



DM14-01.01.18en



Service manual

MIV V5 Heat Recovery

DC INVERTER R410A

MVUR252B-VA3

MVUR280B-VA3

MVUR335B-VA3

MVUR400B-VA3

MVUR450B-VA3



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Part 1 General Information

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1. Features

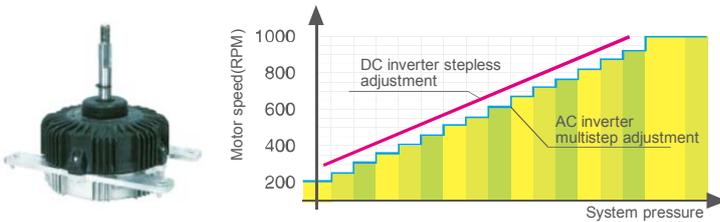
1.1 Energy saving

1.1.1 All DC inverter compressors

All DC inverter compressors make the capacity output better distributed, and always work at 60-140Hz which is the most efficient range. It makes the efficiency more than 30% higher than the normal.

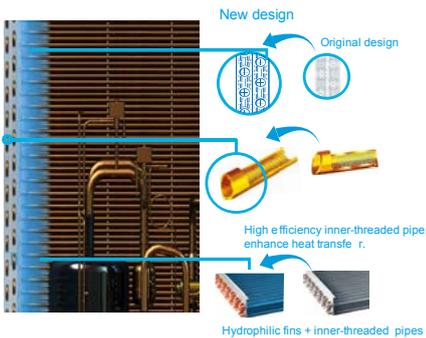


1.1.2 All DC fan motors



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.

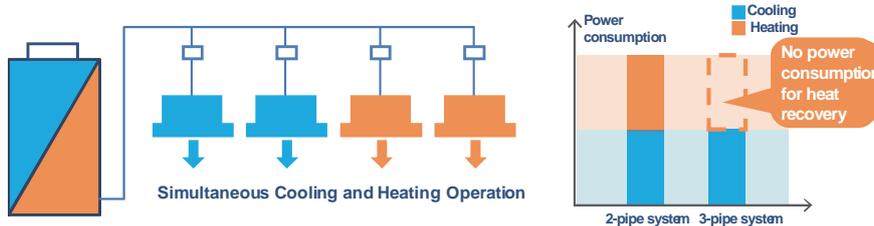
1.1.3 High efficiency heat exchanger



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.

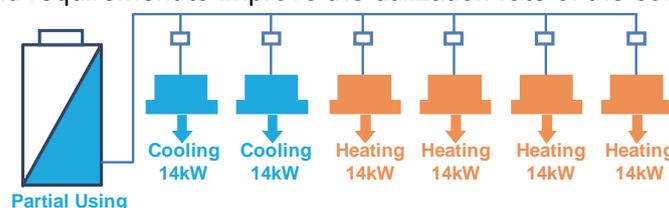
1.1.4 Heat recovery, more efficiency

Simultaneous heating and cooling in different zones, more energy saving by heat recovery from one space to another which saves up to 50% in costs compared with a conventional heat pump system.



1.1.5 Heating capacity automatic adjustment

Two parts condenser individual design, the unit can distribute a part of evaporator to be as condensing area according to the heating load requirement to improve the utilization rate of the condenser.



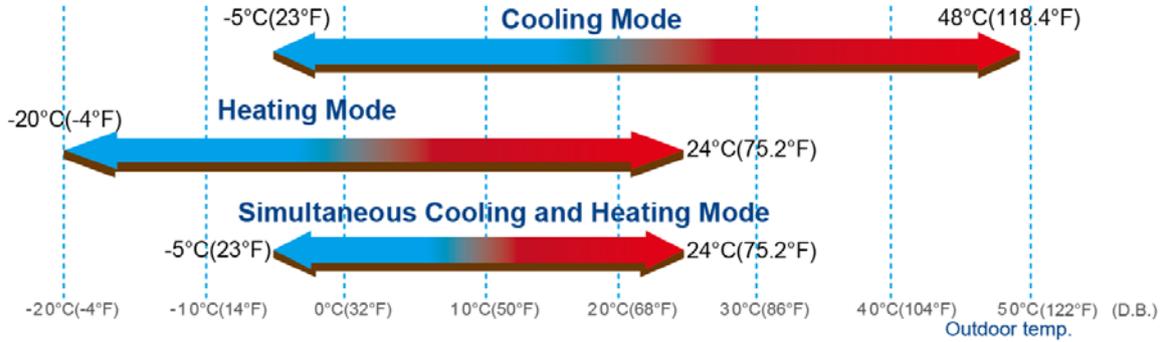
1.2 Flexible design

1.2.1 Wide capacity range

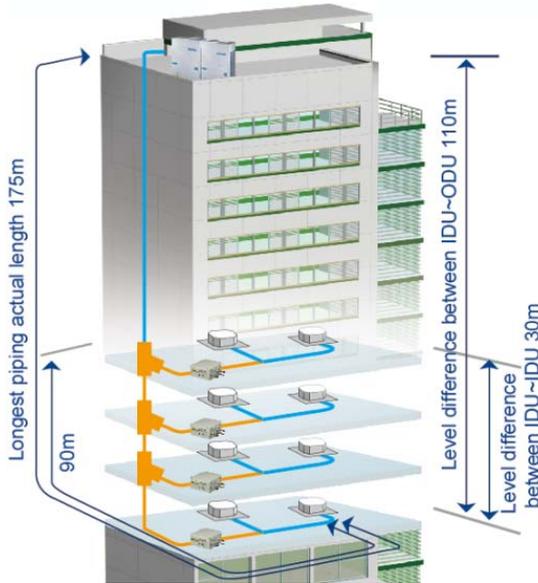
The outdoor units' capacity range from 8HP to 64HP in 2HP increment. Maximum 64 indoor units with capacity up to 130% of total outdoor units can be connected in one refrigeration system.

1.2.2 Wide operation range

The V4 Plus R 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



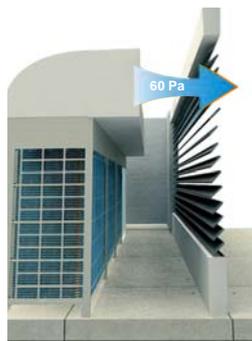
| Piping length | Permitted value |
|---|---|
| Total pipe length | 3280ft(1000m) |
| Max. actual pipe length | 574ft(175m) |
| Max. equivalent pipe length | 656ft(200m) |
| Equivalent piping length from the farthest IDU to the first indoor branch joint | 131/295*ft(40/90*m) |
| Equivalent piping length from MS to its farthest downstream indoor unit | 131ft(40m) |
| Level difference between outdoor unit and indoor unit | Outdoor unit is down: 361ft(110m) Outdoor unit is up: 230ft(70m) |
| Level difference between indoor units | 98ft(30m) |

* When the length is more than 40m, it needs to meet the specific conditions according to the installation technical manual.

1.2.4 High external static pressure

High static pressure propeller and optimized fan guard can adapt to various installation environments.

Midea now offers up to 60Pa*(0.24in.WG) external static pressure for customized applications (60Pa(0.24in.WG) is available customized for the 8-12HP model; 40Pa(0.16in.WG) is available customized for 14-16HP). A standard 0-20Pa(0-0.08in.WG) function is equipped by default.



1.3 High reliability

1.3.1 Cycle duty operation

In one combination, any of the outdoor unit can run as the master unit and master unit can cycle in a period, to realize the equal lifespan among the outdoor units. As a result extend the system lifespan significantly.



Cycle duty between modules

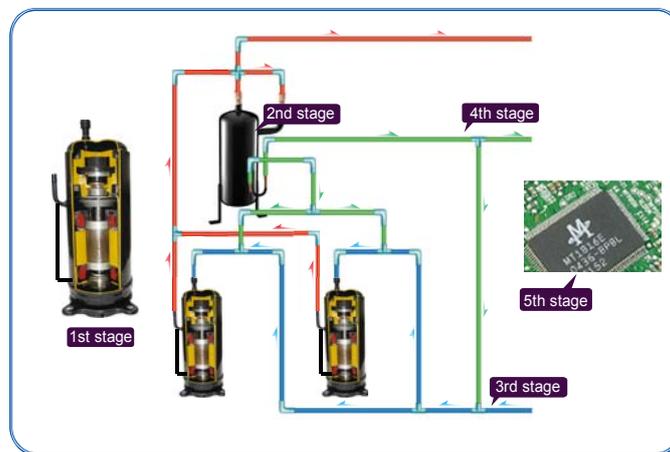
1.3.2 Backup operation

In a multiple system, if one module is failed, other modules can be backup instead of the failed one for continuing operation.

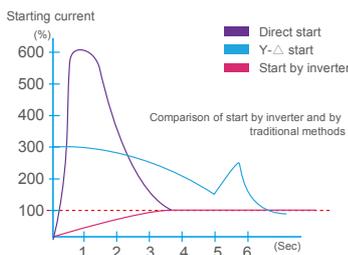
1.3.3 Precise oil control technology

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



1.3.4 Intelligent soft start technology



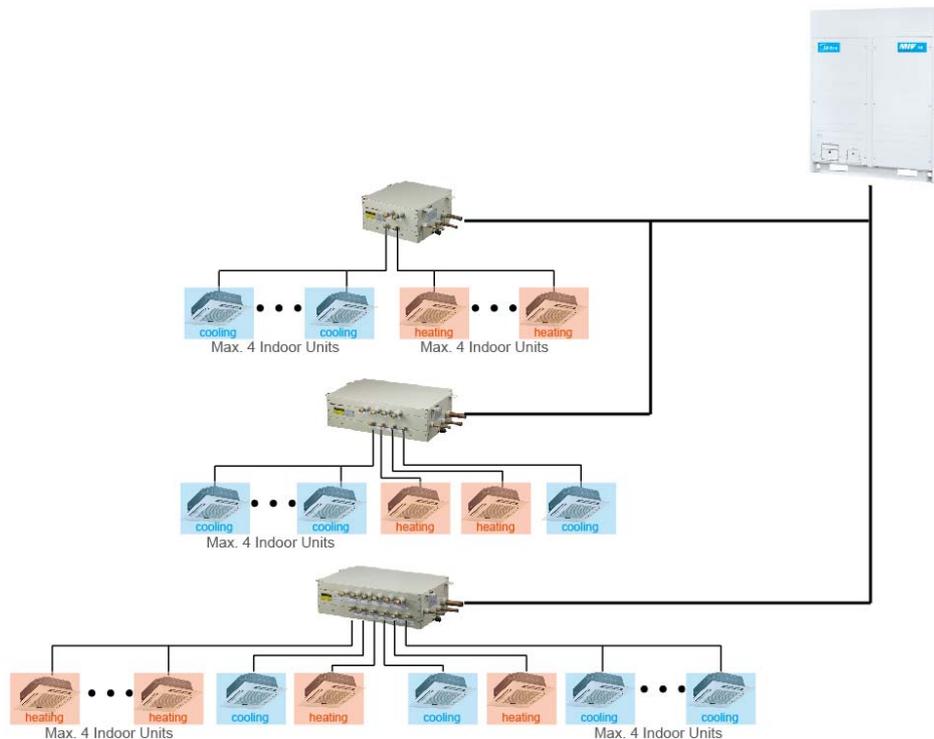
All the DC inverter compressors start with a very low current which will obviously reduce the strike to the electric network and make the system more reliable and stable.

1.4 Enhanced comfort

1.4.1 Cooling and heating simultaneous for new designed MS (Mode Switch) equipment

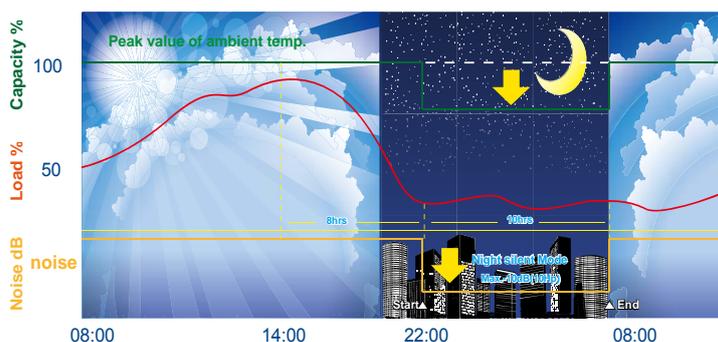
The outdoor unit individual controls the operation mode of each group indoor unit to achieve simultaneous heating and cooling in one system under the MS unit which adopts solenoid valve to precise control refrigerant flow rate.

The indoor units connect to one MS can realize simultaneous cooling and heating operation.



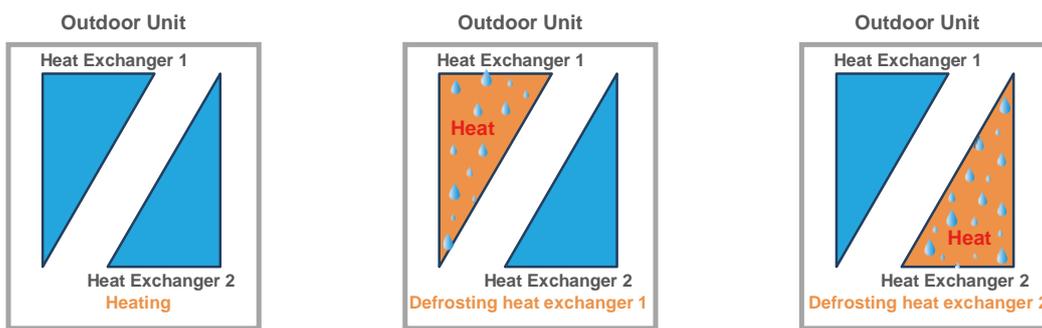
1.4.2 Night silent operation mode

Midea's 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.



1.4.3 Continuous heating during defrost operation

Each heat exchanger is defrosted by using heat transferred from one heat exchanger to the other in the outdoor unit.



1.5 Convenient installation & maintenance

1.5.1 Remote addressing

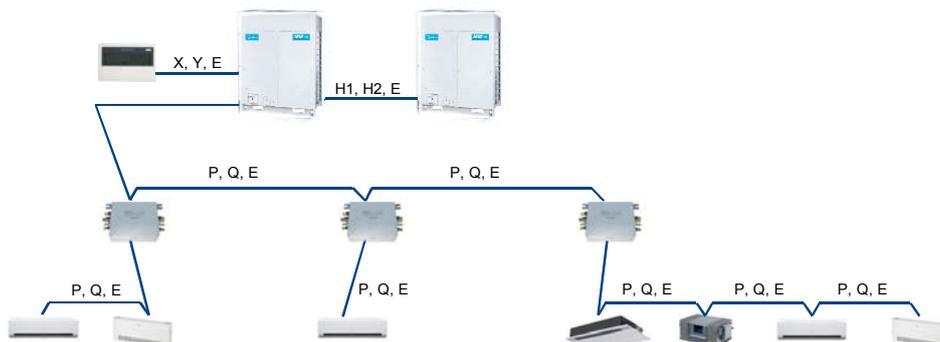
Addressing indoor units are able to be done just by pressing the button of the controller.

No need to set the address by the DIP switch one by one.



1.5.2 Simple communication wiring

Centralized controller (CCM03) can connect from indoor side or outdoor side (XYE terminals) at will. Only one group of communication wire of PQE, achieved both of communication for indoor & outdoor unit and network. It's more convenient for communication wiring.



1.5.3 Convenient inspection window & 4 bits LED digital tube display

The check window reserved on electric control box provides a convenient spot checking and status enquiry. With the 4 bits digital tube LED display, it is very convenient to show the data of the system, such as pressure, compressor frequency, error code, discharge temperature etc., which can make the maintenance, installation and commissioning easier.

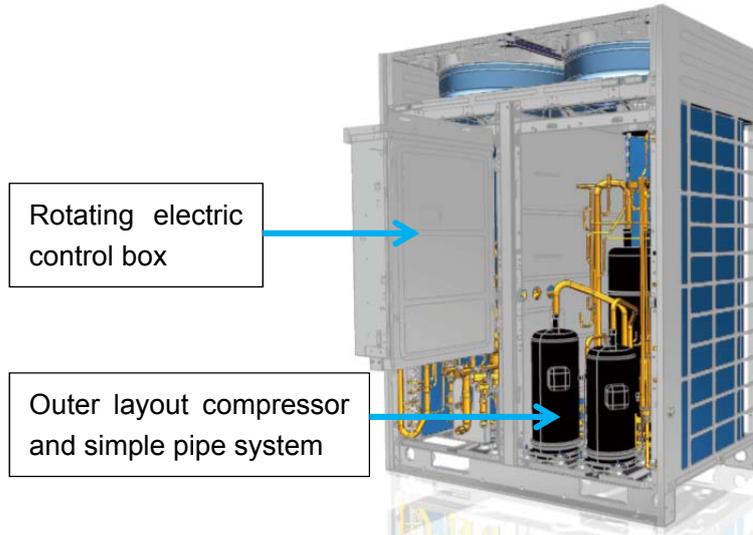


1.5.4 Professional structure design

Compressor is near the outside, and there is simple pipe system for convenient maintenance.

The newly designed rotating control box is so excellent that it can rotate in a wide angle.

It is convenient for the inspection and maintenance of the pipeline system and greatly reduced the time of dismount the electric control box.



2. Outdoor units lineup

● Outdoor units lineup

The capacity range of outdoor units is from 8HP up to 64HP 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, 12, 14, 16HP



18-32HP



34-48HP



50-64HP



● **Combination table**

| Capacity (HP) | Standard combination | | High efficiency combination | | Max. N° of connectable indoor units |
|------------------|----------------------|------------------|-----------------------------|------------------|---|
| | Model | Combination type | Model | Combination type | |
| 8 | MVUR252B-VA3 | 8HP×1 | MVUR252B-VA3 | 8HP×1 | 13 |
| 10 | MVUR280B-VA3 | 10HP×1 | MVUR280B-VA3 | 10HP×1 | 16 |
| 12 | MVUR335B-VA3 | 12HP×1 | MVUR335B-VA3 | 12HP×1 | 20 |
| 14 | MVUR400B-VA3 | 14HP×1 | MVUR400B-VA3 | 14HP×1 | 23 |
| 16 | MVUR450B-VA3 | 16HP×1 | MVUR450B-VA3 | 8HP+8HP | 26 |
| 18 | MVUR532B-VA3 | 8HP+10HP | MVUR532B-VA3 | 8HP+10HP | 29 |
| 20 | MVUR560B-VA3 | 10HP+10HP | MVUR560B-VA3 | 8HP+12HP | 33 |
| 22 | MVUR615B-VA3 | 10HP+12HP | MVUR615B-VA3 | 10HP+12HP | 36 |
| 24 | MVUR680B-VA3 | 10HP+14HP | MVUR680B-VA3 | 8HP×3 | 39 |
| 26 | MVUR730B-VA3 | 10HP+16HP | MVUR730B-VA3 | 8HP×2+10HP | 43 |
| 28 | MVUR800B-VA3 | 14HP×2 | MVUR800B-VA3 | 8HP×2+12HP | 46 |
| 30 | MVUR850B-VA3 | 14HP+16HP | MVUR850B-VA3 | 8HP+10HP+12HP | 50 |
| 32 | MVUR900B-VA3 | 16HP×2 | MVUR900B-VA3 | 8HP×4 | 53 |
| 34 | MVUR960B-VA3 | 10HP×2+14HP | MVUR960B-VA3 | 8HP×3+10HP | 56 |
| 36 | MVUR1010B-VA3 | 10HP×2+16HP | MVUR1010B-VA3 | 8HP×3+12HP | 59 |
| 38 | MVUR1065B-VA3 | 10HP+12HP+16HP | MVUR1065B-VA3 | 8HP×2+10HP+12HP | 63 |
| 40 | MVUR1130B-VA3 | 10HP+14HP+16HP | MVUR1130B-VA3 | 8HP×2+12HP×2 | 64 |
| 42 | MVUR1200B-VA3 | 14HP×3 | MVUR1200B-VA3 | 8HP+10HP+12HP×2 | 64 |
| 44 | MVUR1250B-VA3 | 14HP×2+16HP | MVUR1250B-VA3 | 8HP+12HP×3 | 64 |
| 46 | MVUR1300B-VA3 | 14HP+16HP×2 | MVUR1300B-VA3 | 10HP+12HP×3 | 64 |
| 48 | MVUR1350B-VA3 | 16HP×3 | MVUR1350B-VA3 | 12HP×4 | 64 |
| 50 | MVUR1432B-VA3 | 8HP+10HP+16HP×2 | MVUR1432B-VA3 | 12HP×3+14HP | 64 |
| 52 | MVUR1460B-VA3 | 10HP×2+16HP×2 | MVUR1460B-VA3 | 12HP×3+16HP | 64 |
| 54 | MVUR1515B-VA3 | 10HP+12HP+16HP×2 | MVUR1515B-VA3 | 12HP×2+14HP+16HP | 64 |
| 56 | MVUR1580B-VA3 | 10HP+14HP+16HP×2 | MVUR1580B-VA3 | 12HP×2+16HP×2 | 64 |
| 58 | MVUR1650B-VA3 | 14HP×3+16HP | MVUR1650B-VA3 | 12HP+14HP+16HP×2 | 64 |
| 60 | MVUR1700B-VA3 | 14HP×2+16HP×2 | MVUR1700B-VA3 | 12HP+16HP×3 | 64 |
| 62 | MVUR1750B-VA3 | 14HP+16HP×3 | MVUR1750B-VA3 | 14HP+16HP×3 | 64 |
| 64 | MVUR1800B-VA3 | 16HP×4 | MVUR1800B-VA3 | 16HP×4 | 64 |

3. MS units lineup

3.1 MS units which can be connected multiple indoor units

| Model name | External appearance |
|------------|--|
| MS02/N1-C |  |
| MS04/N1-C |  |
| MS06/N1-C |  |

Specifications

| MS Model | Max. number of all downstream indoor units |
|-----------|--|
| MS02/N1-C | 8 |
| MS04/N1-C | 16 |
| MS06/N1-C | 24 |

3.2 MS units which can be connected only one indoor unit

| Model name | External appearance |
|------------|--|
| MS02E/N1-C |  |
| MS04E/N1-C |  |

Specifications

| MS Model | Max. number of all downstream indoor units |
|------------|--|
| MS02E/N1-C | 1 |
| MS04E/N1-C | 1 |

4. Indoor units lineup

| Capacity (×100W) | Cassette type | | | | |
|---------------------|---|---|---|---|---|
| | One-way cassette | | Two-way cassette | Compact four-way cassette | Four-way cassette |
| |  |  |  |  |  |
| 18 | • | | | • | |
| 22 | • | | • | • | |
| 28 | • | | • | • | • |
| 36 | • | | • | • | • |
| 45 | | • | • | • | • |
| 56 | | • | • | • | • |
| 71 | | | • | | • |
| 80 | | | | | • |
| 90 | | | | | • |
| 100 | | | | | • |
| 112 | | | | | • |
| 140 | | | | | • |

| Capacity (×100W) | Duct type | | | | | |
|---------------------|---|---|---|--|---|---|
| | Low static pressure duct | Medium static pressure duct | High static pressure duct | | | |
| |  |  |  |  |  |  |
| 18 | • | | | | | |
| 22 | • | • | | | | |
| 28 | • | • | | | | |
| 36 | • | • | | | | |
| 45 | | • | | | | |
| 56 | | • | | | | |
| 71 | | • | • | | | |
| 80 | | • | • | | | |
| 90 | | • | • | | | |
| 100 | | | | | | |
| 112 | | • | • | | | |
| 140 | | • | | • | | |
| 160 | | | | • | | |
| 200 | | | | | • | |
| 250 | | | | | • | |
| 280 | | | | | • | |
| 400 | | | | | | • |
| 450 | | | | | | • |
| 560 | | | | | | • |

