Phi 7/8(22.2)$ as main pipe L1.

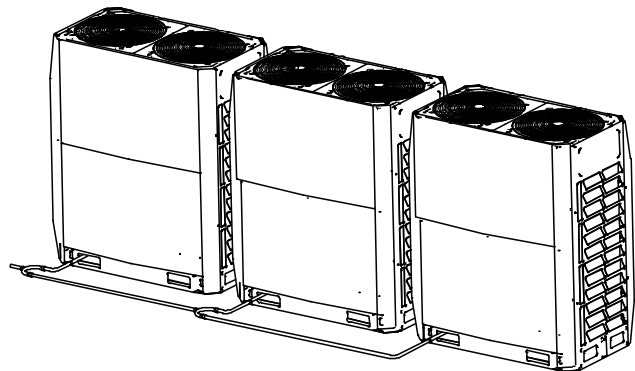
4. Outdoor unit connection pipe (g1, g2, g3, G1, L+M) selection (refer to table3, table 4)

- The pipe g1 is connected to 12HP outdoor unit. Refer to table3, the diameter of g1 is $\Phi 1(25.4) / \Phi 1/2(12.7)$.
- The pipe g2 is connected to 12HP outdoor unit. Refer to table3, the diameter of g2 is $\Phi 1(25.4) / \Phi 1/2(12.7)$.
- The pipe g3 is connected to 22HP outdoor unit. Refer to table3, the diameter of g3 is $\Phi 1-1/4(31.8) / \Phi 5/8(15.9)$.
- Refer to table3, the diameter of G1 is $\Phi 1-1/4(31.8) / \Phi 3/4(19.1)$.
- The quantity of combined outdoor units is three. Refer to table4, the outdoor branch assembly is L+M: FQZHW-03N1D.

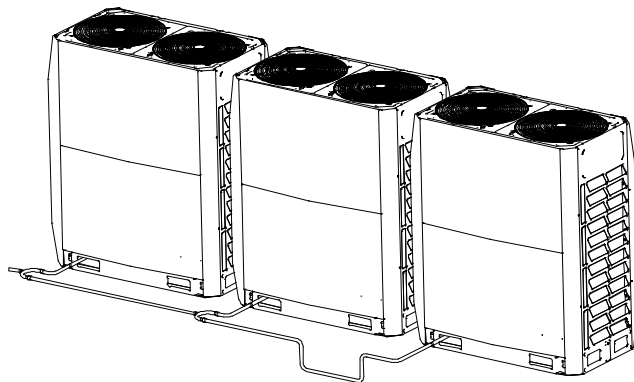
Note: For the detail dimension and installation information, please read the branch pipe installation manual carefully.

6.4 Piping connection between outdoor units

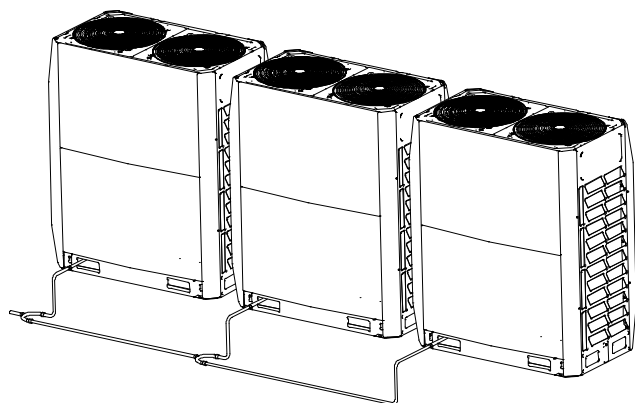
All connection pipes between outdoor units should be horizontally, it is not allowed the concave at junction site. The height of each connection pipe between outdoor units is not allowed to over the height of refrigerant outlet pipe.



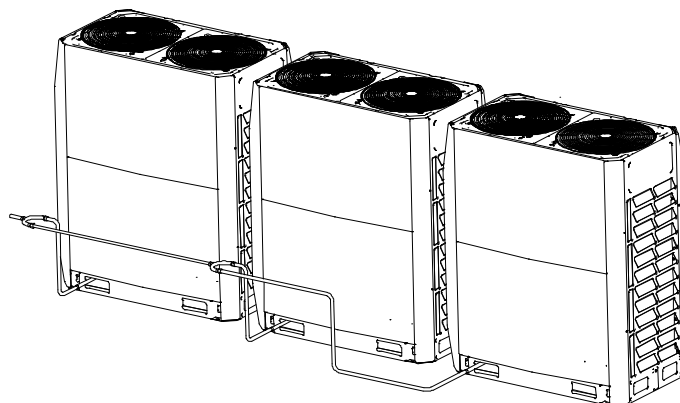
✓ Correct way



× Wrong way



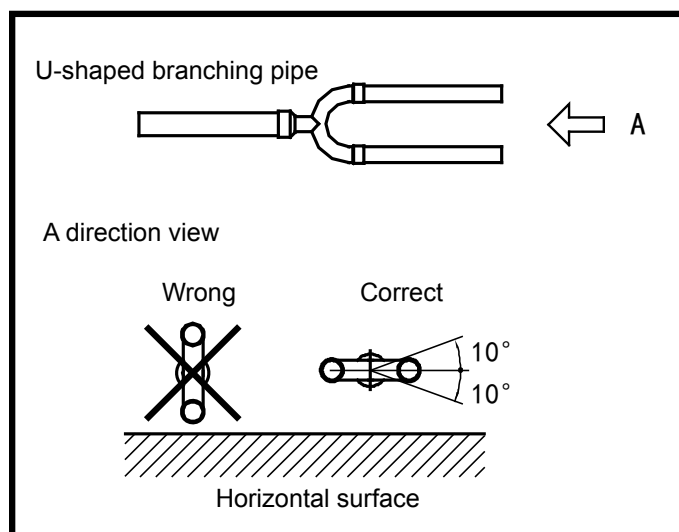
✓ Correct way



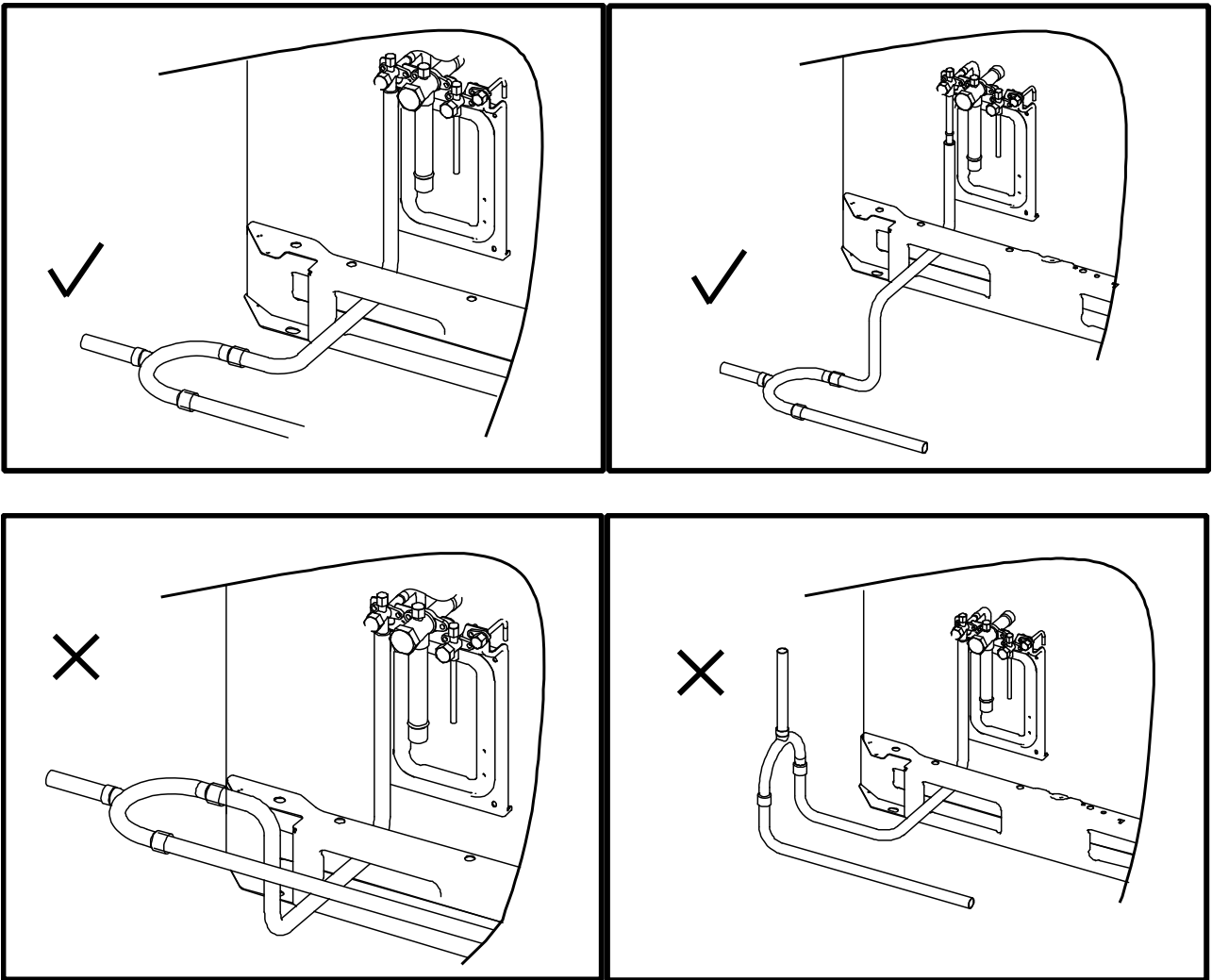
× Wrong way

6.5 Branch pipe installation

The branching pipe must be installed horizontally and error angle of it should not be larger than 10°. Otherwise, refrigerant assignment will be uneven and malfunction will be caused.

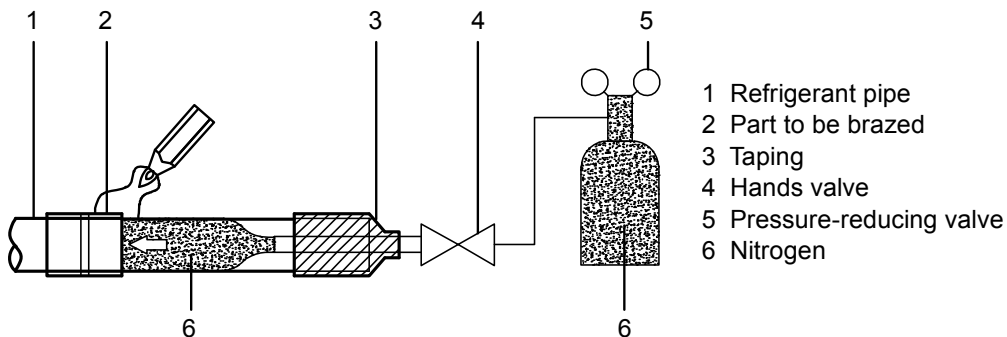


For avoiding oil accumulate at the outdoor unit, please install the branching pipes properly.



7. Caution for brazing

- Make sure to blow through with nitrogen when brazing. Blowing through with nitrogen prevents the creation of large quantities of oxidized film on the side of the pipe. An oxidized film adversely affects valves and compressors in the refrigerating system and prevents proper operation.
- The nitrogen pressure should be set to 0.02MPa (just enough so it can be felt on the skin) with a pressure-reducing valve.



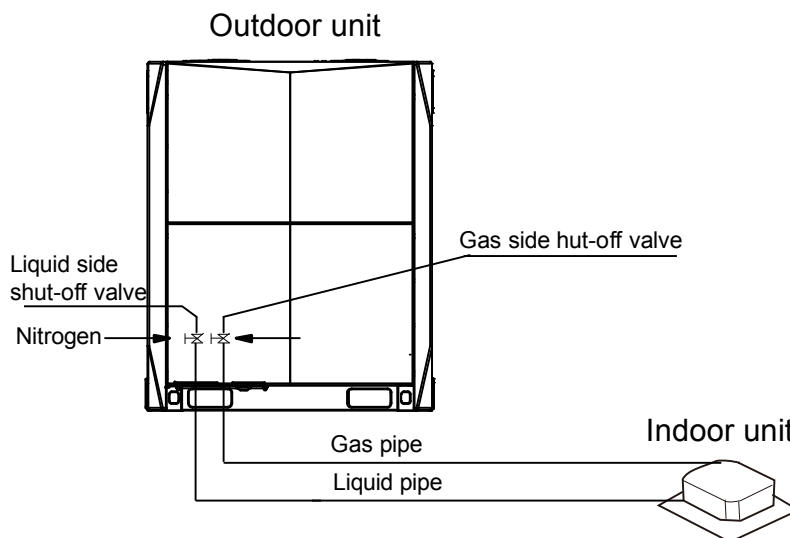
- Do not use anti-oxidants when brazing the pipe joints. Residue can clog pipes and break equipment.
- Do not use flux when brazing copper-to-copper refrigerant piping. Use phosphor copper brazing filler alloy (BCuP) which does not require flux.
- Flux has an extremely harmful influence on refrigerant pipe systems. For instance, if chlorine based flux is used, it will cause pipe corrosion in particular, if the flux contains fluorine, it will deteriorate the refrigerant oil.

8. Remove dirt or water in the piping

- Make sure there is no any dirt or water in the pipe before connecting the piping to the outdoor units.
- Wash the piping with high pressure nitrogen, never use refrigerant of the outdoor unit to do that.

9. Gas tightness test

Charge 40kgf/cm² nitrogen gas from the high-pressure gas valve from the meter connector. Pressure inside should be maintained no less than 24 hrs.

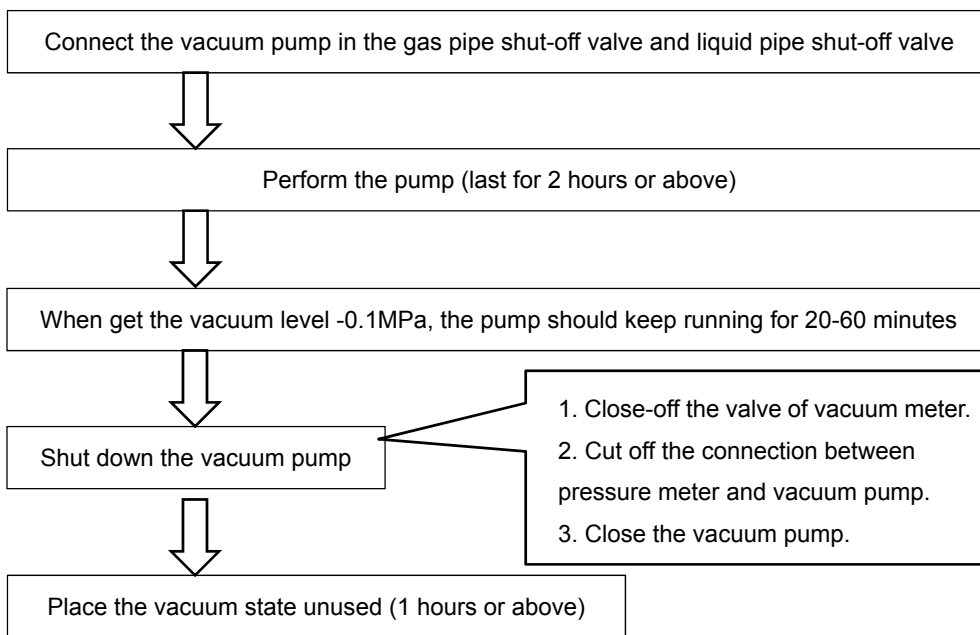


Note:

- Pressurized nitrogen (3.9MPa; 40kgf/cm²) is used for airtightness test.
- It is not allowed to use oxygen, combustible gas or toxic gas to conduct the airtightness test.
- When welding, please use wet cloth insulating the low pressure valve for protection.
- To avoid the equipment being damaged, the pressure maintained time should not last too long.

10. Vacuum

- Use the vacuum pump which vacuum level lower than -0.1MPa(-14.5PSI) and the air discharge capacity above 40L/min(1.41ft³/min).
- The outdoor unit is not necessary to vacuum, don't open the outdoor unit gas and liquid pipe shut-off valves.
- Make sure the vacuum pump could result as -0.1MPa(-14.5PSI) or below after 2 hours or above operation. If the pump operated 3 hours or above could not achieve to -0.1MPa(-14.5PSI) or below, please check whether water mix or gas leakage inside of the pipe.
- Pressure gauge with the switch is installed between vacuum pump and system pipes.



Caution:

- Don't mix up the different refrigerants or abuse the tools and measurements which directly contact with refrigerants.
- Don't adopt refrigerant gas for air vacuuming.
- If vacuum level could not get to -0.1MPa, please check whether resulted by leakage and confirm the leakage site. If no leakage, please operate the vacuum pump again 1 or 2 hrs.

11. Additional refrigerant charge

- Calculate the additional refrigerant charge according to the diameter and the length of the liquid side pipe of the outdoor/indoor unit connection. The refrigerant is R410A.

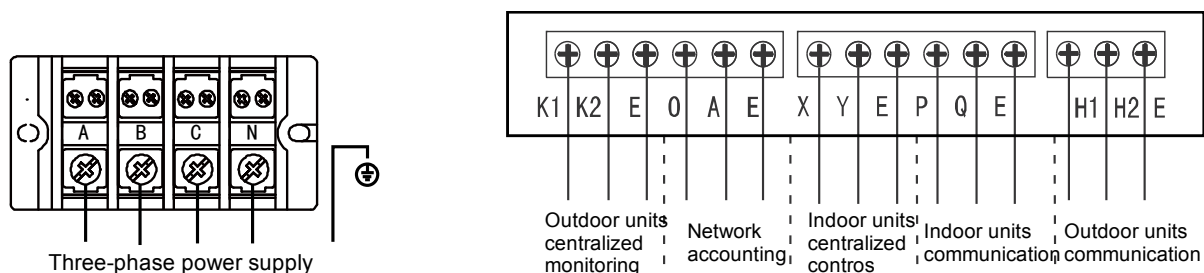
Note: Assume equivalent pipe length of the branch joint is 0.5m (for calculation purposes).

Pipe size of liquid side (in.(mm))	Additional refrigerant charge per meter (lbs.(kg))
Φ1/4(6.35)	0.049(0.022)
Φ3/8(9.53)	0.126(0.057)
Φ1/2(12.7)	0.243(0.110)
Φ5/8(15.9)	0.375(0.170)
Φ3/4(19.1)	0.573(0.260)
Φ7/8(22.2)	0.794(0.360)
Φ1(25.4)	1.147(0.520)
Φ1-1/8(28.6)	1.50(0.680)

- Charge the additional refrigerant from the gas pipe or liquid pipe. After the system is running, if it is needed to charge refrigerant during maintenance, charge at the gauge point.

12. Electric wiring installation

12.1 Wiring terminals instruction



12.2 Electric characteristics

Model	Units				Power supply			Compressor		OFM	
	Hz	Voltage (V)	Min. (V)	Max. (V)	MCA (A)	TOCA (A)	MFA (A)	MSC (A)	RLA (A)	kW	FLA (A)
MV5-X252W/V2GN1	50/60	380~415	342	440	17.8	22.8	25	-	14.58	0.465	4.6
MV5-X280W/V2GN1	50/60	380~415	342	440	20.3	22.8	25	-	14.58	0.465	4.6
MV5-X335W/V2GN1	50/60	380~415	342	440	21.9	23.7	25	-	15.62	0.465	4.5
MV5-X400W/V2GN1	50/60	380~415	342	440	29	29.8	35	-	10.23+10.23	0.29+0.23	2.8+2.4
MV5-X450W/V2GN1	50/60	380~415	342	440	30.1	29.8	35	-	10.23+10.23	0.29+0.23	2.8+2.4
MV5-X500W/V2GN1	50/60	380~415	342	440	36.3	37.9	40	-	15.62+9.36	0.42+0.35	3.9+3.5
MV5-X560W/V2GN1	50/60	380~415	342	440	42.8	48.3	50	-	15.62+15.62	0.44+0.35	4.0+3.4
MV5-X615W/V2GN1	50/60	380~415	342	440	46.4	48.3	50	-	15.62+15.62	0.44+0.35	4.0+3.4

The current value of combination unit is the total value of each basic model(refer to Table.6-2)

For example: 46HP=22HP+12HP+12HP

Power current: MCA=39.63+18.38+18.38=76.39

TOCA=44.9+23+23=90.9

MFA=50+25+25=100

Compressor: RLA=15.62+15.62+15.62+15.62=62.48

OFM: FLA=4.0+3.4+4.5+4.5=16.4

Notes:

1. RLA is based on the following conditions, Indoor temp. 27°C(80.6°F) DB/19°C(66.2°F) WB, Outdoor temp. 35°C(95°F) DB
2. TOCA means the total value of each OC set.
3. MSC means the Max. current during the starting of compressor.
4. Voltage range.

Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

5. Maximum allowable voltage variation between phases is 2%

6. Selection wire size based on the larger value of MCA or TOCA

7. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth circuit breaker).

MCA: Min. Circuit Amps. (A)

TOCA: Total Over-current Amps. (A)

MFA: Max. Fuse Amps. (A)

MSC: Max. Starting Amps. (A)

RLA: Rated Load Amps. (A)

OFM: Outdoor Fan Motor.

FLA: Full Load Amps. (A)

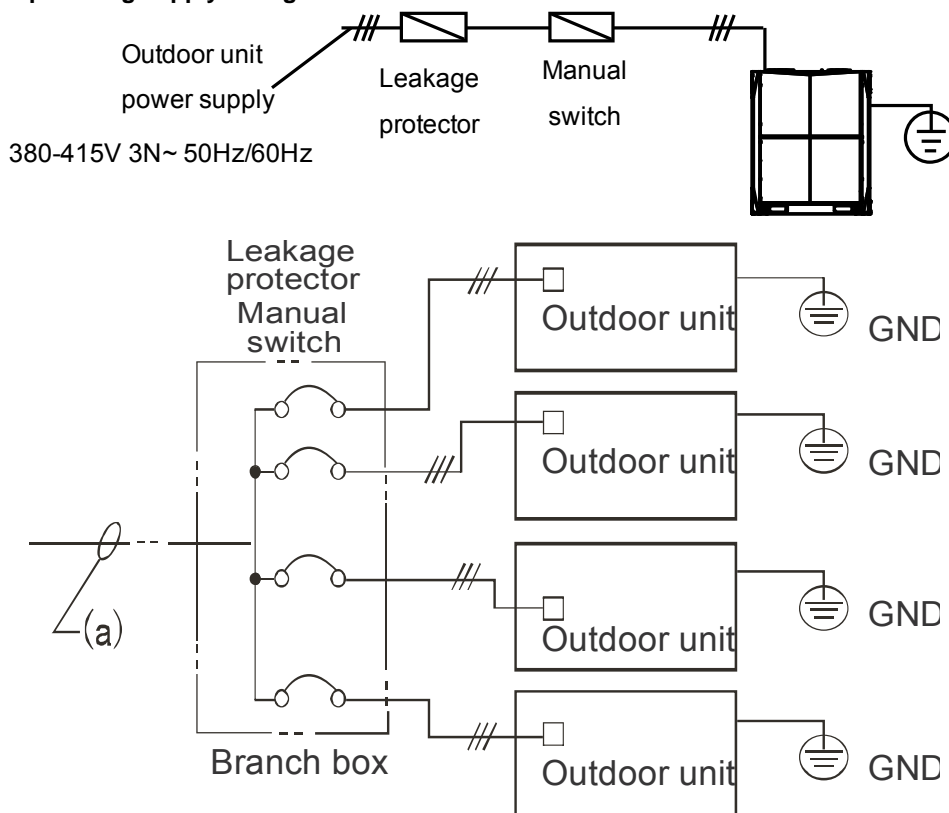
KW: Rated Motor Output (KW)

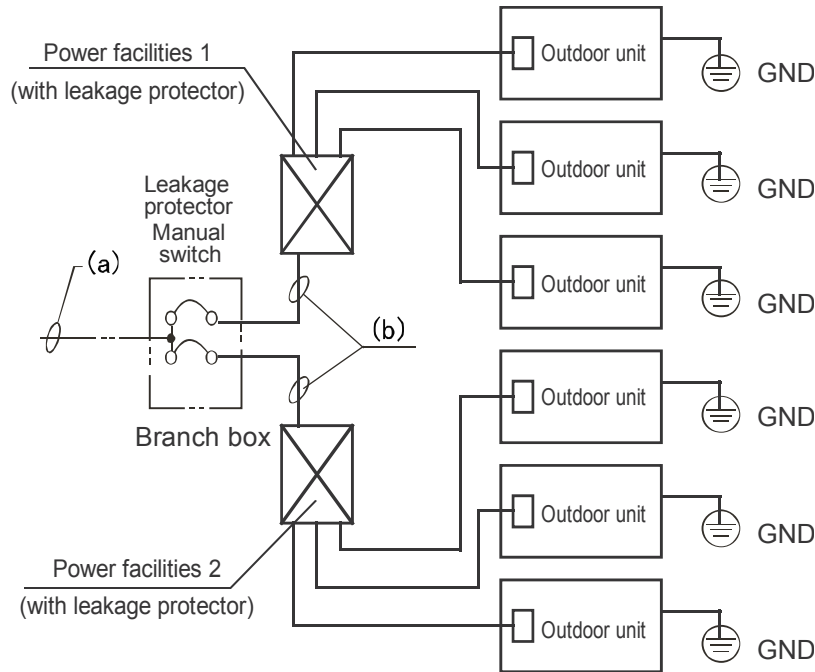
12.3 Electric wiring installation

Note:

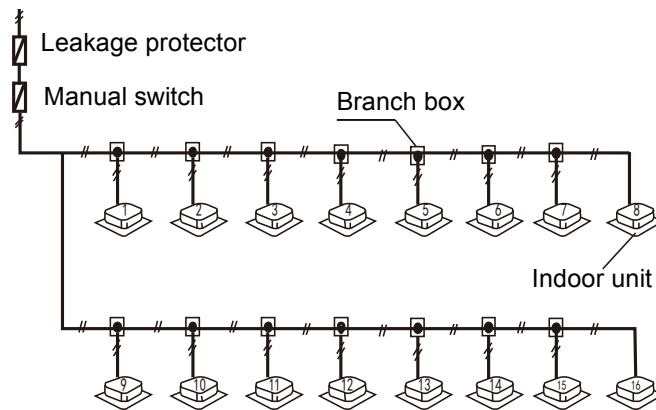
- Please select power supply for indoor unit and outdoor unit separately.
- The power supply should have specified branch circuit with leakage protector and manual switch.
- The power supply, leakage protector and manual of all the indoor units connecting to the same outdoor unit should be universal. (Please set all the indoor unit power supply of one system into the same circuit. It should turn on or shut down the unit at the same time, otherwise, the service life would affect seriously, even the unit may not turn on.)
- Please put the connective wiring system between indoor unit and outdoor unit with refrigerant piping system together.
- It is suggested to use 3-core shielded wire as signal wire between indoor and outdoor units, multi-core wire is unavailable.
- Please comply with relevant National Electric Standard.
- Power wiring should be done by professional electrician.