Indoor units lineup

| Capacity (×100W) | Floor-standing/Ceiling & Floor/Console | | |
|---------------------|---|---|---|
| | Cased floor-standing | Ceiling & floor | console |
| |  |  |  |
| 22 | • | | • |
| 28 | • | | • |
| 36 | • | • | • |
| 45 | • | • | • |
| 56 | • | • | |
| 71 | • | • | |
| 80 | • | • | |
| 90 | | • | |
| 112 | | • | |
| 140 | | • | |
| 160 | | • | |

| Capacity (×100W) | Wall mounted | |
|---------------------|---|---|
| | Wall mounted | Wall mounted |
| |  |  |
| 22 | • | • |
| 28 | • | • |
| 36 | • | • |
| 45 | • | • |
| 56 | • | • |
| 71 | • | • |
| 80 | | |
| 90 | | |
| 125 | | |
| 140 | | |
| 200 | | |
| 250 | | |
| 280 | | |

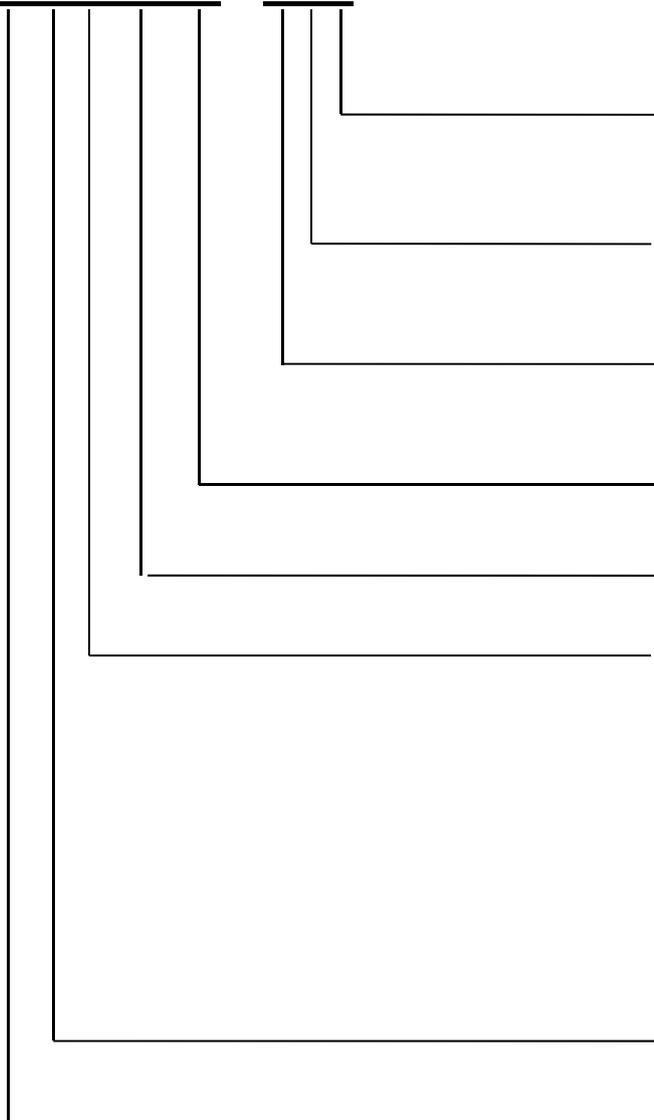
Note:

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

5. Nomenclature

5.1 Outdoor unit

MVUH252B - VA3



Power

1 - 1 phase, 50 Hz

3 - 3 phases, 50 Hz

Refrigerant

A - R410A

B - R22

Inverter

(in)**V**(erter) - inverter

S(tandard) – on/off

Model, Modification

A...Z, AA...ZZ

Capacity index

kW*10

The main feature of the system

air cooled:

C(ooling) – cooling only

H(eat pump) – cooling and heating

R(ecovery) – heat recovery, 3-pipe

water cooled:

Q(ooling) – cooling only

W(ater) – cooling and heating

(reco)**V**(ery) – heat recovery, 3-pipe

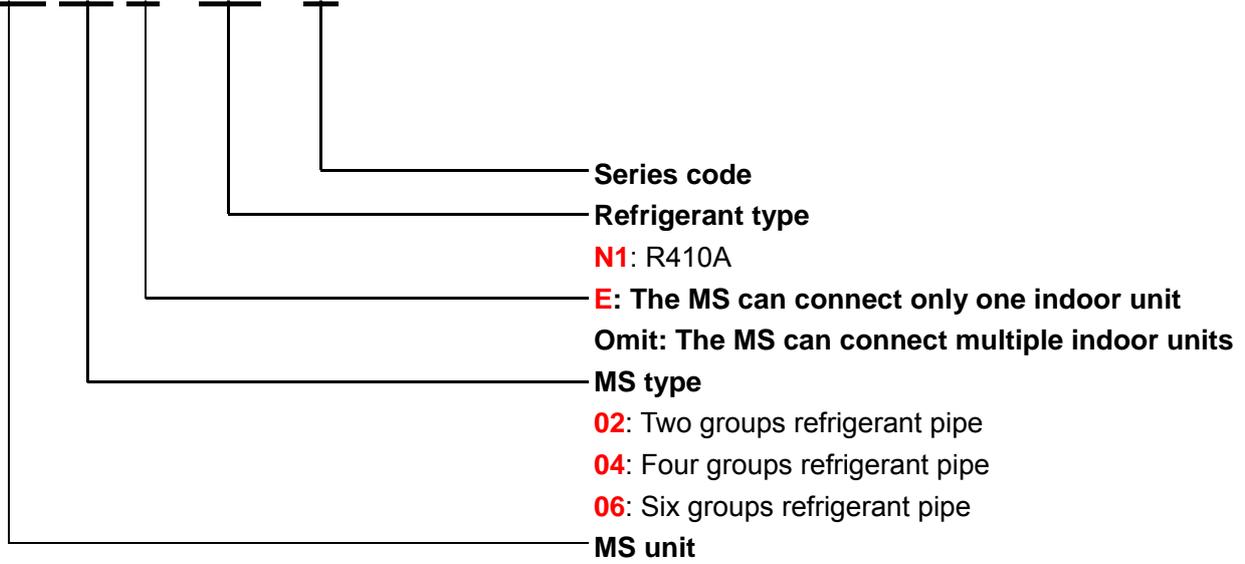
Identifier of the outdoor unit

(o)**U**(tdoor)

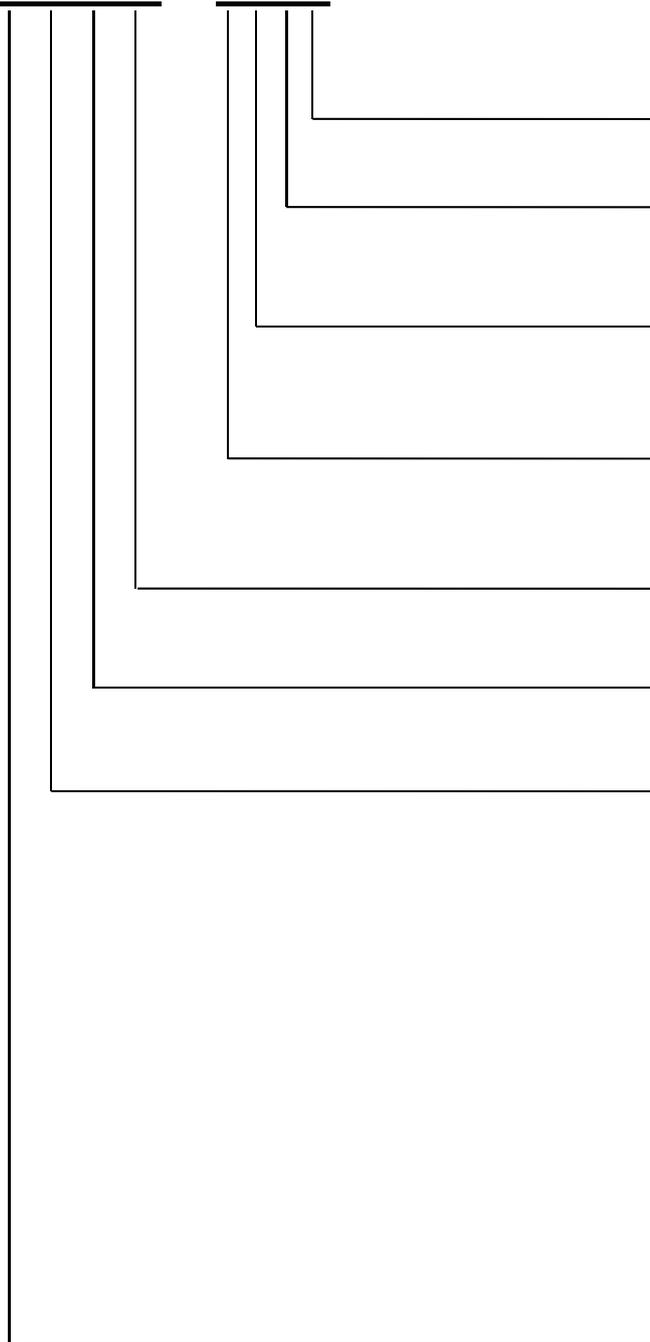
Manufacturer's brand and class of the system **M**(idea) **V**(RF)

5.2 MS unit

MS 02 E / N1 - C



5.3 Indoor unit

MVC28A – VA1**Design features (may be absent)**

For example: **G**(rey), **W** (hite) - color

Power

1 - 1 phase, 50 Hz

3 - 3 phases, 50 Hz

Refrigerant

A - R410A

B - R22

Inverter

(in)**V**(erter) - inverter

S(tandard) - on/off

Model, Modification

A...Z, AA...ZZ

Capacity index

kW*10

Type of the indoor unit

W(all) - wall

(ca)**S**(ette) – cassette 600x600

C(assette) - cassette

(o)**N**(e way) – 1-way cassette

T(wo way) – 2-way cassette

L(ow) – low static pressure duct

M(edium) – medium static pressure duct

H(igh) - high static pressure duct

(fle)**X** – ceiling & floor

F(loor standing) – floor standing (колонный)

E(floor-standing **e**xposed) – floor standing
exposed

D – console

Manufacturer's brand and class of the system **M(idea) **V**(RF)**

Part 2 Selection Procedure

- 1. Introduction 17**
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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 8~16 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(Btu/h) | Indoor Unit Combination Ratio kW(Btu/h) | | | | | | | | |
|---------------------------|---|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|
| | 130% | 120% | 110% | 100% | 90% | 80% | 70% | 60% | 50% |
| 8(86000) | 32.8 (111900) | 30.2 (103000) | 27.7 (94500) | 25.2 (86000) | 22.7 (77500) | 20.1 (68600) | 17.6 (60100) | 15.1 (51500) | 12.6 (43000) |
| 10(95500) | 36.4 (124200) | 33.6 (114600) | 30.8 (105100) | 28.0 (95500) | 25.2 (86000) | 22.4 (76400) | 19.6 (66900) | 16.8 (57300) | 14.0 (47800) |
| 12(114300) | 43.6 (148800) | 40.2 (137200) | 36.9 (125900) | 33.5 (114300) | 30.2 (103000) | 26.8 (91400) | 23.5 (80200) | 20.2 (68900) | 16.8 (57300) |
| 14(136500) | 52.0 (177400) | 48.0 (163800) | 44.0 (150100) | 40.0 (136500) | 36.0 (122800) | 32.0 (109200) | 28.0 (95500) | 24.0 (81900) | 20.0 (68200) |
| 16(153500) | 58.5 (199600) | 54.0 (184200) | 49.5 (168900) | 45.0 (153500) | 40.5 (138200) | 36.0 (122800) | 31.5 (107500) | 27.0 (92100) | 22.5 (76800) |
| 18(181500) | 69.2 (236100) | 63.8 (217700) | 58.5 (199600) | 53.2 (181500) | 47.9 (163400) | 42.6 (145400) | 37.2 (126900) | 31.9 (108800) | 26.6 (90800) |
| 20(191000) | 72.8 (248400) | 67.2 (229300) | 61.6 (210200) | 56.0 (191100) | 50.4 (172000) | 44.8 (152900) | 39.2 (133800) | 33.6 (114600) | 28.0 (95500) |
| 22(209800) | 80.0 (273000) | 73.8 (251800) | 67.7 (231000) | 61.5 (209800) | 55.4 (189000) | 49.2 (167900) | 43.1 (147100) | 36.9 (125900) | 30.8 (105100) |
| 24(232000) | 88.4 (301600) | 81.6 (278400) | 74.8 (255200) | 68.0 (232000) | 61.2 (208800) | 54.4 (185600) | 47.6 (162400) | 40.8 (139200) | 34.0 (116000) |
| 26(249100) | 94.9 (323800) | 87.6 (298900) | 80.3 (274000) | 73.0 (249100) | 65.7 (224200) | 58.4 (199300) | 51.1 (174400) | 43.8 (149400) | 36.5 (124500) |
| 28(273000) | 104.0 (354900) | 96.0 (327600) | 88.0 (300300) | 80.0 (273000) | 72.0 (245700) | 64.0 (218400) | 56.0 (191100) | 48.0 (163800) | 40.0 (136500) |
| 30(290000) | 110.5 (377000) | 102.0 (348000) | 93.5 (319000) | 85.0 (290000) | 76.5 (261000) | 68.0 (232000) | 59.5 (203000) | 51.0 (174000) | 42.5 (145000) |
| 32(307000) | 117.0 (399200) | 108.0 (368500) | 99.0 (337800) | 90.0 (307100) | 81.0 (276400) | 72.0 (245700) | 63.0 (215000) | 54.0 (184200) | 45.0 (153500) |
| 34(327500) | 124.8 (425800) | 115.2 (393100) | 105.6 (360300) | 96.0 (327600) | 86.4 (294800) | 76.8 (262000) | 67.2 (229300) | 57.6 (196500) | 48.0 (163800) |
| 36(344600) | 131.3 (448000) | 121.2 (413500) | 111.1 (379100) | 101.0 (344600) | 90.9 (310200) | 80.8 (275700) | 70.7 (241200) | 60.6 (206800) | 50.5 (172300) |
| 38(363300) | 138.5 (472600) | 127.8 (436100) | 117.2 (399900) | 106.5 (363400) | 95.9 (327200) | 85.2 (290700) | 74.6 (254500) | 63.9 (218000) | 53.3 (181900) |

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(385600) | 146.9 (501200) | 135.6 (462700) | 124.3 (424100) | 113.0 (385600) | 101.7 (347000) | 90.4 (308400) | 79.1 (269900) | 67.8 (231300) | 56.5 (192800) |
| 42(409500) | 156.0 (532350) | 144.0 (491400) | 132.0 (450450) | 120.0 (409500) | 108.0 (368550) | 96.0 (327600) | 84.0 (286650) | 72.0 (245700) | 60.0 (204750) |
| 44(426500) | 162.5 (554450) | 150.0 (511800) | 137.5 (469150) | 125.0 (426500) | 112.5 (383850) | 100.0 (341200) | 87.5 (298550) | 75.0 (255900) | 62.5 (213250) |
| 46(443600) | 169.0 (576600) | 156.0 (532300) | 143.0 (487900) | 130.0 (443600) | 117.0 (399200) | 104.0 (354800) | 91.0 (310500) | 78.0 (266100) | 65.0 (221800) |
| 48(460600) | 175.5 (598800) | 162.0 (552700) | 148.5 (506700) | 135.0 (460600) | 121.5 (414600) | 108.0 (368500) | 94.5 (322400) | 81.0 (276400) | 67.5 (230300) |
| 50(488600) | 186.2 (635300) | 171.8 (586200) | 157.5 (537400) | 143.2 (488600) | 128.9 (439800) | 114.6 (391000) | 100.2 (341900) | 85.9 (293100) | 71.6 (244300) |
| 52(498100) | 189.8 (647600) | 175.2 (597800) | 160.6 (548000) | 146.0 (498200) | 131.4 (448300) | 116.8 (398500) | 102.2 (348700) | 87.6 (298900) | 73.0 (249100) |
| 54(516900) | 197.0 (672200) | 181.8 (620300) | 166.7 (568800) | 151.5 (516900) | 136.4 (465400) | 121.2 (413500) | 106.1 (362000) | 90.9 (310200) | 75.8 (258600) |
| 56(539100) | 205.4 (700800) | 189.6 (646900) | 173.8 (593000) | 158.0 (539100) | 142.2 (485200) | 126.4 (431300) | 110.6 (377400) | 94.8 (323500) | 79.0 (269500) |
| 58(563000) | 214.5 (731900) | 198.0 (675600) | 181.5 (619300) | 165.0 (563000) | 148.5 (506700) | 132.0 (450400) | 115.5 (394100) | 99.0 (337800) | 82.5 (281500) |
| 60(580000) | 221.0 (754000) | 204.0 (696000) | 187.0 (638000) | 170.0 (580000) | 153.0 (522000) | 136.0 (464000) | 119.0 (406000) | 102.0 (348000) | 85.0 (290000) |
| 62(597100) | 227.5 (776200) | 210.0 (716500) | 192.5 (656800) | 175.0 (597100) | 157.5 (537400) | 140.0 (477700) | 122.5 (418000) | 105.0 (358300) | 87.5 (298600) |
| 64(614000) | 234.0 (798200) | 216.0 (736800) | 198.0 (675400) | 180.0 (614000) | 162.0 (552600) | 144.0 (491200) | 126.0 (429800) | 108.0 (368400) | 90.0 (307000) |

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(Btu/h) | 1.8 (6140) | 2.2 (7500) | 2.8 (9550) | 3.6 (12280) | 4.5 (15350) | 5.6 (19110) | 7.1 (24230) | 8.0 (27300) | 9.0 (30710) | 11.2 (38220) |
| 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 (42650) | 14.0 (47770) | 16 (54590) | 20 (68240) | 25 (85300) | 28 (95540) | 40 (136500) | 45 (153500) | 56 (191070) | |

1.4 Actual performance date

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.

$$\mathbf{IUC=OUC \times INX/TNX}$$

Where,

IUC: Each indoor unit capacity

OUC: Outdoors unit capacity

INX: Each indoor unit capacity index

TNX: Total capacity index

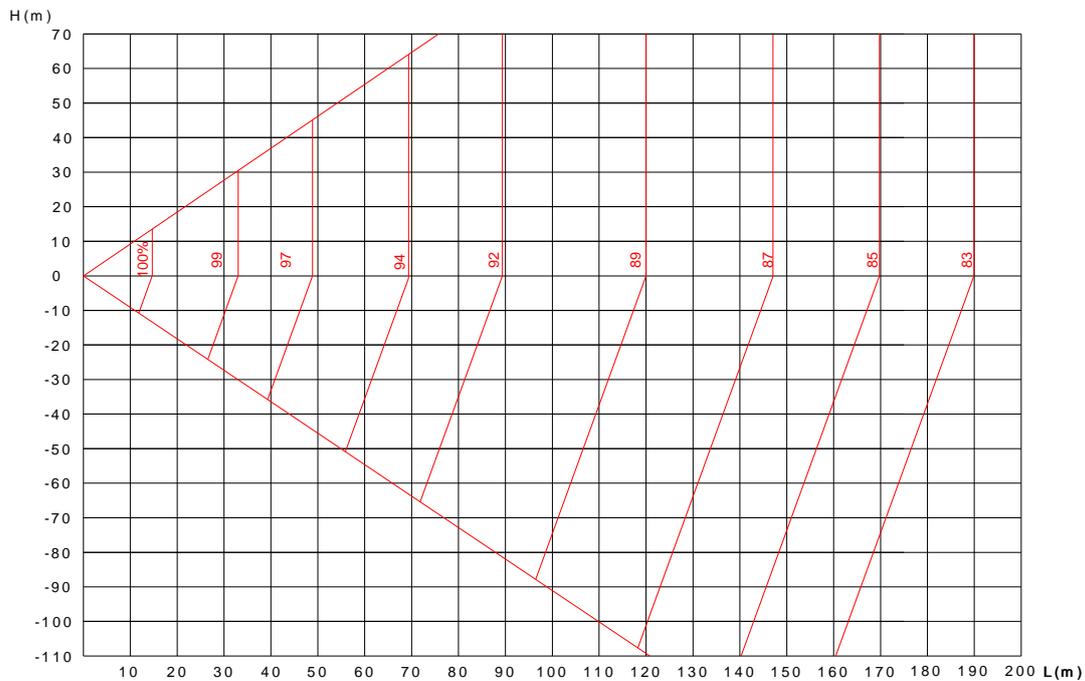
Then, correct the indoor unit capacity according to the piping length.

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:

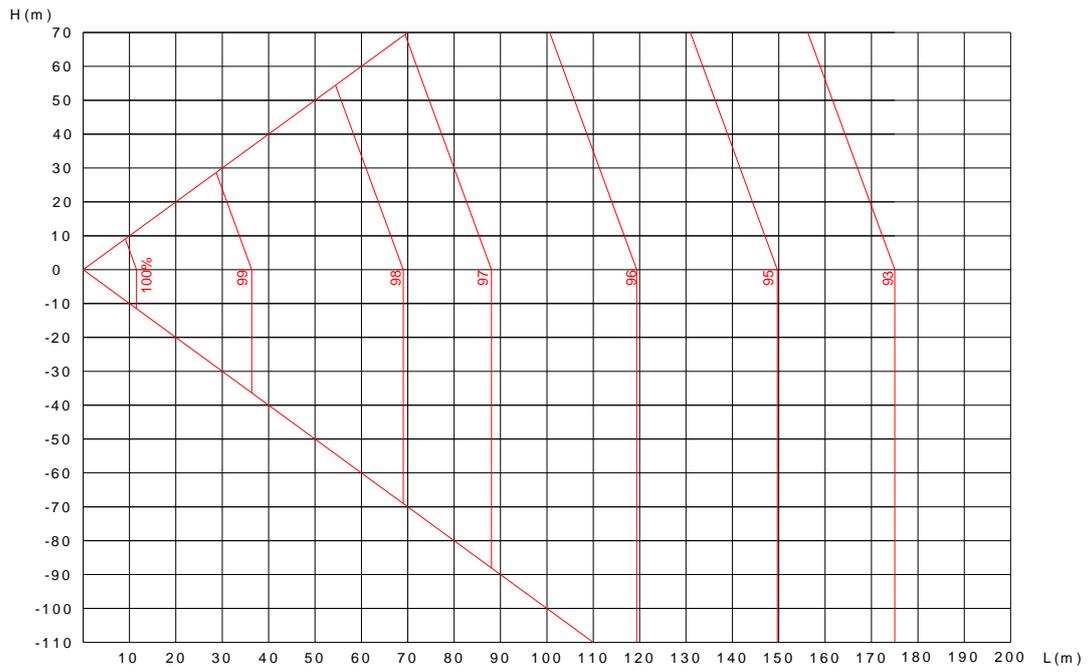
1.5.1 Cooling capacity modification



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°CWB, outdoor temperature 35°CDB;

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: 50m; Height difference between indoor unit and outdoor unit: 30m

2.2 Indoor unit selection

Select the suitable capacity for condition of 'Indoor 20°C WB, Outdoor 35°C 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: MVUR280B-VA3 which has nominal cooling capacity: 28kW (95500Btu/h).
 Calculate the proportion: $25.8/28 = 92\%$

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 (MVUR280B-VA3).
 $26.8\text{kW}(91440\text{Btu/h}) \leftarrow 90\%$ (Indoor temperature: WB 20°C, Outdoor temperature: DB 35°C)
 $28.3\text{kW}(96560\text{Btu/h}) \leftarrow 100\%$ (Indoor temperature: WB 20°C, Outdoor temperature: DB 35°C)
 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 (MVUR280B-VA3) cooling temperature: DB 35°C
- ◆ Capacity modification coefficient with pipe length 50m and height difference 30m: 0.958
- ◆ Each indoor unit cooling capacity
Room A: MVM22A-VA1 ($27.1 \times 2.1 / 25.8 \times 0.958 = 2.21\text{kW}$) ($92470 \times 7170 / 88000 \times 0.958 = 7540\text{Btu/h}$)
Room B: MVM28A-VA1 ($27.1 \times 2.8 / 25.8 \times 0.958 = 2.82\text{kW}$) ($92470 \times 9550 / 88000 \times 0.958 = 9620\text{Btu/h}$)
Room C: MVM36A-VA1 ($27.1 \times 3.5 / 25.8 \times 0.958 = 3.62\text{kW}$) ($92470 \times 11900 / 88000 \times 0.958 = 12350\text{Btu/h}$)
Room D: MVM45A-VA1 ($27.1 \times 4.5 / 25.8 \times 0.958 = 4.53\text{kW}$) ($92470 \times 15400 / 88000 \times 0.958 = 15460\text{Btu/h}$)
Room E: MVM56A-VA1 ($27.1 \times 5.6 / 25.8 \times 0.958 = 5.64\text{kW}$) ($92470 \times 19110 / 88000 \times 0.958 = 19250\text{Btu/h}$)
Room F: MVM71A-VA1 ($27.1 \times 7.1 / 25.8 \times 0.958 = 7.14\text{kW}$) ($92470 \times 24200 / 88000 \times 0.958 = 24360\text{Btu/h}$)

| 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

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1. Specifications

1.1 Outdoor unit specifications

Independent unit specifications

| Model | | MVUR252B-VA3 | MVUR280B-VA3 | MVUR335B-VA3 | |
|------------------------|----------------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | |
| Cooling | Capacity | kW | 25.2 | 28.0 | |
| | | Btu/h | 86,000 | 95,500 | |
| | Power input | kW | 5.73 | 6.67 | |
| | EER | kW/kW | 4.40 | 4.20 | |
| Heating | Capacity | kW | 27.0 | 31.5 | |
| | | Btu/h | 92,100 | 107,500 | |
| | Power input | kW | 6.00 | 7.33 | |
| | COP | kW/kW | 4.50 | 4.30 | |
| DC inverter compressor | Model | | E655DHD-65D2YG | E655DHD-65D2YG | E655DHD-65D2YG |
| | Type | | DC inverter | DC inverter | DC inverter |
| | Brand | | Hitachi | Hitachi | Hitachi |
| | Quantity | | 1 | 1 | 1 |
| | Capacity | kW | 31.59 | 31.59 | 31.59 |
| | | Btu/h | 107,800 | 107,800 | 107,800 |
| | Crankcase heater | | W | 30×2 | 30×2 |
| | Refrigerant oil type | | FVC68D | FVC68D | FVC68D |
| | Refrigerant oil charge | | ml | 500 | 500 |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 |
| | Type | | DC motor | DC motor | DC motor |
| | Quantity | | 2 | 2 | 2 |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec |
| | Insulation class | | E | E | E |
| | Safe class | | IP23 | IP23 | IP23 |
| | Input | W | 520 | 520 | 520 |
| | Output | W | 420 | 420 | 420 |
| Outdoor fan | Material | | Plastic | Plastic | Plastic |
| | Type | | Axial | Axial | Axial |
| | Quantity | | 2 | 2 | 2 |
| | External static pressure | Pa | 0~20 (default) | | |
| Pa | | 20~60 (need to customize) | | | |
| Outdoor coil | Number of rows | | 2 | 2 | 2 |
| | 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 aluminium | Hydrophilic aluminium | Hydrophilic aluminium |
| | Tube outside diameter | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | Φ5/16(7.94) |
| | Tube type | | inner-groove tube | inner-groove tube | inner-groove tube |
| | Coil dimension (W×D×H) | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) |
| | Condenser quantity | | 2 | 2 | 2 |

| | | | | | |
|----------------------------|----------------------------------|---------|---------------|------------|------------|
| | Number of circuits | | 12 | 12 | 12 |
| Outdoor air flow | m ³ /h | | 12,000 | 12,000 | 13,000 |
| | CFM | | 7,060 | 7,060 | 7,650 |
| Sound pressure level | | dB(A) | 57 | 57 | 58 |
| Connectable indoor unit | Total capacity | % | 50-130 | 50-130 | 50-130 |
| | Max. quantity | | 13 | 16 | 20 |
| Outdoor unit | Net dimension (W×H×D) | mm | 1250×1615×765 | | |
| | Packing (W×H×D) | mm | 1305×1790×820 | | |
| | Net weight | kg | 255 | 255 | 255 |
| | Gross weight | kg | 273 | 273 | 273 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 10 | 10 | 10 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 5 | 5 | 5 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ3/8(9.53) | Φ1/2(12.7) | Φ1/2(12.7) |
| | Low Pressure Gas Pipe | in.(mm) | Φ7/8(22.2) | Φ7/8(22.2) | Φ1(25.4) |
| | High Pressure Gas Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Independent unit specifications

| Model | | | MVUR400B-VA3 | MVUR450B-VA3 | |
|------------------------|----------------------------|---------------------------|-----------------------------------|-----------------------------------|--------|
| Power supply | | V/Ph/Hz | 380-415/3/50 | 380-415/3/50 | |
| | | | 380-415/3/60 | 380-415/3/60 | |
| Cooling | Capacity | kW | 40.0 | 45.0 | |
| | | Btu/h | 136,500 | 153,500 | |
| | Power input | kW | 11.30 | 13.24 | |
| | EER | kW/kW | 3.54 | 3.40 | |
| Heating | Capacity | kW | 45.0 | 50.0 | |
| | | Btu/h | 153,500 | 170,600 | |
| | Power input | kW | 11.19 | 12.79 | |
| | COP | kW/kW | 4.02 | 3.91 | |
| DC inverter compressor | Model | | E655DHD-65D2YG+ E405DHD-36D2YG | E655DHD-65D2YG+ E405DHD-36D2YG | |
| | Type | | DC inverter | DC inverter | |
| | Brand | | Hitachi | Hitachi | |
| | Quantity | | 2 | 2 | |
| | Capacity | kW | 31.59+11.8 | 31.59+11.8 | |
| | | Btu/h | 107,800+40,300 | 107,800+40,300 | |
| | Crankcase heater | | W | 30×4 | 30×4 |
| | Refrigerant oil type | | | FVC68D | FVC68D |
| Refrigerant oil charge | | ml | 500+500 | 500+500 | |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | |
| | Type | | DC motor | DC motor | |
| | Quantity | | 2 | 2 | |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | |
| | Insulation class | | E | E | |
| | Safe class | | IP23 | IP23 | |
| | Input | W | 890 | 890 | |
| | Output | W | 710 | 710 | |
| Outdoor fan | Material | | Plastic | Plastic | |
| | Type | | Axial | Axial | |
| | Quantity | | 2 | 2 | |
| | External static pressure | Pa | 0~20 (default) | | |
| Pa | | 20~40 (need to customize) | | | |
| Outdoor coil | Number of rows | | 2 | 2 | |
| | Tube pitch(a)×row pitch(b) | in.(mm) | 7/8×3/4(22×19) | 7/8×3/4(22×19) | |
| | Fin spacing | in.(mm) | 1/16(1.6) | 1/16(1.6) | |
| | Fin type | | Hydrophilic aluminium | Hydrophilic aluminium | |
| | Tube outside diameter | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | |
| | Tube type | | inner-groove tube | inner-groove tube | |
| | Coil dimension (W×D×H) | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | |
| | Condenser quantity | | 2 | 2 | |
| | Number of circuits | | 12 | 12 | |
| Outdoor air flow | | m ³ /h | 15,000 | 15,000 | |

| | | | | |
|----------------------------|----------------------------------|---------|---------------|---------------|
| | | CFM | 8,830 | 8,830 |
| Sound pressure level | | dB(A) | 60 | 60 |
| Connectable indoor unit | Total capacity | % | 50-130 | 50-130 |
| | Max. quantity | | 23 | 26 |
| Outdoor unit | Net dimension (W×H×D) | mm | 1250×1615×765 | 1250×1615×765 |
| | Packing (W×H×D) | mm | 1305×1790×820 | 1305×1790×820 |
| | Net weight | kg | 303 | 303 |
| | Gross weight | kg | 322 | 322 |
| Refrigerant | Type | | R410A | R410A |
| | Factory charged | kg | 13 | 13 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D |
| | Oil charge | L | 7 | 7 |
| Throttle type | | | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ5/8(15.9) | Φ5/8(15.9) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-1/8(28.6) | Φ1-1/8(28.6) |
| | High Pressure Gas Pipe | in.(mm) | Φ7/8(22.2) | Φ7/8(22.2) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Combination unit specifications

| Model | Combination unit | | MVUR532B-VA3 | MVUR560B-VA3 | MVUR615B-VA3 |
|-------------------------|----------------------------|-------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | Independent unit | | MVUR252B-VA3 | MVUR280B-VA3 | MVUR280B-VA3 |
| | | | MVUR280B-VA3 | MVUR280B-VA3 | MVUR335B-VA3 |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 |
| Cooling | Capacity | kW | 53.2 | 56.0 | 61.5 |
| | | Btu/h | 181,500 | 191,000 | 209,800 |
| | Power input | kW | 12.40 | 13.34 | 14.74 |
| | EER | kW/kW | 4.29 | 4.20 | 4.17 |
| Heating | Capacity | kW | 58.5 | 63.0 | 69.0 |
| | | Btu/h | 199,600 | 215,000 | 235,500 |
| | Power input | kW | 13.33 | 14.66 | 16.05 |
| | COP | kW/kW | 4.39 | 4.30 | 4.30 |
| DC inverter compressor | Model | | E655DHD-65D2YG | E655DHD-65D2YG | E655DHD-65D2YG |
| | Type | | DC inverter | DC inverter | DC inverter |
| | Brand | | Hitachi | Hitachi | Hitachi |
| | Quantity | | 2 | 2 | 2 |
| | Capacity | kW | 31.59×2 | 31.59×2 | 31.59×2 |
| | | Btu/h | 107800×2 | 107800×2 | 107800×2 |
| | Crankcase heater | W | 30×4 | 30×4 | 30×4 |
| | Refrigerant oil type | | FVC68D | FVC68D | FVC68D |
| Refrigerant oil charge | ml | 500×2 | 500×2 | 500×2 | |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 |
| | Type | | DC motor | DC motor | DC motor |
| | Quantity | | 2×2 | 2×2 | 2×2 |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec |
| | Insulation class | | E | E | E |
| | Safe class | | IP23 | IP23 | IP23 |
| | Input | W | 520×2 | 520×2 | 520×2 |
| | Output | W | 420×2 | 420×2 | 420×2 |
| Outdoor fan | Material | | Plastic | Plastic | Plastic |
| | Type | | Axial | Axial | Axial |
| | Quantity | | 2×2 | 2×2 | 2×2 |
| 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 aluminium | | |
| | Tube outside diameter | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | Φ5/16(7.94) |
| | Tube type | | inner-groove tube | inner-groove tube | inner-groove tube |
| | Coil dimension (W×D×H) | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) |
| Outdoor air flow | | m ³ /h | 24,000 | 24,000 | 25,000 |
| | | CFM | 14,120 | 14,120 | 14,710 |
| Sound pressure level | | dB(A) | 61 | 61 | 62 |
| Connectable indoor unit | Total capacity | % | 50-130 | 50-130 | 50-130 |
| | Max. quantity | | 29 | 33 | 36 |

| | | | | | |
|----------------------------|----------------------------------|---------|-------------------|--------------|--------------|
| Outdoor unit | Net dimension (W×H×D) | mm | (1250×1615×765)×2 | | |
| | Packing (W×H×D) | mm | (1305×1790×820)×2 | | |
| | Net weight | kg | 255×2 | 255×2 | 255×2 |
| | Gross weight | kg | 273×2 | 273×2 | 273×2 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 10×2 | 10×2 | 10×2 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 10 | 10 | 10 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ5/8(15.9) | Φ5/8(15.9) | Φ5/8(15.9) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-1/4(31.8) | Φ1-1/4(31.8) | Φ1-1/4(31.8) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-1/8(28.6) | Φ1-1/8(28.6) | Φ1-1/8(28.6) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Combination unit specifications

| Model | Combination unit | | MVUR680B-VA3 | MVUR730B-VA3 | MVUR800B-VA3 | |
|------------------------|----------------------------|-------------------|-------------------------------------|-------------------------------------|---------------------------------------|------|
| | Independent unit | | MVUR280B-VA3 | MVUR280B-VA3 | MVUR400B-VA3 | |
| | | | MVUR400B-VA3 | MVUR450B-VA3 | MVUR400B-VA3 | |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | |
| Cooling | Capacity | kW | 68.0 | 73.0 | 80.0 | |
| | | Btu/h | 232,000 | 249,000 | 273,000 | |
| | Power input | kW | 17.97 | 19.9 | 22.6 | |
| | EER | kW/kW | 3.78 | 3.67 | 3.54 | |
| Heating | Capacity | kW | 76.5 | 81.5 | 90.0 | |
| | | Btu/h | 261,000 | 278,100 | 307,000 | |
| | Power input | kW | 18.52 | 20.1 | 22.4 | |
| | COP | kW/kW | 4.13 | 4.05 | 4.02 | |
| DC inverter compressor | Model | | E655DHD-65D2YG×2+ E405DHD-36D2YG | E655DHD-65D2YG×2+ E405DHD-36D2YG | (E655DHD-65D2YG+ E405DHD-36D2YG)×2 | |
| | Type | | DC inverter | DC inverter | DC inverter | |
| | Brand | | Hitachi | Hitachi | Hitachi | |
| | Quantity | | 3 | 3 | 4 | |
| | Capacity | kW | 31.59+(31.59+11.8) | 31.59+(31.59+11.8) | (31.59+11.8)×2 | |
| | | Btu/h | 107800+(107800+40300) | | (107800+40300)×2 | |
| | Crankcase heater | | W | 30×4 | 30×6 | 30×8 |
| | Refrigerant oil type | | FVC68D | | | |
| Refrigerant oil charge | | ml | 500×3 | 500×3 | 500×4 | |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 | |
| | Type | | DC motor | DC motor | DC motor | |
| | Quantity | | 2×2 | 2×2 | 2×2 | |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec | |
| | Insulation class | | E | | | |
| | Safe class | | IP23 | | | |
| | Input | W | 520+890 | 520+890 | 890×2 | |
| | Output | W | 420+710 | 420+710 | 710×2 | |
| Outdoor fan | Material | | Plastic | | | |
| | Type | | Axial | | | |
| | Quantity | | 2×2 | | | |
| 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 aluminium | | | |
| | Tube outside diameter | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | Φ5/16(7.94) | |
| | Tube type | | inner-groove tube | | | |
| | Coil dimension (W×D×H) | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | |
| Outdoor air flow | | m ³ /h | 27,000 | 27,000 | 30,000 | |
| | | CFM | 15,890 | 15,890 | 17,660 | |
| Sound pressure level | | dB(A) | 63 | 63 | 64 | |
| Connectable | Total capacity | % | 50-130 | 50-130 | 50-130 | |

| | | | | | |
|----------------------------|----------------------------------|---------|-------------------|--------------|--------------|
| indoor unit | Max. quantity | | 39 | 43 | 46 |
| Outdoor unit | Net dimension (W×H×D) | mm | (1250×1615×765)×2 | | |
| | Packing (W×H×D) | mm | (1305×1790×820)×2 | | |
| | Net weight | kg | 255+303 | 255+303 | 303×2 |
| | Gross weight | kg | 273+322 | 273+322 | 322×2 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 10+13 | 10+13 | 13×2 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 12 | 12 | 14 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ5/8(15.9) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-3/8(34.9) | Φ1-3/8(34.9) | Φ1-3/8(34.9) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-1/8(28.6) | Φ1-1/8(28.6) | Φ1-1/8(28.6) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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

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

Combination unit specifications

| Model | Combination unit | | MVUR 850B-VA3 | MVUR900B-VA3 | MVUR960B-VA3 |
|------------------------|----------------------------|-------------------|---------------------------------------|-----------------------------------|-------------------------------------|
| | Independent unit | | MVUR400B-VA3 | MVUR450B-VA3 | MVUR280B-VA3 |
| | | | MVUR450B-VA3 | MVUR450B-VA3 | MVUR280B-VA3 |
| | | | - | - | MVUR400B-VA3 |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 |
| Cooling | Capacity | kW | 85.0 | 90.0 | 96.0 |
| | | Btu/h | 290,000 | 307,000 | 327,500 |
| | Power input | kW | 24.54 | 26.48 | 24.64 |
| | EER | kW/kW | 3.46 | 3.40 | 3.90 |
| Heating | Capacity | kW | 95 | 100.0 | 108.0 |
| | | Btu/h | 324,100 | 341,200 | 368,500 |
| | Power input | kW | 23.98 | 25.58 | 25.85 |
| | COP | kW/kW | 3.96 | 3.91 | 4.18 |
| DC inverter compressor | Model | | (E655DHD-65D2YG+ E405DHD-36D2YG)×2 | | E655DHD-65D2YG×3+ E405DHD-36D2YG |
| | Type | | DC inverter | DC inverter | DC inverter |
| | Brand | | Hitachi | Hitachi | Hitachi |
| | Quantity | | 4 | 4 | 4 |
| | Capacity | kW | (31.59+11.8)×2 | (31.59+11.8)×2 | 31.59×2+(31.59+11.8) |
| | | Btu/h | (107800+40300)×2 | (107800+40300)×2 | 107800×2+ (107800+40300) |
| | Crankcase heater | | W | 30×8 | 30×8 |
| | Refrigerant oil type | | | FVC68D | FVC68D |
| | Refrigerant oil charge | | ml | 500×4 | 500×4 |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 |
| | Type | | DC motor | DC motor | DC motor |
| | Quantity | | 2×2 | 2×2 | 2×3 |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec |
| | Insulation class | | E | E | E |
| | Safe class | | IP23 | IP23 | IP23 |
| | Input | W | 890×2 | 890×2 | 520×2+890 |
| | Output | W | 710×2 | 710×2 | 420×2+710 |
| Outdoor fan | Material | | Plastic | Plastic | Plastic |
| | Type | | Axial | Axial | Axial |
| | Quantity | | 2×2 | 2×2 | 2×3 |
| Outdoor coil | Tube pitch(a)×row pitch(b) | | in.(mm) | 7/8×3/4(22×19) | 7/8×3/4(22×19) |
| | Fin spacing | | in.(mm) | 1/16(1.6) | 1/16(1.6) |
| | Fin type | | Hydrophilic aluminium | | |
| | Tube outside diameter | | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) |
| | Tube type | | inner-groove tube | | |
| | Coil dimension (W×D×H) | | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) |
| Outdoor air flow | | m ³ /h | 30,000 | 30,000 | 39,000 |
| | | CFM | 17,660 | 17,660 | 22,950 |

| | | | | | |
|----------------------------|----------------------------------|---------|-------------------|--------------|-------------------|
| Sound pressure level | | dB(A) | 64 | 64 | 65 |
| Connectable indoor unit | Total capacity | % | 50-130 | 50-130 | 50-130 |
| | Max. quantity | | 50 | 53 | 56 |
| Outdoor unit | Net dimension (W×H×D) | mm | (1250×1615×765)×2 | | (1250×1615×765)×3 |
| | Packing (W×H×D) | mm | (1305×1790×820)×2 | | (1305×1790×820)×3 |
| | Net weight | kg | 303×2 | 303×2 | 255×2+303 |
| | Gross weight | kg | 322×2 | 322×2 | 273×2+322 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 13×2 | 13×2 | 10×2+13 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 14 | 14 | 17 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-3/8(34.9) | Φ1-3/8(34.9) | Φ1-5/8(41.3) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-1/8(28.6) | Φ1-1/8(28.6) | Φ1-3/8(34.9) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Combination unit specifications

| Model | Combination unit | | MVUR1010B-VA3 | MVUR1065B-VA3 | MVUR1130B-VA3 |
|------------------------|----------------------------|-------------------|-------------------------------------|-----------------------------------|---------------------------------------|
| | Independent unit | | MVUR280B-VA3 | MVUR280B-VA3 | MVUR280B-VA3 |
| | | | MVUR280B-VA3 | MVUR335B-VA3 | MVUR400B-VA3 |
| | | | MVUR450B-VA3 | MVUR450B-VA3 | MVUR450B-VA3 |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 |
| Cooling | Capacity | kW | 101.0 | 106.5 | 113.0 |
| | | Btu/h | 344,500 | 363,300 | 385,500 |
| | Power input | kW | 26.58 | 27.98 | 31.21 |
| | EER | kW/kW | 3.80 | 3.81 | 3.62 |
| Heating | Capacity | kW | 113 | 119 | 126.5 |
| | | Btu/h | 385,600 | 406,100 | 431,600 |
| | Power input | kW | 27.45 | 28.84 | 31.31 |
| COP | kW/kW | 4.12 | 4.13 | 4.04 | |
| DC inverter compressor | Model | | E655DHD-65D2YG×3+ E405DHD-36D2YG | | E655DHD-65D2YG×3+ E405DHD-36D2YG×2 |
| | Type | | DC inverter | DC inverter | DC inverter |
| | Brand | | Hitachi | Hitachi | Hitachi |
| | Quantity | | 4 | 4 | 5 |
| | Capacity | kW | 31.59×2+(31.59+11.8) | | 31.59+(31.59+11.8)×2 |
| | | Btu/h | 107800×2+(107800+40300) | | 107800+ (107800+40300)×2 |
| | Crankcase heater | W | 30×8 | 30×8 | 30×10 |
| | Refrigerant oil type | | FVC68D | FVC68D | FVC68D |
| Refrigerant oil charge | ml | 500×4 | 500×4 | 500×5 | |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 |
| | Type | | DC motor | DC motor | DC motor |
| | Quantity | | 2×3 | 2×3 | 2×3 |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec |
| | Insulation class | | E | E | E |
| | Safe class | | IP23 | IP23 | IP23 |
| | Input | W | 520×2+890 | 520×2+890 | 520+890×2 |
| | Output | W | 420×2+710 | 420×2+710 | 420+710×2 |
| Outdoor fan | Material | | Plastic | Plastic | Plastic |
| | Type | | Axial | Axial | Axial |
| | Quantity | | 2×3 | 2×3 | 2×3 |
| 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 aluminium | | |
| | Tube outside diameter | in.(mm) | φ5/16(7.94) | φ5/16(7.94) | φ5/16(7.94) |
| | Tube type | | inner-groove tube | inner-groove tube | inner-groove tube |
| | Coil dimension (W×D×H) | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) |
| | Outdoor air flow | m ³ /h | 39,000 | 40,000 | 42,000 |