12.3.1 Outdoor unit powering supply wiring





12.3.2 Indoor unit powering supply wiring



Note:

- Set refrigerant piping system, signal wires between indoor units and signal wires between outdoor units into one system.
- Power must unified supply to all indoor units in the one system.
- Please do not put the signal wires and power wires in the same wire tube; keep distance between the two tubes. (Keep distance above 11-13/16inch(300mm), when current capacity of power supply less than 10A, and keep distance above 19-11/16inch(500mm), when current capacity of power supply less than 50A).
- Make sure to address the outdoor unit which is in combination type.

12.4 Control system installation

The control line should be shielded wire. Using other wiring shall create signal interference, thus leading to error operation. The shielded nets at the two sides of shielded wires are either grounded to the earth, or connected with each other and jointed to the sheet metal along to the earth.

Control wire could not be bound together with refrigerant pipeline and power wire. When power wire and control wire is distributed in parallel form, keep gap between them above 11-13/16inch(300mm) so as to preventing signal interference.

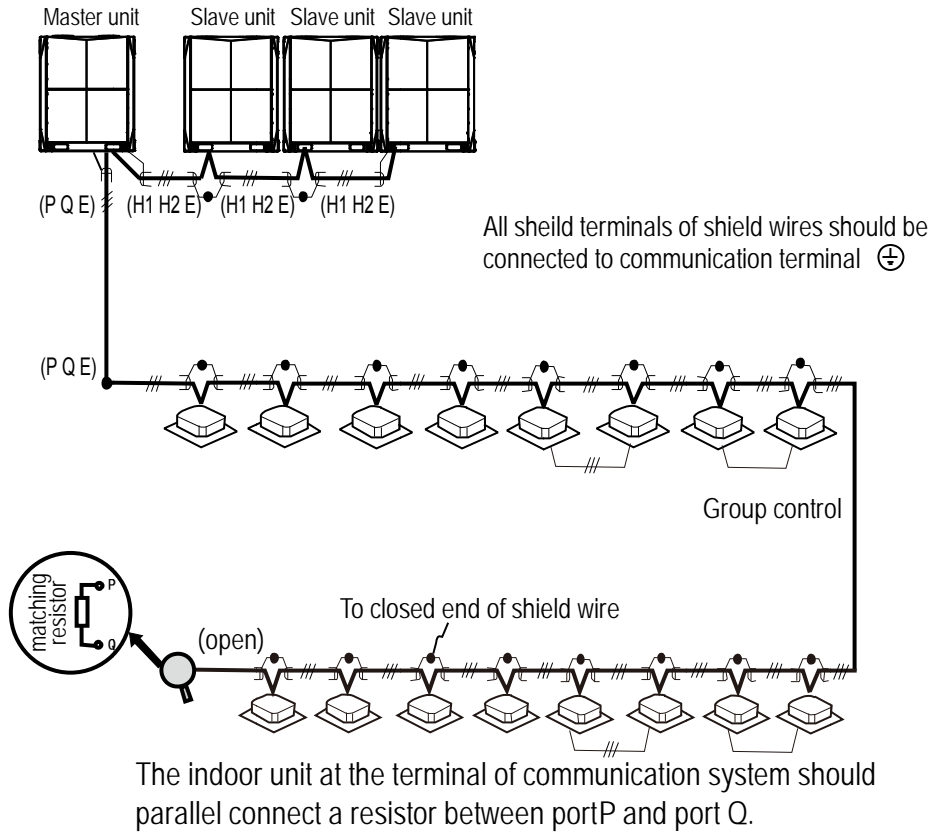
Control wire could not form closed loop.

Control wire has polarity, so be careful when connecting.

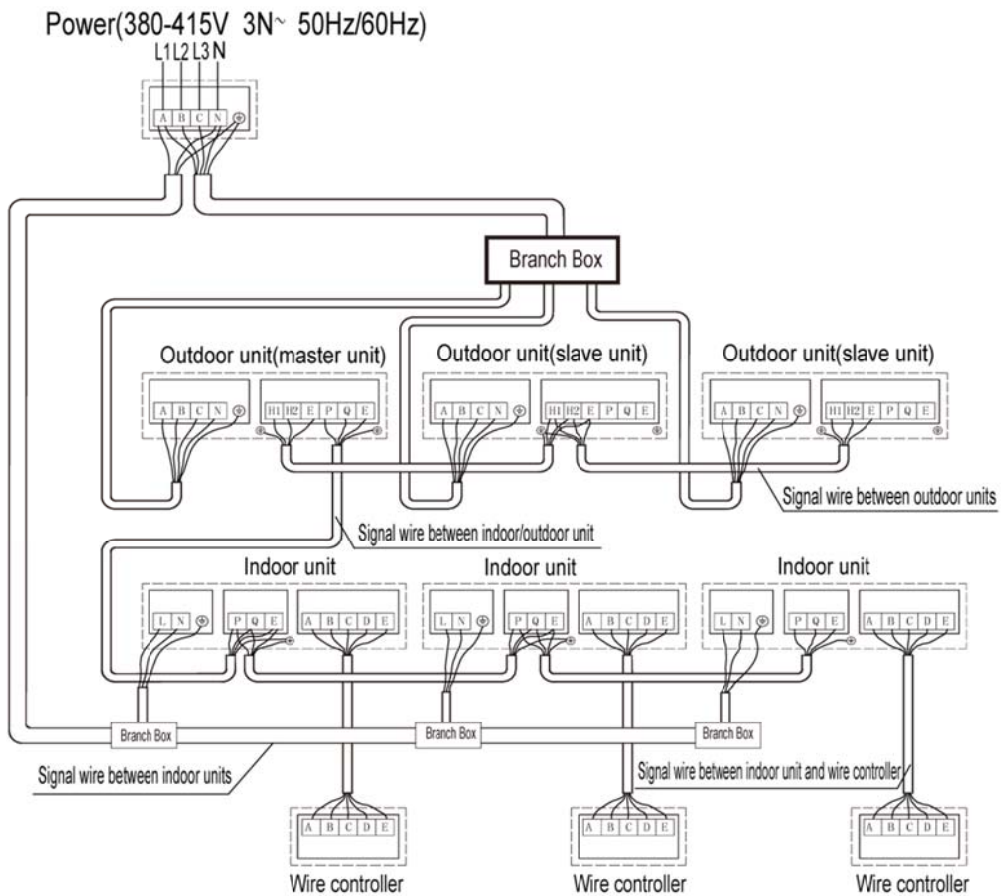
The shield net should be grounded at the wiring terminal of outdoor unit. The inlet and outlet wire net of indoor communication wire should be connected directly and could not be grounded, and form open circuit at the shield net of final indoor unit.

12.4.1 Signal wire between outdoor unit and indoor unit

Signal wire of indoor/outdoor unit adopts 3-core shielded wire ($\geq 0.0012\text{in.}^2(0.75\text{mm}^2)$) which has polarity, please connect it correctly.



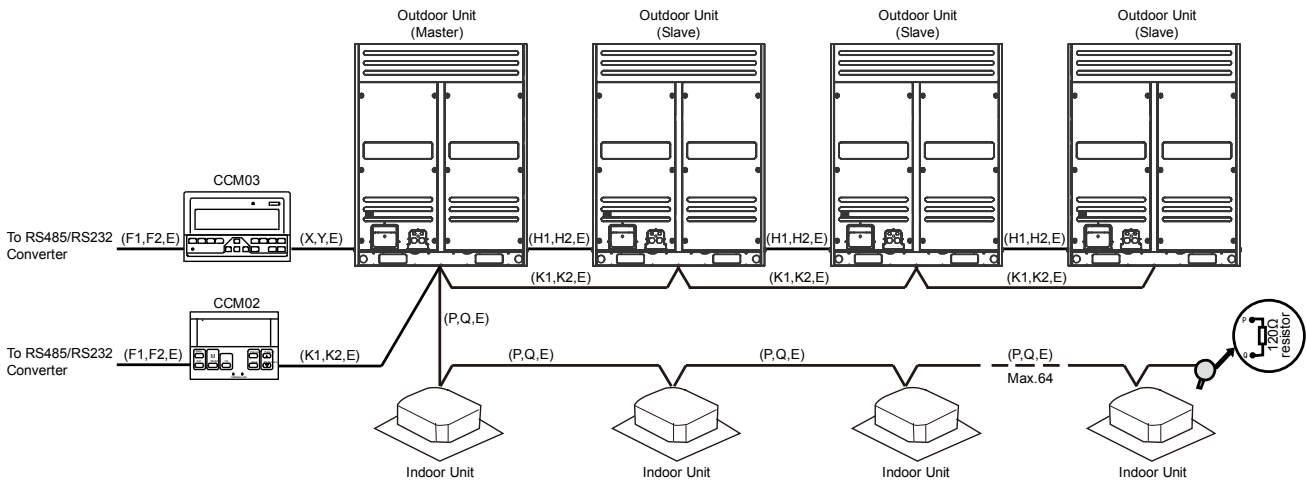
12.4.2 Example connection of wiring



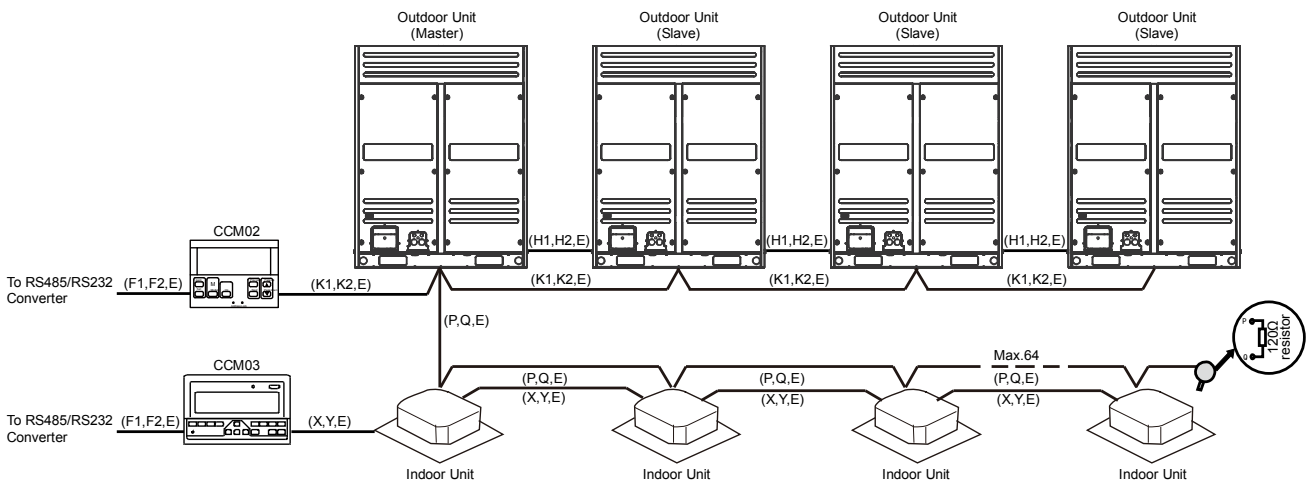
12.4.3 Signal wire of centralized control

When centralized control is needed, one CCM03 (central controller of indoor unit) can only control the indoor units which are in the same refrigerant system **via the port X Y E of outdoor unit**. Outdoor unit will automatically distribute the address to indoor units without any manual setting. Remote controller can enquiry and modify every indoor unit address.

The diagram below shows the connection of signal wire in this case:




































Besides, CCM03 can also connect indoor units **via the port X Y E of indoor unit**. However, one more group of wire(X Y E between indoor units) is needed; it is more complex and not suggested. Anyway, the diagram below shows the connection of signal wire in this case:



12.5 Dial switch setting

S1: Starting time setting	
	Starting time is 10 minutes
	Starting time is 12 minutes (default)
S2: Night silent time setting	
	Night silent time is 6h/10h (default)
	Night silent time is 6h/12h

	Night silent time is 8h/10h
	Night silent time is 8h/12h
S3: Silent mode selection	
	Night silent mode (default)
	Silent mode
	Super silent mode.
	None silent mode.
S4: Static pressure mode selection	
	None static pressure(default)
	Low static pressure mode (reserved, can be customized)
	Medium static pressure mode (reserved, can be customized)
	High static pressure mode (reserved, can be customized)
S5: Priority mode selection	
	Heating priority mode (default)
	Cooling priority mode
	VIP (address no. 63) priority mode or voting priority mode
	Heating only priority mode
	Cooling only priority mode
S6: Auto addressing mode selection	
	Auto addressing
	None auto addressing (default)
	Clean the indoor unit address
S7: Set the indoor units' numbers selection	
	No need to set the numbers of indoor units (default)
	Need to set the numbers of indoor units

S8: Reserved	
	
S10: Reserved	
	
ENC3+S12: Indoor unit quantity setting	
	 <p>The quantity of indoor unit is 0-15 0~9 on ENC3 refer to 0~9 indoor units; A~F on ENC3 refer to 10~15 indoor units.</p>
	 <p>The quantity of indoor unit is 16-31 0~9 on ENC3 refer to 16~25 indoor units; A~F on ENC3 refer to 26~31 indoor units.</p>
	 <p>The quantity of indoor unit is 32-47 0~9 on ENC3 refer to 32~41 indoor units; A~F on ENC3 refer to 42~47 indoor units.</p>
	 <p>The quantity of indoor unit is 48-63 0~9 on ENC3 refer to 48~57 indoor units; A~F on ENC3 refer to 58~63 indoor units.</p>
ENC1: Outdoor unit address setting	
	<p>Only 0, 1, 2, 3 are available. 0 is for main unit; 1, 2, 3 are for slave units</p>
ENC2: Outdoor unit capacity setting	
	<p>Only 0, 1, 2, 3, 4 are available. 0: 8HP; 1: 10HP; 2: 12HP; 3: 14HP; 4: 16HP; 5: 18HP; 6: 20HP; 7: 22HP.</p>
ENC4: Network address setting	
	<p>Only 0, 1, 2, 3, 4, 5, 6, 7 are available.</p>

13. Running test

13.1 Inspection and confirmation before commissioning

- Check and confirm that refrigeration pipe line and communication wire of indoor and outdoor units have been connected to the same refrigeration system. Otherwise, operation troubles shall happen.
- Power voltage is within $\pm 10\%$ rated voltage.
- Check and confirm that the power wire and control wire are correctly connected.
- Check whether wire controller is properly connected.
- Before powering on, confirm there is no short circuit to each line.
- Check whether all units have passed nitrogen pressure-keeping test for 24 hours with R410A: 40kg/cm² (580PSI).
- Confirm whether the system to debugging has been carried out vacuum drying and packed with refrigeration as required.

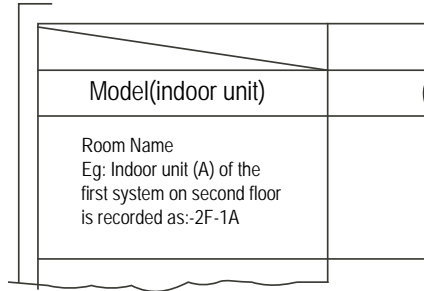
13.2 Preparation before debugging

- Calculate the additional refrigerant quantity for each set of unit according to the actual length of liquid pipe.
- Keep required refrigerant ready.
- Keep system scheme, system piping diagram and control wiring diagram ready.
- Record the setting address code on the system scheme.
- Turn on power switches of outdoor unit in advance, and keep connected for above 12 hours so that heater heating up refrigerant oil in compressor.
- Turn on all valves. If the above valves do not be turned on totally, the unit should be damaged.
- Check whether the power phase sequence of outdoor unit is correct.

- All dial switch of indoor and outdoor units have been set according to the Technical Requirement of Product.

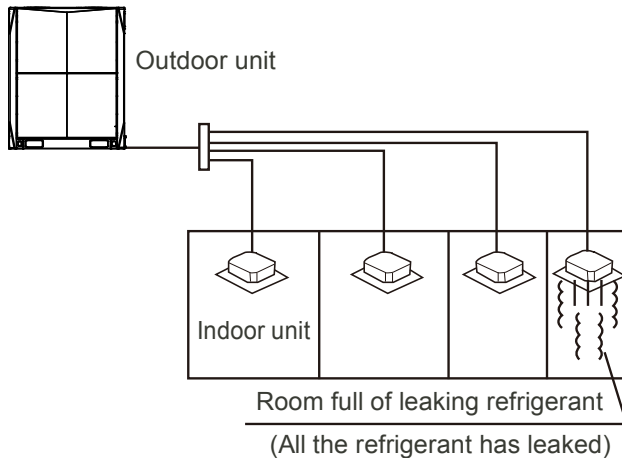
13.3 Fill the name of connected system

To clearly identify the connected systems among two or more indoor units and outdoor units, select names for every system and record them on the nameplate on the outdoor electric control box cover.



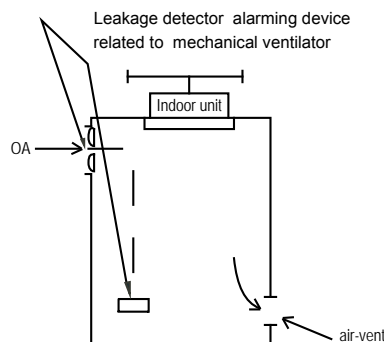
13.4 Caution on refrigerant leakage

- This air conditioner adopts R410A as refrigerant, which is safe and noncombustible.
- The room for air conditioner should be big enough that refrigerant leakage cannot reach the critical thickness. Besides this, you can take some action on time.
- R410A critical thickness: 0.3 kg/m³(0.02lbs./ft³), (Critical thickness: the max thickness of Freon without any harm to person)



- Calculate the critical thickness through following steps, and take necessary actions.
 - Calculate the refrigerant charge A
 - Total refrigerant charge = delivered refrigerant charge (nameplate) + supplemental refrigerant charge
 - Calculate the indoor volume (B) (as the minimum volume)
 - Calculate the refrigerant thickness.

$$A/B \leq \text{critical thickness } 0.3\text{kg/m}^3(0.02\text{lbs./ft}^3)$$
- Countermeasure to over-high refrigerant thickness
 - Install mechanical ventilator to reduce the refrigerant thickness under critical level. (Ventilate regularly)
 - Install leakage detector alarming device related to mechanical ventilator if you cannot regularly ventilate.



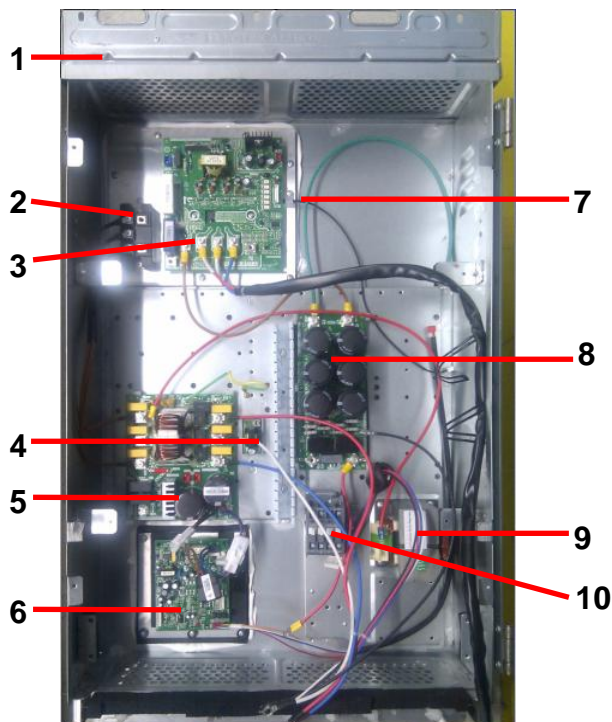
Part 5 Troubleshooting

1. Outdoor electric control box assembly instructions.....	150
2. Outdoor main control board instructions.....	151
3. Error code table	159
4. Troubleshooting.....	161

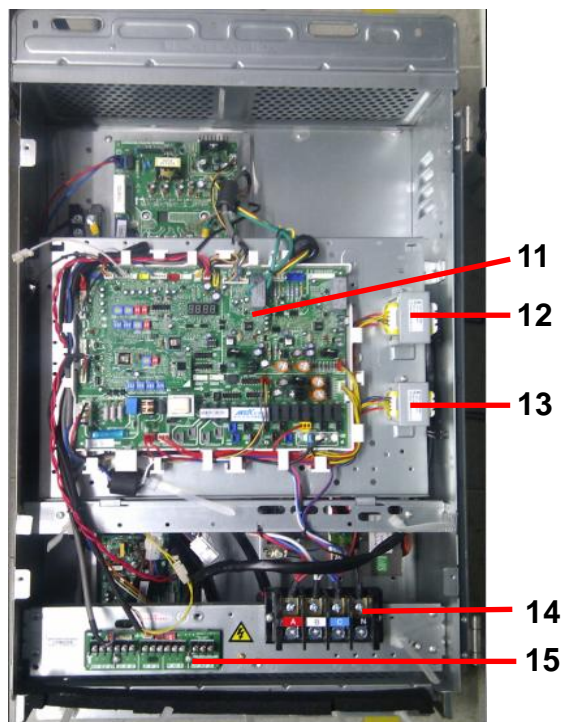
1. Outdoor electric control box assembly instructions

8/10/12HP

Bottom layer of electric control box



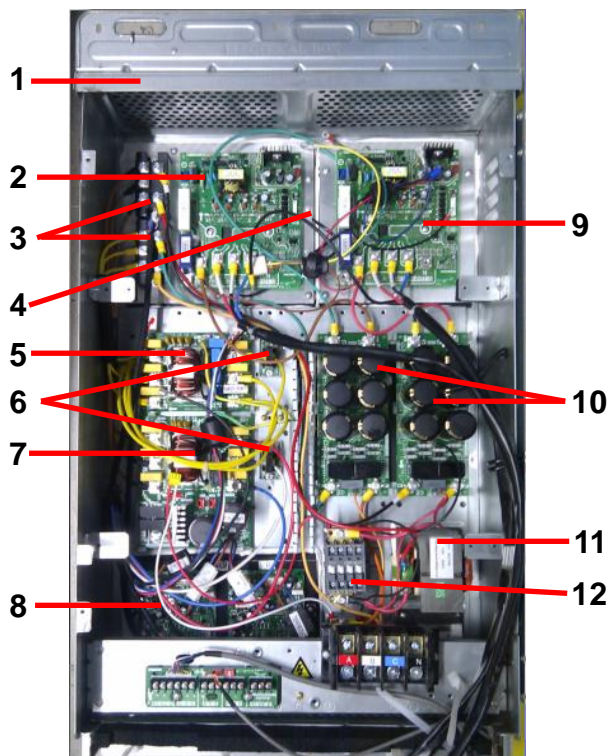
Top layer of electric control box



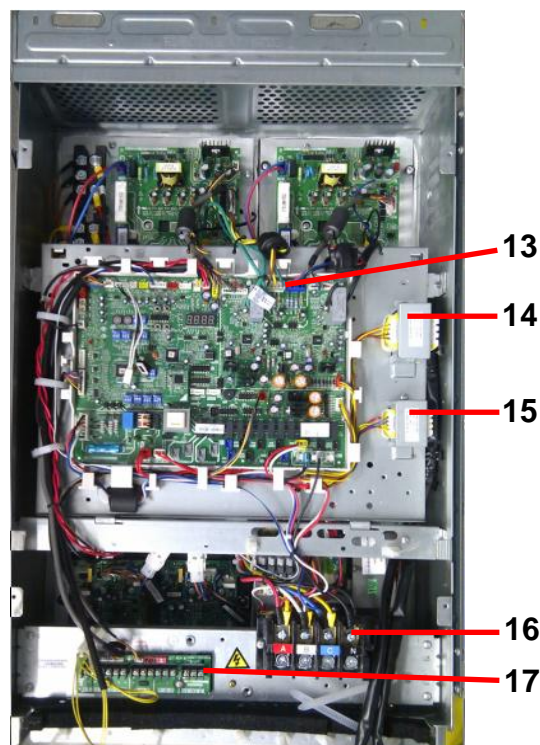
No.	Content
1	Electric control box assembly
2	Three phase bridge rectifier
3	Inverter module
4	Outdoor current detection board
5	Outdoor power supply board
6	DC fan module
7	Temperature sensor
8	Filter board
9	Reactor
10	Contactor
11	Main PCB
12	Power transformer
13	Power transformer
14	Terminal block, 4P
15	Intermediate adapter board