| | | | | | |
|----------------------------|----------------------------------|---------|-------------------|--------------|--------------|
| | | CFM | 22,950 | 23,540 | 24,720 |
| Sound pressure level | | dB(A) | 65 | 65 | 66 |
| Connectable indoor unit | Total capacity | % | 50-130 | 50-130 | 50-130 |
| | Max. quantity | | 59 | 63 | 64 |
| Outdoor unit | Net dimension (W×H×D) | mm | (1250×1615×765)×3 | | |
| | Packing (W×H×D) | mm | (1305×1790×820)×3 | | |
| | Net weight | kg | 255×2+303 | | 255+303×2 |
| | Gross weight | kg | 273×2+322 | | 273+322×2 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 10×2+13 | 10×2+13 | 10+13×2 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 17 | 17 | 19 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-5/8(41.3) | Φ1-5/8(41.3) | Φ1-5/8(41.3) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-3/8(34.9) | Φ1-3/8(34.9) | Φ1-3/8(34.9) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | | °C | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Combination unit specifications

| Model | Combination unit | | MVUR1200B-VA3 | MVUR1250B-VA3 | MVUR1300B-VA3 | |
|------------------------|----------------------------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|
| | Independent unit | | MVUR400B-VA3 | MVUR400B-VA3 | MVUR400B-VA3 | |
| | | | MVUR400B-VA3 | MVUR400B-VA3 | MVUR450B-VA3 | |
| | | | MVUR400B-VA3 | MVUR450B-VA3 | MVUR450B-VA3 | |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | |
| Cooling | Capacity | kW | 120.0 | 125.0 | 130.0 | |
| | | Btu/h | 409,500 | 426,500 | 443,500 | |
| | Power input | kW | 33.90 | 35.84 | 37.78 | |
| | EER | kW/kW | 3.54 | 3.49 | 3.44 | |
| Heating | Capacity | kW | 135.0 | 140.0 | 145.0 | |
| | | Btu/h | 460,500 | 477,600 | 494,700 | |
| | Power input | kW | 33.57 | 35.17 | 36.77 | |
| | COP | kW/kW | 4.02 | 3.98 | 3.94 | |
| DC inverter compressor | Model | | E655DHD-65D2YG×3+ E405DHD-36D2YG×3 | E655DHD-65D2YG×3+ E405DHD-36D2YG×3 | E655DHD-65D2YG×3+ E405DHD-36D2YG×3 | |
| | Type | | DC inverter | DC inverter | DC inverter | |
| | Brand | | Hitachi | Hitachi | Hitachi | |
| | Quantity | | 6 | 6 | 6 | |
| | Capacity | kW | (31.59+11.8)×3 | (31.59+11.8)×3 | (31.59+11.8)×3 | |
| | | Btu/h | (107800+40300)×3 | (107800+40300)×3 | (107800+40300)×3 | |
| | Crankcase heater | | W | 30×12 | 30×12 | 30×12 |
| | Refrigerant oil type | | | FVC68D | FVC68D | FVC68D |
| | Refrigerant oil charge | | ml | 500×6 | 500×6 | 500×6 |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 | |
| | Type | | DC motor | DC motor | DC motor | |
| | Quantity | | 2×3 | 2×3 | 2×3 | |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec | |
| | Insulation class | | E | E | E | |
| | Safe class | | IP23 | IP23 | IP23 | |
| | Input | W | 890×3 | 890×3 | 890×3 | |
| | Output | W | 710×3 | 710×3 | 710×3 | |
| Outdoor fan | Material | | Plastic | Plastic | Plastic | |
| | Type | | Axial | Axial | Axial | |
| | Quantity | | 2×3 | 2×3 | 2×3 | |
| 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 aluminium | Hydrophilic aluminium | Hydrophilic aluminium |
| | Tube outside diameter | | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | Φ5/16(7.94) |
| | Tube type | | | inner-groove tube | inner-groove tube | inner-groove tube |
| | Coil dimension (W×D×H) | | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) |
| Outdoor air flow | | m ³ /h | 45,000 | 45,000 | 45,000 | |
| | | CFM | 26,490 | 26,490 | 26,490 | |
| Sound pressure level | | dB(A) | 67 | 67 | 67 | |

| | | | | | |
|----------------------------|----------------------------------|---------|-------------------|--------------|--------------|
| Connectable indoor unit | Total capacity | % | 50-130 | 50-130 | 50-130 |
| | Max. quantity | | 64 | 64 | 64 |
| Outdoor unit | Net dimension (W×H×D) | mm | (1250×1615×765)×3 | | |
| | Packing (W×H×D) | mm | (1305×1790×820)×3 | | |
| | Net weight | kg | 303×3 | 303×3 | 303×3 |
| | Gross weight | kg | 322×3 | 322×3 | 322×3 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 13×3 | 13×3 | 13×3 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 21 | 21 | 21 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-5/8(41.3) | Φ1-5/8(41.3) | Φ1-5/8(41.3) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-3/8(34.9) | Φ1-3/8(34.9) | Φ1-3/8(34.9) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Combination unit specifications

| Model | Combination unit | | MVUR1350B-VA3 | MVUR1432B-VA3 | MVUR1460B-VA3 | |
|------------------------|----------------------------|---------|---------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| | Independent unit | | MVUR450B-VA3 | MVUR252B-VA3 | MVUR280B-VA3 | |
| | | | MVUR450B-VA3 | MVUR280B-VA3 | MVUR280B-VA3 | |
| | | | MVUR450B-VA3 | MVUR450B-VA3 | MVUR450B-VA3 | |
| | | - | MVUR450B-VA3 | MVUR450B-VA3 | | |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | |
| Cooling | Capacity | | kW | 135.0 | 143.2 | 146.0 |
| | | | Btu/h | 460,500 | 488,500 | 498,000 |
| | Power input | | kW | 39.72 | 38.88 | 39.82 |
| | EER | | kW/kW | 3.40 | 3.68 | 3.67 |
| Heating | Capacity | | kW | 150 | 158.5 | 163.0 |
| | | | Btu/h | 511,800 | 540,800 | 556,200 |
| | Power input | | kW | 38.37 | 38.91 | 40.24 |
| | COP | | kW/kW | 3.91 | 4.07 | 4.05 |
| DC inverter compressor | Model | | E655DHD-65D2YG×3+ E405DHD-36D2YG×3 | E655DHD-65D2YG×4+ E405DHD-36D2YG×2 | | |
| | Type | | DC inverter | DC inverter | DC inverter | |
| | Brand | | Hitachi | Hitachi | Hitachi | |
| | Quantity | | 6 | 6 | 6 | |
| | Capacity | | kW | (31.59+11.8)×3 | 31.59×2+(31.59+11.8)×2 | |
| | | | Btu/h | (107800+40300)×3 | 107800×2+(107800+40300)×2 | |
| | Crankcase heater | | W | 30×12 | 30×12 | 30×12 |
| | Refrigerant oil type | | | FVC68D | FVC68D | FVC68D |
| Refrigerant oil charge | | ml | 500×6 | 500×6 | 500×6 | |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 | |
| | Type | | DC motor | DC motor | DC motor | |
| | Quantity | | 2×3 | 2×4 | 2×4 | |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec | |
| | Insulation class | | E | E | E | |
| | Safe class | | IP23 | IP23 | IP23 | |
| | Input | | W | 890×3 | 520×2+890×2 | 520×2+890×2 |
| | Output | | W | 710×3 | 420×2+710×2 | 420×2+710×2 |
| Outdoor fan | Material | | Plastic | Plastic | Plastic | |
| | Type | | Axial | Axial | Axial | |
| | Quantity | | 2×3 | 2×4 | 2×4 | |
| 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 aluminium | Hydrophilic aluminium | Hydrophilic aluminium |
| | Tube outside diameter | | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | Φ5/16(7.94) |
| | Tube type | | | inner-groove tube | inner-groove tube | inner-groove tube |
| | Coil dimension (W×D×H) | | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) |
| | Outdoor air flow | | m ³ /h | 45,000 | 54,000 | 54,000 |

| | | | | | |
|----------------------------|----------------------------------|---------|-------------------|-------------------|--------------|
| | | CFM | 26,490 | 31,780 | 31,780 |
| Sound pressure level | | dB(A) | 67 | 68 | 68 |
| Connectable indoor unit | Total capacity | % | 50-130 | 50-130 | 50-130 |
| | Max. quantity | | 64 | 64 | 64 |
| Outdoor unit | Net dimension (W×H×D) | mm | (1250×1615×765)×3 | (1250×1615×765)×4 | |
| | Packing (W×H×D) | mm | (1305×1790×820)×3 | (1305×1790×820)×4 | |
| | Net weight | kg | 303×3 | 255×2+303×2 | |
| | Gross weight | kg | 322×3 | 273×2+322×2 | |
| Refrigerant | Type | | R410A | R410A | |
| | Factory charged | kg | 13×3 | 10×2+13×2 | |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 21 | 24 | 24 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ3/4(19.1) | Φ7/8(22.2) | Φ7/8(22.2) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-5/8(41.3) | Φ1-3/4(44.5) | Φ1-3/4(44.5) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-3/8(34.9) | Φ1-1/2(38.1) | Φ1-1/2(38.1) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Combination unit specifications

| Model | Combination unit | | MVUR1515B-VA3 | MVUR1580B-VA3 | MVUR1650B-VA3 | |
|------------------------|----------------------------|---------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|
| | Independent unit | | | MVUR280B-VA3 | MVUR280B-VA3 | MVUR400B-VA3 |
| | | | | MVUR335B-VA3 | MVUR400B-VA3 | MVUR400B-VA3 |
| | | | | MVUR450B-VA3 | MVUR450B-VA3 | MVUR400B-VA3 |
| | | | | MVUR450B-VA3 | MVUR450B-VA3 | MVUR450B-VA3 |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | |
| Cooling | Capacity | kW | 151.5 | 158.0 | 165.0 | |
| | | Btu/h | 516,800 | 539,000 | 563,000 | |
| | Power input | kW | 41.22 | 44.45 | 47.14 | |
| | EER | kW/kW | 3.68 | 3.55 | 3.50 | |
| Heating | Capacity | kW | 169 | 176.5 | 185.0 | |
| | | Btu/h | 576,700 | 602,200 | 631,100 | |
| | Power input | kW | 41.63 | 44.10 | 46.36 | |
| | COP | kW/kW | 4.06 | 4.00 | 3.99 | |
| DC inverter compressor | Model | | E655DHD-65D2YG×4+ E405DHD-36D2YG×2 | E655DHD-65D2YG×4+ E405DHD-36D2YG×3 | E655DHD-65D2YG×4+ E405DHD-36D2YG×4 | |
| | Type | | DC inverter | DC inverter | DC inverter | |
| | Brand | | Hitachi | Hitachi | Hitachi | |
| | Quantity | | 6 | 7 | 8 | |
| | Capacity | kW | 31.59×2+ (31.59+11.8)×2 | 31.59+(31.59+11.8)×3 | (31.59+11.8)×4 | |
| | | Btu/h | 107800×2+ (107800+40300)×2 | 107800+ (107800+40300)×3 | (107800+40300)×4 | |
| | Crankcase heater | | W | 30×12 | 30×14 | 30×16 |
| | Refrigerant oil type | | | FVC68D | FVC68D | FVC68D |
| Refrigerant oil charge | | ml | 500×6 | 500×7 | 500×8 | |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 | |
| | Type | | DC motor | DC motor | DC motor | |
| | Quantity | | 2×4 | 2×4 | 2×4 | |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec | |
| | Insulation class | | E | E | E | |
| | Safe class | | IP23 | IP23 | IP23 | |
| | Input | W | 520×2+890×2 | 520+890×3 | 890×4 | |
| | Output | W | 420×2+710×2 | 420+710×3 | 710×4 | |
| Outdoor fan | Material | | Plastic | Plastic | Plastic | |
| | Type | | Axial | Axial | Axial | |
| | Quantity | | 2×4 | 2×4 | 2×4 | |
| 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 aluminium | Hydrophilic aluminium | Hydrophilic aluminium |
| | Tube outside diameter | | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | Φ5/16(7.94) |
| | Tube type | | | inner-groove tube | inner-groove tube | inner-groove tube |
| | Coil dimension (W×D×H) | | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) |

| | | | | | |
|----------------------------|----------------------------------|-------------------|----------------------------|--------------|--------------|
| Outdoor air flow | | m ³ /h | 55,000 | 57,000 | 60,000 |
| | | CFM | 32,370 | 33,550 | 35,320 |
| 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 | Net dimension (W×H×D) | inch | (49-7/32×63-9/16×30-1/8)×4 | | |
| | | mm | (1250×1615×765)×4 | | |
| | Packing (W×H×D) | inch | (51-9/16×70-1/2×32-1/2)×4 | | |
| | | mm | (1305×1790×820)×4 | | |
| | Net weight | kg | 255×2+303×3 | 255+303×3 | 303×4 |
| | Gross weight | kg | 273×2+322×2 | 273+322×3 | 322×4 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 10×2+13×2 | 10+13×3 | 13×4 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 24 | 26 | 28 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ7/8(22.2) | Φ7/8(22.2) | Φ7/8(22.2) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-3/4(44.5) | Φ1-3/4(44.5) | Φ1-3/4(44.5) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-1/2(38.1) | Φ1-1/2(38.1) | Φ1-1/2(38.1) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

Combination unit specifications

| Model | Combination unit | | MVUR1700B-VA3 | MVUR1750B-VA3 | MVUR1800B-VA3 | |
|------------------------|----------------------------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------|
| | Independent unit | | | MVUR400B-VA3 | MVUR400B-VA3 | MVUR450B-VA3 |
| | | | | MVUR400B-VA3 | MVUR450B-VA3 | MVUR450B-VA3 |
| | | | | MVUR450B-VA3 | MVUR450B-VA3 | MVUR450B-VA3 |
| | | | | MVUR450B-VA3 | MVUR450B-VA3 | MVUR450B-VA3 |
| Power supply | | V/Ph/Hz | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | 380-415/3/50 380-415/3/60 | |
| Cooling | Capacity | kW | 170.0 | 175.0 | 180.0 | |
| | | Btu/h | 580,000 | 597,000 | 614,000 | |
| | Power input | kW | 49.08 | 51.02 | 52.96 | |
| | EER | kW/kW | 3.46 | 3.43 | 3.40 | |
| Heating | Capacity | kW | 190.0 | 195.0 | 200.0 | |
| | | Btu/h | 648,200 | 665,300 | 682,400 | |
| | Power input | kW | 47.96 | 49.56 | 51.16 | |
| | COP | kW/kW | 3.96 | 3.93 | 3.91 | |
| DC inverter compressor | Model | | E655DHD-65D2YG×4+ E405DHD-36D2YG×4 | E655DHD-65D2YG×4+ E405DHD-36D2YG×4 | E655DHD-65D2YG×4+ E405DHD-36D2YG×4 | |
| | Type | | DC inverter | DC inverter | DC inverter | |
| | Brand | | Hitachi | Hitachi | Hitachi | |
| | Quantity | | 8 | 8 | 8 | |
| | Capacity | kW | (31.59+11.8)×4 | (31.59+11.8)×4 | (31.59+11.8)×4 | |
| | | Btu/h | (107800+40300)×4 | (107800+40300)×4 | (107800+40300)×4 | |
| | Crankcase heater | | W | 30×16 | 30×16 | 30×16 |
| | Refrigerant oil type | | | FVC68D | FVC68D | FVC68D |
| Refrigerant oil charge | | ml | 500×8 | 500×8 | 500×8 | |
| Outdoor fan motor | Model | | WZDK750-38G-4 | WZDK750-38G-4 | WZDK750-38G-4 | |
| | Type | | DC motor | DC motor | DC motor | |
| | Quantity | | 2×4 | 2×4 | 2×4 | |
| | Brand | | Panasonic/Nidec | Panasonic/Nidec | Panasonic/Nidec | |
| | Insulation class | | E | E | E | |
| | Safe class | | IP23 | IP23 | IP23 | |
| | Input | W | 890×4 | 890×4 | 890×4 | |
| | Output | W | 710×4 | 710×4 | 710×4 | |
| Outdoor fan | Material | | Plastic | Plastic | Plastic | |
| | Type | | Axial | Axial | Axial | |
| | Quantity | | 2×4 | 2×4 | 2×4 | |
| 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 aluminium | Hydrophilic aluminium | Hydrophilic aluminium | |
| | Tube outside diameter | in.(mm) | Φ5/16(7.94) | Φ5/16(7.94) | Φ5/16(7.94) | |
| | Tube type | | inner-groove tube | inner-groove tube | inner-groove tube | |
| | Coil dimension (W×D×H) | in.(mm) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | 42×1-1/2×48-1/2 (1067×38×1232) | |
| Outdoor air flow | | m ³ /h | 60,000 | 60,000 | 60,000 | |
| | | CFM | 35,320 | 35,320 | 35,320 | |

| | | | | | |
|----------------------------|----------------------------------|---------|-------------------|--------------|--------------|
| 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 | Net dimension (W×H×D) | mm | (1250×1615×765)×4 | | |
| | Packing (W×H×D) | mm | (1305×1790×820)×4 | | |
| | Net weight | kg | 303×4 | 303×4 | 303×4 |
| | Gross weight | kg | 322×4 | 322×4 | 322×4 |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Factory charged | kg | 13×4 | 13×4 | 13×4 |
| Additional refrigerant oil | Oil type | | FVC68D | FVC68D | FVC68D |
| | Oil charge | L | 28 | 28 | 28 |
| Throttle type | | | EXV | EXV | EXV |
| Design pressure (Hi/Lo) | | MPa | 4.4/2.6 | 4.4/2.6 | 4.4/2.6 |
| | | PSI | 640/380 | 640/380 | 640/380 |
| Refrigerant piping | Liquid Pipe | in.(mm) | Φ7/8(22.2) | Φ7/8(22.2) | Φ7/8(22.2) |
| | Low Pressure Gas Pipe | in.(mm) | Φ1-3/4(44.5) | Φ1-3/4(44.5) | Φ1-3/4(44.5) |
| | High Pressure Gas Pipe | in.(mm) | Φ1-1/2(38.1) | Φ1-1/2(38.1) | Φ1-1/2(38.1) |
| | High Pressure Gas Balance Pipe | in.(mm) | Φ3/4(19.1) | Φ3/4(19.1) | Φ3/4(19.1) |
| | Oil Balance Pipe | in.(mm) | Φ1/4(6) | Φ1/4(6) | Φ1/4(6) |
| Ambient temp. range | Cooling | °C | -5~48 | -5~48 | -5~48 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| | Simultaneous Cooling and Heating | °C | -5~24 | -5~24 | -5~24 |

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

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

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

1.2 MS units specifications

MS units which can be connected multiple indoor units

| Mode | | | | MS02/N1-C | MS04/N1-C | MS06/N1-C |
|---|-------------------------|------------------------|----------|---------------------|-----------------------|-----------------------|
| Max. indoor unit groups | | | | 2 | 4 | 6 |
| Max. number of each group indoor units | | | | 4 | 4 | 4 |
| Max. number of all downstream indoor units | | | | 4×2=8 | 4×4=16 | 4×6=24 |
| Max. capacity of each group indoor units | | | kW | 16 | 16 | 16 |
| | | | kBtu/h | 54.6 | 54.6 | 54.6 |
| Total capacity of all downstream indoor units | | | kW | ≤28 | ≤45 | ≤45k |
| | | | kBtu/h | ≤95.5 | ≤153.5 | ≤153.5 |
| Piping connections | Connect to outdoor unit | Liquid pipe | In.(mm) | Φ1/2(12.7) | Φ5/8(15.9) | Φ5/8(15.9) |
| | | High pressure gas pipe | In.(mm) | Φ3/4(19.1) | Φ7/8(22.2) | Φ7/8(22.2) |
| | | Low pressure gas pipe | In.(mm) | Φ1(25.4) | Φ1-1/4(31.8) | Φ1-1/4(31.8) |
| | Connect to indoor unit | Liquid pipe | In.(mm) | Φ3/8(9.53) | Φ3/8(9.53) | Φ3/8(9.53) |
| | | Gas pipe | In.(mm) | Φ5/8(15.9) | Φ5/8(15.9) | Φ5/8(15.9) |
| Net dimension (W×H×D) | | | inch | 24-3/4×8-7/8×23-5/8 | 37-13/16×8-7/8×23-5/8 | 37-13/16×8-7/8×23-5/8 |
| | | | mm | 630×225×600 | 960×225×600 | 960×225×600 |
| Packing size (W×H×D) | | | inch | 28-9/16×12-3/4×27 | 41-1/2×12-3/4×27 | 41-1/2×12-3/4×27 |
| | | | mm | 725×325×685 | 1055×325×685 | 1055×325×685 |
| Net weight | | | lbs.(kg) | 42.9(19.5) | 68.2(31) | 77(35) |
| Gross weight | | | lbs.(kg) | 59.4(27) | 88(40) | 97.9(44.5) |