14/16/18/20/22HP

Bottom layer of electric control box



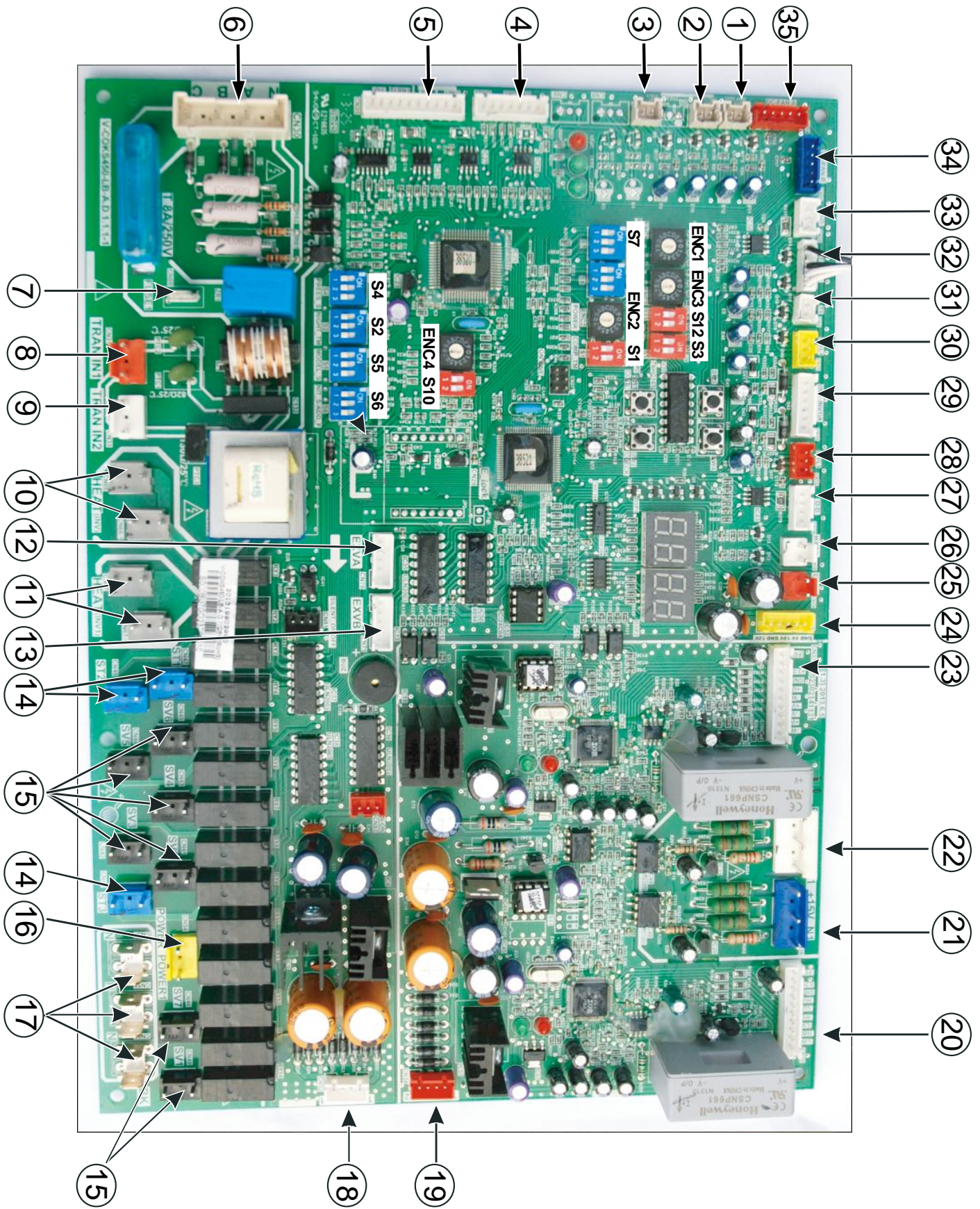
Top layer of electric control box



No.	Content
1	Electric control box assembly
2	Inverter module
3	Three phase bridge rectifier
4	Temperature sensor
5	Outdoor power supply board
6	Outdoor current detection board
7	Outdoor power supply board
8	DC fan module
9	Inverter module
10	Filter board
11	Reactor
12	Contactor
13	Main PCB
14	Power transformer
15	Power transformer
16	Terminal block, 4P
17	Intermediate adapter board

2. Outdoor main control board instructions

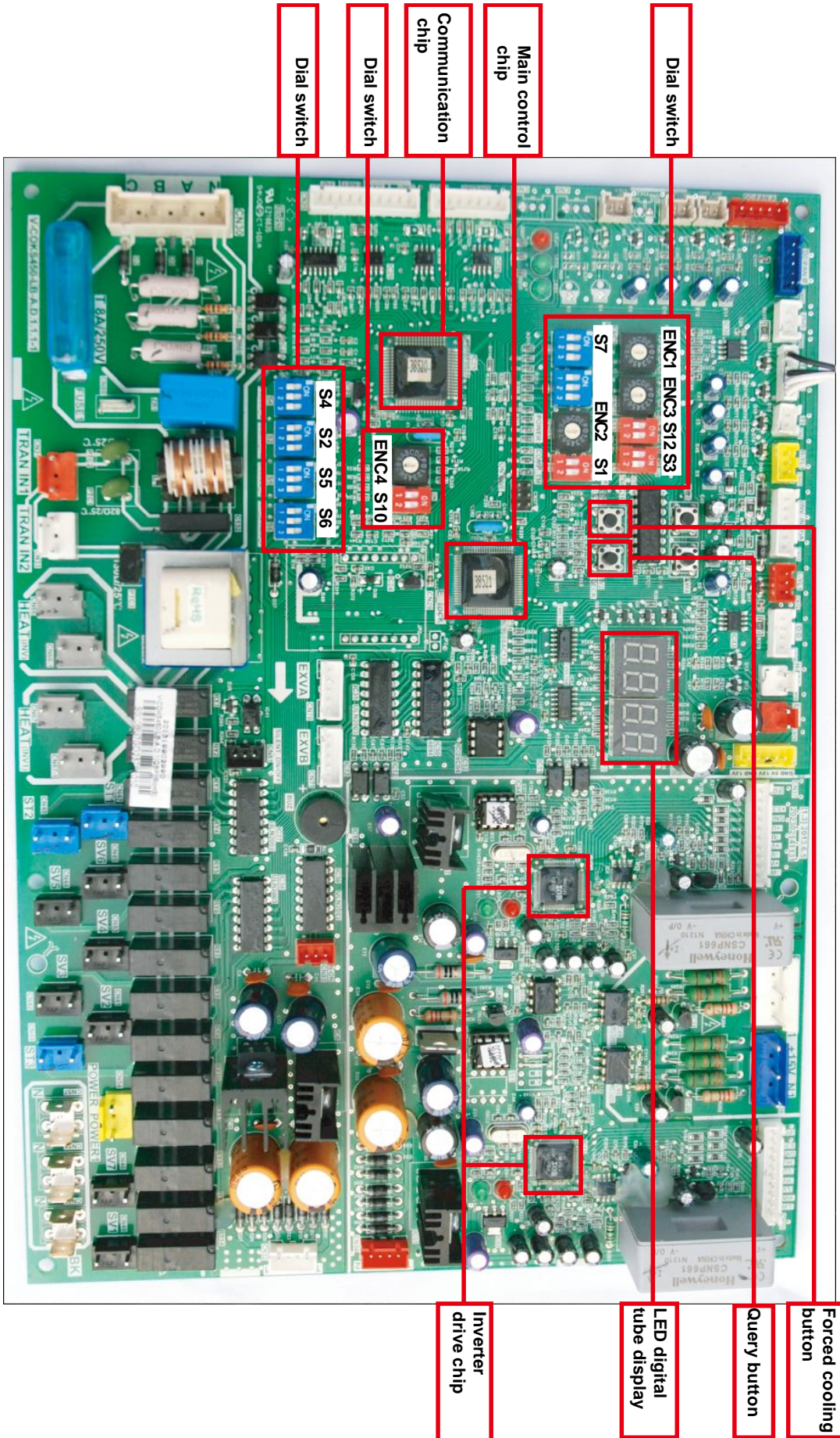
2.1 Main PCB ports instructions



Outdoor main PCB ports instructions

No.	Port code	Content	Port voltage
1	CN10	Discharge temperature detection port of inverter compressor A	DC 0~5V (in dynamic change)
2	CN11	Discharge temperature detection port of inverter compressor A or B	DC 0~5V (in dynamic change)
3	CN4	Temperature detection port of inverter module	DC 0~5V (in dynamic change)
4	CN26	Reserved	/
5	CN25	Wiring port for communication between indoor and outdoor units, indoor unit network, outdoor unit network and network accounting	DC 2.5~2.7V
6	CN30	Three-phase detection port	380V
7	CN80	Reserved	/
8	CN31	Power input of No.1 transformer	220V
9	CN33	Power input of No.2 transformer	220V
10	CN66	Heat output of inverter compressor A electrical heater	220V
11	CN67	Heat output of inverter compressor B electrical heater	220V
12	CN70	Drive port of EXV A	The first pin on left: DC 12V
13	CN71	Drive port of EXV B	The other four pins: in dynamic change
14	CN47-CN49	Four-way valve output port	220V
15	CN41-CN45	One-way valve output port	220V
16	CN54	Power output port	220V
17	CN57-CN59	Null line terminal	0
18	CN32	Power output of No.1 transformer	The voltage between upper tow pins: AC 13.5V; The voltage between under tow pins: AC 9V
19	CN34	Power output of No.2 transformer	The voltage between upper tow pins: AC 14.5V; The voltage between under tow pins: AC 14.5V
20	CN39	Activation port of inverter module B	The third pin on the left: DC3.3V
21	CN38	Voltage detection port of inverter module B	DC 540V, +15V, N
22	CN36	Voltage detection port of inverter module A	DC 540V, +15V, N
23	CN37	Activation port of inverter module A	The third pin on the left: DC3.3V
24	CN35	Power supply port of main PCB	GND, +5V, +12V, GND, 12V
25	CN19	ON/OFF signal input port for system low pressure detection	0 or 5V
26	CN18	ON/OFF signal input port for system high pressure detection	0 or 5V
27	CN28	Reserved	/
28	CN16	Reserved	/
29	CN15	Current detection port of inverter compressor A and B	AC 0~7.8V (in dynamic change)
30	CN17	Input port for system high pressure detection	DC 0~5V (in dynamic change)
31	CN2	Reserved	/
32	CN1	Outdoor ambient temperature and condenser temperature detection port	DC 0~5V (in dynamic change)
33	CN20	Outdoor units communication port	DC 2.5~2.7V
34	CN65	Control port of DC fan B	The first pin on left: DC 12V
35	CN64	Control port of DC fan A	The other four pins: in dynamic change

2.2 Main PCB parts instructions



2.2.1 Query content instructions

No.	Normal display	Content (present frequency)	Note
1	0 - -	Outdoor unit address	Master unit: 0; slave unit: 1, 2, 3.
2	1 - -	Outdoor unit capacity	Refer to note 1
3	2 - -	Outdoor unit quantity	Available for master unit
4	3 - -	Setting quantity of indoor unit	Available for master unit
5	4 - -	Total capacity of outdoor units	Available for master unit
6	5 - -	Total capacity requirement of indoor units	Capacity requirements
7	6 - -	Total correct capacity requirement of master unit	Capacity requirements
8	7 - -	Running mode	Refer to note 2
9	8 - -	Actual running capacity of this outdoor unit	Capacity requirement
10	9 - -	Fan A speed	Refer to note 3
11	10 - -	Fan B speed	Refer to note 3
12	11 - -	T2B/T2 average temperature	Actual value=display value
13	12 - -	T3 pipe temperature	Actual value=display value
14	13 - -	T4 ambient temperature	Actual value=display value
15	14 - -	Discharge temperature of inverter compressor A	Actual value=display value
16	15 - -	Discharge temperature of inverter compressor B	Actual value=display value
17	16 - -	Main inverter module temperature	Actual value=display value
18	17 - -	Saturation temperature corresponding to the discharge pressure	Actual value=display value+30
19	18 - -	Current of inverter compressor A	Actual value=display value
20	19 - -	Current of inverter compressor B	Actual value=display value
21	20 - -	Opening degree of EXVA	Pulse value=display value×8
22	21 - -	Opening degree of EXVB	Pulse value=display value×8
23	22 - -	High pressure	Actual value=display value×0.1MPa
24	23 - -	Low pressure (Reserved)	/
25	24 - -	Quantity of indoor units which are communicated with master unit	Actual value=display value
26	25 - -	Quantity working indoor unit	Actual value=display value
27	26 - -	Priority mode	Refer to note 4
28	27 - -	Silent mode	Refer to note 5
29	28 - -	Static pressure mode	Refer to note 6
30	29 - -	DC voltage A	Actual value=display value×10
31	30 - -	DC voltage B	Actual value=display value×10
32	31 - -	Reserved	/
33	32 - -	The last error or protection code	Display 000 if it has no error or protection
34	33 - -	Error clearance time	Actual value=display value
35	34 - -	----	End


















Note:





















When the outdoor unit is in standby, the first two numbers on LED digital tube will display the address of the outdoor unit, and the last two numbers display the indoor unit's quantity which can communicate with outdoor unit. When the outdoor unit is operating, it will display the rotation frequency of the compressor.

1. Outdoor unit capacity setting: 0—8HP; 1—10HP; 2—12HP; 3—14HP; 4—16HP; 5—18HP; 6—20HP; 7—22HP.
2. Running mode: 0—OFF; 2—cooling mode; 3—heating mode; 4—forced cooling mode.
3. Fan speed: 0—stop; 1~15—fan speed sequentially increase.

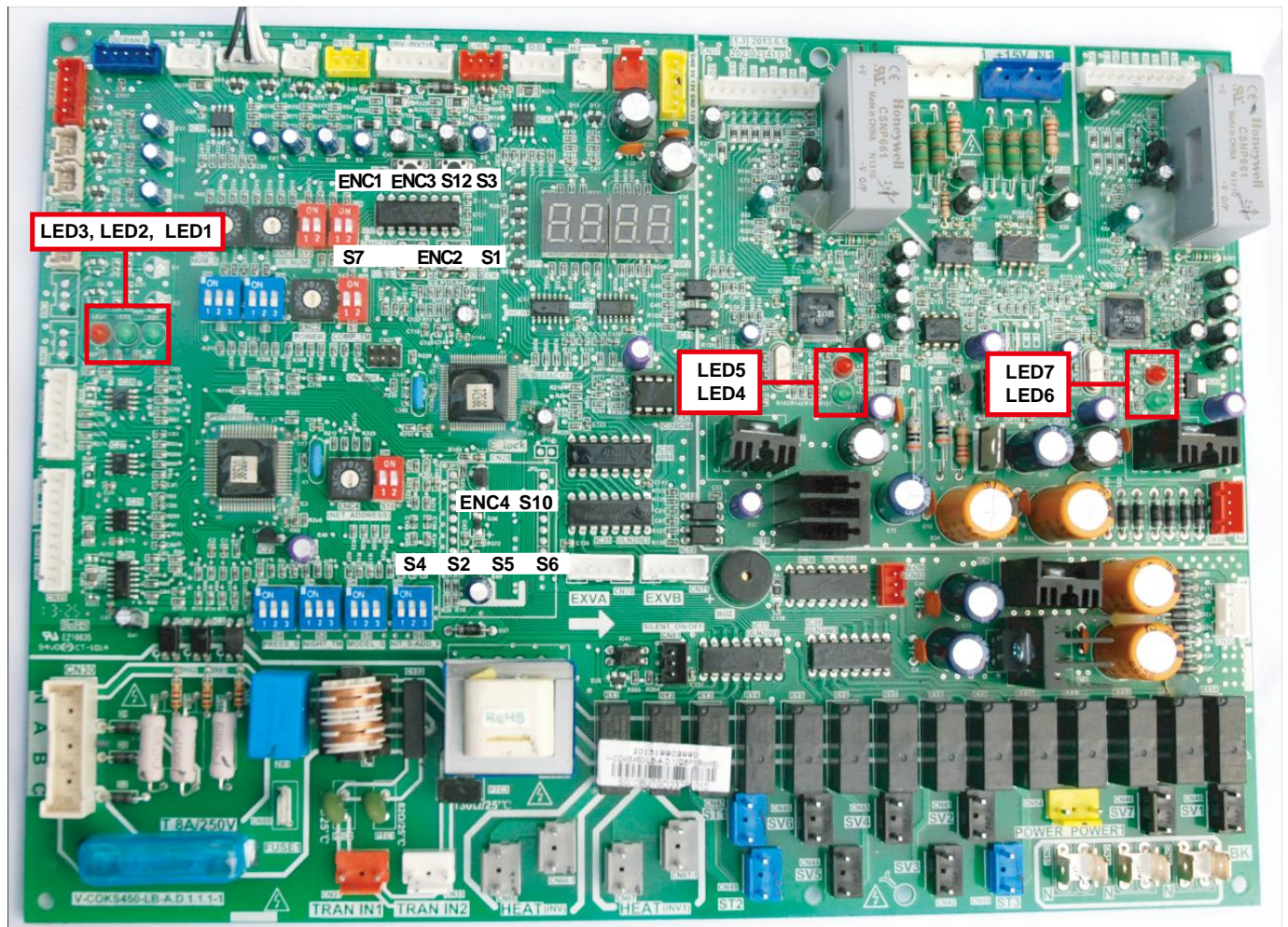
4. Priority mode: 0—heating priority mode; 1—cooling priority mode; 2—VIP (address no. 63) priority mode or voting priority mode; 3—heating only priority mode; 4—cooling only priority mode.
5. Silent mode: 0—night silent mode; 1—silent mode; 2—super silent mode; 3—no silent mode.
6. Static pressure mode: 0—none static pressure; 1—low static pressure; 2—medium static pressure; 3—high static pressure.

2.2.2 Dial switch setting

S1: Starting time setting	
	Starting time is 10 minutes
	Starting time is 12 minutes (default)
S2: Night silent time setting	
	Night silent time is 6h/10h (default)
	Night silent time is 6h/12h
	Night silent time is 8h/10h
	Night silent time is 8h/12h
S3: Silent mode selection	
	Night silent mode (default)
	Silent mode
	Super silent mode.
	None silent mode.
S4: Static pressure mode selection	
	None static pressure(default)
	Low static pressure mode (reserved, can be customized)
	Medium static pressure mode (reserved, can be customized)
	High static pressure mode (reserved, can be customized)
S5: Priority mode selection	
	Heating priority mode (de fault)
	Cooling priority mode
	VIP (address no. 63) priority mode or voting priority mode

	Heating only priority mode
	Cooling only priority mode
S6: Auto addressing mode selection	
	Auto addressing
	None auto addressing (default)
	Clean the indoor unit address
S7: Set the indoor units' numbers selection	
	No need to set the numbers of indoor units (default)
	Need to set the numbers of indoor units
S8: Reserved	
	
S10: Reserved	
	
ENC3+S12: Indoor unit quantity setting	
	 The quantity of indoor unit is 0-15 0~9 on ENC3 refer to 0~9 indoor units; A~F on ENC3 refer to 10~15 indoor units.
	 The quantity of indoor unit is 16-31 0~9 on ENC3 refer to 16~25 indoor units; A~F on ENC3 refer to 26~31 indoor units.
	 The quantity of indoor unit is 32-47 0~9 on ENC3 refer to 32~41 indoor units; A~F on ENC3 refer to 42~47 indoor units.
	 The quantity of indoor unit is 48-63 0~9 on ENC3 refer to 48~57 indoor units; A~F on ENC3 refer to 58~63 indoor units.
ENC1: Outdoor unit address setting	
	Only 0, 1, 2, 3 are available. 0 is for master unit; 1, 2, 3 are for slave units
ENC2: Outdoor unit capacity setting	
	Only 0, 1, 2, 3, 4, 5, 6, 7 are available. 0: 8HP; 1: 10HP; 2: 12HP; 3: 14HP; 4: 16HP; 5: 18HP; 6: 20HP; 7: 22HP.
ENC4: Network address setting	
	Only 0, 1, 2, 3, 4, 5, 6, 7 are available.

2.3 LED on main control board instructions



LED1: Power supply indicator lamp. The lamp will be on if the power supply is normal.

LED2: Running indicator lamp. The lamp will be on if the system running is normal.

LED3: Malfunction indicator lamp of network centralized control chip. The lamp will flash if three-phase sequence protection or communication errors (communication between indoor units and outdoor units, communication among indoor units, communication among chips).

LED4: Running indicator lamp of inverter module. The lamp will be on if the compressor is running.

LED5: Malfunction indicator lamp of inverter module. LED5 will be on and the LED4 will flash if the inverter module is faulty and the error code will display on digital tube by press query button.

LED6: Running indicator lamp of inverter module. The lamp will be on if the compressor is running.

LED7: Malfunction indicator lamp of inverter module. LED7 will be on and the LED6 will flash if the inverter module is faulty and the error code will display on digital tube by press query button.

3. Error code table

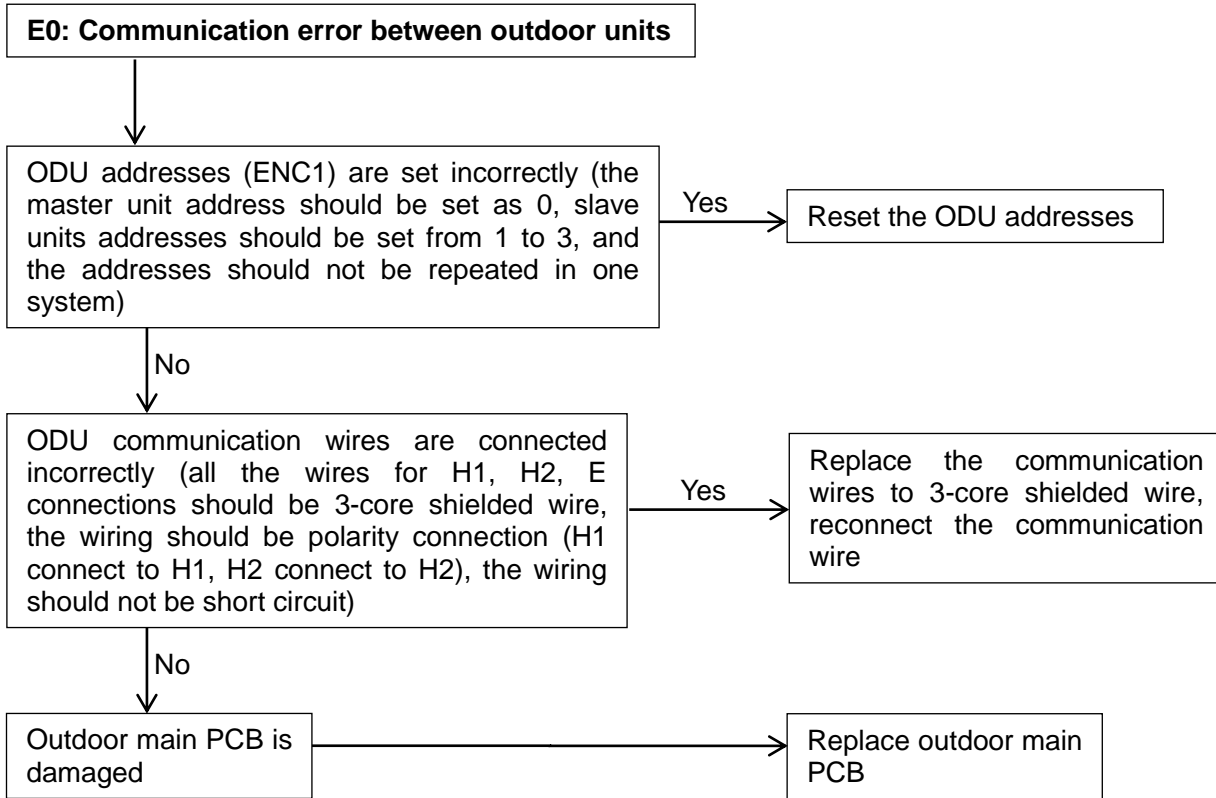
Error code	Content	Note
E0	Communication error between outdoor units	Only display on the faulty slave unit, all the ODUs are in standby.
E1	Phase sequence error	Display on the faulty unit, all the ODUs are in standby.
E2	Communication error between indoor units and the master unit.	Only display on the master unit, all the ODUs are in standby.
E3	Reserved	/
E4	Outdoor ambient temperature sensor (T4) error	Display on the faulty unit, all the ODUs are in standby.
E5	Power voltage error	Display on the faulty unit, all the ODUs are in standby.
E6	Reserved	/
E7	Discharge temp sensor error	Display on the faulty unit, all the ODUs are in standby.
E8	Outdoor unit address is wrong	Display on the faulty slave unit, all the ODUs are in standby.
xE9	Driver model is mismatched	When x is 1, it means A system; 2 means B system
xH0	Communication error between main control chip and inverter driver chip (IR341)	Display on the faulty unit, all the ODUs are in standby.
H1	Communication error between main control chip and communication chip (0537)	Display on the faulty unit, all the ODUs are in standby.
H2	Quantity of outdoor unit decreased	Display on the master unit, all the ODUs are in standby.
H3	Quantity of outdoor unit increased	Display on the master unit, all the ODUs are in standby.
xH4	P6 protection appears three times in 60 minutes	Display on the faulty unit, all the ODUs are in standby. Cannot be recovered until re-power on.
H5	P2 protection appears three times in 60 minutes	Display on the faulty unit, all the ODUs are in standby. Cannot be recovered until re-power on.
H6	P4 protection appears three times in 100 minutes	Display on the faulty unit, all the ODUs are in standby. Cannot be recovered until re-power on.
H7	Quantity of indoor unit decreased	Display on the master unit, all the ODUs are in standby. Cannot be recovered until unit quantity recover.
H8	High pressure sensor error	The discharge pressure $P_c \leq 0.3\text{MPa}(43.5\text{PSI})$
H9	P9 protection appears three times in 60 minutes	Display on the faulty unit, all the ODUs are in standby. Cannot be recovered until re-power on.
Hc	Reserved	/
F0	PP protection appears three times in 150 minutes	Display on the faulty unit, all the ODUs are in standby. Cannot be recovered until re-power on.
C7	PL protection appears three times in 100 minutes	Display on the faulty unit, all the ODUs are in standby. Cannot be recovered until re-power on.
yHd	Slave units malfunction	Y stands for corresponding slave unit, y=1, 2, 3.
P0	Top temperature protection of inverter compressor	Display on the faulty unit, all the ODUs are in standby.
P1	High pressure protection	Display on the faulty unit, all the ODUs are in standby.
P2	Low pressure protection	Display on the faulty unit, all the ODUs are in standby.
xP3	Over current protection of compressor	Display on the faulty unit, all the ODUs are in standby.
P4	Discharge temperature protection	Display on the faulty unit, all the ODUs are in standby.
P5	Condenser high temperature protection	Display on the faulty unit, all the ODUs are in standby.

xP6	Inverter module protection	When X is 1, it means A inverter module; 2 means B inverter module
P9	Fan module protection	Display on the faulty unit, all the ODUs are in standby.
PL	Temperature protection of inverter module	Display on the faulty unit, all the ODUs are in standby.
PP	Insufficient overheat degree protection of compressor discharge	Display on the faulty unit, all the ODUs are in standby.
xL0	Inverter module error	Display after P6 displaying for one minute
xL1	DC generatrix low voltage error	Display after P6 displaying for one minute
xL2	DC generatrix high voltage error	Display after P6 displaying for one minute
xL3	Reserved	/
xL4	MCE error/ synchronization/ closed loop	Display after P6 displaying for one minute
xL5	Zero speed protection	Display after P6 displaying for one minute
xL6	Reserved	/
xL7	Phase sequence error	Display after P6 displaying for one minute
xL8	Frequency difference in one second more than 15Hz protection	Display after P6 displaying for one minute
xL9	Frequency difference between the real and the setting frequency more than 15Hz protection	Display after P6 displaying for one minute

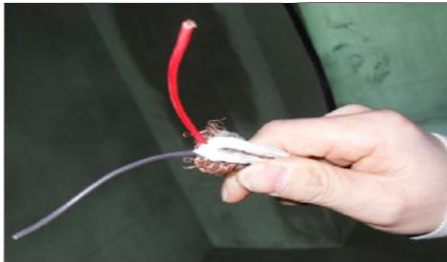
4. Troubleshooting

4.1 E0: Communication error between outdoor units

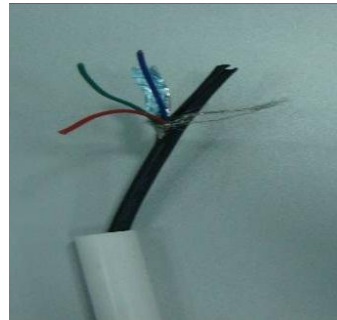
The error only display on faulty slave unit, all the ODU's will be standby.



2-core shielded wire (x)

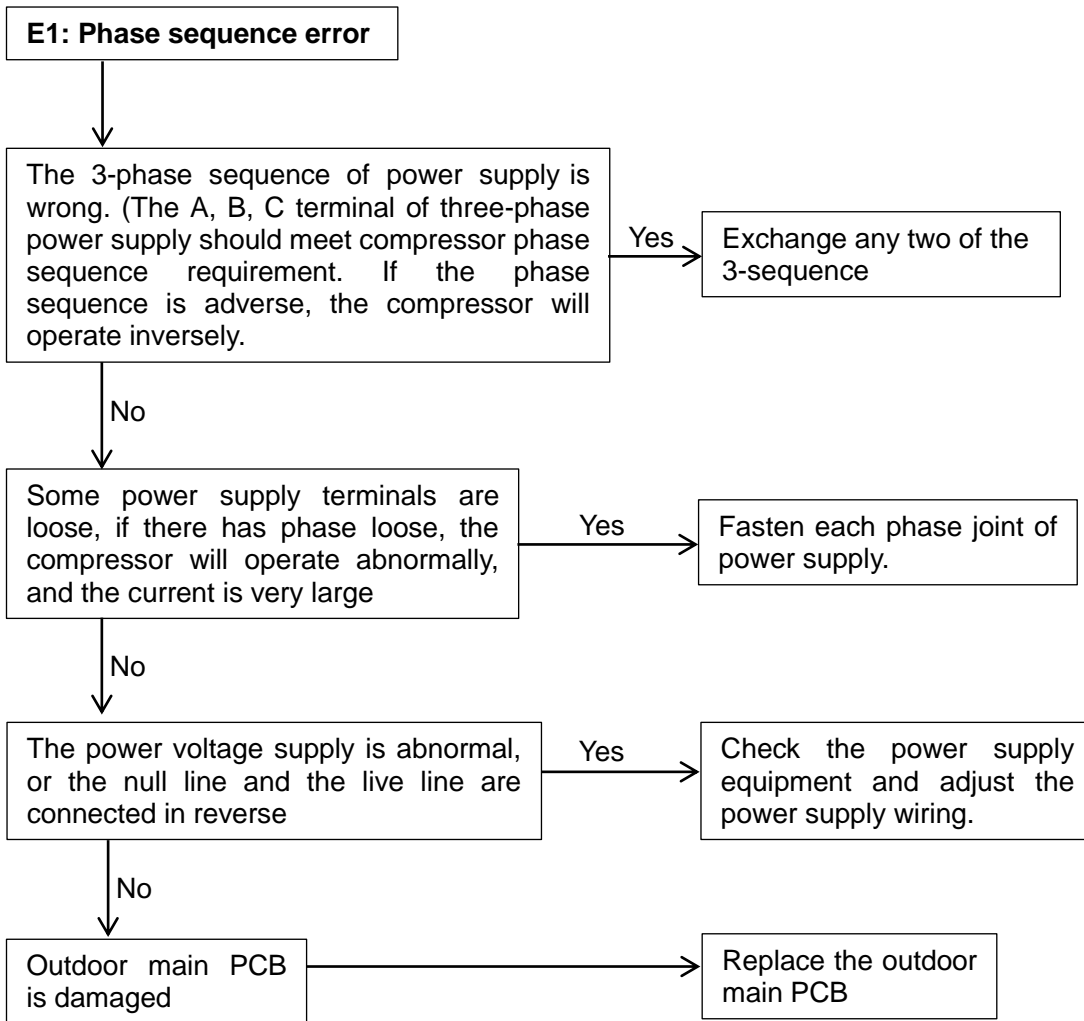


3-core shielded wire (✓)



4.2 E1: Phase sequence error

The error only display on faulty unit, all the ODU will be standby.

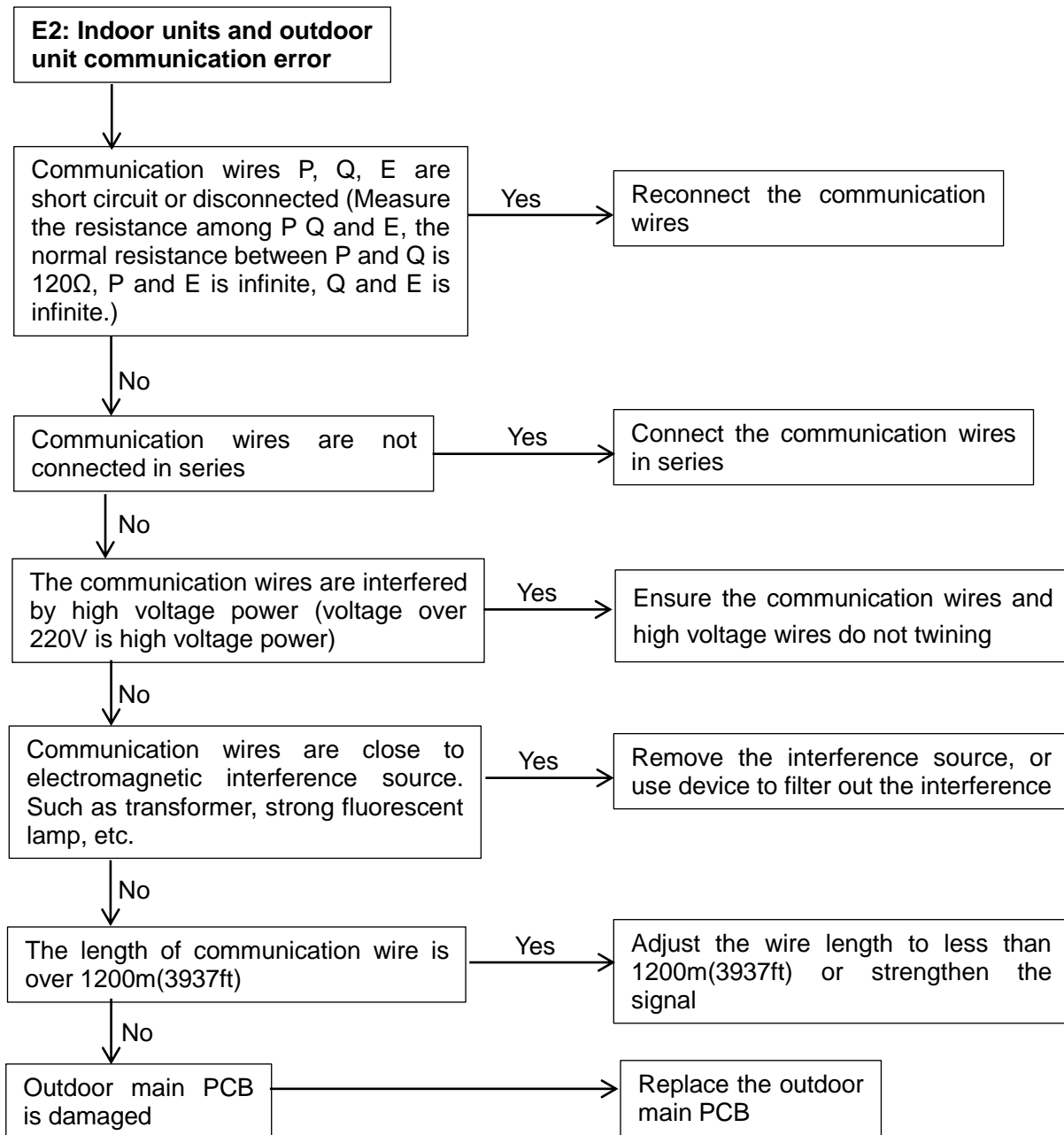


Note:

If the wiring connection of each outdoor unit is according to A, B, C phase sequence, when the quantity of outdoor units is large, the current difference between C phase and A, B phase will be very large for the power supply load of each outdoor unit is on C phase, it is very easy to lead to air switch break and wiring terminal burnout. So when the quantity of outdoor units is large, the phase sequence should be staggered, then the current can be distributed to the three phases equally.

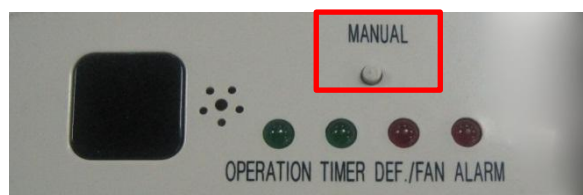
4.3 E2: Communication error between indoor units and the master unit

The error only display on faulty slave unit, all the ODU will be standby.



Note:

1. Press the manual button on display board of indoor unit for 5 seconds, the communication address code of indoor unit will display;



Codes are as follows:

Indicator light	Operation	Timer	Fan/defend cold fan	Warning
Code	8	4	2	1

Buzzer	Communication address	Four LED display
Not warning	00---15	Normally on
Not warning	16---31	Flash
Warning	32---47	Normally on
Warning	48---63	Flash

For example:

Press the manual button for 5 seconds:

- If the “Operation”, “Timer” and “DEF./FAN” lights are normally on and the buzzer is not warning, that means the address code is $14=(8+4+2)$
- If the four LED lights are flash and the buzzer isn't warning, the address code should plus 16, that means the address code is $30=16+(8+4+2)$
- If the “Operation”, “Timer” and “DEF./FAN” lights are normally on and the buzzer is warning, that means the address code is $46=32+(8+4+2)$
- If the four LED lights are flash and the buzzer is warning, that means the address code is $62=48+(8+4+2)$

2. Press the manual button on display board of indoor unit for 10 seconds, the capacity code of indoor unit will display;

Dial code	Capacity (×100W)	Capacity (Btu/h)	Capacity (HP)
0	22	7510	0.8
1	28	9550	1.0
2	36	12280	1.2
3	45	15350	1.6
4	56	19110	2.0
5	71	24230	2.5
6	80	27300	3.0
7	90	30710	3.2
8	112	38210	4.0
9	140	47770	5.0
A	160	54590	6.0
B	160	54590	6.0
C	160	54590	6.0
D	160	54590	6.0
E	160	54590	6.0
F	160	54590	6.0

For example

Press the manual button for 10 seconds

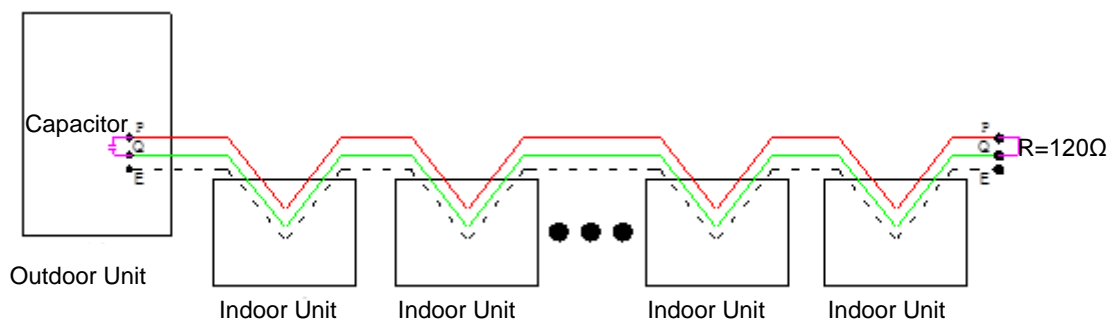
- If all the LED lights turn off, that means the capacity code is 0 and the capacity of indoor units is $22 \times 100W(7510Btu/h)$;
- If the “Timer” and “Alarm” lights are normally on, that means the capacity code is $5=(4+1)$ and the capacity of indoor unit is $71 \times 100W(24230Btu/h)$;
- If the “Operation” and “Alarm” lights are normally on, that means the capacity code is $9=(8+1)$ and the capacity of indoor unit is $140 \times 100W(47770Btu/h)$;
- If all the LED lights turn on, that means the capacity code is $F=(8+4+2+1)$ and the capacity of indoor unit is $160 \times 100W(54590Btu/h)$.

The above basic principle just applies to single PCB, if the indoor unit has more than one PCB, or one PCB can achieve a virtual multi blocks function, you must use the basic principle to Calculate the achievable capacity of single PCB at first, then add all the value as the capacity of the indoor unit .

For example

- The high static pressure duct have capacity of $20kW(68240Btu/h)$, $25kW(85300Btu/h)$, $28kW(95540Btu/h)$ and larger capacity of $40kW(136480Btu/h)$, $45kW(153540Btu/h)$, $56kW(191070Btu/h)$.
- The “Operation” light is normally on, that means the capacity code is 8 and the achievable capacity of single PCB is $112 \times 100W(38210Btu/h)$, then add the value of two PCB, so the capacity of indoor unit is $220 \times 100W(75060Btu/h)$;
- The “Operation” and “Alarm” lights are normally on, that means the capacity code is $9=(8+1)$ and the achievable capacity of single PCB is $140 \times 100W(47770Btu/h)$, then add the value of two PCB, so the capacity of indoor unit is $280 \times 100W(95540Btu/h)$;
- The “Operation” light is normally on, that means the capacity code is 8 and the achievable capacity of single PCB is $112 \times 100W(38210Btu/h)$, then add the value of four PCB, so the capacity of indoor unit is $450 \times 100W(153540Btu/h)$;
- The “Operation” and “Alarm” lights are normally on, that means the capacity code is $9=(8+1)$ and the achievable capacity of single PCB is $140 \times 100W(47770Btu/h)$, then add the value of four PCB, so the capacity of indoor unit is $560 \times 100W(191070Btu/h)$.

3. If the signal is weak, connect a 120Ω resistor between P and Q of the farthest indoor unit, or connect a $0.5-1.5\mu F$ capacitor between P and Q of outdoor unit. Installation refers to the following picture:



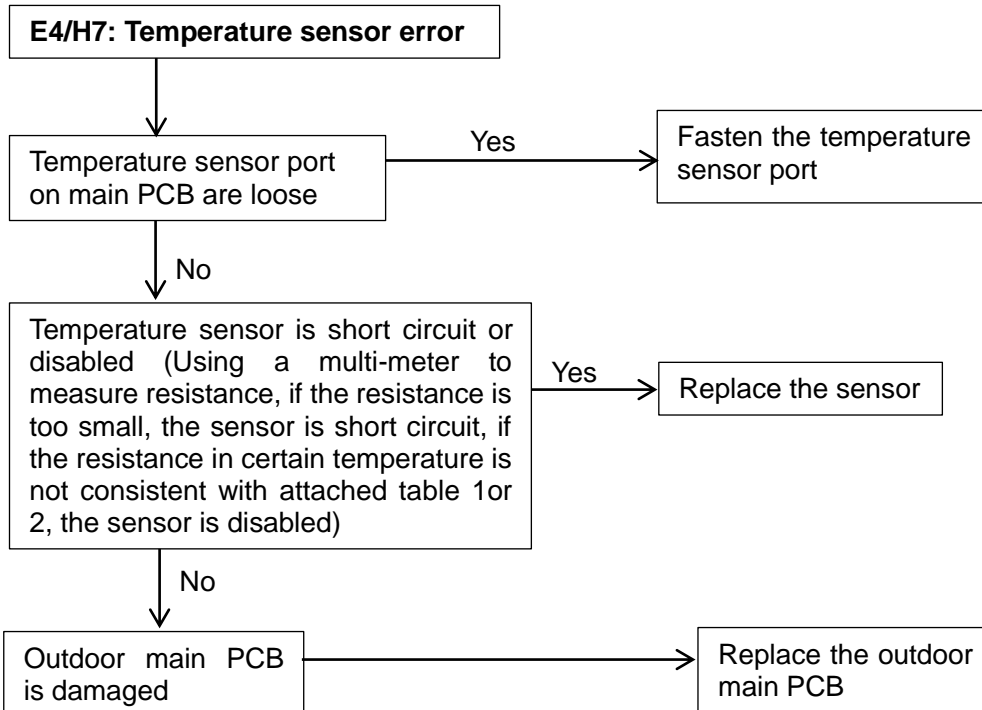
Note:

Communication wires should be shield wire and indoor units should be connected in series.

4.4 E4: Outdoor ambient temperature sensor (T4) error

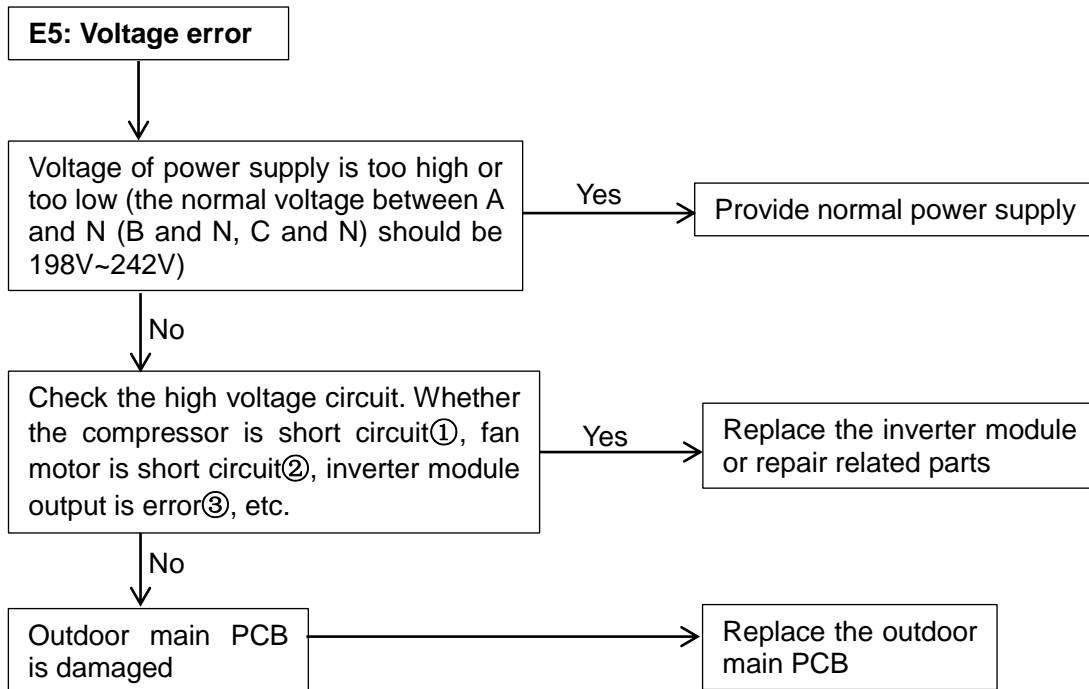
E7: Discharge temperature sensor error

The error only display on faulty unit, all the ODU will be standby.



4.5 E5: Power voltage error

The error only display on faulty unit, all the ODU will be standby.



Note:

1. How to check whether the compressor is short circuit①:

The normal resistance value of inverter compressor among U V W is 0.7~1.5Ω, and infinity to earth. If the resistance value is out of the range, the compressor is abnormal.

2. How to check whether the fan motor is short circuit②:

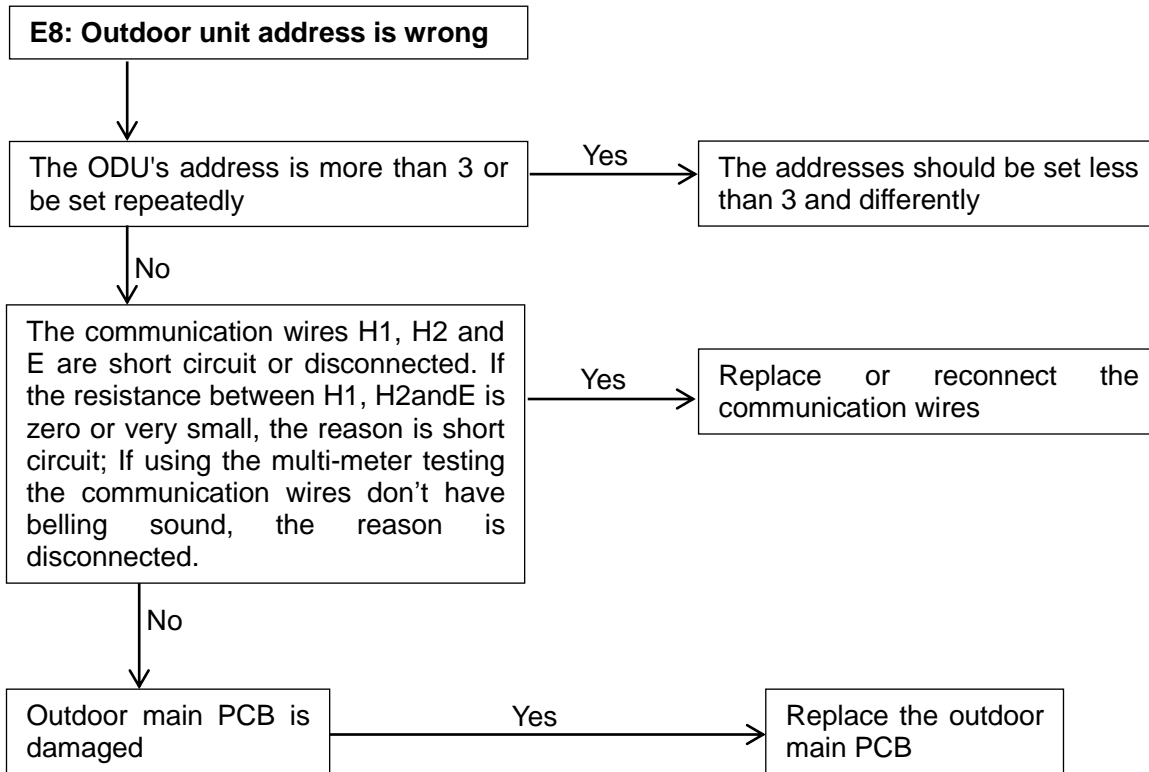
The normal value of DC fan motor coil among U V W is less than 10Ω. If the measured value is 0Ω, the fan motor is short circuit.