MS units which can be connected only one indoor unit

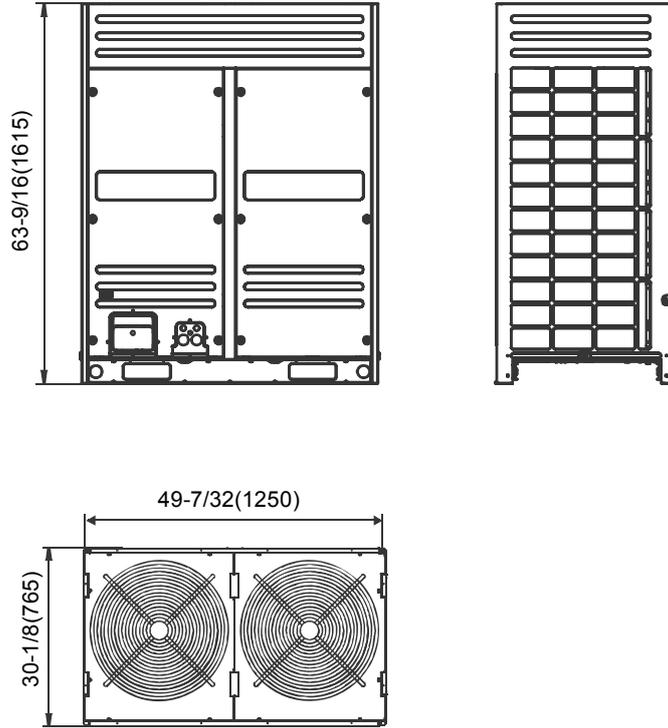
| Mode | | | | MS02E/N1-C | MS04E/N1-C |
|--|-------------------------|------------------------|----------|---------------------|-----------------------|
| Max. number of all downstream indoor units | | | | 1 | 1 |
| Capacity of indoor unit | | | kW | 20~28 | 40~56 |
| | | | kBtu/h | 68.2~95.5 | 136.5~191.1 |
| Piping connections | Connect to outdoor unit | Liquid pipe | In.(mm) | Φ1/2(12.7) | Φ5/8(15.9) |
| | | High pressure gas pipe | In.(mm) | Φ3/4(19.1) | Φ7/8(22.2) |
| | | Low pressure gas pipe | In.(mm) | Φ1(25.4) | Φ1-1/4(31.8) |
| | Connect to indoor unit | Liquid pipe | In.(mm) | Φ3/8(9.53) | Φ3/8(9.53) |
| | | Gas pipe | In.(mm) | Φ5/8(15.9) | Φ5/8(15.9) |
| Net dimension (W×H×D) | | | inch | 24-3/4×8-7/8×23-5/8 | 37-13/16×8-7/8×23-5/8 |
| | | | mm | 630×225×600 | 960×225×600 |
| Packing size (W×H×D) | | | inch | 28-9/16×12-3/4×27 | 41-1/2×12-3/4×27 |
| | | | mm | 725×325×685 | 1055×325×685 |
| Net weight | | | lbs.(kg) | 42.9(19.5) | 68.2(31) |
| Gross weight | | | lbs.(kg) | 59.4(27) | 88(40) |

2. Dimensions

2.1 Overall dimensions

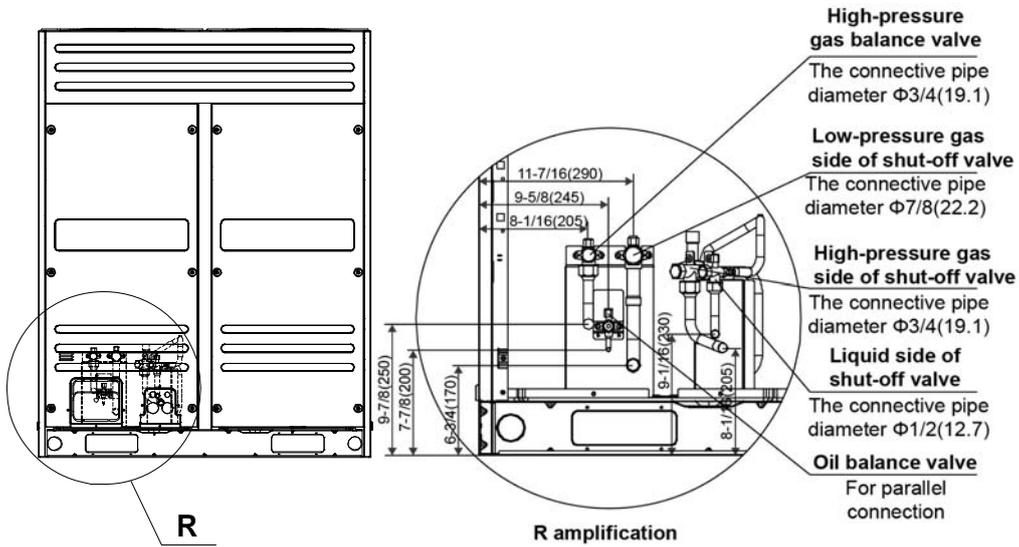
MVUR252B-VA3, MVUR280B-VA3, MVUR335B-VA3, MVUR400B-VA3, MVUR450B-VA3

Unit: in.(mm)

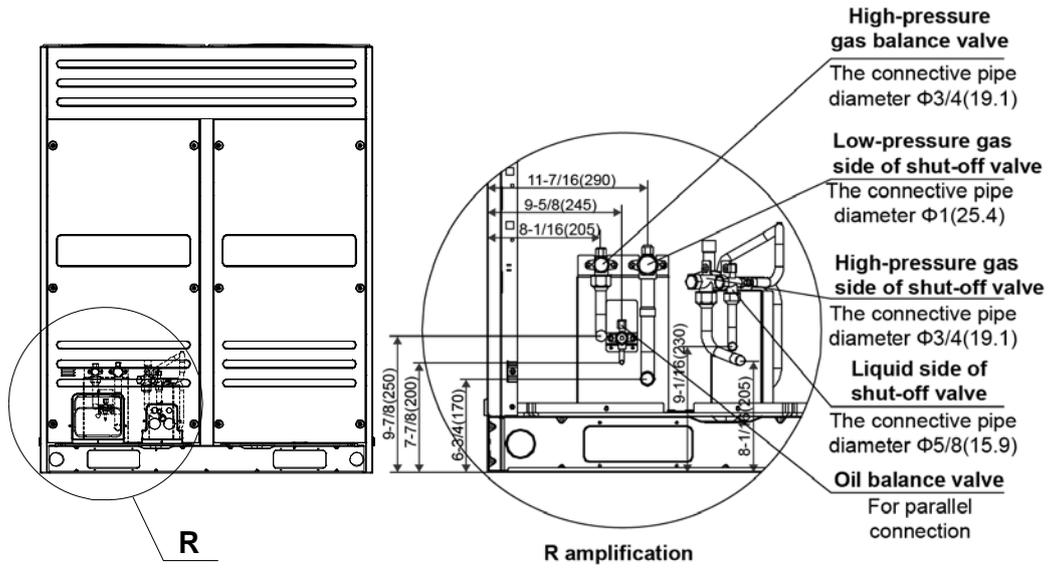


2.2 Section dimensions

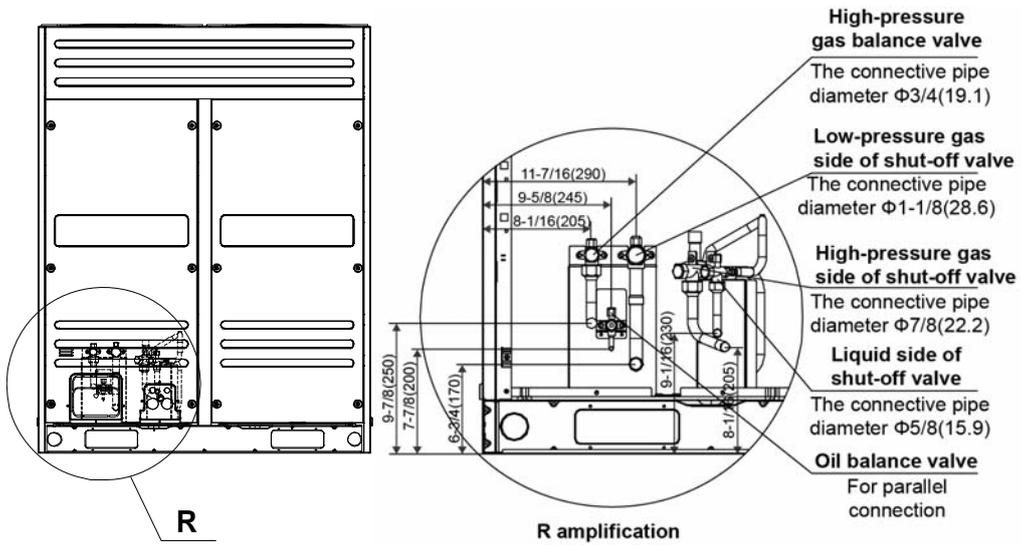
MVUR252B-VA3, MVUR280B-VA3



MVUR335B-VA3

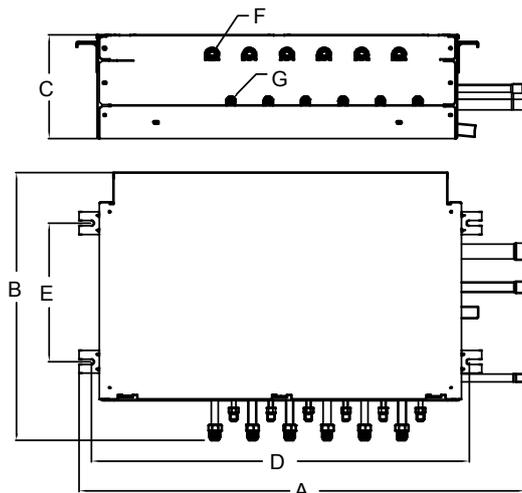


MVUR400B-VA3, MVUR450B-VA3



2.3 MS dimensions

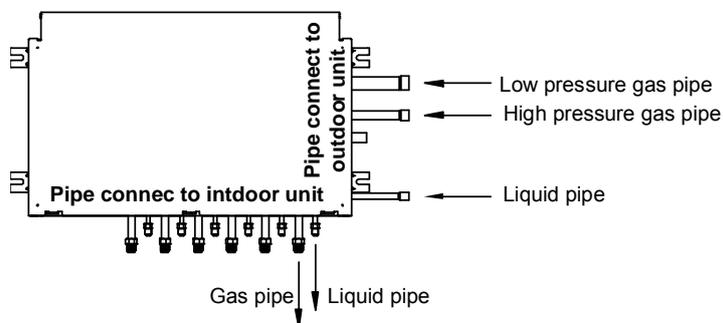
2.3.1 MS body dimensions



Unit mm

| Model | A | B | C | D | E | F | G |
|------------|-----|-----|-----|-----|-----|--------------|--------------|
| MS02/N1-C | 630 | 600 | 225 | 490 | 300 | 7/8"14UNF-2A | 5/8"18UNF-3A |
| MS04/N1-C | 960 | 600 | 225 | 820 | 300 | 7/8"14UNF-2A | 5/8"18UNF-3A |
| MS06/N1-C | 960 | 600 | 225 | 820 | 300 | 7/8"14UNF-2A | 5/8"18UNF-3A |
| MS02E/N1-C | 630 | 600 | 225 | 490 | 300 | 7/8"14UNF-2A | 5/8"18UNF-3A |
| MS04E/N1-C | 960 | 600 | 225 | 820 | 300 | 7/8"14UNF-2A | 5/8"18UNF-3A |

2.3.2 MS pipe dimensions



Unit mm

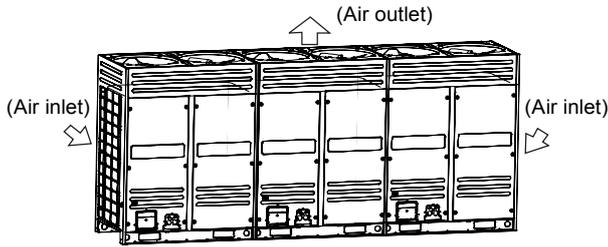
| Model | Connect to outdoor unit | | | Connect to indoor unit | |
|------------|-------------------------|--------------------|-------------|------------------------|----------|
| | Low pressure gas pipe | High pressure pipe | Liquid pipe | Liquid pipe | Gas pipe |
| MS02/N1-C | Φ25.4 | Φ19.1 | Φ12.7 | Φ9.53 | Φ15.9 |
| MS04/N1-C | Φ31.8 | Φ22.2 | Φ15.9 | Φ9.53 | Φ15.9 |
| MS06/N1-C | Φ31.8 | Φ22.2 | Φ15.9 | Φ9.53 | Φ15.9 |
| MS02E/N1-C | Φ25.4 | Φ19.1 | Φ12.7 | Φ9.53 | Φ15.9 |
| MS04E/N1-C | Φ31.8 | Φ22.2 | Φ15.9 | Φ9.53 | Φ15.9 |

3. Service space

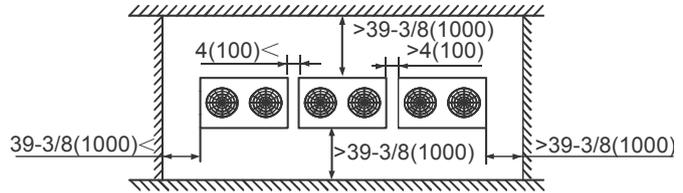
3.1 Service space for outdoor unit

- 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: in.(mm)



Installation and maintenance surface

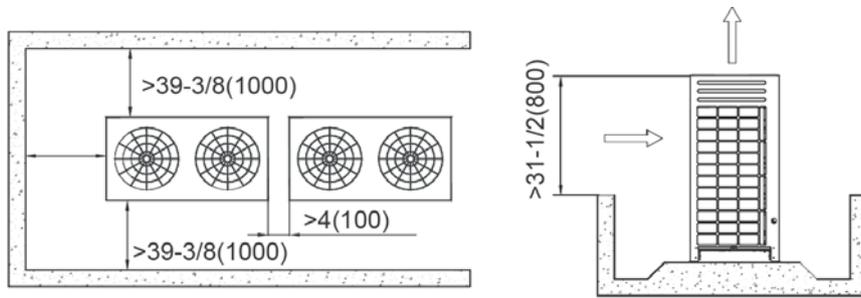


Top view of the outdoor unit

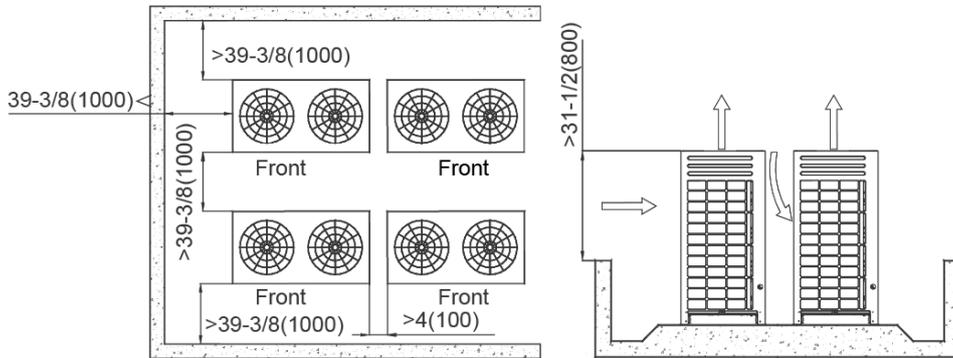
- When the outdoor unit is higher than the surrounding obstacle

Unit: in.(mm)

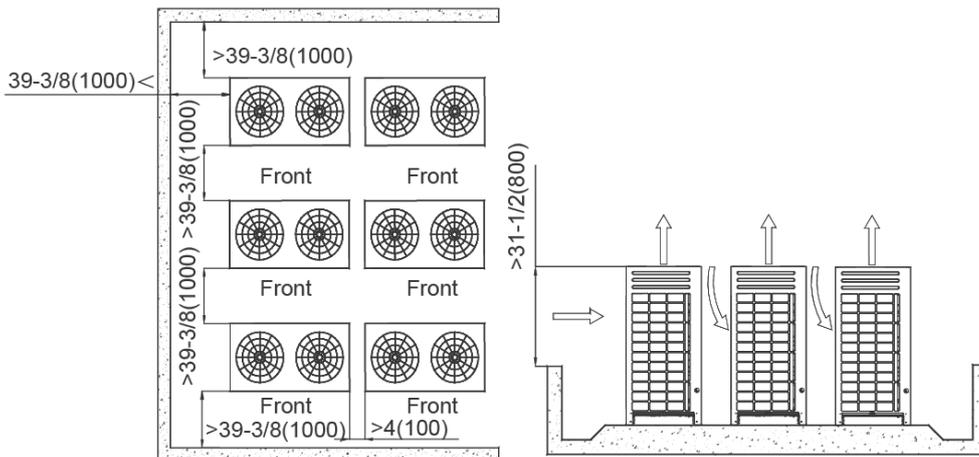
One row



Two rows

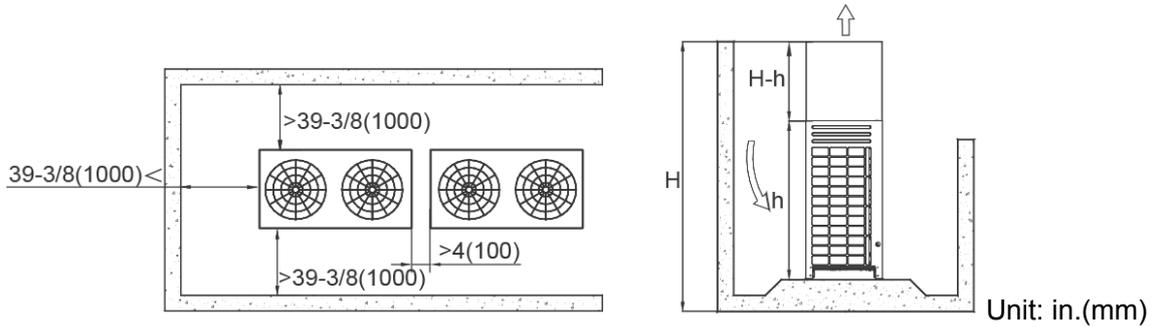


More than two rows

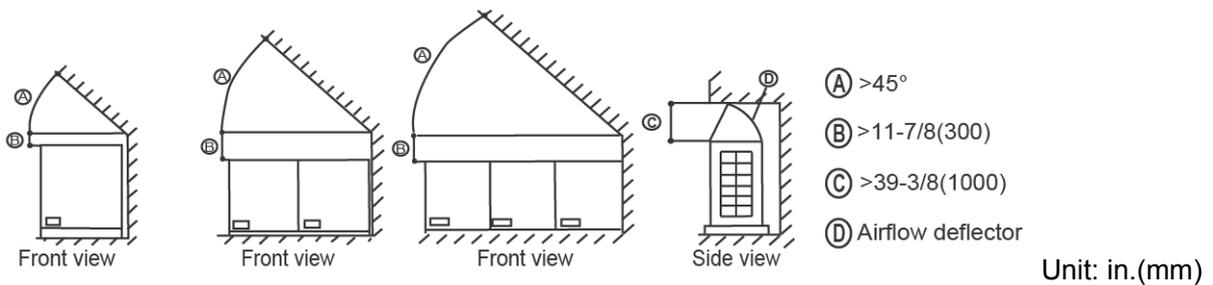


- When the outdoor unit is lower than the surrounding obstacle, to avoid cross connection of the outdoor hot

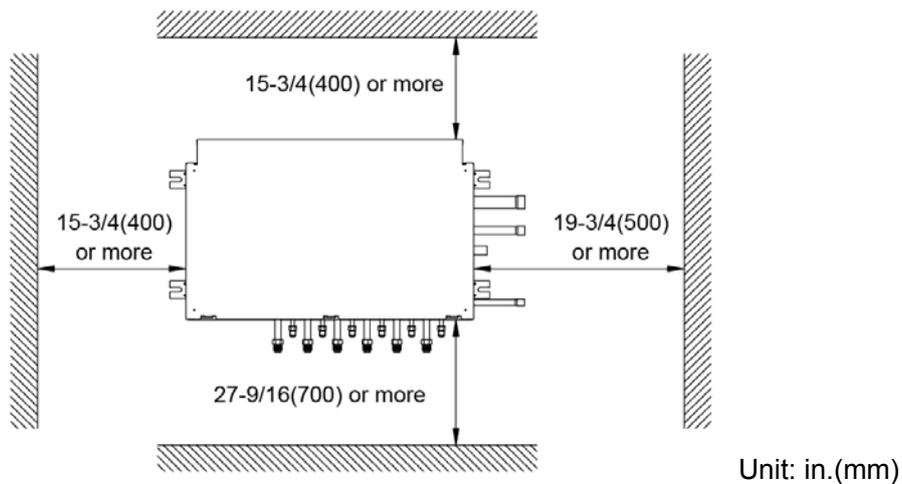
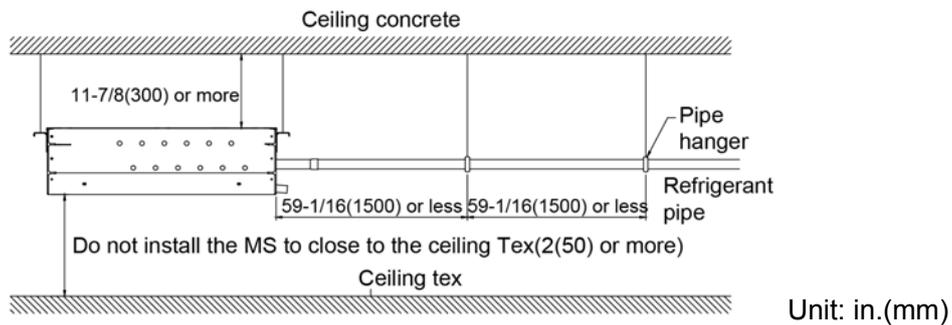
air from affecting the heat exchange effect, please add an air director onto the exhaust hood of the outdoor unit to facilitate heat dissipation. See the figure below. The height of the air director is HD (namely H-h). Please make the air director on site.



- If miscellaneous articles are piled around the outdoor unit, such articles must be 800mm below the top of the outdoor unit. The articles must be 800m below the top of the outdoor unit. Otherwise, a mechanic exhaust device must be added.