3. How to check whether the inverter module output is error③:

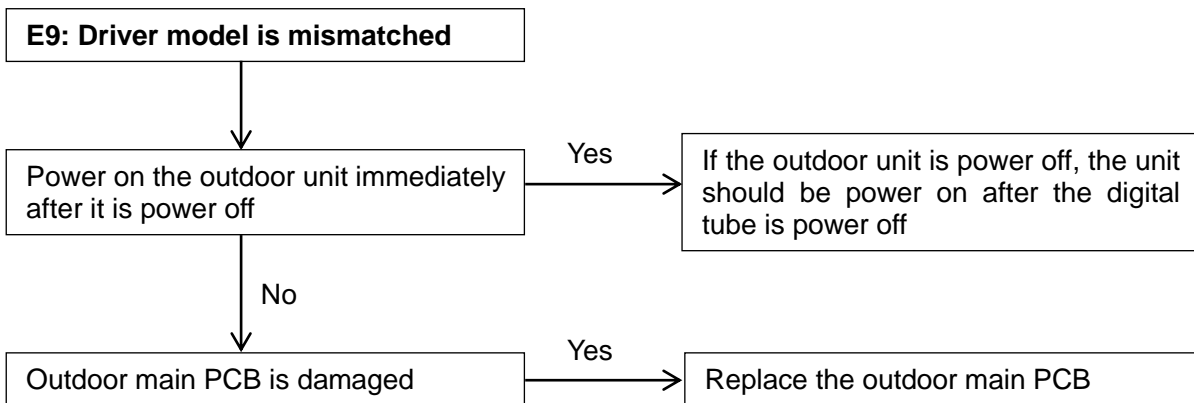
Let PN and U V W of inverter module short circuit, then dial multi-meter to buzzer file, if the multi-meter is ring, the inverter module output is error.

4.6 E8: Outdoor unit address is wrong

The error only display on faulty slave unit, all the ODU will be standby.



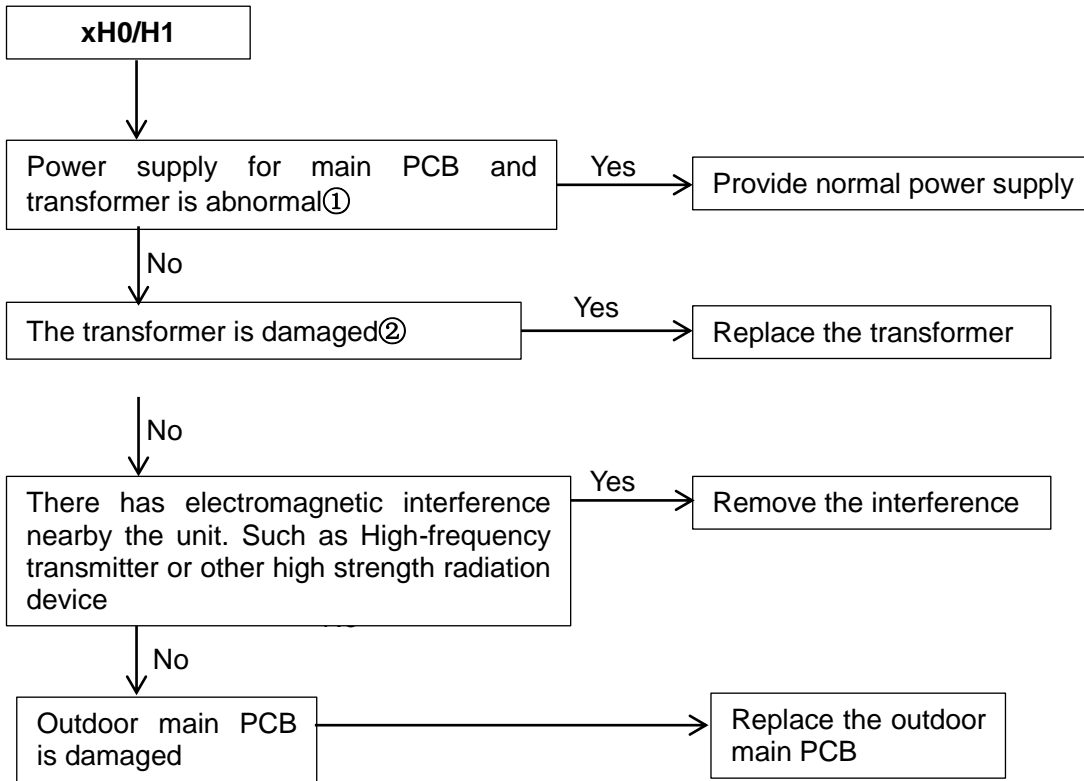
4.7 xE9: Driver model is mismatched (When x is 1, it means A system; 2 means B system)



4.8 xH0: Communication error between main control chip and inverter driver chip (IR341)

H1: Communication error between main control chip and communication chip (0537)

The error only display on faulty unit, all the ODU will be standby.



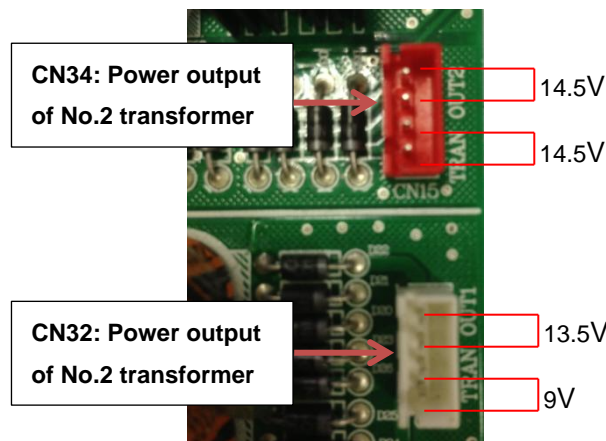
Note:

1. How to check whether power supply for transformer is abnormal①

Check the voltage of 8(CN31), 9(CN33) and 24(CN35) terminals. The normal voltage of 8(CN31) and 9(CN33) terminals should be 220V, the voltage between “GND” and “5V” of 24(CN35) terminal should be 5V, the voltage between “GND” and “12V” of 24(CN35) terminal should be 12V. If the voltage is out of the range, the power supply for main PCB and transformer is abnormal.

2. How to check whether the transformer is disabled②

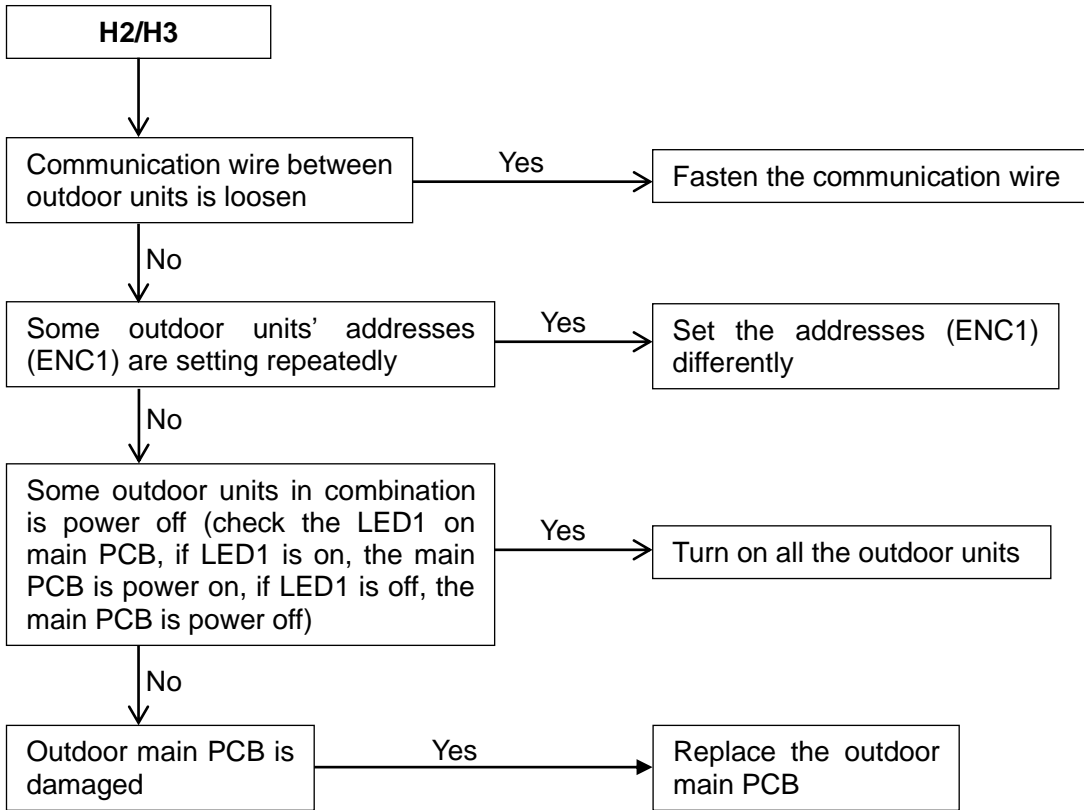
The voltage between upper tow pins of 18(CN32) terminal is AC 13.5V; the voltage between under tow pins of 18(CN32) terminal is AC 9V. The voltage between upper tow pins of 19(CN34) terminal is AC 14.5V; the voltage between under tow pins of 19(CN34) terminal is AC 14.5V



4.9 H2: Quantity of outdoor unit decreased;

H3: Quantity of outdoor unit increased

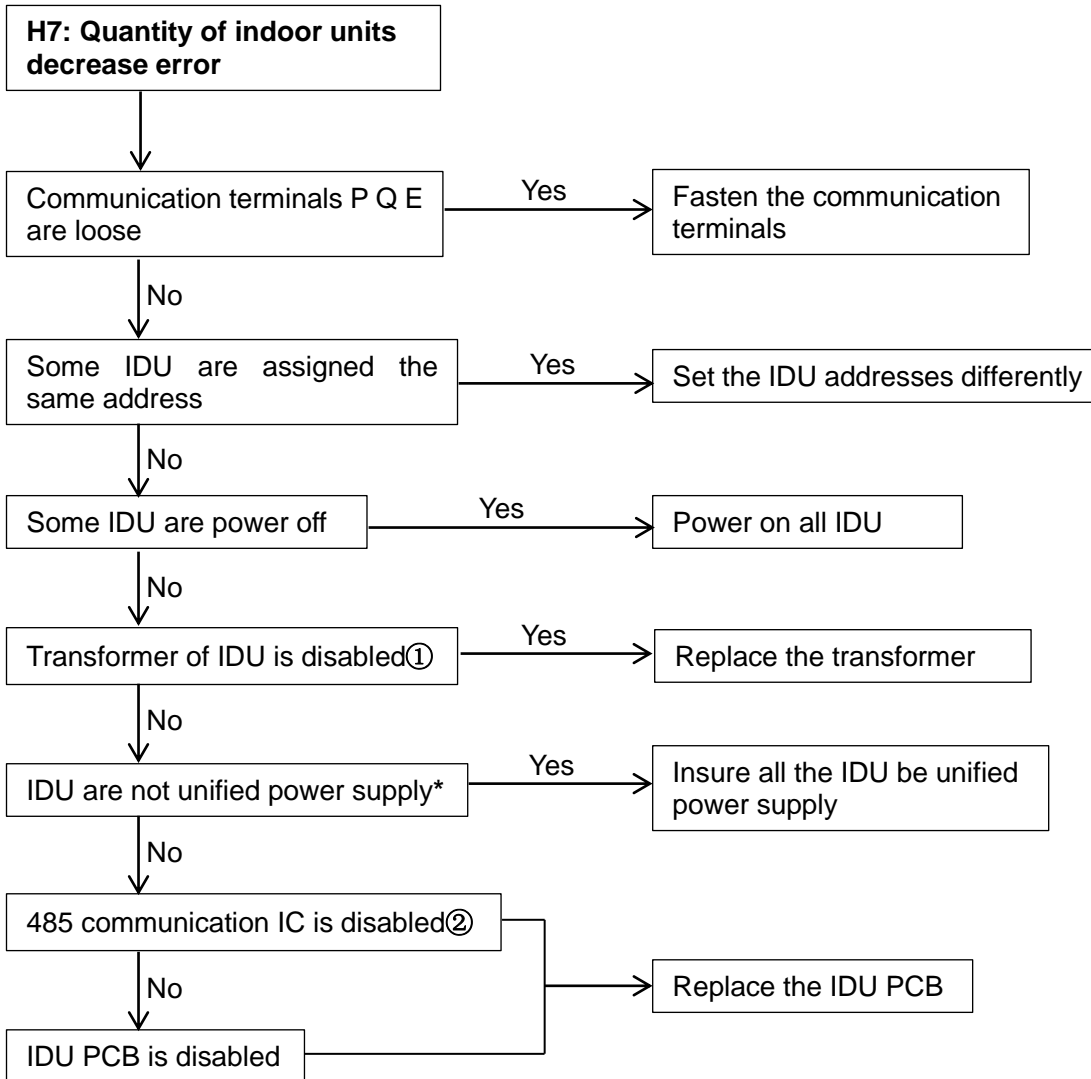
The error only display on master unit, all the ODU will be standby.



Note: All the outdoor units should be unified power supply. If the outdoor units are not unified power supply, once some outdoor unit is power off, other outdoor units are still running, it may cause system unbalance and damage devices.

4.10 H7: Quantity of indoor units decrease error

The error only display on master unit, all the ODU will be standby. It will display when the quantity of indoor units decrease above 3 minutes.



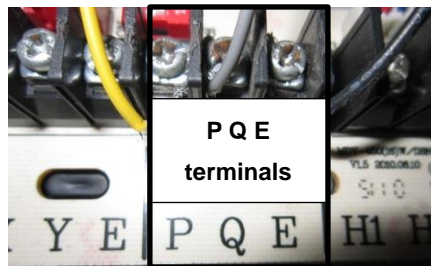
Note:

1. How to check whether the transformer of IDU is disabled①

The voltage input of IDU transformer is 220V, the voltage output is AC9V (yellow-yellow) and AC13.5V (brown-brown).

2. How to check whether the 485 communication IC is disabled②

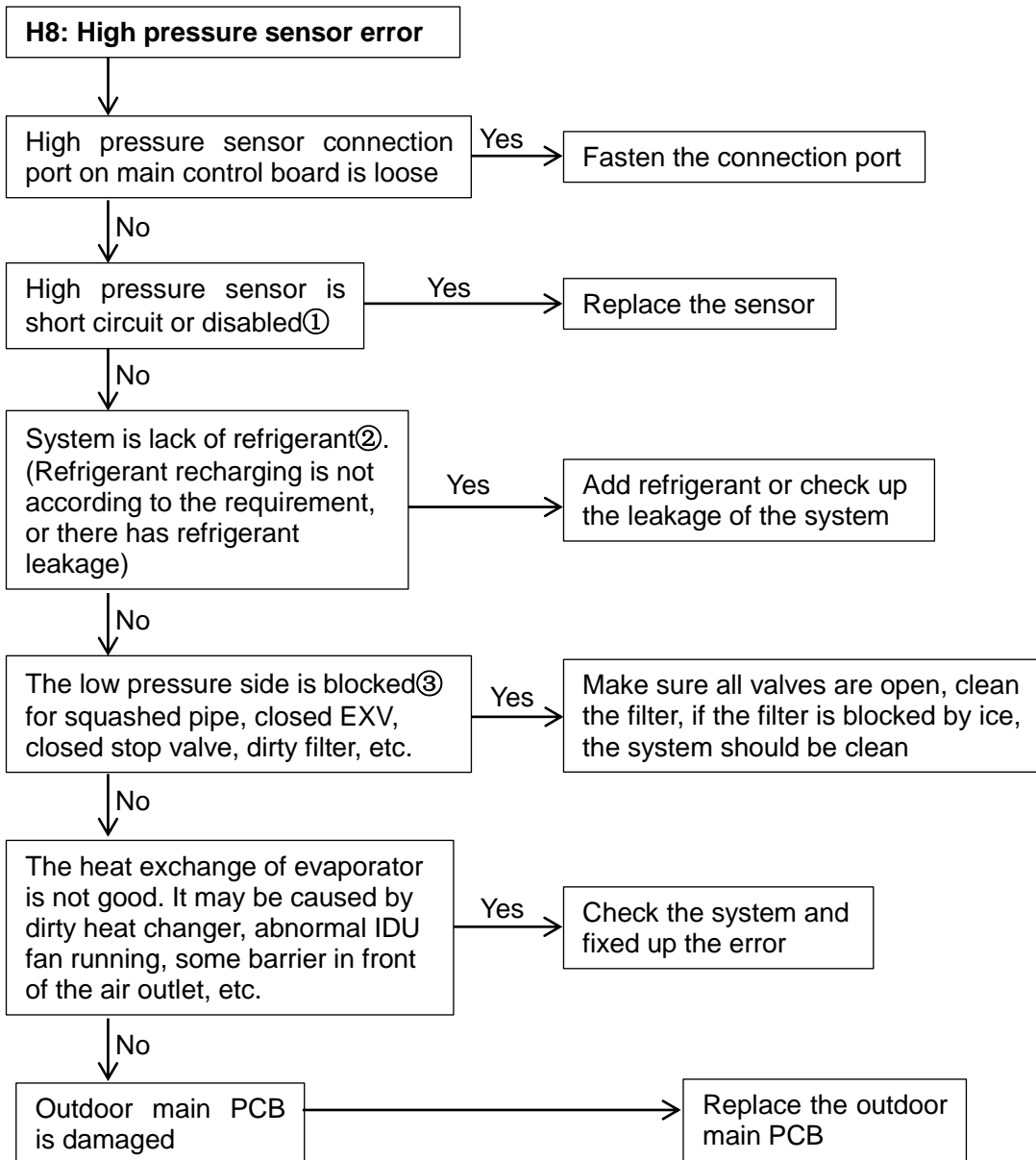
The normal voltage between “P” and “GND” is DC2.5~2.7V, between “Q” and “GND” is DC2.5~2.7V. If the voltage is out of the normal range, the 485 communication IC is disabled.



* Indoor units should be unified power supply, which can prevent compressor from liquid hammer caused by dropped indoor units with EXV unclosed.

4.11 H8: High pressure sensor error

When the discharge pressure is lower than 0.3MPa(43.5PSI), the system will display H8 error, the ODU in standby. When the discharge pressure is back to normal, H8 disappears and normal operation resumes.



Note:

1. How to check whether the high pressure sensor is short circuit or disabled①

Measure the resistance among the three terminals of the pressure sensor, if the resistance value is megohm or infinite, the pressure sensor is disabled, otherwise, it may be normal.

2. The phenomenon of lack of refrigerant②:

Top temperature and discharge temperature of all compressors are higher than normal value, discharge pressure and suction pressure are both lower than normal value, current is lower than normal value, suction pipe may be frosting. All the phenomenon will disappear after recharging refrigerant.

3. The phenomenon of the low pressure side is blocked③:

The discharge temperature is higher than normal value*, low pressure is lower than normal value*, current is lower than normal value* and suction pipe may be frosting.

*The normal system running parameters please refer to attached table 3.

4.12 yHd: Slave units malfunction (y stands for corresponding slave unit)

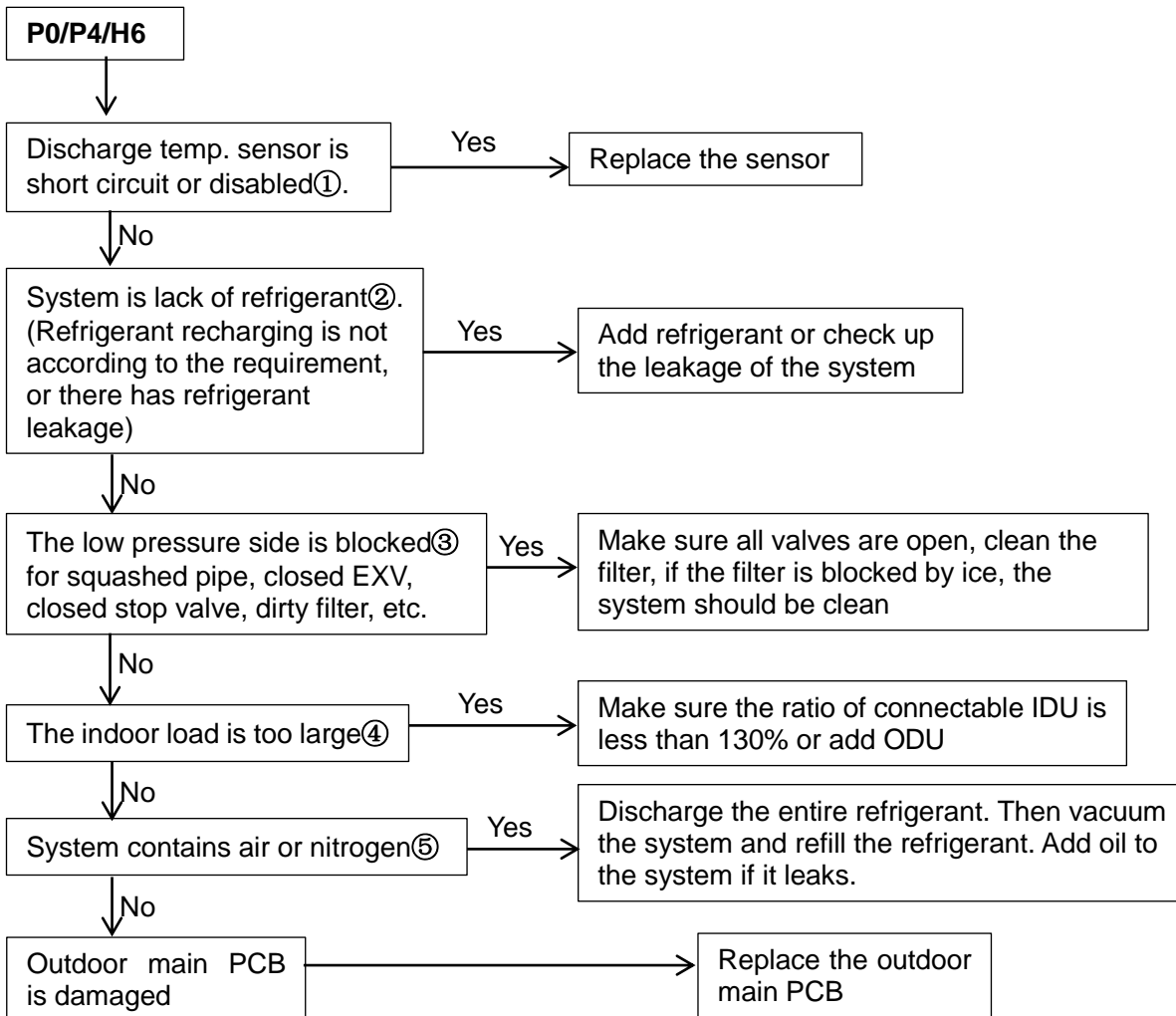
yHd is only displayed on master unit. y stands for corresponding slave unit. If y is 1, it means No.1 slave unit has problem, then you should check No.1 slave unit.

4.13 P0: Top temperature protection of inverter compressor

P4: Discharge temperature protection;

H6: P4 protection appears three times in 100 minutes

The error only display on faulty unit, all the ODU will be standby. H6 error cannot resume automatically, and it can resume only by restarting the machine.



Note:

1. How to check whether the discharge temperature sensor is short circuit or disabled①:

Using a multi meter to measure resistance, if the resistance is too small, the sensor is short circuit, if the resistance in certain temperature is not consistent with attached table 2, the sensor is disabled

2. The phenomenon of lack of refrigerant②:

Top temperature and discharge temperature of all compressors are higher than normal value, discharge pressure and suction pressure are both lower than normal value, current is lower than normal value, suction pipe may be frosting. All the phenomenon will disappear after recharging refrigerant.

3. The phenomenon of the low pressure side is blocked③:

The discharge temperature is higher than normal value*, low pressure is lower than normal value*, current is lower than normal value* and suction pipe may be frosting.

4. The phenomenon of the indoor load is too large④:

The suction temperature and discharge temperature are both higher than normal value.

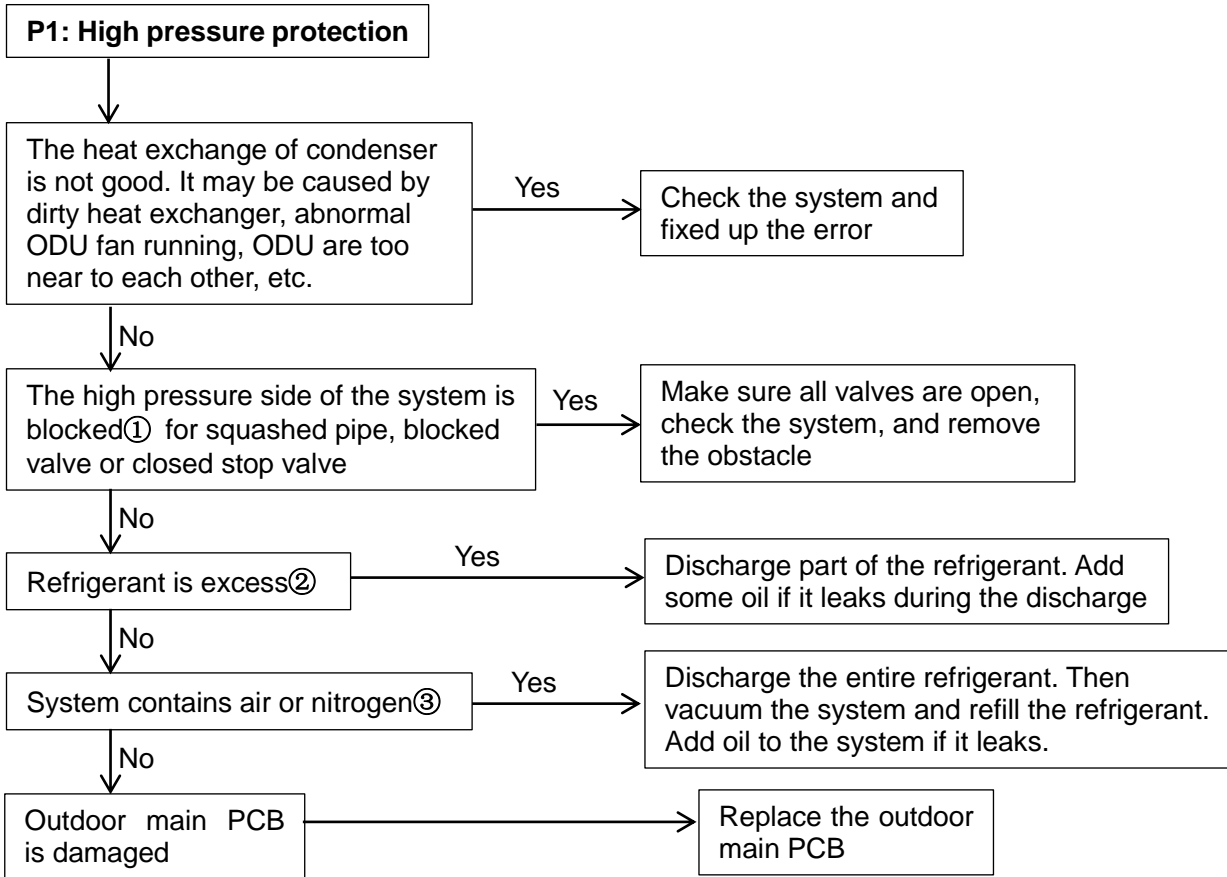
5. The phenomenon of the system contains air or nitrogen⑤:

The high pressure is higher than normal value, current is larger than normal value, discharge temperature is higher than normal value, compressor makes noise, pressure meter do not display steady.

*The normal system running parameters please refer to attached table 3.

4.14 P1: High pressure protection

When the pressure is over 4.4MPa, the system will display P1 protection, the ODU in standby. When the pressure is lower than 3.2MPa, P1 disappears and normal operation resumes.



Note:

1. The phenomenon of The high pressure side of the system is blocked①:

The high pressure is higher than normal value, the low pressure is lower than normal value, and the discharge temperature is higher than normal value.

2. The phenomenon of the refrigerant is excess②:

The high pressure is higher than normal value, the low pressure is higher than normal value, and the discharge temperature is lower than normal value.

3. The phenomenon of the system contains air or nitrogen③:

The high pressure is higher than normal value, current is larger than normal value, discharge temperature is higher than normal value, compressor makes noise, pressure meter do not display steady.

*The normal system running parameters please refer to attached table 3.

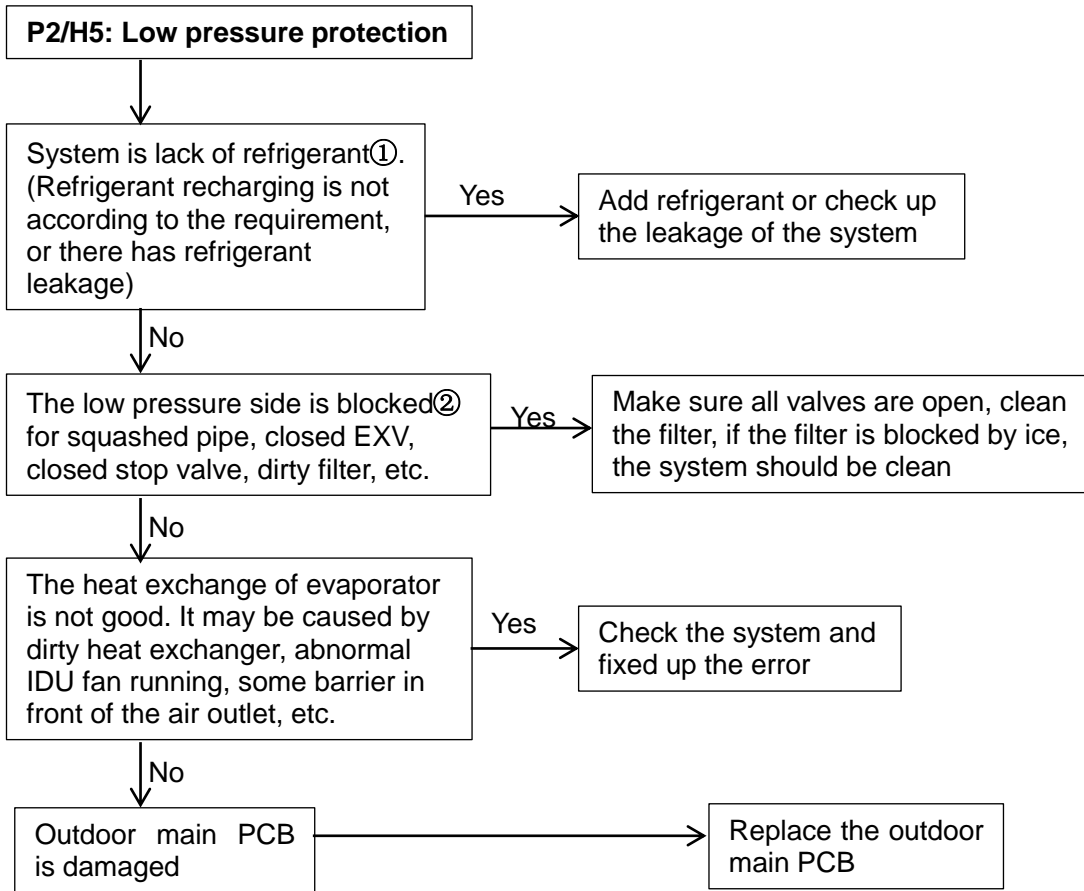
*If the system install three-phase protector, and the three-phase protector connect with high pressure switch in series connection, the system will display P1 protection when fist power on, and P1 protection will disappear after system is steady.

*If the system install three-phase protector, and the three-phase protector connect with low pressure switch in series connection, the system will display P2 protection when fist power on, and P2 protection will disappear after system is steady.

4.15 P2/H5: Low pressure protection

When the pressure is lower than 0.05MPa, the system will display P2 protection, the ODU in standby. When the pressure is higher than 0.15MPa, P2 disappears and resumes normal operation.

H5 error will display when system appear 3 times P2 protection in 60 minutes, it cannot resume automatically, and it can resume only by restarting the machine.



Note:

1. The phenomenon of lack of refrigerant①:

Top temperature and discharge temperature of all compressors are higher than normal value, discharge pressure and suction pressure are both lower than normal value, current is lower than normal value, suction pipe may be frosting. All the phenomenon will disappear after recharging refrigerant.

2. The phenomenon of the low pressure side is blocked②:

The discharge temperature is higher than normal value*, low pressure is lower than normal value*, current is lower than normal value* and suction pipe may be frosting.

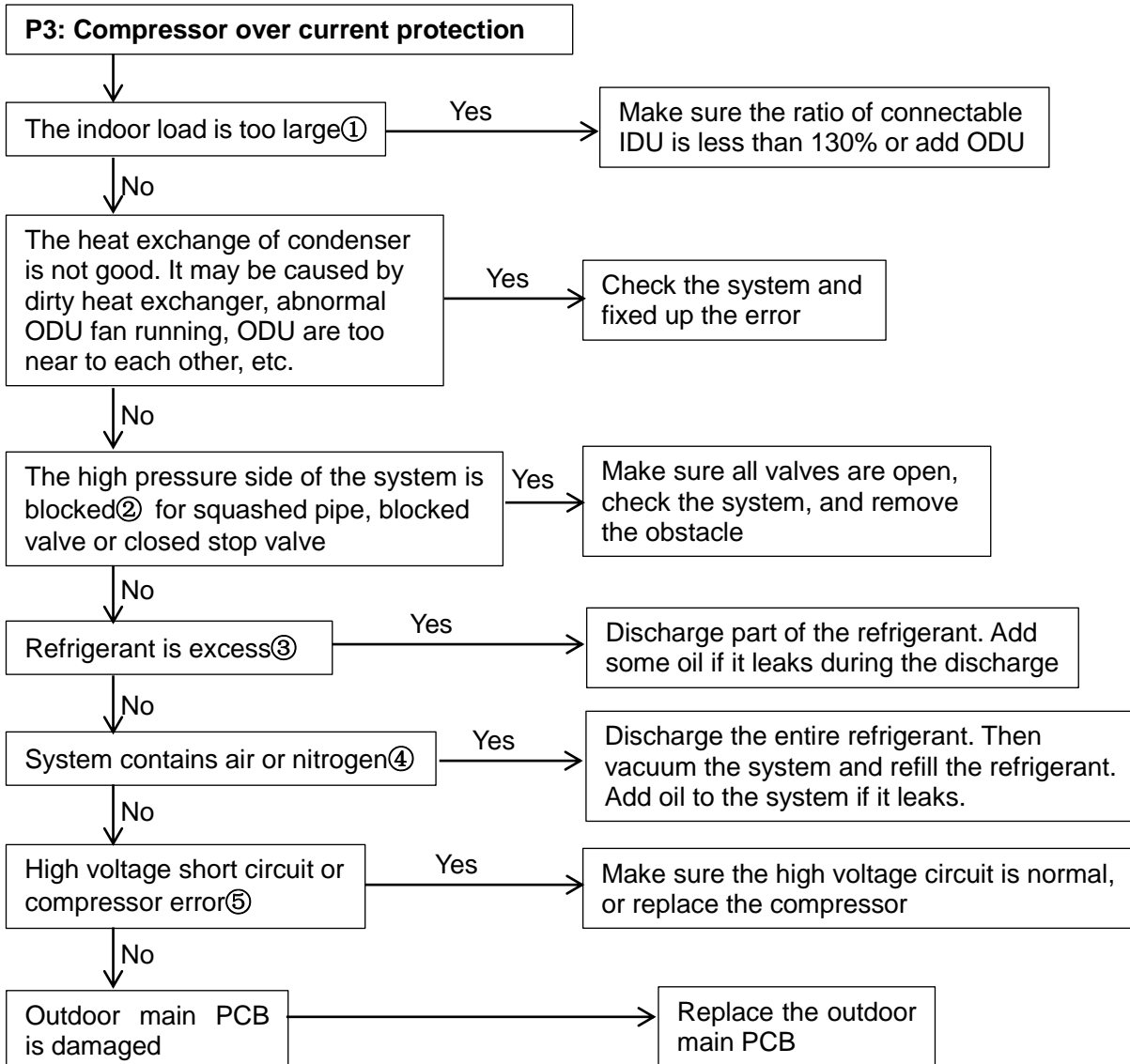
*The normal system running parameters please refer to attached table 3.

*If the system install three-phase protector, and the three-phase protector connect with high pressure switch in series connection, the system will display P1 protection when fist power on, and P1 protection will disappear after system is steady.

*If the system install three-phase protector, and the three-phase protector connect with low pressure switch in series connection, the system will display P2 protection when fist power on, and P2 protection will disappear after system is steady.

4.16 xP3: Over current protection of compressor (When x is 1, it means A compressor; 2 means B compressor)

When the current of inverter compressor is over 12A*, the system will display P3 protection, the ODU in standby. When the current goes back to normal range, P3 disappears and normal operation resumes.



Note:

1. The phenomenon of the indoor load is too large①:

The suction temperature and discharge temperature are both higher than normal value.

2. The phenomenon of the high pressure side of the system is blocked②:

The high pressure is higher than normal value, the low pressure is lower than normal value, and the discharge temperature is higher than normal value.

3. The phenomenon of the refrigerant is excess③:

The high pressure is higher than normal value, the low pressure is higher than normal value, and the discharge temperature is lower than normal value.

4. The phenomenon of the system contains air or nitrogen④:

The high pressure is higher than normal value, current is larger than normal value, discharge temperature is higher than normal value, compressor makes noise, pressure meter do not display steady.

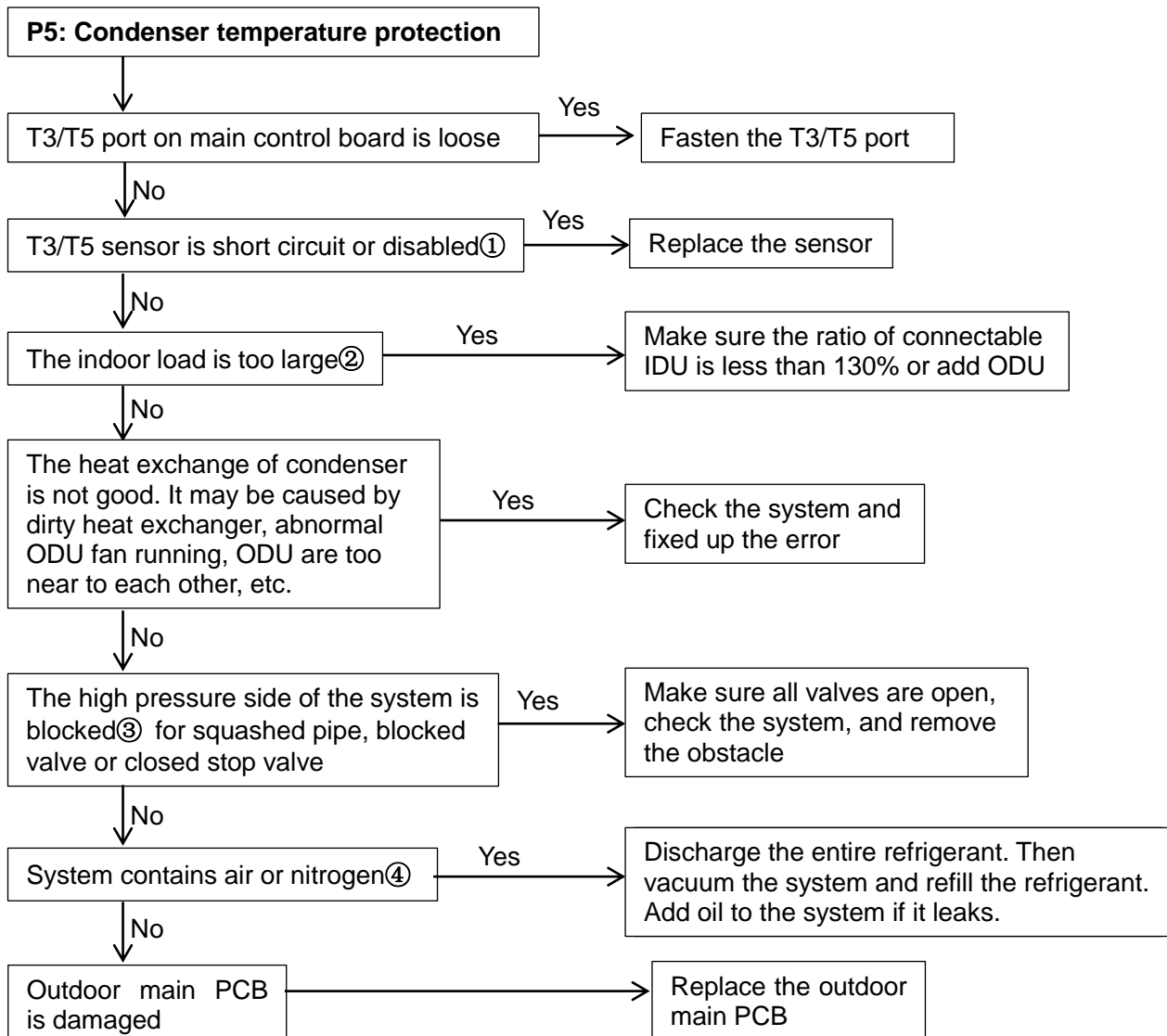
5. How to check whether compressor is error⑤:

Measure the resistance between two terminals among the three terminals of compressor. The resistance between two terminals is 2-5Ω, the resistance between each terminal and ground is infinity, if the resistance is out of the normal range, the compressor is error.

*The protection current of different compressors are as followed: E405DHD-36D2YG, 12A; E405DHD-42D2YG, 15A; E655DHD-65D2YG, 21A; E705DHD-72D2YG, 23A.

4.17 P5: Condenser temperature protection

When condenser temperature is over 65°C(149°F), the system will display P5 protection, the ODU in standby. When the temperature goes back to normal range, P5 disappear and normal operation resumes.



Note:

1. How to check whether the T3/T5 sensor is circuit or disabled①:

Using a multi meter to measure resistance, if the resistance is too small, the sensor is short circuit, if the resistance in certain temperature is not consistent with attached table 1, the sensor is disabled

2. The phenomenon of the indoor load is too large②:

The suction temperature and discharge temperature are both higher than normal value.

3. The phenomenon of the high pressure side of the system is blocked③:

The high pressure is higher than normal value, the low pressure is lower than normal value, and the discharge temperature is higher than normal value.

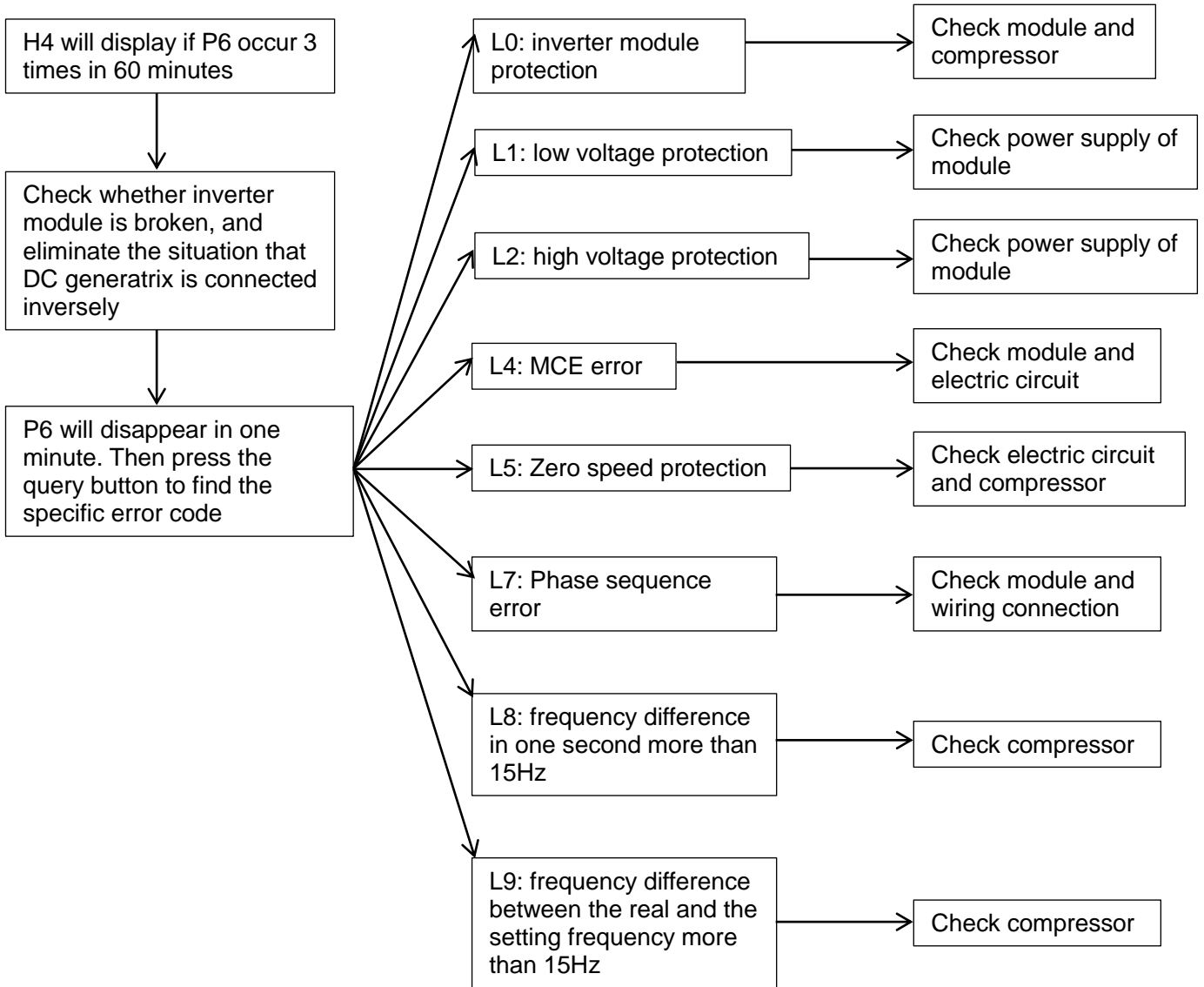
4. The phenomenon of the system contains air or nitrogen④:

The high pressure is higher than normal value, current is larger than normal value, discharge temperature is higher than normal value, compressor makes noise, pressure meter do not display steady.

4.18 xP6: Inverter module protection (When x is 1, it means A inverter module; 2 means B inverter module)

xH4: P6 protection appears three times in 60 minutes

When the system displays H4 error code, the system can resume only by restarting the machine. At this time, malfunction should be disposed promptly to avoid further damage.



1) L0 troubleshooting

Step 1: Compressor check

Measure the resistance between each two of U, V, W terminals of the compressor, all the resistance should be the same and equal to 0.9~5 Ohms. (Fig. A and Fig. B)

Measure the resistance between each of U, V, W terminals of the compressor to ground (Fig. C), all the resistance should trend to infinity (Fig. D), otherwise the compressor has been malfunction, needs to be replaced.



Fig. A



Fig.B

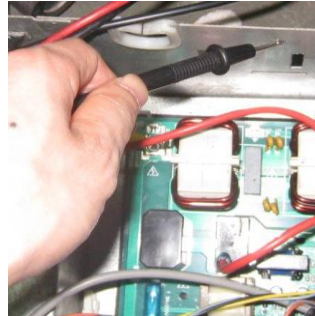


Fig.C

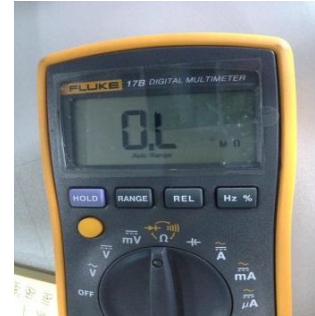
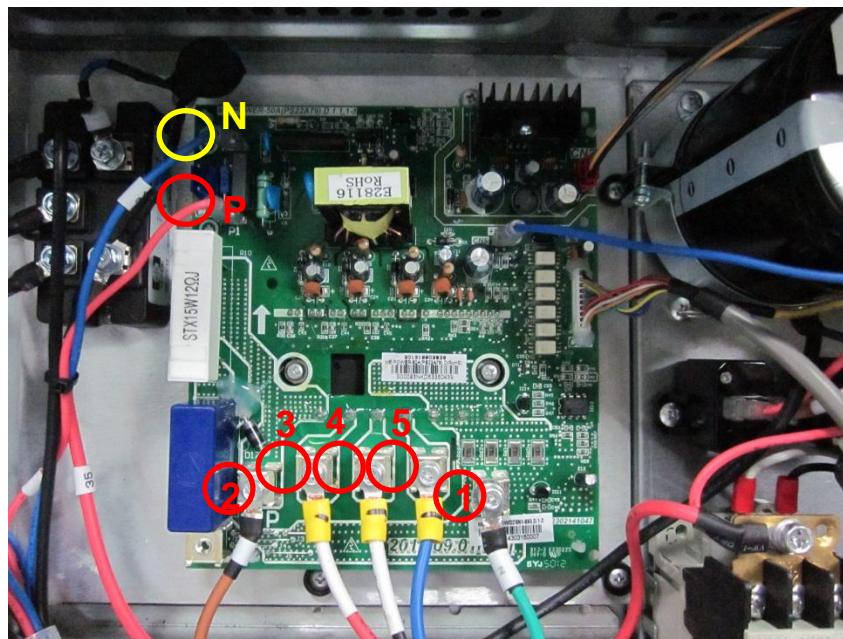


Fig.D

If the resistance value are normal, then go to step 2.

Step 2: Module check

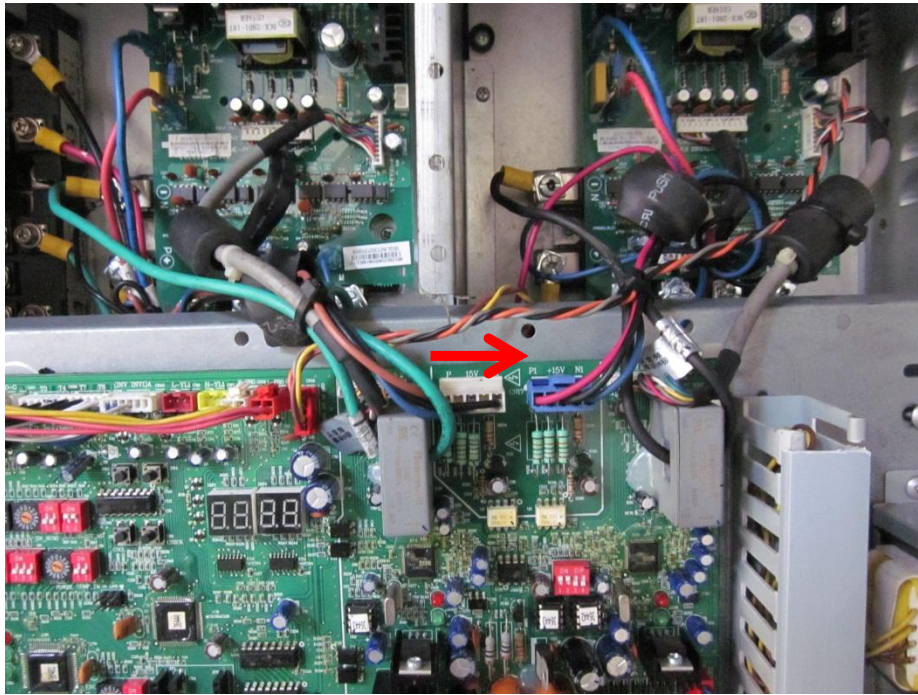


- 1) DC voltage between terminal P and terminal N should be 1.41 times of the local power supply voltage.
- 2) DC voltage between terminal 1 and 2 should be 510V~580V.
- 3) Disconnect the terminal 3, 4, and 5 from inverter compressor. Measure the resistance between any two terminals among terminal 1, 2, 3, 4, 5. All the values should be infinity. If any of the value approximates to 0, the inverter module is damaged and should be replaced.