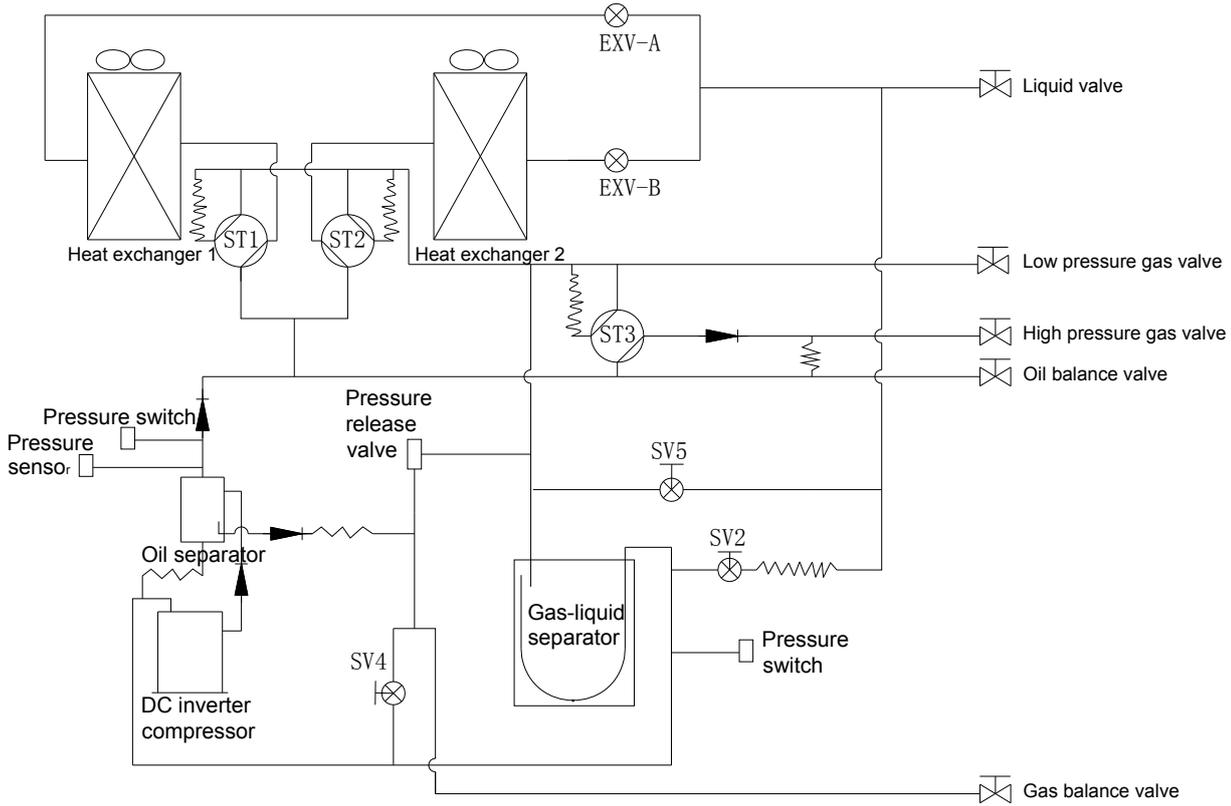


3.2 Service space for MS unit

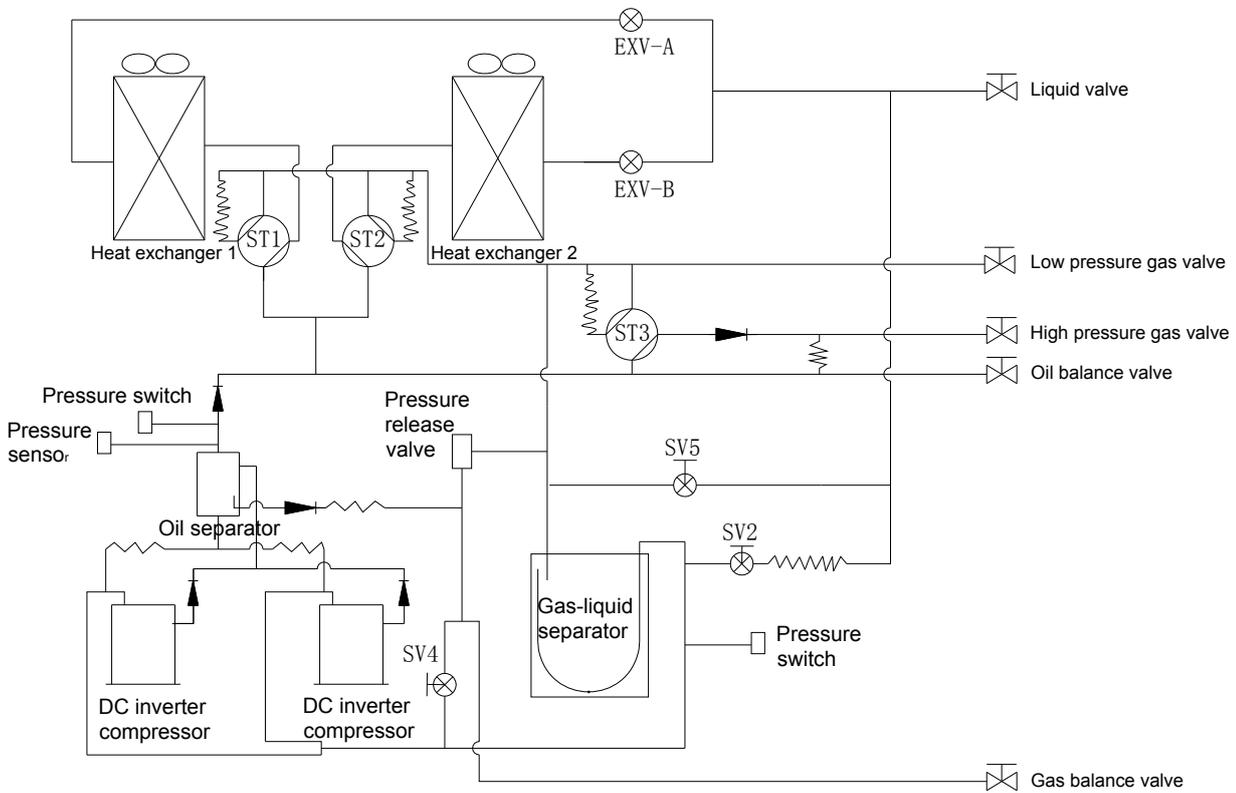


4. Piping diagrams

MVUR252B-VA3, MVUR280B-VA3, MVUR335B-VA3



MVUR400B-VA3, MVUR450B-VA3



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

Four-way valve ST1: It is used to control the refrigerant flow of the left heat-exchanger. When the ST1 is OFF, the left heat-exchanger is condenser. When the ST1 is ON, the left heat-exchanger is evaporator.

Four-way valve ST2: It is used to control the refrigerant flow of the right heat-exchanger. When the ST2 is OFF, the left heat-exchanger is condenser. When the ST1 is ON, the left heat-exchanger is evaporator or closed.

Four-way valve ST3: When the system is in total cooling mode, the ST3 is ON. When the system is in total heating mode or mixed mode, the ST3 is OFF.

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: It is used to balance the oil between modules.

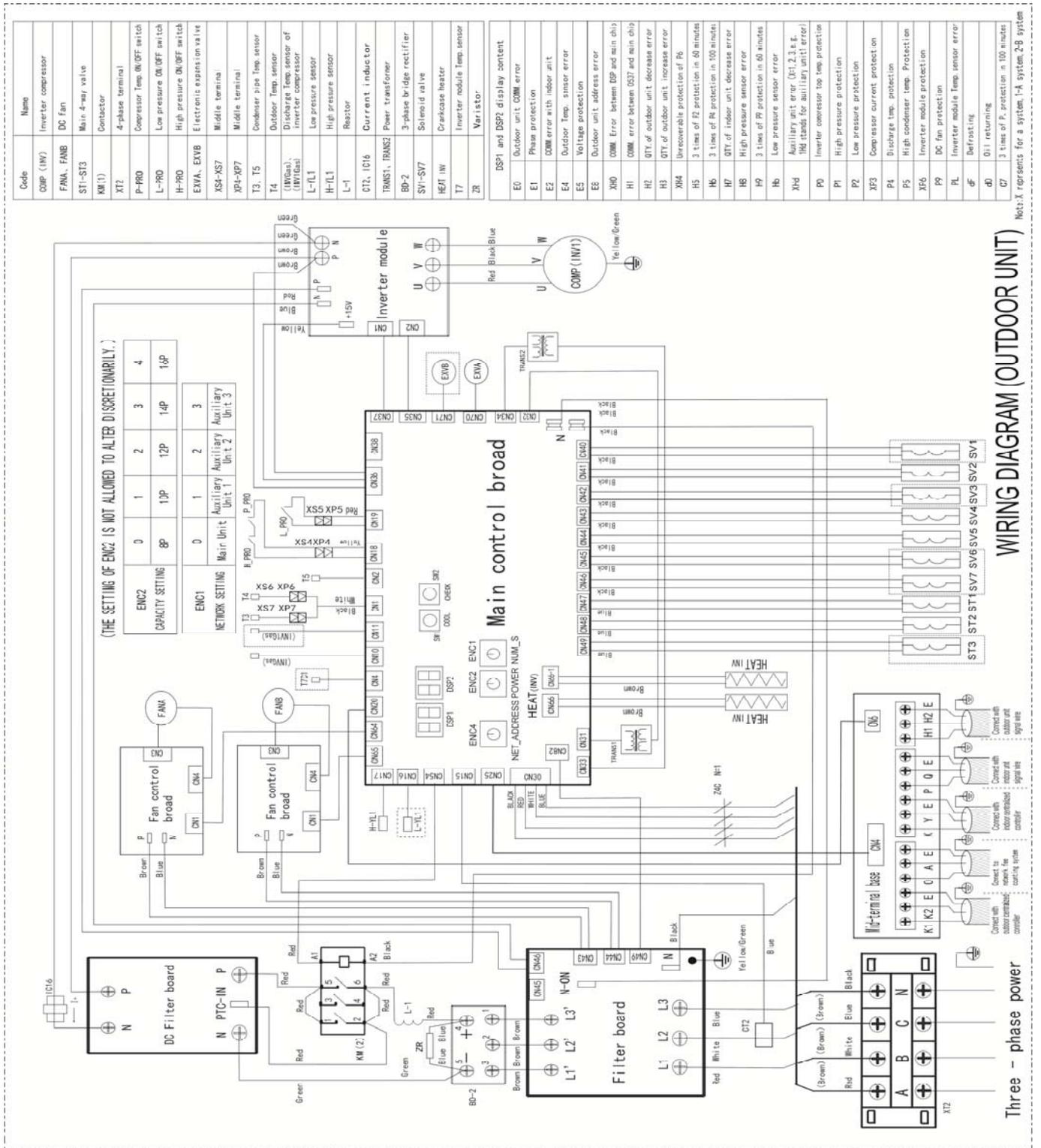
SV5: It is used for quick defrosting. In defrosting mode, the opening of SV5 can cut the refrigerant flowing circle, so the defrosting process will takes less time. In cooling mode, it is always off.

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.

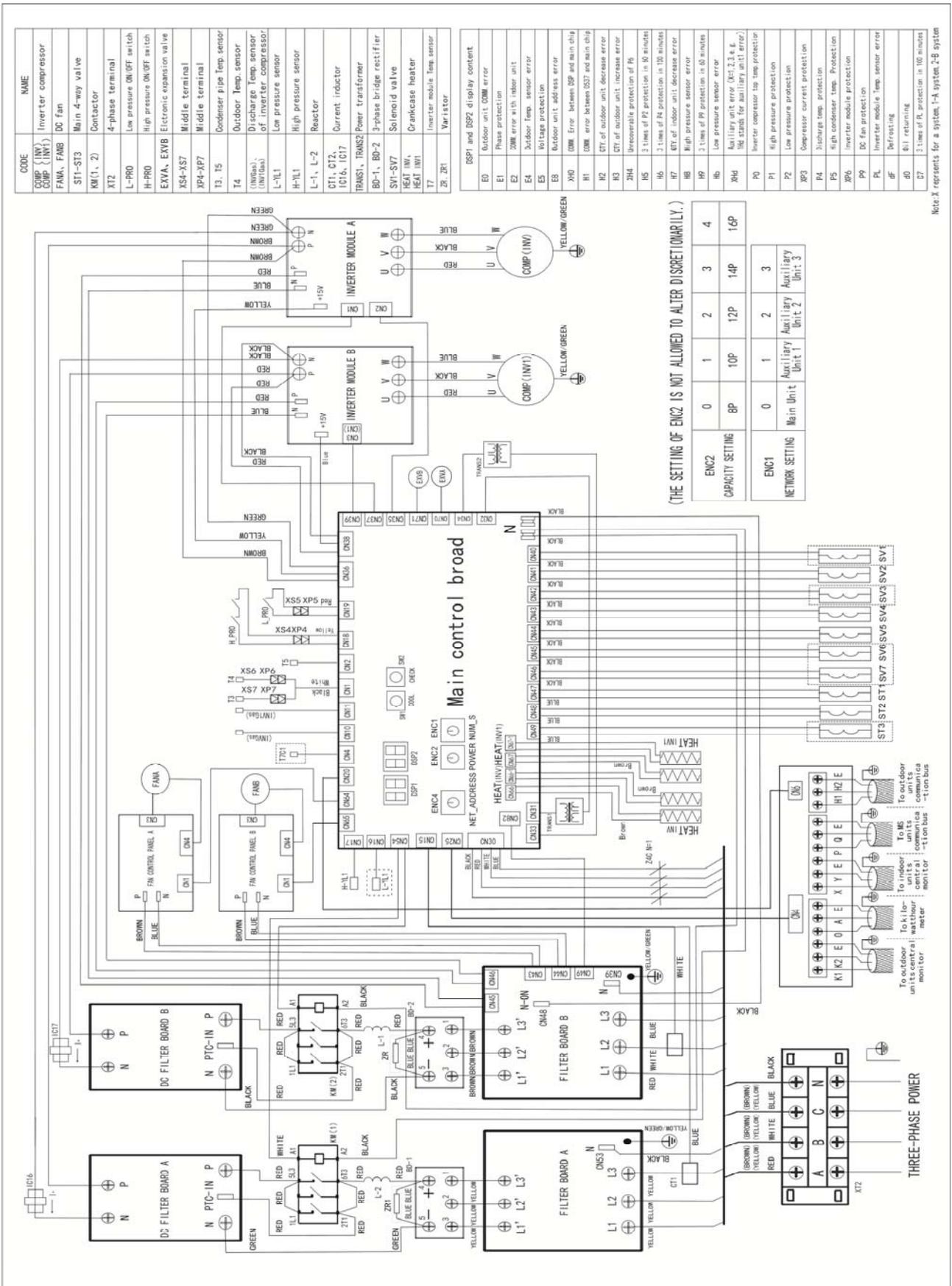
5. Wiring diagram and field wiring

5.1 Wiring diagram

MVUR252B-VA3, MVUR280B-VA3, MVUR335B-VA3



MVUR400B-VA3, MVUR450B-VA3

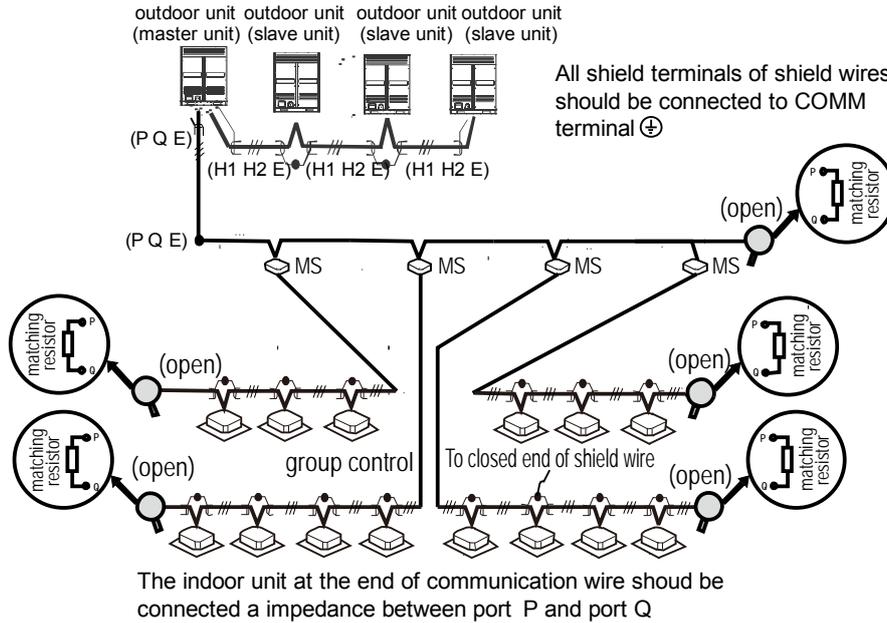


Note: X represents for a system, 1-A system, 2-B system

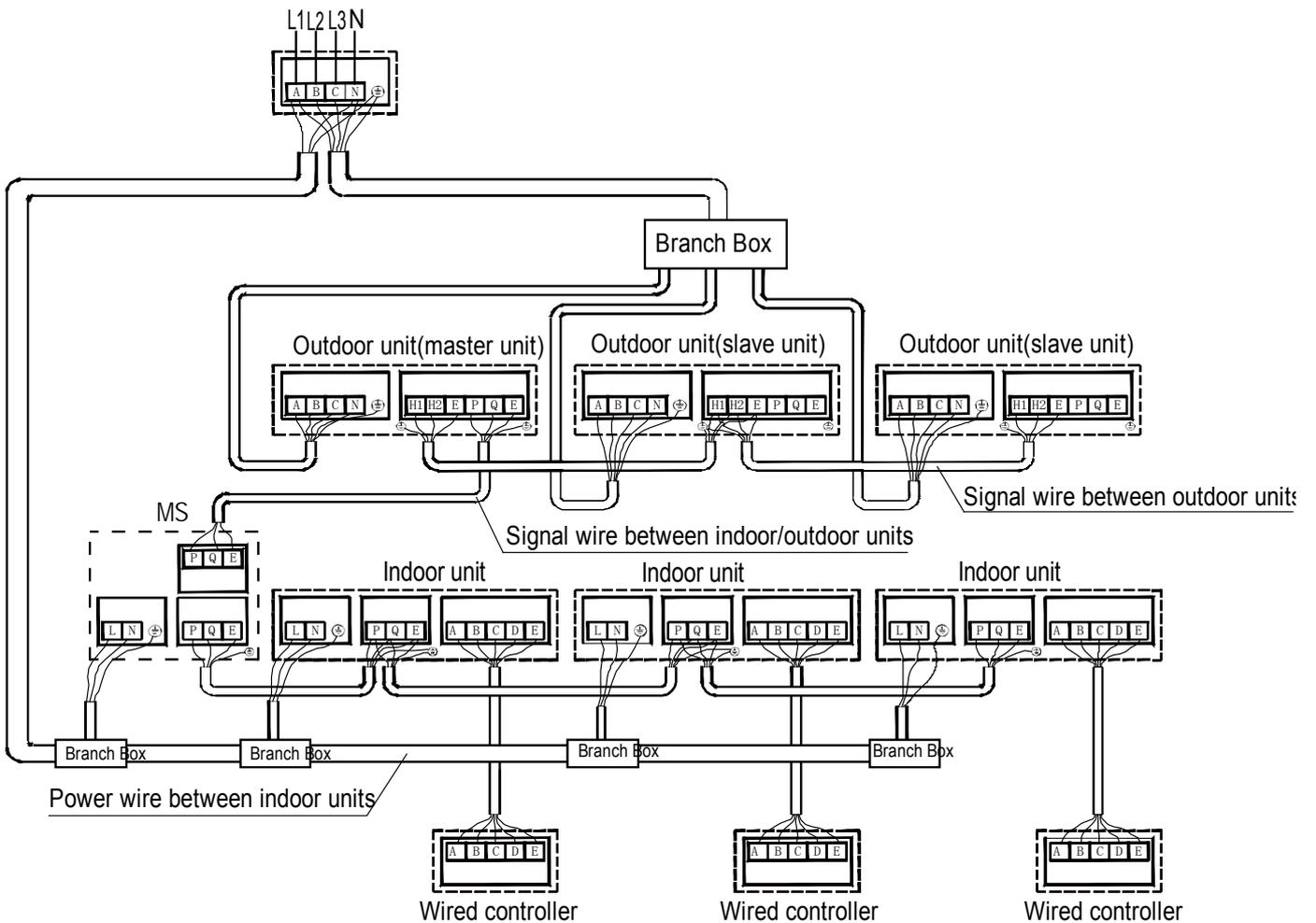
5.2 Field wiring

5.2.1 Signal wire between outdoor unit and indoor unit

Signal wire of indoor/outdoor unit adopts 3-core shielded wire (0.75mm²) 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) |
| MVUR252B-VA3 | 50/60 | 380~415 | 342 | 440 | 18.4 | 20.8 | 25 | - | 17.4 | 0.42 | 3.6 |
| MVUR280B-VA3 | 50/60 | 380~415 | 342 | 440 | 20.6 | 22.1 | 25 | - | 17.4 | 0.42 | 3.6 |
| MVUR335B-VA3 | 50/60 | 380~415 | 342 | 440 | 21.8 | 22.8 | 25 | - | 17.4 | 0.42 | 3.6 |
| MVUR400B-VA3 | 50/60 | 380~415 | 342 | 440 | 27.9 | 31.8 | 35 | - | 17.4+10.5 | 0.71 | 5.9 |
| MVUR450B-VA3 | 50/60 | 380~415 | 342 | 440 | 33.4 | 32.8 | 35 | - | 17.4+10.5 | 0.71 | 5.9 |

The current value of combination unit is the total value of each basic model (refer to Units Combination Table in Part1)

For example: 46HP=16HP+16HP+14HP

Power current: MCA=33.4+33.4+27.9=94.7

TOCA=32.8+32.8+31.8=97.4

MFA=35+35+35=105

Compressor: RLA=(17.4+10.5)+ (17.4+10.5)+ (17.4+10.5)=83.7

OFM: FLA=5.9+5.9+5.9=17.7

Notes:

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

7. Capacity tables

7.1 Cooling capacity tables

MVUR252B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 22.14 | 2.34 | 26.37 | 2.86 | 30.60 | 3.06 | 31.77 | 3.19 | 33.30 | 3.28 | 34.11 | 3.57 | 34.97 | 3.59 |
| | -2 | 22.14 | 2.34 | 26.37 | 2.91 | 30.60 | 3.06 | 31.77 | 3.21 | 33.30 | 3.28 | 34.11 | 3.61 | 34.97 | 3.62 |
| | 0 | 22.14 | 2.38 | 26.37 | 2.96 | 30.60 | 3.18 | 31.77 | 3.38 | 33.30 | 3.47 | 34.11 | 3.66 | 34.97 | 3.67 |
| | 2 | 22.14 | 2.43 | 26.37 | 2.97 | 30.60 | 3.29 | 31.77 | 3.57 | 33.30 | 3.51 | 34.11 | 3.68 | 34.97 | 3.73 |
| | 4 | 22.14 | 2.48 | 26.37 | 3.03 | 30.60 | 3.40 | 31.77 | 3.59 | 33.30 | 3.56 | 34.11 | 3.68 | 34.97 | 3.80 |
| | 6 | 22.14 | 2.53 | 26.37 | 3.09 | 30.60 | 3.52 | 31.77 | 3.62 | 32.93 | 3.67 | 33.69 | 3.68 | 34.58 | 3.83 |
| | 8 | 22.14 | 2.59 | 26.37 | 3.16 | 30.60 | 3.70 | 31.77 | 3.80 | 32.52 | 3.79 | 33.33 | 3.90 | 34.14 | 3.86 |
| | 10 | 22.14 | 2.64 | 26.37 | 3.23 | 30.60 | 3.84 | 31.77 | 3.92 | 32.13 | 4.04 | 32.94 | 4.06 | 33.75 | 3.98 |
| | 12 | 22.14 | 2.69 | 26.37 | 3.29 | 30.60 | 3.92 | 31.32 | 4.03 | 31.77 | 4.06 | 32.49 | 4.07 | 33.30 | 4.00 |
| | 14 | 22.14 | 2.74 | 26.37 | 3.35 | 30.51 | 4.05 | 30.96 | 4.06 | 31.32 | 4.08 | 32.13 | 4.09 | 32.94 | 4.09 |
| | 16 | 22.14 | 2.79 | 26.37 | 3.42 | 30.15 | 4.06 | 30.51 | 4.08 | 30.87 | 4.10 | 31.68 | 4.12 | 32.49 | 4.16 |
| | 18 | 22.14 | 2.84 | 26.37 | 3.49 | 29.70 | 4.09 | 30.06 | 4.12 | 30.51 | 4.14 | 31.32 | 4.18 | 32.13 | 4.22 |
| | 20 | 22.14 | 2.90 | 26.37 | 3.71 | 29.25 | 4.29 | 29.70 | 4.32 | 30.06 | 4.34 | 30.87 | 4.38 | 31.68 | 4.43 |
| | 21 | 22.14 | 2.98 | 26.37 | 3.85 | 29.07 | 4.39 | 29.52 | 4.42 | 29.88 | 4.44 | 30.69 | 4.49 | 31.50 | 4.53 |
| | 23 | 22.14 | 3.20 | 26.37 | 4.12 | 28.71 | 4.60 | 29.07 | 4.62 | 29.43 | 4.64 | 30.24 | 4.69 | 31.05 | 4.73 |
| | 25 | 22.14 | 3.41 | 26.37 | 4.42 | 28.26 | 4.80 | 28.62 | 4.82 | 29.07 | 4.85 | 29.88 | 4.90 | 30.69 | 4.94 |
| | 27 | 22.14 | 3.65 | 26.37 | 4.73 | 27.90 | 5.00 | 28.26 | 5.03 | 28.62 | 5.05 | 29.43 | 5.11 | 30.24 | 5.16 |
| | 29 | 22.14 | 3.89 | 26.37 | 5.05 | 27.45 | 5.20 | 27.81 | 5.23 | 28.26 | 5.26 | 29.07 | 5.31 | 29.88 | 5.37 |
| | 31 | 22.14 | 4.15 | 26.28 | 5.34 | 27.00 | 5.41 | 27.45 | 5.44 | 27.81 | 5.46 | 28.62 | 5.52 | 29.43 | 5.58 |
| | 33 | 22.14 | 4.43 | 25.83 | 5.55 | 26.64 | 5.61 | 27.00 | 5.64 | 27.45 | 5.67 | 28.26 | 5.73 | 28.98 | 5.79 |
| 35 | 22.14 | 4.72 | 25.38 | 5.75 | 26.19 | 5.82 | 26.64 | 5.85 | 27.00 | 5.88 | 27.81 | 5.95 | 28.62 | 6.01 | |
| 37 | 22.14 | 5.02 | 25.02 | 5.95 | 25.83 | 6.02 | 26.19 | 6.06 | 26.64 | 6.09 | 27.36 | 6.16 | 28.17 | 6.23 | |
| 39 | 22.14 | 5.34 | 24.57 | 6.02 | 25.38 | 6.22 | 25.83 | 6.26 | 26.19 | 6.30 | 27.00 | 6.37 | 27.81 | 6.45 | |
| 41 | 22.14 | 5.62 | 24.32 | 6.07 | 25.11 | 6.28 | 25.56 | 6.32 | 25.92 | 6.36 | 26.73 | 6.38 | 26.74 | 6.51 | |
| 43 | 22.14 | 5.77 | 24.14 | 6.10 | 24.98 | 6.30 | 25.43 | 6.35 | 25.66 | 6.37 | 26.25 | 6.40 | 26.42 | 6.52 | |
| 45 | 22.14 | 6.05 | 23.99 | 6.16 | 24.71 | 6.36 | 25.16 | 6.39 | 25.28 | 6.40 | 25.53 | 6.42 | 25.91 | 6.64 | |
| 48 | 22.14 | 6.27 | 24.84 | 6.36 | 26.94 | 6.42 | 27.44 | 6.45 | 27.66 | 6.47 | 27.54 | 6.53 | 28.04 | 6.55 | |
| 120% | -5 | 20.43 | 2.26 | 24.30 | 2.74 | 28.26 | 3.24 | 30.24 | 3.53 | 31.68 | 3.68 | 32.40 | 3.80 | 33.12 | 3.90 |
| | -2 | 20.43 | 2.28 | 24.30 | 2.77 | 28.26 | 3.27 | 30.24 | 3.55 | 31.68 | 3.73 | 32.40 | 3.83 | 33.12 | 3.92 |
| | 0 | 20.43 | 2.31 | 24.30 | 2.79 | 28.26 | 3.31 | 30.24 | 3.56 | 31.68 | 3.76 | 32.40 | 3.86 | 33.12 | 3.92 |
| | 2 | 20.43 | 2.31 | 24.30 | 2.82 | 28.26 | 3.33 | 30.24 | 3.60 | 31.68 | 3.77 | 32.40 | 3.88 | 33.12 | 3.93 |
| | 4 | 20.43 | 2.33 | 24.30 | 2.85 | 28.26 | 3.38 | 30.24 | 3.63 | 31.68 | 3.83 | 32.40 | 3.89 | 33.12 | 3.94 |
| | 6 | 20.43 | 2.36 | 24.30 | 2.87 | 28.26 | 3.42 | 30.24 | 3.67 | 31.68 | 3.87 | 32.40 | 3.92 | 33.12 | 3.95 |
| | 8 | 20.43 | 2.38 | 24.30 | 2.90 | 28.26 | 3.47 | 30.24 | 3.72 | 31.68 | 3.91 | 32.40 | 3.94 | 33.12 | 3.97 |
| | 10 | 20.43 | 2.41 | 24.30 | 2.94 | 28.26 | 3.50 | 30.24 | 3.78 | 31.68 | 3.91 | 32.40 | 3.95 | 33.12 | 3.99 |
| | 12 | 20.43 | 2.46 | 24.30 | 3.00 | 28.26 | 3.57 | 30.24 | 3.85 | 31.23 | 3.92 | 31.95 | 3.93 | 32.67 | 4.02 |
| | 14 | 20.43 | 2.50 | 24.30 | 3.06 | 28.26 | 3.64 | 30.24 | 3.93 | 30.78 | 3.95 | 31.59 | 3.99 | 32.31 | 4.07 |
| | 16 | 20.43 | 2.55 | 24.30 | 3.12 | 28.26 | 3.71 | 30.06 | 4.10 | 30.42 | 4.01 | 31.14 | 4.05 | 31.86 | 4.13 |
| | 18 | 20.43 | 2.59 | 24.30 | 3.18 | 28.26 | 3.83 | 29.61 | 4.09 | 29.97 | 4.11 | 30.69 | 4.15 | 31.50 | 4.19 |
| | 20 | 20.43 | 2.65 | 24.30 | 3.30 | 28.26 | 4.12 | 29.25 | 4.29 | 29.61 | 4.31 | 30.33 | 4.35 | 31.05 | 4.39 |
| | 21 | 20.43 | 2.67 | 24.30 | 3.42 | 28.26 | 4.27 | 28.98 | 4.39 | 29.34 | 4.41 | 30.15 | 4.45 | 30.87 | 4.49 |
| | 23 | 20.43 | 2.86 | 24.30 | 3.67 | 28.26 | 4.57 | 28.62 | 4.59 | 28.98 | 4.61 | 29.70 | 4.66 | 30.42 | 4.70 |
| | 25 | 20.43 | 3.05 | 24.30 | 3.92 | 27.81 | 4.77 | 28.17 | 4.79 | 28.53 | 4.81 | 29.34 | 4.86 | 30.06 | 4.90 |
| | 27 | 20.43 | 3.26 | 24.30 | 4.19 | 27.45 | 4.97 | 27.81 | 5.00 | 28.17 | 5.02 | 28.89 | 5.07 | 29.61 | 5.11 |
| | 29 | 20.43 | 3.48 | 24.30 | 4.48 | 27.00 | 5.17 | 27.36 | 5.20 | 27.72 | 5.22 | 28.44 | 5.27 | 29.25 | 5.32 |
| | 31 | 20.43 | 3.71 | 24.30 | 4.78 | 26.55 | 5.37 | 27.00 | 5.40 | 27.36 | 5.43 | 28.08 | 5.48 | 28.80 | 5.54 |
| | 33 | 20.43 | 3.95 | 24.30 | 5.10 | 26.19 | 5.58 | 26.55 | 5.61 | 26.91 | 5.63 | 27.63 | 5.69 | 28.35 | 5.75 |
| 35 | 20.43 | 4.20 | 24.30 | 5.44 | 25.74 | 5.78 | 26.10 | 5.81 | 26.55 | 5.84 | 27.27 | 5.90 | 27.99 | 5.96 | |
| 37 | 20.43 | 4.47 | 24.30 | 5.79 | 25.38 | 5.99 | 25.74 | 6.02 | 26.10 | 6.05 | 26.82 | 6.11 | 27.54 | 6.18 | |
| 39 | 20.43 | 4.76 | 24.21 | 6.12 | 24.93 | 6.19 | 25.29 | 6.22 | 25.65 | 6.26 | 26.46 | 6.32 | 27.18 | 6.39 | |
| 41 | 20.43 | 4.89 | 24.01 | 6.16 | 24.73 | 6.23 | 25.09 | 6.27 | 25.45 | 6.30 | 26.26 | 6.34 | 26.40 | 6.43 | |
| 43 | 20.43 | 4.96 | 23.89 | 6.20 | 24.54 | 6.27 | 24.90 | 6.29 | 25.26 | 6.32 | 25.81 | 6.36 | 25.99 | 6.56 | |
| 45 | 20.43 | 5.02 | 23.76 | 6.26 | 24.30 | 6.33 | 24.64 | 6.35 | 25.04 | 6.37 | 25.29 | 6.38 | 25.73 | 6.71 | |
| 48 | 20.43 | 5.06 | 27.29 | 6.33 | 27.80 | 6.38 | 28.09 | 6.40 | 28.69 | 6.42 | 28.84 | 6.40 | 29.42 | 6.79 | |

Cooling capacity table

MVUR252B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 18.72 | 1.98 | 22.32 | 2.46 | 25.92 | 2.93 | 27.72 | 3.15 | 29.52 | 3.39 | 31.77 | 3.52 | 32.49 | 3.63 |
| | -2 | 18.72 | 2.01 | 22.32 | 2.49 | 25.92 | 2.96 | 27.72 | 3.18 | 29.52 | 3.42 | 31.77 | 3.55 | 32.49 | 3.65 |
| | 0 | 18.72 | 2.03 | 22.32 | 2.51 | 25.92 | 2.98 | 27.72 | 3.20 | 29.52 | 3.45 | 31.77 | 3.59 | 32.49 | 3.69 |
| | 2 | 18.72 | 2.08 | 22.32 | 2.53 | 25.92 | 3.03 | 27.72 | 3.24 | 29.52 | 3.49 | 31.77 | 3.64 | 32.49 | 3.74 |
| | 4 | 18.72 | 2.12 | 22.32 | 2.56 | 25.92 | 3.06 | 27.72 | 3.28 | 29.52 | 3.54 | 31.77 | 3.69 | 32.49 | 3.77 |
| | 6 | 18.72 | 2.14 | 22.32 | 2.59 | 25.92 | 3.09 | 27.72 | 3.33 | 29.52 | 3.58 | 31.77 | 3.73 | 32.49 | 3.83 |
| | 8 | 18.72 | 2.16 | 22.32 | 2.63 | 25.92 | 3.12 | 27.72 | 3.36 | 29.52 | 3.62 | 31.77 | 3.76 | 32.49 | 3.87 |
| | 10 | 18.72 | 2.19 | 22.32 | 2.66 | 25.92 | 3.17 | 27.72 | 3.42 | 29.52 | 3.68 | 31.77 | 3.78 | 32.49 | 3.90 |
| | 12 | 18.72 | 2.23 | 22.32 | 2.72 | 25.92 | 3.23 | 27.72 | 3.49 | 29.52 | 3.75 | 31.41 | 3.84 | 32.04 | 3.96 |
| | 14 | 18.72 | 2.27 | 22.32 | 2.77 | 25.92 | 3.29 | 27.72 | 3.55 | 29.52 | 3.82 | 30.96 | 3.87 | 31.68 | 3.98 |
| | 16 | 18.72 | 2.31 | 22.32 | 2.82 | 25.92 | 3.35 | 27.72 | 3.62 | 29.52 | 3.90 | 30.60 | 3.92 | 31.23 | 4.03 |
| | 18 | 18.72 | 2.36 | 22.32 | 2.87 | 25.92 | 3.42 | 27.72 | 3.72 | 29.52 | 4.09 | 30.15 | 4.12 | 30.87 | 4.15 |
| | 20 | 18.72 | 2.40 | 22.32 | 2.93 | 25.92 | 3.62 | 27.72 | 4.00 | 29.07 | 4.29 | 29.79 | 4.32 | 30.42 | 4.36 |
| | 21 | 18.72 | 2.42 | 22.32 | 3.02 | 25.92 | 3.75 | 27.72 | 4.15 | 28.89 | 4.39 | 29.52 | 4.42 | 30.24 | 4.46 |
| | 23 | 18.72 | 2.54 | 22.32 | 3.24 | 25.92 | 4.02 | 27.72 | 4.45 | 28.44 | 4.58 | 29.16 | 4.62 | 29.79 | 4.66 |
| | 25 | 18.72 | 2.71 | 22.32 | 3.46 | 25.92 | 4.30 | 27.72 | 4.77 | 28.08 | 4.78 | 28.71 | 4.83 | 29.43 | 4.87 |
| | 27 | 18.72 | 2.89 | 22.32 | 3.70 | 25.92 | 4.60 | 27.27 | 4.97 | 27.63 | 4.98 | 28.35 | 5.03 | 28.98 | 5.07 |
| | 29 | 18.72 | 3.08 | 22.32 | 3.95 | 25.92 | 4.92 | 26.91 | 5.17 | 27.27 | 5.19 | 27.90 | 5.24 | 28.62 | 5.28 |
| | 31 | 18.72 | 3.28 | 22.32 | 4.21 | 25.92 | 5.25 | 26.46 | 5.37 | 26.82 | 5.39 | 27.54 | 5.44 | 28.17 | 5.49 |
| | 33 | 18.72 | 3.49 | 22.32 | 4.49 | 25.74 | 5.54 | 26.10 | 5.57 | 26.46 | 5.59 | 27.09 | 5.65 | 27.81 | 5.70 |
| 35 | 18.72 | 3.71 | 22.32 | 4.78 | 25.29 | 5.74 | 25.65 | 5.77 | 26.01 | 5.80 | 26.64 | 5.85 | 27.36 | 5.91 | |
| 37 | 18.72 | 3.95 | 22.32 | 5.09 | 24.93 | 5.95 | 25.29 | 5.97 | 25.56 | 6.00 | 26.28 | 6.06 | 26.91 | 6.12 | |
| 39 | 18.72 | 4.20 | 22.32 | 5.42 | 24.48 | 6.15 | 24.84 | 6.18 | 25.20 | 6.21 | 25.83 | 6.27 | 26.55 | 6.33 | |
| 41 | 18.72 | 4.24 | 22.32 | 5.46 | 24.29 | 6.19 | 24.65 | 6.22 | 25.01 | 6.25 | 25.50 | 6.31 | 25.75 | 6.38 | |
| 43 | 18.72 | 4.29 | 22.32 | 5.54 | 24.10 | 6.23 | 24.46 | 6.27 | 24.82 | 6.30 | 25.28 | 6.34 | 25.36 | 6.51 | |
| 45 | 18.72 | 4.43 | 22.32 | 5.57 | 23.85 | 6.29 | 24.20 | 6.34 | 24.60 | 6.35 | 25.02 | 6.51 | 25.12 | 6.66 | |
| 48 | 20.50 | 4.58 | 24.45 | 6.04 | 25.74 | 6.33 | 26.08 | 6.39 | 26.63 | 6.42 | 26.95 | 6.53 | 27.16 | 6.73 | |
| 100% | -5 | 17.01 | 1.80 | 20.25 | 2.17 | 23.58 | 2.58 | 25.20 | 2.76 | 26.82 | 3.00 | 30.15 | 3.42 | 31.86 | 3.56 |
| | -2 | 17.01 | 1.82 | 20.25 | 2.19 | 23.58 | 2.61 | 25.20 | 2.81 | 26.82 | 3.04 | 30.15 | 3.46 | 31.86 | 3.59 |
| | 0 | 17.01 | 1.84 | 20.25 | 2.22 | 23.58 | 2.64 | 25.20 | 2.85 | 26.82 | 3.07 | 30.15 | 3.51 | 31.86 | 3.63 |
| | 2 | 17.01 | 1.88 | 20.25 | 2.25 | 23.58 | 2.66 | 25.20 | 2.89 | 26.82 | 3.10 | 30.15 | 3.56 | 31.86 | 3.68 |
| | 4 | 17.01 | 1.89 | 20.25 | 2.27 | 23.58 | 2.70 | 25.20 | 2.93 | 26.82 | 3.14 | 30.15 | 3.60 | 31.86 | 3.72 |
| | 6 | 17.01 | 1.92 | 20.25 | 2.31 | 23.58 | 2.74 | 25.20 | 2.98 | 26.82 | 3.19 | 30.15 | 3.65 | 31.86 | 3.78 |
| | 8 | 17.01 | 1.95 | 20.25 | 2.35 | 23.58 | 2.79 | 25.20 | 3.01 | 26.82 | 3.24 | 30.15 | 3.71 | 31.86 | 3.84 |
| | 10 | 17.01 | 1.98 | 20.25 | 2.39 | 23.58 | 2.83 | 25.20 | 3.07 | 26.82 | 3.30 | 30.15 | 3.77 | 31.86 | 3.90 |
| | 12 | 17.01 | 2.01 | 20.25 | 2.44 | 23.58 | 2.89 | 25.20 | 3.12 | 26.82 | 3.36 | 30.15 | 3.84 | 31.41 | 3.93 |
| | 14 | 17.01 | 2.05 | 20.25 | 2.49 | 23.58 | 2.94 | 25.20 | 3.18 | 26.82 | 3.42 | 30.15 | 3.91 | 31.05 | 3.98 |
| | 16 | 17.01 | 2.09 | 20.25 | 2.53 | 23.58 | 3.00 | 25.20 | 3.24 | 26.82 | 3.49 | 29.97 | 3.96 | 30.60 | 4.02 |
| | 18 | 17.01 | 2.12 | 20.25 | 2.58 | 23.58 | 3.06 | 25.20 | 3.31 | 26.82 | 3.56 | 29.61 | 4.09 | 30.24 | 4.12 |
| | 20 | 17.01 | 2.16 | 20.25 | 2.63 | 23.58 | 3.15 | 25.20 | 3.47 | 26.82 | 3.82 | 29.16 | 4.29 | 29.79 | 4.32 |
| | 21 | 17.01 | 2.19 | 20.25 | 2.66 | 23.58 | 3.27 | 25.20 | 3.60 | 26.82 | 3.95 | 28.98 | 4.39 | 29.61 | 4.42 |
| | 23 | 17.01 | 2.24 | 20.25 | 2.83 | 23.58 | 3.50 | 25.20 | 3.85 | 26.82 | 4.23 | 28.62 | 4.59 | 29.16 | 4.63 |
| | 25 | 17.01 | 2.39 | 20.25 | 3.03 | 23.58 | 3.75 | 25.20 | 4.13 | 26.82 | 4.53 | 28.17 | 4.79 | 28.80 | 4.83 |
| | 27 | 17.01 | 2.55 | 20.25 | 3.23 | 23.58 | 4.00 | 25.20 | 4.42 | 26.82 | 4.85 | 27.72 | 4.99 | 28.35 | 5.03 |
| | 29 | 17.01 | 2.71 | 20.25 | 3.44 | 23.58 | 4.27 | 25.20 | 4.72 | 26.73 | 5.15 | 27.36 | 5.20 | 27.99 | 5.24 |
| | 31 | 17.01 | 2.89 | 20.25 | 3.68 | 23.58 | 4.56 | 25.20 | 5.03 | 26.37 | 5.35 | 26.91 | 5.40 | 27.54 | 5.44 |
| | 33 | 17.01 | 3.07 | 20.25 | 3.92 | 23.58 | 4.86 | 25.20 | 5.37 | 25.92 | 5.55 | 26.55 | 5.60 | 27.18 | 5.65 |
| 35 | 17.01 | 3.26 | 20.25 | 4.16 | 23.58 | 5.18 | 25.20 | 5.73 | 25.47 | 5.75 | 26.10 | 5.81 | 26.73 | 5.85 | |
| 37 | 17.01 | 3.47 | 20.25 | 4.43 | 23.58 | 5.52 | 24.75 | 5.93 | 25.11 | 5.96 | 25.74 | 6.01 | 26.28 | 6.06 | |
| 39 | 17.01 | 3.68 | 20.25 | 4.71 | 23.58 | 5.88 | 24.39 | 6.13 | 24.66 | 6.16 | 25.29 | 6.22 | 25.92 | 6.28 | |
| 41 | 17.01 | 3.86 | 20.25 | 4.88 | 23.58 | 6.09 | 24.01 | 6.17 | 24.47 | 6.26 | 24.85 | 6.36 | 25.54 | 6.41 | |
| 43 | 17.01 | 4.03 | 20.25 | 5.05 | 23.58 | 6.20 | 23.63 | 6.25 | 24.29 | 6.32 | 25.00 | 6.40 | 25.09 | 6.48 | |
| 45 | 17.01 | 4.26 | 20.25 | 5.28 | 23.58 | 6.31 | 23.13 | 6.33 | 24.17 | 6.43 | 24.79 | 6.50 | 24.59 | 6.56 | |
| 48 | 17.62 | 4.44 | 20.97 | 5.47 | 24.42 | 6.32 | 22.97 | 6.40 | 24.99 | 6.55 | 24.11 | 6.57 | 24.91 | 6.63 | |