After replaced the inverter module, if the system is still abnormal, then go to step 3.

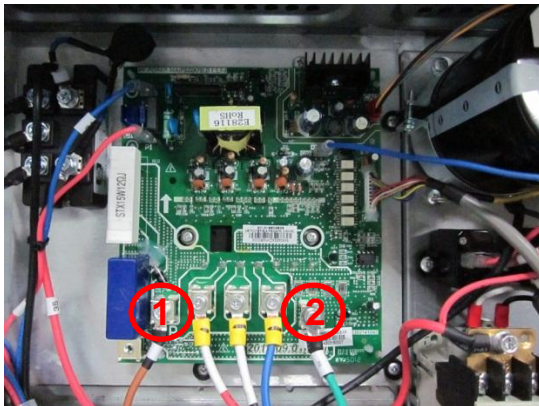
Step 3: DC generatrix check

Direction of the current in DC supply wire which is running through the inductor should be the same as the direction of arrow marked on the inductor.

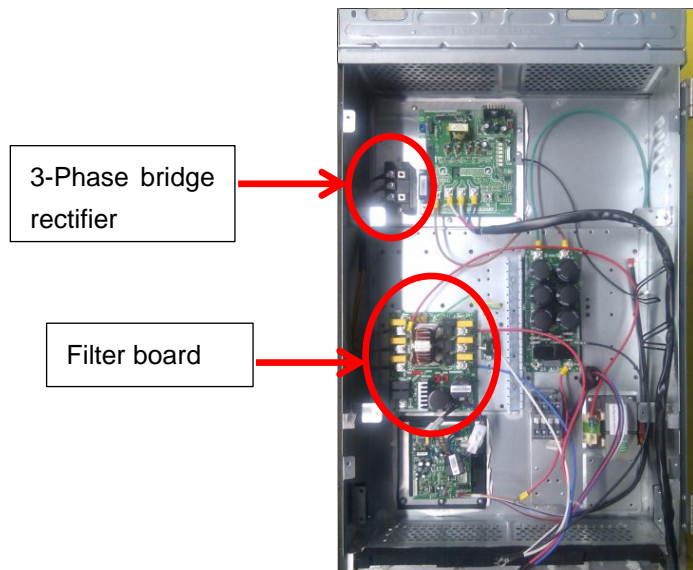


2) L1/L4 troubleshooting

Step 1: Check the DC voltage between 1 and 2 terminal, the normal value should be 510V~580V, if the voltage is lower than 510V, go to step 2.

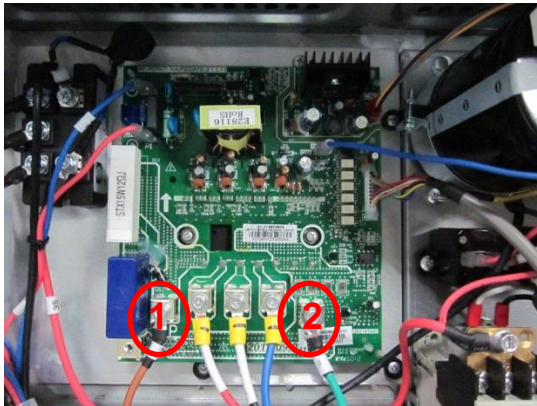


Step 2: Check whether the wires of rectifier circuit are loose or not. If wires are loosen, fasten the wires. If wires are OK, replace the main PCB.

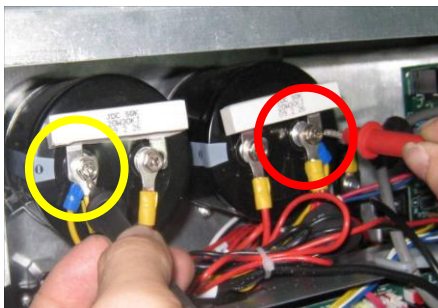


3) L2 troubleshooting

Step 1: Check the DC voltage between 1 and 2 terminal, the normal value should be 510V~580V, if the voltage is higher than 580V, go to step 2.



Step 2: Check the voltage between the two electrolytic capacitors, the normal value should be 510V~580V.



Turn the measure range of the meter to 1kV, measure the voltage between two electrolytic capacitors



If the value is not in the range, that means the power supply for electrolytic capacitors has problem, you should check the power supply, whether the voltage is too high and whether the voltage is stable. If the voltage value is normal, then the main PCB has malfunction, it needs to be replaced.

4) L8/L9 troubleshooting

Step 1: Compressor check

Measure the resistance between each two of U, V, W terminals of the compressor, all the resistance should be the same and equal to 0.9~5 Ohms. (Fig. A and Fig. B)

Measure the resistance between each of U, V, W terminals of the compressor to ground (Fig. C), all the resistance should trend to infinity (Fig. D), otherwise the compressor has been malfunction, needs to be replaced.



Fig. A



Fig. B

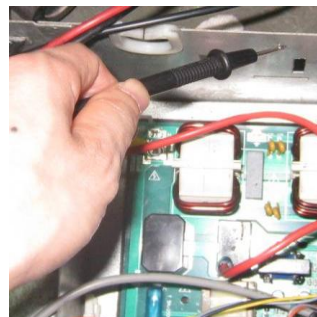


Fig. C

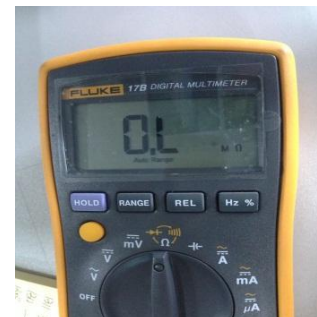


Fig. D

If the resistance value are normal, then go to step 2.

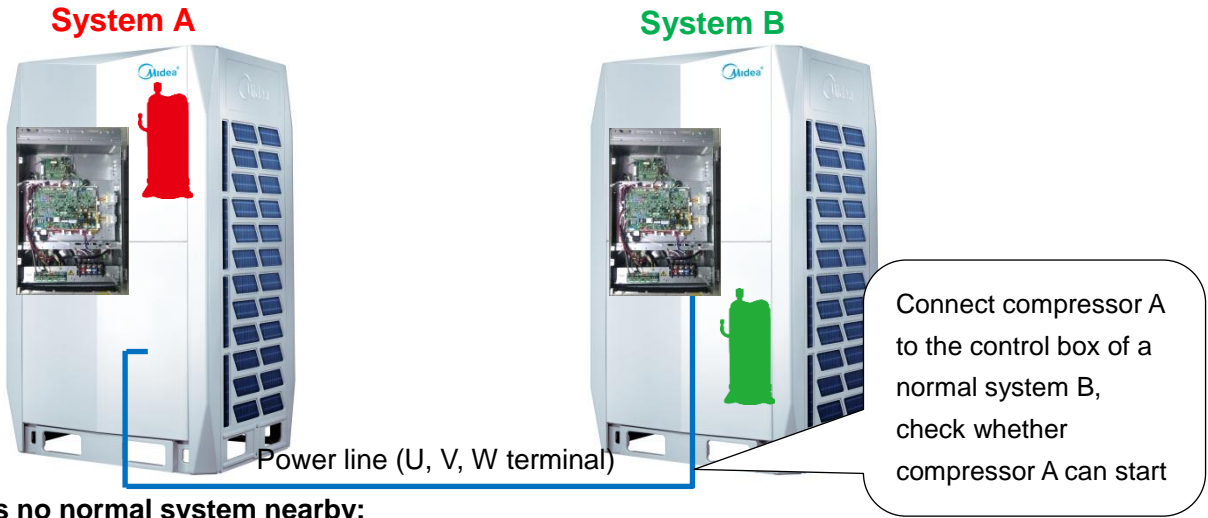
Step 2: Disconnect the power wiring from the compressor(named compressor A) of the faulted system(named system A).

If there is a system running normally nearby(named system B):

Extend the power line of the inverter compressor of system B, connect compressor A to the control box of system B, make sure that the U, V, W terminals are connected in right order, then start system B.

If compressor A can start normally, that means compressor is OK, the control box of system A is malfunction, then replace the main PCB of system A with correct wire connection.

If compressor A can not start normally, that means compressor A is damaged, needs to be replaced.



If there is no normal system nearby:

Replace the main PCB of system A with correct connection, if compressor A can start normally, it means the main PCB which is replaced is damaged. If compressor A still can't start normally, replace the compressor.

5) Guide for compressor replacement

Step 1: Take out the compressor from the faulty outdoor unit, pour out the oil from the compressor according to the method illustrated. Normally the oil will outflow from the discharge pipe of the compressor.



Step 2: check the oil of the system

Normally the oil is clear and transparent, if it is a little yellowing, it is also OK. However, if the oil is become

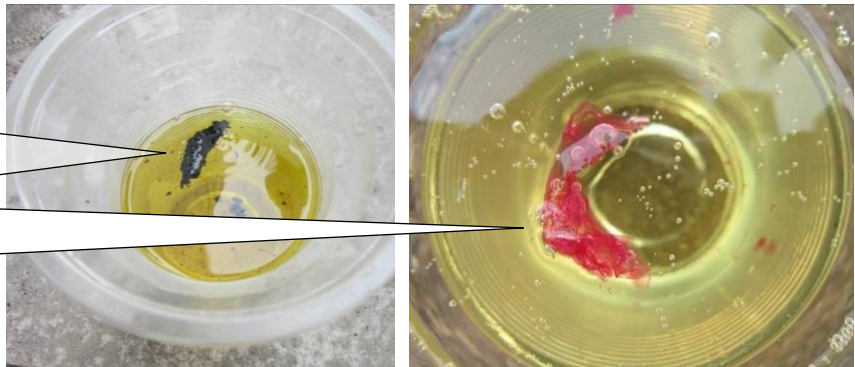
black, feculent, or even there is impurity in the oil, that means the system has problems and the oil has gone bad, the oil need to be replaced.

The oil is black, it has been carbonized

The oil is a little yellowing, but it is clear and transparent, the quality is OK

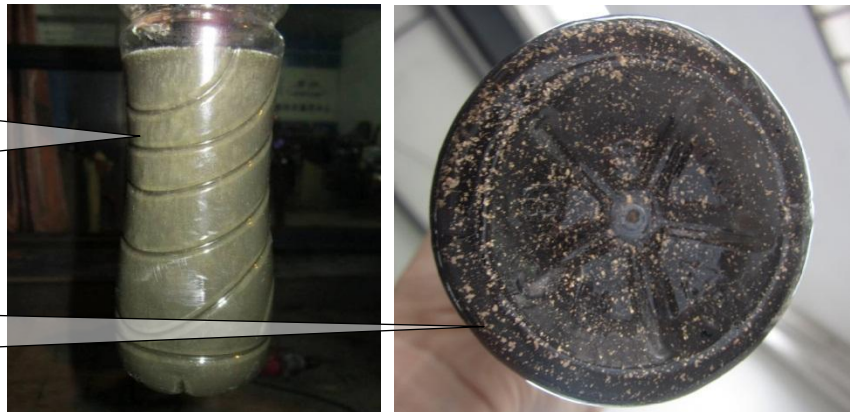


The oil is still transparent, but there is impurity in the oil, the impurity may clog the filter

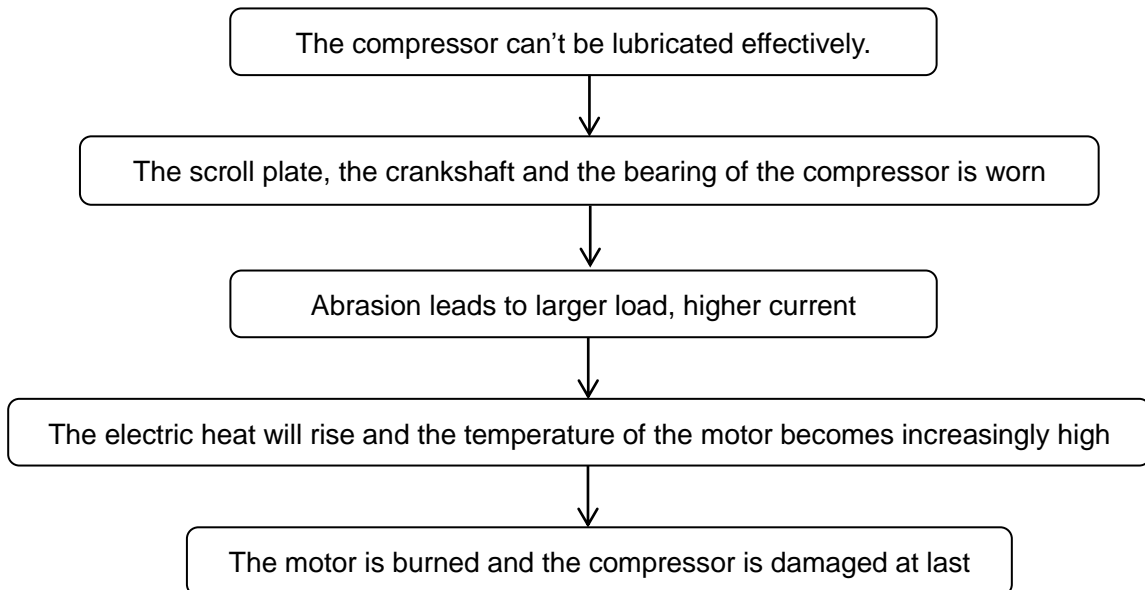


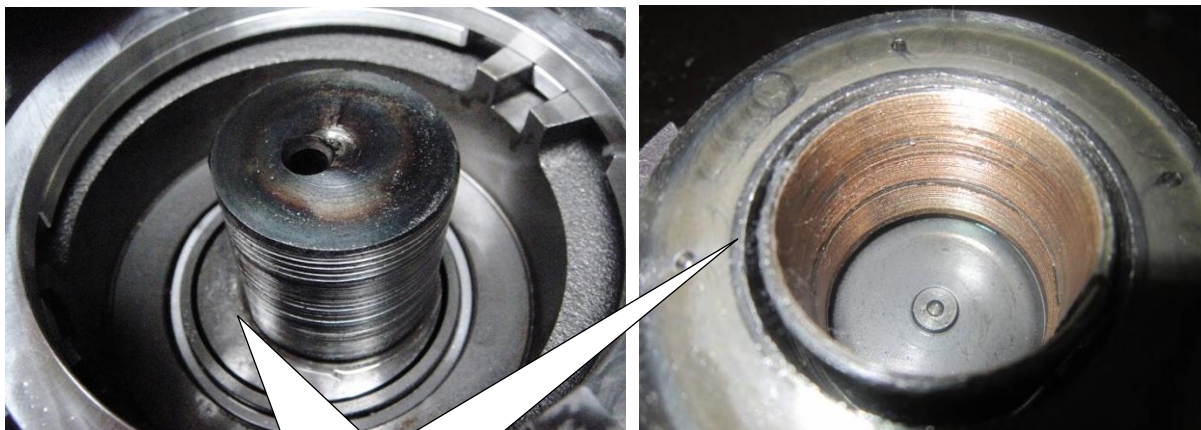
The oil becomes cloudy and gray

The oil contains a lot of copper scrap



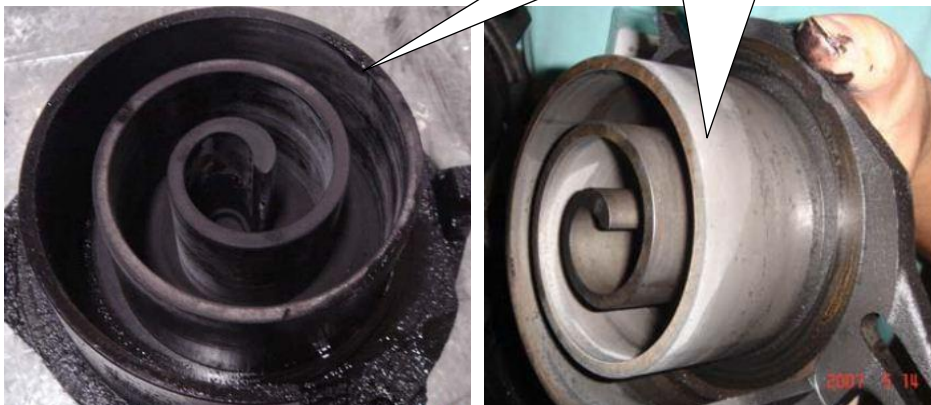
If the oil has gone bad:





The crankshaft is worn.

The scroll plate is worn.



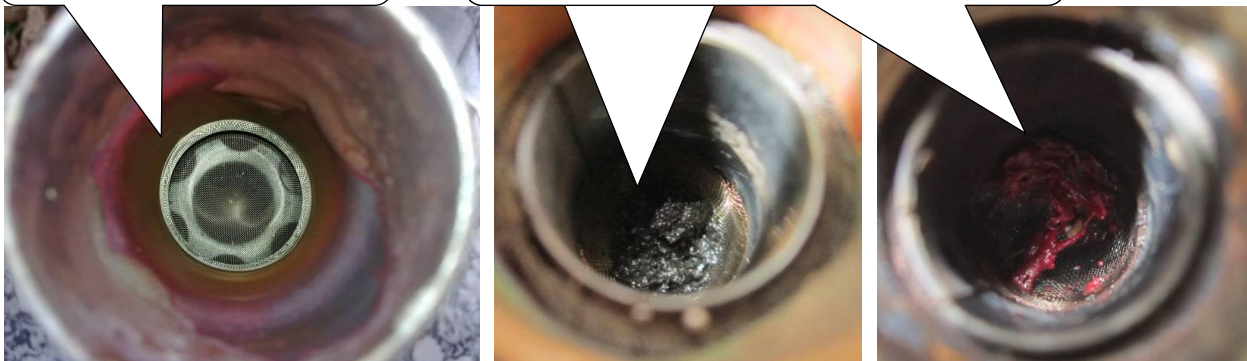
A normal bearing of the compressor

The bearing is worn seriously, it is damaged completely

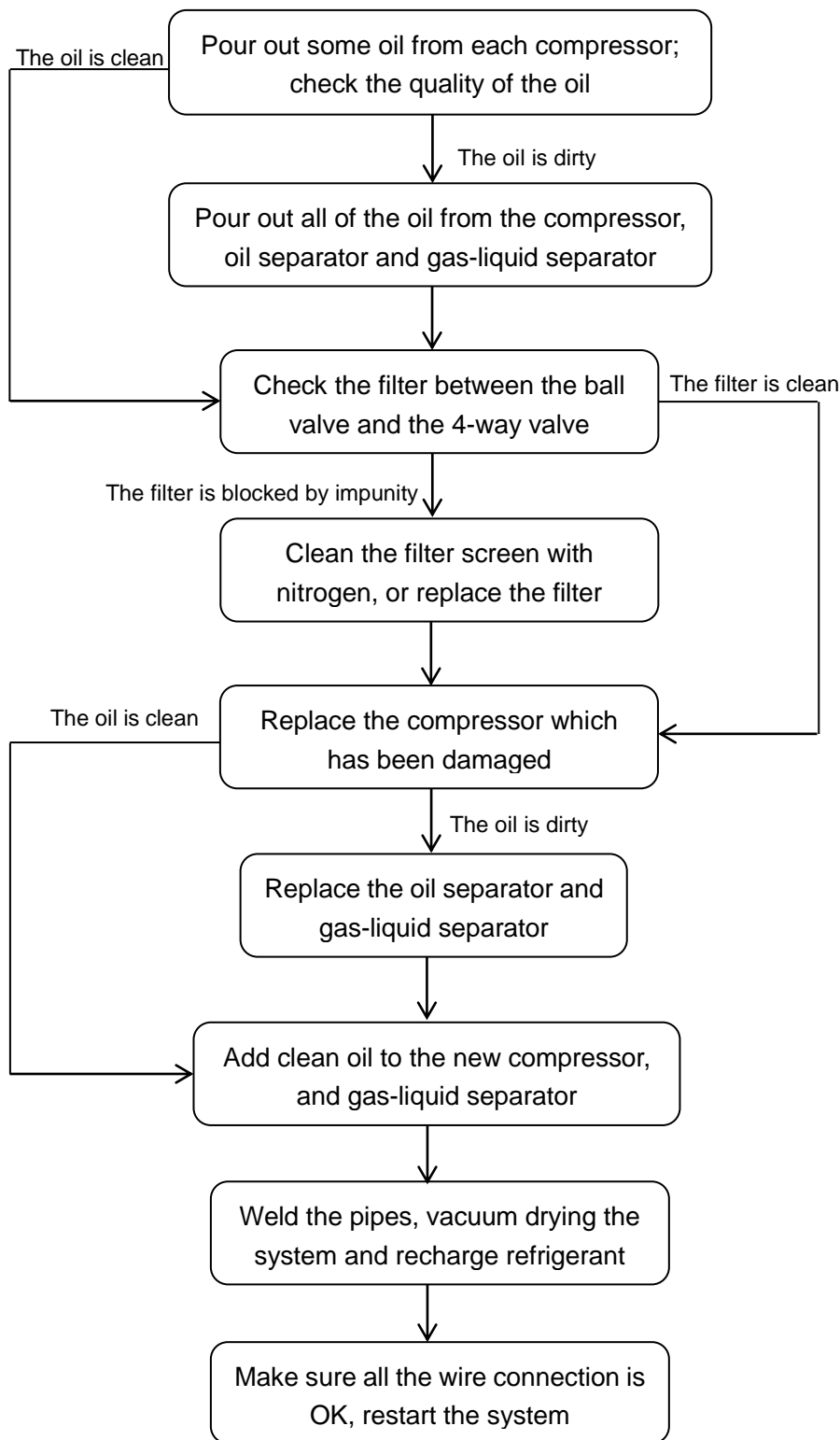


A clean filter (on the suction pipe of the system)

The filter is blocked by impurity, the suction of the compressor will be abnormal



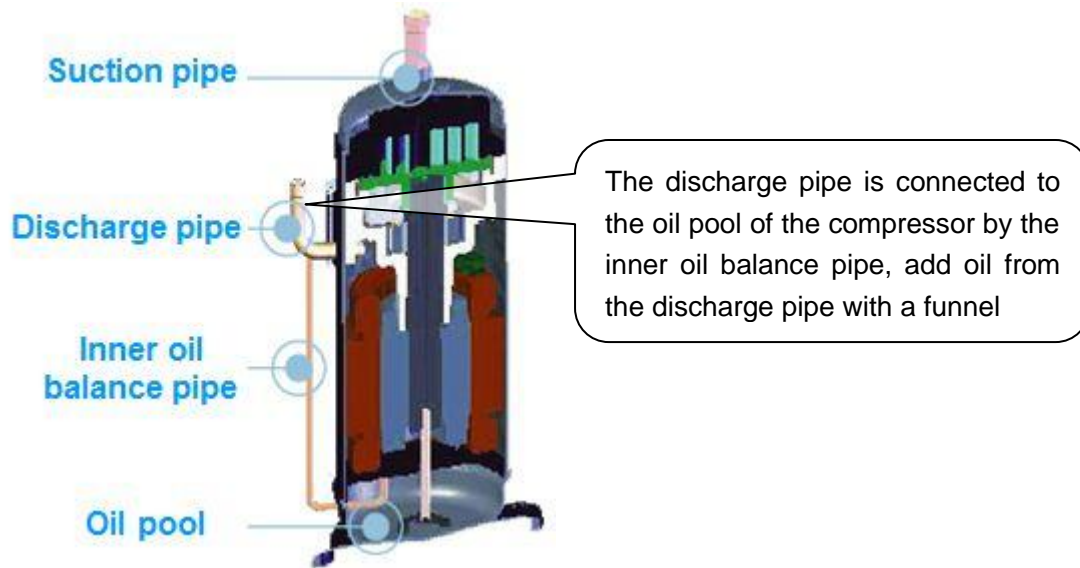
Step 3: Replace the compressor



Note:

1. Before pouring out the oil, shake the compressor, oil separator and gas-liquid separator first, because impurity may deposit at the bottom of the tank.
2. If the oil of one compressor is clean, there's no need to check the oil of the other compressor. If the oil of one compressor has gone bad, check the oil of the other compressor is necessary. If all the oil of an outdoor unit needs to be replaced, after adding oil to the compressors, the rest oil should be charged to the gas-liquid separator.

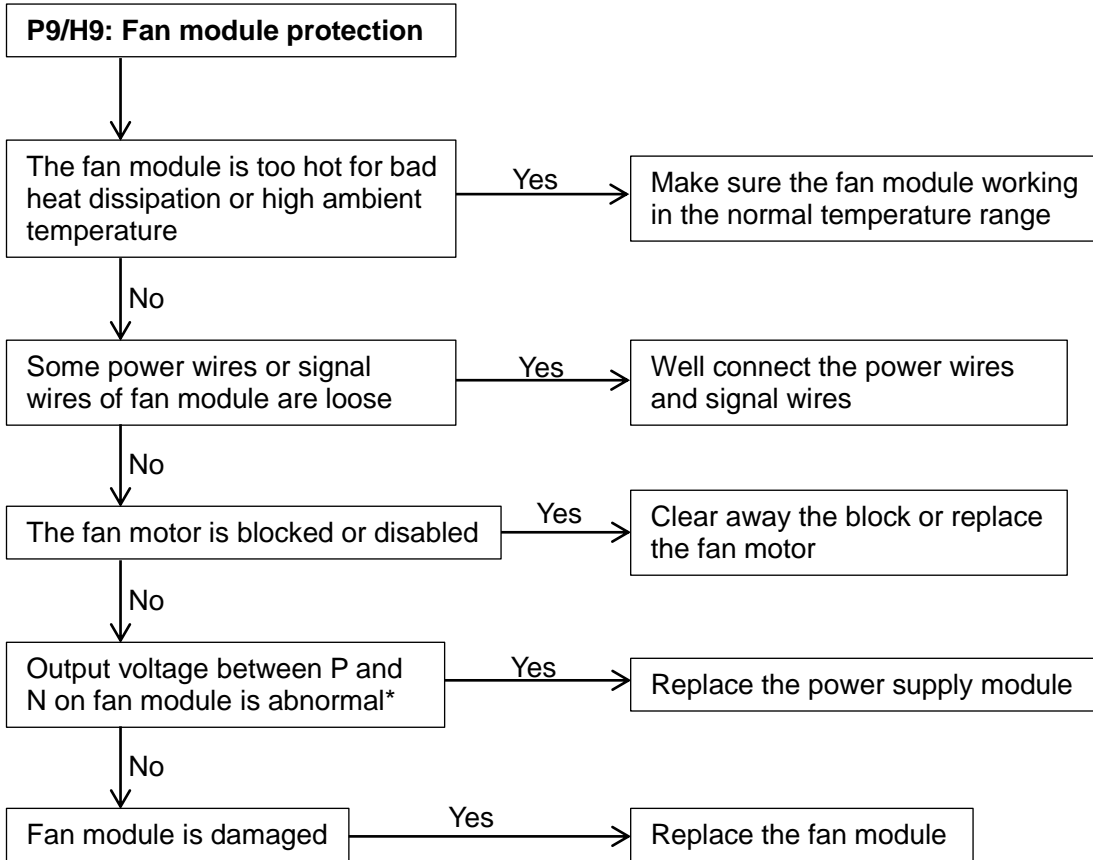
3. Add oil to the compressor from the discharge pipe.



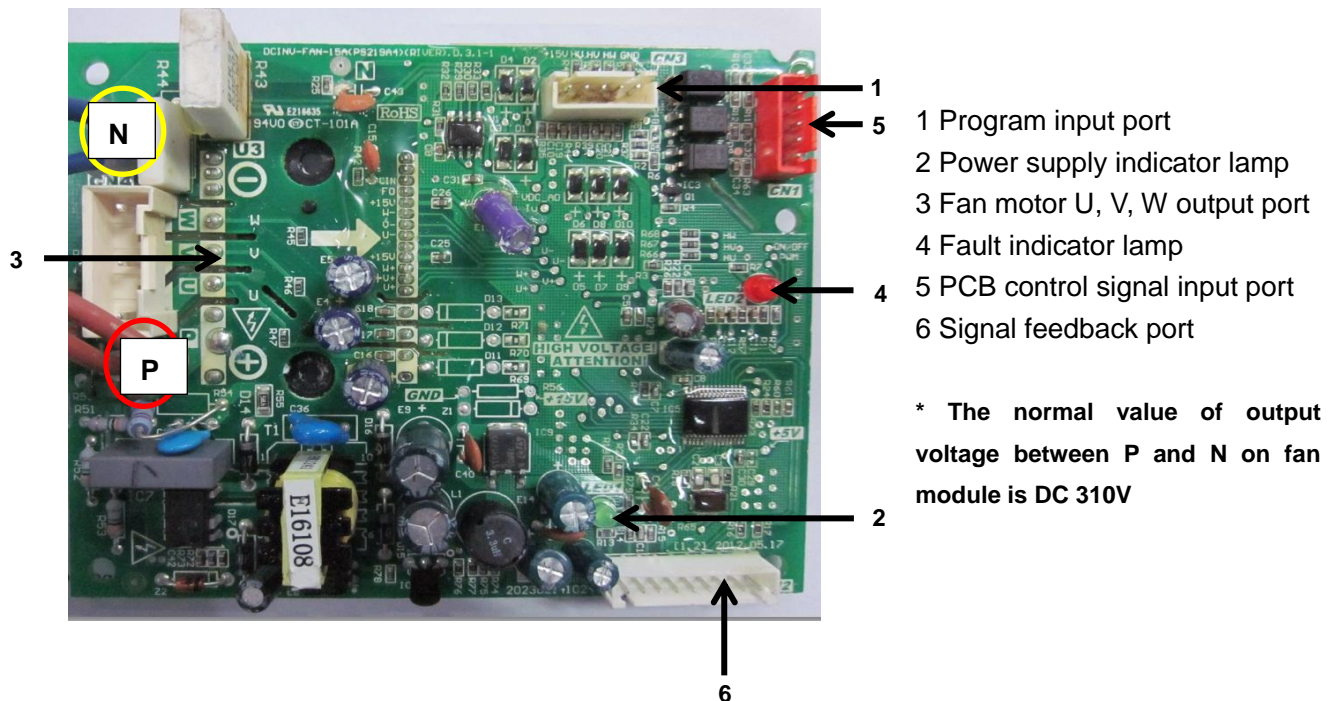
4. The type of the oil is FVC-68D, make sure the type of the oil is right because different compressor need different type of oil, if the type is wrong there will be various kinds of problems.

4.19 P9/H9: Fan module protection

If the system display three times P9 protection in 60 minutes, the system will stop and display H9 error code. When the system displays H9 error code, the system can resume only by restarting the machine. At this time, malfunction should be disposed promptly to avoid further damage.



Fan module instruction



P9 protection analysis

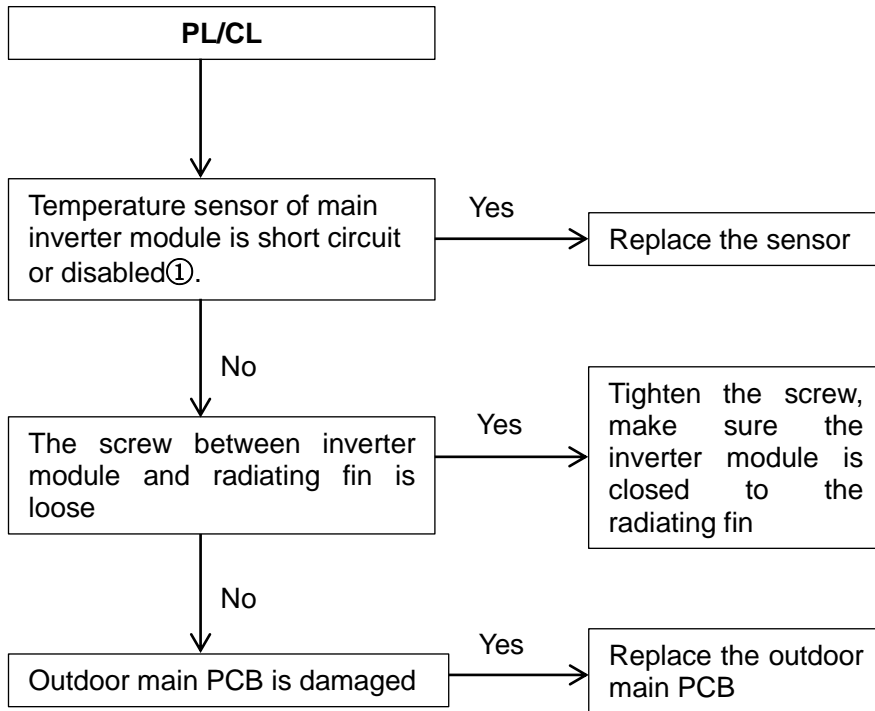
Conditions	Fault indicator lamp of fan module	Power supply indicator lamp of fan module	Digital tube display	Malfunction analysis
Power on	Off	Off	Quantity of IDU or "0"	Check the power supply circuit for fan module. Check whether there has power supply for lightning protection plate, whether the protective tube is broken, whether the voltage after rectification is normal, whether the bridge rectifier is broken.
Power on	Off	Flash	Quantity of IDU or "0"	Power supply of fan module has problem, needs to replace the fan module.
When fan motor start	At first the lamp is on then the lamp is off	On	P9/H9	Check whether the drive port and signal feedback port is loose, whether the fan module and fan motor is installed firmly. If above conditions are all OK, it needs to replace the fan module.
When fan motor start	At first the lamp is on then the lamp flash	On	P9/H9	Check whether the transformer in lightning protection plate is open circuit, whether the relay is broken. If occurs above problem, it needs to replace the lightning protection plate.
Fan motor running several minutes	On	On	P9/H9	Check whether the capacity setting from dial switch is accordance with actual ODU capacity, whether the capacity from query button is accordance with actual ODU capacity. If occurs above problem, it needs to adjust the capacity setting. If above conditions are both OK, it needs to replace the main control board.

4.20 PL/C7: Temperature protection of main inverter module

When the temperature of inverter module is over 80°C, it will display PL protection.

If the system display three times PL protection in 100 minutes, the system will stop and display C7 error code.

When the system displays C7 error code, the system can resume only by restarting the machine.



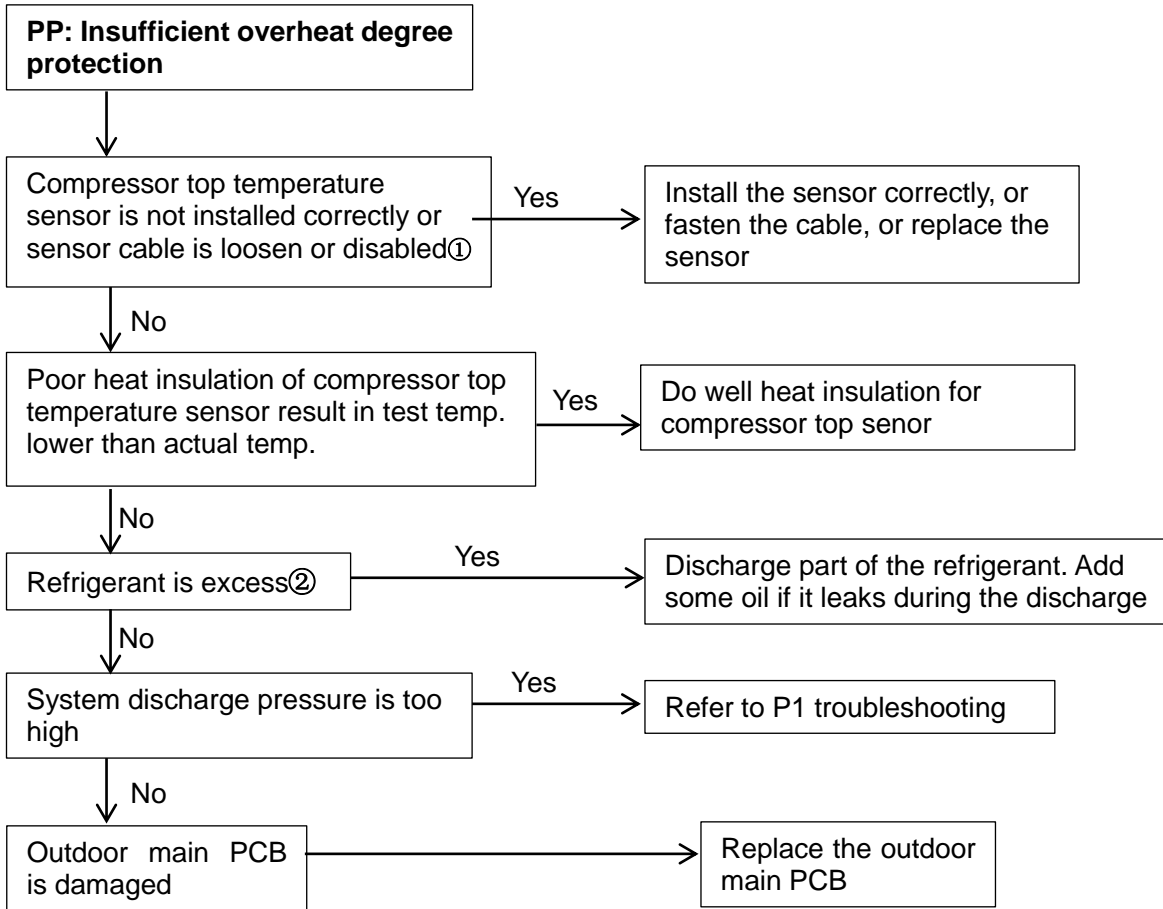
1. How to check whether the temperature sensor is short circuit or disabled①:

Using a multi-meter to measure resistance, if the resistance is too small, the sensor is short circuit, if the resistance in certain temperature is not consistent with attached table 2, the sensor is disabled

4.21 PP/F0: Insufficient overhear degree protection of compressor discharge temperature

When the discharge temperature overhear degree is $\leq 0^{\circ}\text{C}$ for 20min; or the overhear degree is $\leq 5^{\circ}\text{C}$ for 60min, it will display PP protection.

If the system display three times PP protection in 150 minutes, the system will stop and display F0 error code. When the system displays F0 error code, the system can resume only by restarting the machine.



Note:

1. How to check whether the temperature sensor is short circuit or disabled①:

Using a multi-meter to measure resistance, if the resistance is too small, the sensor is short circuit, if the resistance in certain temperature is not consistent with attached table 2, the sensor is disabled.

2. The phenomenon of the refrigerant is excess②:

The high pressure is higher than normal value, the low pressure is higher than normal value, and the discharge temperature is lower than normal value.

Attached table 1: Resistance value of ambient temperature and pipe temperature sensor

Temperature °C(°F)	Resistance value (kΩ)	Temperature °C(°F)	Resistance value (kΩ)	Temperature °C(°F)	Resistance value (kΩ)	Temperature °C(°F)	Resistance value (kΩ)
-20(-4)	115.266	20(68)	12.6431	60(140)	2.35774	100(212)	0.62973
-19(-2.2)	108.146	21(69.8)	12.0561	61(141.8)	2.27249	101(213.8)	0.61148
-18(-0.4)	101.517	22(71.6)	11.5	62(143.6)	2.19073	102(215.6)	0.59386
-17(1.4)	96.3423	23(73.4)	10.9731	63(145.4)	2.11241	103(217.4)	0.57683
-16(3.2)	89.5865	24(75.2)	10.4736	64(147.2)	2.03732	104(219.2)	0.56038
-15(5)	84.219	25(77)	10	65(149)	1.96532	105(221)	0.54448
-14(6.8)	79.311	26(78.8)	9.55074	66(150.8)	1.89627	106(222.8)	0.52912
-13(8.6)	74.536	27(80.6)	9.12445	67(152.6)	1.83003	107(224.6)	0.51426
-12(10.4)	70.1698	28(82.4)	8.71983	68(154.4)	1.76647	108(226.4)	0.49989
-11(12.2)	66.0898	29(84.2)	8.33566	69(156.2)	1.70547	109(228.2)	0.486
-10(14)	62.2756	30(86)	7.97078	70(158)	1.64691	110(230)	0.47256
-9(15.8)	58.7079	31(87.8)	7.62411	71(159.8)	1.59068	111(231.8)	0.45957
-8(17.6)	56.3694	32(89.6)	7.29464	72(161.6)	1.53668	112(233.6)	0.44699
-7(19.4)	52.2438	33(91.4)	6.98142	73(163.4)	1.48481	113(235.4)	0.43482
-6(21.2)	49.3161	34(93.2)	6.68355	74(165.2)	1.43498	114(237.2)	0.42304
-5(23)	46.5725	35(95)	6.40021	75(167)	1.38703	115(239)	0.41164
-4(24.8)	44	36(96.8)	6.13059	76(168.8)	1.34105	116(240.8)	0.4006
-3(26.6)	41.5878	37(98.6)	5.87359	77(170.6)	1.29078	117(242.6)	0.38991
-2(28.4)	39.8239	38(100.4)	5.62961	78(172.4)	1.25423	118(244.4)	0.37956
-1(30.2)	37.1988	39(102.2)	5.39689	79(174.2)	1.2133	119(246.2)	0.36954
0(32)	35.2024	40(104)	5.17519	80(176)	1.17393	120(248)	0.35982
1(33.8)	33.3269	41(105.8)	4.96392	81(177.8)	1.13604	121(249.8)	0.35042
2(35.6)	31.5635	42(107.6)	4.76253	82(179.6)	1.09958	122(251.6)	0.3413
3(37.4)	29.9058	43(109.4)	4.5705	83(181.4)	1.06448	123(253.4)	0.33246
4(39.2)	28.3459	44(111.2)	4.38736	84(183.2)	1.03069	124(255.2)	0.3239
5(41)	26.8778	45(113)	4.21263	85(185)	0.99815	125(257)	0.31559
6(42.8)	25.4954	46(114.8)	4.04589	86(186.8)	0.96681	126(258.8)	0.30754
7(44.6)	24.1932	47(116.6)	3.88673	87(188.6)	0.93662	127(260.6)	0.29974
8(46.4)	22.5662	48(118.4)	3.73476	88(190.4)	0.90753	128(262.4)	0.29216
9(48.2)	21.8094	49(120.2)	3.58962	89(192.2)	0.8795	129(264.2)	0.28482
10(50)	20.7184	50(122)	3.45097	90(194)	0.85248	130(266)	0.2777
11(51.8)	19.6891	51(123.8)	3.31847	91(195.8)	0.82643	131(267.8)	0.27078
12(53.6)	18.7177	52(125.6)	3.19183	92(197.6)	0.80132	132(269.6)	0.26408
13(55.4)	17.8005	53(127.4)	3.07075	93(199.4)	0.77709	133(271.4)	0.25757
14(57.2)	16.9341	54(129.2)	2.95896	94(201.2)	0.75373	134(273.2)	0.25125
15(59)	16.1156	55(131)	2.84421	95(203)	0.73119	135(275)	0.24512
16(60.8)	15.3418	56(132.8)	2.73823	96(204.8)	0.70944	136(276.8)	0.23916
17(62.6)	14.6181	57(134.6)	2.63682	97(206.6)	0.68844	137(278.6)	0.23338
18(64.4)	13.918	58(136.4)	2.53973	98(208.4)	0.66818	138(280.4)	0.22776
19(66.2)	13.2631	59(138.2)	2.44677	99(210.2)	0.64862	139(282.2)	0.22231

Attached table 2: Resistance value of compressor discharge temperature sensor

Temperature °C(°F)	Resistance value (kΩ)	Temperature °C(°F)	Resistance value (kΩ)	Temperature °C(°F)	Resistance value (kΩ)	Temperature °C(°F)	Resistance value (kΩ)
-20(-4)	542.7	20(68)	68.66	60(140)	13.59	100(212)	3.702
-19(-2.2)	511.9	21(69.8)	65.62	61(141.8)	13.11	101(213.8)	3.595
-18(-0.4)	483	22(71.6)	62.73	62(143.6)	12.65	102(215.6)	3.492
-17(1.4)	455.9	23(73.4)	59.98	63(145.4)	12.21	103(217.4)	3.392
-16(3.2)	430.5	24(75.2)	57.37	64(147.2)	11.79	104(219.2)	3.296
-15(5)	406.7	25(77)	54.89	65(149)	11.38	105(221)	3.203
-14(6.8)	384.3	26(78.8)	52.53	66(150.8)	10.99	106(222.8)	3.113
-13(8.6)	363.3	27(80.6)	50.28	67(152.6)	10.61	107(224.6)	3.025
-12(10.4)	343.6	28(82.4)	48.14	68(154.4)	10.25	108(226.4)	2.941
-11(12.2)	325.1	29(84.2)	46.11	69(156.2)	9.902	109(228.2)	2.86
-10(14)	307.7	30(86)	44.17	70(158)	9.569	110(230)	2.781
-9(15.8)	291.3	31(87.8)	42.33	71(159.8)	9.248	111(231.8)	2.704
-8(17.6)	275.9	32(89.6)	40.57	72(161.6)	8.94	112(233.6)	2.63
-7(19.4)	261.4	33(91.4)	38.89	73(163.4)	8.643	113(235.4)	2.559
-6(21.2)	247.8	34(93.2)	37.3	74(165.2)	8.358	114(237.2)	2.489
-5(23)	234.9	35(95)	35.78	75(167)	8.084	115(239)	2.422
-4(24.8)	222.8	36(96.8)	34.32	76(168.8)	7.82	116(240.8)	2.357
-3(26.6)	211.4	37(98.6)	32.94	77(170.6)	7.566	117(242.6)	2.294
-2(28.4)	200.7	38(100.4)	31.62	78(172.4)	7.321	118(244.4)	2.233
-1(30.2)	190.5	39(102.2)	30.36	79(174.2)	7.086	119(246.2)	2.174
0(32)	180.9	40(104)	29.15	80(176)	6.859	120(248)	2.117
1(33.8)	171.9	41(105.8)	28	81(177.8)	6.641	121(249.8)	2.061
2(35.6)	163.3	42(107.6)	26.9	82(179.6)	6.43	122(251.6)	2.007
3(37.4)	155.2	43(109.4)	25.86	83(181.4)	6.228	123(253.4)	1.955
4(39.2)	147.6	44(111.2)	24.85	84(183.2)	6.033	124(255.2)	1.905
5(41)	140.4	45(113)	23.89	85(185)	5.844	125(257)	1.856
6(42.8)	133.5	46(114.8)	22.89	86(186.8)	5.663	126(258.8)	1.808
7(44.6)	127.1	47(116.6)	22.1	87(188.6)	5.488	127(260.6)	1.762
8(46.4)	121	48(118.4)	21.26	88(190.4)	5.32	128(262.4)	1.717
9(48.2)	115.2	49(120.2)	20.46	89(192.2)	5.157	129(264.2)	1.674
10(50)	109.8	50(122)	19.69	90(194)	5	130(266)	1.632
11(51.8)	104.6	51(123.8)	18.96	91(195.8)	4.849		
12(53.6)	99.69	52(125.6)	18.26	92(197.6)	4.703		
13(55.4)	95.05	53(127.4)	17.58	93(199.4)	4.562		
14(57.2)	90.66	54(129.2)	16.94	94(201.2)	4.426		
15(59)	86.49	55(131)	16.32	95(203)	4.294	B(25/50)=3950K	
16(60.8)	82.54	56(132.8)	15.73	96(204.8)	4.167		
17(62.6)	78.79	57(134.6)	15.16	97(206.6)	4.045	R(90°C)=5KΩ+3%	
18(64.4)	75.24	58(136.4)	14.62	98(208.4)	3.927		
19(66.2)	71.86	59(138.2)	14.09	99(210.2)	3.812		

Attached table 3: Commissioning and operating parameters of refrigerant system

Conditions 1: Make sure outdoor unit can detect all the indoor units, the quantity of indoor units display steadily and be equal to actual quantity of installed indoor units.

Conditions 2: Make sure all the valves in outdoor unit are open, indoor units EXV have connected to indoor PCB.

Conditions 3: The ratio of connectable indoor units is 100%. When ambient temperature is high, operate the system in cooling mode and set the temperature 17°C(62.6°F). When ambient temperature is low, operate the system in heating mode and set the temperature 30°C(86°F). Then get the parameters after system running normally more than 30 minutes.

Outdoor unit cooling parameters table

Ambient temperature (T4)	°C	20-27	27-33	33-38	38-45
	°F	68-80.6	80.6-91.4	91.4-100.4	100.4-113
Discharge pressure (spot check)	MPa	2.1-2.3	2.8-3.2	3.3-3.5	3.7-3.9
	PSI	305-334	406-450	479-508	537-566
Pressure of high pressure valve	MPa	1.8-2.0	2.4-2.7	2.8-3.1	3.2-3.5
	PSI	261-290	348-392	406-450	464-508
Pressure of low pressure valve	MPa	0.7-0.9	0.8-1.0	1.0-1.2	1.2-1.4
	PSI	102-131	116-145	145-174	174-203
Discharge temperature (spot check)	°C	50-65	70-85	75-90	80-90
	°F	122-149	158-185	167-194	176-194
DC inverter compressor current (BP1/BP2)* (spot check)	A	8-13/5-11	14-17/7-11	15-18/7-12	9-11/5-7
Average temperature of evaporator outlet T2B	°C	8-9	12-15	16-17	20
	°F	46.4-48.2	53.6-59	60.8-62.6	68

Outdoor unit heating parameters table

Ambient temperature (T4)	°C	-15--5	-5-5	5-12	12-18
	°F	5-41	23-41	41-53.6	53.6-64.4
Discharge pressure (spot check)	MPa	2.0-2.2	2.2-2.7	3.0-3.1	2.6-2.7
	PSI	290-319	319-392	435-450	377-392
Pressure of high pressure valve	MPa	1.7-1.8	1.8-2.4	2.6-2.8	2.2-2.4
	PSI	247-261	261-348	377-406	319-348
Pressure of low pressure valve	MPa	2.0-2.2	2.2-2.6	3.0-3.1	2.6-2.7
	PSI	290-319	319-377	435-450	377-392
Discharge temperature (spot check)	°C	50-70	60-70	60-85	60-70
	°F	122-158	140-158	140-185	140-158
DC inverter compressor current (BP1/BP2)* (spot check)	A	9-12/5-7	10-12/5-8	6-8/9-10	11-15/6-9
Average temperature of condenser outlet T2	°C	33	33-40	46-50	39-41
	°F	91.4	91.4-104	114.8-122	102.2-105.8

*BP1 is compressor E705DHD-72D2YG or E655DHD-65D2YG;

BP2 is compressor E405DHD-42D2YG or E405DHD-36D2YG, the current of E405DHD-36D2YG must less than 8A.