Cooling capacity table

MVUR252B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 15.30 | 1.59 | 18.27 | 1.91 | 21.24 | 2.25 | 22.68 | 2.46 | 24.12 | 2.61 | 27.09 | 3.01 | 30.06 | 3.44 |
| | -2 | 15.30 | 1.61 | 18.27 | 1.93 | 21.24 | 2.28 | 22.68 | 2.49 | 24.12 | 2.65 | 27.09 | 3.04 | 30.06 | 3.48 |
| | 0 | 15.30 | 1.63 | 18.27 | 1.95 | 21.24 | 2.32 | 22.68 | 2.52 | 24.12 | 2.68 | 27.09 | 3.07 | 30.06 | 3.50 |
| | 2 | 15.30 | 1.65 | 18.27 | 1.98 | 21.24 | 2.34 | 22.68 | 2.56 | 24.12 | 2.72 | 27.09 | 3.13 | 30.06 | 3.55 |
| | 4 | 15.30 | 1.68 | 18.27 | 2.01 | 21.24 | 2.38 | 22.68 | 2.59 | 24.12 | 2.76 | 27.09 | 3.18 | 30.06 | 3.61 |
| | 6 | 15.30 | 1.70 | 18.27 | 2.05 | 21.24 | 2.42 | 22.68 | 2.64 | 24.12 | 2.80 | 27.09 | 3.23 | 30.06 | 3.67 |
| | 8 | 15.30 | 1.74 | 18.27 | 2.09 | 21.24 | 2.47 | 22.68 | 2.68 | 24.12 | 2.85 | 27.09 | 3.29 | 30.06 | 3.70 |
| | 10 | 15.30 | 1.77 | 18.27 | 2.13 | 21.24 | 2.52 | 22.68 | 2.72 | 24.12 | 2.92 | 27.09 | 3.33 | 30.06 | 3.76 |
| | 12 | 15.30 | 1.80 | 18.27 | 2.17 | 21.24 | 2.56 | 22.68 | 2.76 | 24.12 | 2.97 | 27.09 | 3.40 | 30.06 | 3.83 |
| | 14 | 15.30 | 1.83 | 18.27 | 2.21 | 21.24 | 2.61 | 22.68 | 2.82 | 24.12 | 3.03 | 27.09 | 3.46 | 30.06 | 3.90 |
| | 16 | 15.30 | 1.86 | 18.27 | 2.25 | 21.24 | 2.66 | 22.68 | 2.87 | 24.12 | 3.09 | 27.09 | 3.53 | 29.97 | 3.97 |
| | 18 | 15.30 | 1.89 | 18.27 | 2.29 | 21.24 | 2.71 | 22.68 | 2.93 | 24.12 | 3.15 | 27.09 | 3.60 | 29.61 | 4.09 |
| | 20 | 15.30 | 1.93 | 18.27 | 2.35 | 21.24 | 2.76 | 22.68 | 2.99 | 24.12 | 3.27 | 27.09 | 3.87 | 29.16 | 4.29 |
| | 21 | 15.30 | 1.95 | 18.27 | 2.36 | 21.24 | 2.81 | 22.68 | 3.09 | 24.12 | 3.38 | 27.09 | 4.01 | 28.98 | 4.39 |
| | 23 | 15.30 | 1.98 | 18.27 | 2.46 | 21.24 | 3.01 | 22.68 | 3.31 | 24.12 | 3.63 | 27.09 | 4.30 | 28.53 | 4.59 |
| | 25 | 15.30 | 2.09 | 18.27 | 2.63 | 21.24 | 3.22 | 22.68 | 3.54 | 24.12 | 3.88 | 27.09 | 4.60 | 28.17 | 4.79 |
| | 27 | 15.30 | 2.22 | 18.27 | 2.80 | 21.24 | 3.44 | 22.68 | 3.78 | 24.12 | 4.15 | 27.09 | 4.93 | 27.72 | 4.99 |
| | 29 | 15.30 | 2.37 | 18.27 | 2.98 | 21.24 | 3.67 | 22.68 | 4.04 | 24.12 | 4.43 | 26.82 | 5.15 | 27.36 | 5.19 |
| | 31 | 15.30 | 2.52 | 18.27 | 3.17 | 21.24 | 3.91 | 22.68 | 4.31 | 24.12 | 4.73 | 26.37 | 5.35 | 26.91 | 5.40 |
| | 33 | 15.30 | 2.67 | 18.27 | 3.37 | 21.24 | 4.17 | 22.68 | 4.59 | 24.12 | 5.04 | 26.01 | 5.56 | 26.55 | 5.60 |
| 35 | 15.30 | 2.84 | 18.27 | 3.59 | 21.24 | 4.44 | 22.68 | 4.90 | 24.12 | 5.37 | 25.56 | 5.76 | 26.10 | 5.81 | |
| 37 | 15.30 | 3.01 | 18.27 | 3.81 | 21.24 | 4.73 | 22.68 | 5.21 | 24.12 | 5.73 | 25.11 | 5.96 | 25.74 | 6.01 | |
| 39 | 15.30 | 3.20 | 18.27 | 4.06 | 21.24 | 5.03 | 22.68 | 5.55 | 24.12 | 6.10 | 24.75 | 6.17 | 25.29 | 6.22 | |
| 41 | 15.30 | 3.31 | 18.27 | 4.25 | 21.24 | 5.21 | 22.68 | 5.70 | 24.12 | 6.14 | 24.58 | 6.33 | 25.12 | 6.36 | |
| 43 | 15.30 | 3.47 | 18.27 | 4.43 | 21.24 | 5.39 | 22.68 | 5.85 | 24.12 | 6.27 | 24.45 | 6.41 | 24.90 | 6.46 | |
| 45 | 15.30 | 3.69 | 18.27 | 4.65 | 21.24 | 5.61 | 22.68 | 6.04 | 24.12 | 6.44 | 24.32 | 6.48 | 24.52 | 6.55 | |
| 48 | 15.30 | 3.89 | 18.27 | 4.86 | 21.24 | 5.83 | 22.68 | 6.12 | 24.12 | 6.50 | 26.79 | 6.57 | 26.51 | 6.64 | |
| 80% | -5 | 13.59 | 1.40 | 16.20 | 1.66 | 18.81 | 1.96 | 20.16 | 2.09 | 21.51 | 2.25 | 24.12 | 2.60 | 26.73 | 2.97 |
| | -2 | 13.59 | 1.42 | 16.20 | 1.68 | 18.81 | 1.98 | 20.16 | 2.12 | 21.51 | 2.27 | 24.12 | 2.62 | 26.73 | 2.99 |
| | 0 | 13.59 | 1.45 | 16.20 | 1.70 | 18.81 | 2.00 | 20.16 | 2.14 | 21.51 | 2.31 | 24.12 | 2.66 | 26.73 | 3.04 |
| | 2 | 13.59 | 1.48 | 16.20 | 1.72 | 18.81 | 2.03 | 20.16 | 2.19 | 21.51 | 2.35 | 24.12 | 2.71 | 26.73 | 3.09 |
| | 4 | 13.59 | 1.50 | 16.20 | 1.75 | 18.81 | 2.07 | 20.16 | 2.24 | 21.51 | 2.39 | 24.12 | 2.76 | 26.73 | 3.13 |
| | 6 | 13.59 | 1.53 | 16.20 | 1.79 | 18.81 | 2.10 | 20.16 | 2.28 | 21.51 | 2.44 | 24.12 | 2.80 | 26.73 | 3.19 |
| | 8 | 13.59 | 1.55 | 16.20 | 1.84 | 18.81 | 2.15 | 20.16 | 2.32 | 21.51 | 2.49 | 24.12 | 2.85 | 26.73 | 3.25 |
| | 10 | 13.59 | 1.57 | 16.20 | 1.88 | 18.81 | 2.21 | 20.16 | 2.38 | 21.51 | 2.55 | 24.12 | 2.91 | 26.73 | 3.28 |
| | 12 | 13.59 | 1.59 | 16.20 | 1.91 | 18.81 | 2.25 | 20.16 | 2.42 | 21.51 | 2.60 | 24.12 | 2.97 | 26.73 | 3.34 |
| | 14 | 13.59 | 1.62 | 16.20 | 1.95 | 18.81 | 2.29 | 20.16 | 2.46 | 21.51 | 2.65 | 24.12 | 3.02 | 26.73 | 3.41 |
| | 16 | 13.59 | 1.65 | 16.20 | 1.98 | 18.81 | 2.33 | 20.16 | 2.51 | 21.51 | 2.70 | 24.12 | 3.08 | 26.73 | 3.47 |
| | 18 | 13.59 | 1.68 | 16.20 | 2.02 | 18.81 | 2.38 | 20.16 | 2.56 | 21.51 | 2.75 | 24.12 | 3.14 | 26.73 | 3.54 |
| | 20 | 13.59 | 1.71 | 16.20 | 2.05 | 18.81 | 2.42 | 20.16 | 2.61 | 21.51 | 2.80 | 24.12 | 3.26 | 26.73 | 3.78 |
| | 21 | 13.59 | 1.72 | 16.20 | 2.07 | 18.81 | 2.45 | 20.16 | 2.64 | 21.51 | 2.87 | 24.12 | 3.37 | 26.73 | 3.92 |
| | 23 | 13.59 | 1.75 | 16.20 | 2.12 | 18.81 | 2.56 | 20.16 | 2.81 | 21.51 | 3.07 | 24.12 | 3.61 | 26.73 | 4.21 |
| | 25 | 13.59 | 1.81 | 16.20 | 2.25 | 18.81 | 2.74 | 20.16 | 3.00 | 21.51 | 3.27 | 24.12 | 3.87 | 26.73 | 4.50 |
| | 27 | 13.59 | 1.92 | 16.20 | 2.39 | 18.81 | 2.92 | 20.16 | 3.21 | 21.51 | 3.50 | 24.12 | 4.13 | 26.73 | 4.82 |
| | 29 | 13.59 | 2.05 | 16.20 | 2.55 | 18.81 | 3.11 | 20.16 | 3.41 | 21.51 | 3.74 | 24.12 | 4.41 | 26.73 | 5.15 |
| | 31 | 13.59 | 2.17 | 16.20 | 2.71 | 18.81 | 3.31 | 20.16 | 3.64 | 21.51 | 3.98 | 24.12 | 4.71 | 26.28 | 5.35 |
| | 33 | 13.59 | 2.31 | 16.20 | 2.88 | 18.81 | 3.53 | 20.16 | 3.88 | 21.51 | 4.24 | 24.12 | 5.02 | 25.92 | 5.55 |
| 35 | 13.59 | 2.45 | 16.20 | 3.07 | 18.81 | 3.75 | 20.16 | 4.12 | 21.51 | 4.52 | 24.12 | 5.35 | 25.47 | 5.75 | |
| 37 | 13.59 | 2.59 | 16.20 | 3.25 | 18.81 | 3.99 | 20.16 | 4.39 | 21.51 | 4.81 | 24.12 | 5.71 | 25.11 | 5.95 | |
| 39 | 13.59 | 2.75 | 16.20 | 3.47 | 18.81 | 4.25 | 20.16 | 4.67 | 21.51 | 5.12 | 24.12 | 6.08 | 24.66 | 6.16 | |
| 41 | 13.59 | 2.81 | 16.20 | 3.50 | 18.81 | 4.31 | 20.16 | 4.80 | 21.51 | 5.21 | 24.12 | 6.23 | 24.51 | 6.27 | |
| 43 | 13.59 | 2.89 | 16.20 | 3.53 | 18.81 | 4.37 | 20.16 | 4.88 | 21.51 | 5.29 | 24.12 | 6.30 | 24.36 | 6.34 | |
| 45 | 13.59 | 2.98 | 16.20 | 3.57 | 18.81 | 4.46 | 20.16 | 4.98 | 21.51 | 5.38 | 24.12 | 6.37 | 24.05 | 6.44 | |
| 48 | 13.59 | 3.07 | 16.20 | 3.60 | 21.16 | 4.53 | 20.16 | 5.05 | 21.51 | 5.42 | 24.12 | 6.44 | 26.83 | 6.53 | |

Cooling capacity table

MVUR252B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 11.88 | 1.25 | 14.22 | 1.47 | 16.47 | 1.66 | 17.64 | 1.78 | 18.81 | 1.90 | 21.06 | 2.18 | 23.40 | 2.50 |
| | -2 | 11.88 | 1.26 | 14.22 | 1.47 | 16.47 | 1.67 | 17.64 | 1.82 | 18.81 | 1.94 | 21.06 | 2.21 | 23.40 | 2.54 |
| | 0 | 11.88 | 1.27 | 14.22 | 1.49 | 16.47 | 1.71 | 17.64 | 1.85 | 18.81 | 1.97 | 21.06 | 2.26 | 23.40 | 2.57 |
| | 2 | 11.88 | 1.28 | 14.22 | 1.50 | 16.47 | 1.74 | 17.64 | 1.89 | 18.81 | 2.01 | 21.06 | 2.30 | 23.40 | 2.61 |
| | 4 | 11.88 | 1.29 | 14.22 | 1.54 | 16.47 | 1.77 | 17.64 | 1.92 | 18.81 | 2.05 | 21.06 | 2.34 | 23.40 | 2.67 |
| | 6 | 11.88 | 1.31 | 14.22 | 1.57 | 16.47 | 1.82 | 17.64 | 1.98 | 18.81 | 2.10 | 21.06 | 2.38 | 23.40 | 2.73 |
| | 8 | 11.88 | 1.34 | 14.22 | 1.61 | 16.47 | 1.86 | 17.64 | 2.01 | 18.81 | 2.14 | 21.06 | 2.45 | 23.40 | 2.78 |
| | 10 | 11.88 | 1.36 | 14.22 | 1.64 | 16.47 | 1.91 | 17.64 | 2.05 | 18.81 | 2.20 | 21.06 | 2.50 | 23.40 | 2.81 |
| | 12 | 11.88 | 1.40 | 14.22 | 1.66 | 16.47 | 1.95 | 17.64 | 2.09 | 18.81 | 2.24 | 21.06 | 2.55 | 23.40 | 2.87 |
| | 14 | 11.88 | 1.42 | 14.22 | 1.69 | 16.47 | 1.98 | 17.64 | 2.12 | 18.81 | 2.28 | 21.06 | 2.59 | 23.40 | 2.92 |
| | 16 | 11.88 | 1.44 | 14.22 | 1.72 | 16.47 | 2.02 | 17.64 | 2.17 | 18.81 | 2.32 | 21.06 | 2.64 | 23.40 | 2.97 |
| | 18 | 11.88 | 1.47 | 14.22 | 1.75 | 16.47 | 2.05 | 17.64 | 2.21 | 18.81 | 2.36 | 21.06 | 2.70 | 23.40 | 3.03 |
| | 20 | 11.88 | 1.49 | 14.22 | 1.78 | 16.47 | 2.09 | 17.64 | 2.25 | 18.81 | 2.41 | 21.06 | 2.75 | 23.40 | 3.12 |
| | 21 | 11.88 | 1.51 | 14.22 | 1.80 | 16.47 | 2.11 | 17.64 | 2.27 | 18.81 | 2.43 | 21.06 | 2.79 | 23.40 | 3.23 |
| | 23 | 11.88 | 1.53 | 14.22 | 1.83 | 16.47 | 2.15 | 17.64 | 2.35 | 18.81 | 2.56 | 21.06 | 2.99 | 23.40 | 3.46 |
| | 25 | 11.88 | 1.56 | 14.22 | 1.91 | 16.47 | 2.29 | 17.64 | 2.51 | 18.81 | 2.73 | 21.06 | 3.20 | 23.40 | 3.70 |
| | 27 | 11.88 | 1.65 | 14.22 | 2.03 | 16.47 | 2.45 | 17.64 | 2.67 | 18.81 | 2.91 | 21.06 | 3.41 | 23.40 | 3.95 |
| | 29 | 11.88 | 1.75 | 14.22 | 2.15 | 16.47 | 2.60 | 17.64 | 2.85 | 18.81 | 3.10 | 21.06 | 3.64 | 23.40 | 4.22 |
| | 31 | 11.88 | 1.85 | 14.22 | 2.29 | 16.47 | 2.77 | 17.64 | 3.03 | 18.81 | 3.30 | 21.06 | 3.88 | 23.40 | 4.50 |
| | 33 | 11.88 | 1.97 | 14.22 | 2.43 | 16.47 | 2.95 | 17.64 | 3.22 | 18.81 | 3.51 | 21.06 | 4.13 | 23.40 | 4.80 |
| 35 | 11.88 | 2.09 | 14.22 | 2.58 | 16.47 | 3.13 | 17.64 | 3.43 | 18.81 | 3.74 | 21.06 | 4.40 | 23.40 | 5.12 | |
| 37 | 11.88 | 2.20 | 14.22 | 2.73 | 16.47 | 3.33 | 17.64 | 3.64 | 18.81 | 3.98 | 21.06 | 4.69 | 23.40 | 5.45 | |
| 39 | 11.88 | 2.33 | 14.22 | 2.90 | 16.47 | 3.53 | 17.64 | 3.87 | 18.81 | 4.22 | 21.06 | 4.98 | 23.40 | 5.81 | |
| 41 | 11.88 | 2.44 | 14.22 | 3.00 | 16.47 | 3.63 | 17.64 | 4.00 | 18.81 | 4.35 | 21.06 | 5.19 | 23.40 | 6.06 | |
| 43 | 11.88 | 2.63 | 14.22 | 3.20 | 16.47 | 3.78 | 17.64 | 4.21 | 18.81 | 4.48 | 21.06 | 5.38 | 23.40 | 6.25 | |
| 45 | 11.88 | 2.69 | 14.22 | 3.27 | 16.47 | 3.86 | 17.64 | 4.28 | 18.81 | 4.70 | 21.06 | 5.67 | 23.40 | 6.49 | |
| 48 | 11.88 | 2.76 | 14.22 | 3.30 | 16.47 | 3.90 | 17.64 | 4.35 | 18.81 | 4.83 | 21.06 | 5.92 | 23.40 | 6.65 | |
| 60% | -5 | 10.17 | 1.07 | 12.15 | 1.24 | 14.13 | 1.44 | 15.12 | 1.54 | 16.11 | 1.66 | 18.09 | 1.86 | 20.07 | 2.14 |
| | -2 | 10.17 | 1.07 | 12.15 | 1.26 | 14.13 | 1.47 | 15.12 | 1.56 | 16.11 | 1.68 | 18.09 | 1.89 | 20.07 | 2.15 |
| | 0 | 10.17 | 1.09 | 12.15 | 1.27 | 14.13 | 1.49 | 15.12 | 1.58 | 16.11 | 1.71 | 18.09 | 1.92 | 20.07 | 2.18 |
| | 2 | 10.17 | 1.11 | 12.15 | 1.30 | 14.13 | 1.52 | 15.12 | 1.61 | 16.11 | 1.73 | 18.09 | 1.96 | 20.07 | 2.21 |
| | 4 | 10.17 | 1.14 | 12.15 | 1.33 | 14.13 | 1.55 | 15.12 | 1.63 | 16.11 | 1.75 | 18.09 | 1.99 | 20.07 | 2.24 |
| | 6 | 10.17 | 1.15 | 12.15 | 1.35 | 14.13 | 1.58 | 15.12 | 1.67 | 16.11 | 1.79 | 18.09 | 2.03 | 20.07 | 2.29 |
| | 8 | 10.17 | 1.17 | 12.15 | 1.38 | 14.13 | 1.60 | 15.12 | 1.70 | 16.11 | 1.83 | 18.09 | 2.07 | 20.07 | 2.33 |
| | 10 | 10.17 | 1.20 | 12.15 | 1.41 | 14.13 | 1.63 | 15.12 | 1.74 | 16.11 | 1.86 | 18.09 | 2.11 | 20.07 | 2.36 |
| | 12 | 10.17 | 1.22 | 12.15 | 1.43 | 14.13 | 1.66 | 15.12 | 1.78 | 16.11 | 1.89 | 18.09 | 2.15 | 20.07 | 2.40 |
| | 14 | 10.17 | 1.24 | 12.15 | 1.45 | 14.13 | 1.68 | 15.12 | 1.81 | 16.11 | 1.93 | 18.09 | 2.19 | 20.07 | 2.45 |
| | 16 | 10.17 | 1.25 | 12.15 | 1.47 | 14.13 | 1.71 | 15.12 | 1.84 | 16.11 | 1.96 | 18.09 | 2.22 | 20.07 | 2.49 |
| | 18 | 10.17 | 1.27 | 12.15 | 1.50 | 14.13 | 1.74 | 15.12 | 1.87 | 16.11 | 2.00 | 18.09 | 2.26 | 20.07 | 2.54 |
| | 20 | 10.17 | 1.29 | 12.15 | 1.53 | 14.13 | 1.78 | 15.12 | 1.91 | 16.11 | 2.04 | 18.09 | 2.31 | 20.07 | 2.59 |
| | 21 | 10.17 | 1.31 | 12.15 | 1.54 | 14.13 | 1.79 | 15.12 | 1.92 | 16.11 | 2.05 | 18.09 | 2.33 | 20.07 | 2.62 |
| | 23 | 10.17 | 1.32 | 12.15 | 1.57 | 14.13 | 1.82 | 15.12 | 1.96 | 16.11 | 2.09 | 18.09 | 2.42 | 20.07 | 2.79 |
| | 25 | 10.17 | 1.34 | 12.15 | 1.59 | 14.13 | 1.89 | 15.12 | 2.05 | 16.11 | 2.22 | 18.09 | 2.59 | 20.07 | 2.97 |
| | 27 | 10.17 | 1.40 | 12.15 | 1.69 | 14.13 | 2.02 | 15.12 | 2.19 | 16.11 | 2.37 | 18.09 | 2.76 | 20.07 | 3.17 |
| | 29 | 10.17 | 1.47 | 12.15 | 1.79 | 14.13 | 2.15 | 15.12 | 2.33 | 16.11 | 2.52 | 18.09 | 2.94 | 20.07 | 3.39 |
| | 31 | 10.17 | 1.57 | 12.15 | 1.90 | 14.13 | 2.28 | 15.12 | 2.48 | 16.11 | 2.69 | 18.09 | 3.13 | 20.07 | 3.61 |
| | 33 | 10.17 | 1.65 | 12.15 | 2.02 | 14.13 | 2.42 | 15.12 | 2.63 | 16.11 | 2.86 | 18.09 | 3.33 | 20.07 | 3.85 |
| 35 | 10.17 | 1.75 | 12.15 | 2.14 | 14.13 | 2.56 | 15.12 | 2.80 | 16.11 | 3.03 | 18.09 | 3.54 | 20.07 | 4.09 | |
| 37 | 10.17 | 1.85 | 12.15 | 2.26 | 14.13 | 2.72 | 15.12 | 2.97 | 16.11 | 3.22 | 18.09 | 3.77 | 20.07 | 4.35 | |
| 39 | 10.17 | 1.95 | 12.15 | 2.39 | 14.13 | 2.88 | 15.12 | 3.14 | 16.11 | 3.42 | 18.09 | 4.00 | 20.07 | 4.63 | |
| 41 | 10.17 | 2.02 | 12.15 | 2.50 | 14.13 | 2.98 | 15.12 | 3.27 | 16.11 | 3.55 | 18.09 | 4.19 | 20.07 | 4.84 | |
| 43 | 10.17 | 2.08 | 12.15 | 2.60 | 14.13 | 3.09 | 15.12 | 3.37 | 16.11 | 3.67 | 18.09 | 4.37 | 20.07 | 5.05 | |
| 45 | 10.17 | 2.18 | 12.15 | 2.73 | 14.13 | 3.22 | 15.12 | 3.49 | 16.11 | 3.85 | 18.09 | 4.56 | 20.07 | 5.33 | |
| 48 | 10.17 | 2.26 | 12.15 | 2.86 | 14.13 | 3.32 | 15.12 | 3.58 | 16.11 | 4.00 | 18.09 | 4.73 | 20.07 | 5.58 | |

Cooling capacity table

MVUR252B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 8.51 | 0.93 | 10.17 | 1.07 | 11.79 | 1.23 | 12.60 | 1.29 | 13.41 | 1.36 | 15.03 | 1.55 | 16.74 | 1.67 |
| | -2 | 8.51 | 0.93 | 10.17 | 1.09 | 11.79 | 1.25 | 12.60 | 1.31 | 13.41 | 1.39 | 15.03 | 1.57 | 16.74 | 1.69 |
| | 0 | 8.51 | 0.95 | 10.17 | 1.11 | 11.79 | 1.27 | 12.60 | 1.33 | 13.41 | 1.40 | 15.03 | 1.59 | 16.74 | 1.72 |
| | 2 | 8.51 | 0.96 | 10.17 | 1.13 | 11.79 | 1.29 | 12.60 | 1.35 | 13.41 | 1.43 | 15.03 | 1.60 | 16.74 | 1.75 |
| | 4 | 8.51 | 0.97 | 10.17 | 1.15 | 11.79 | 1.30 | 12.60 | 1.36 | 13.41 | 1.45 | 15.03 | 1.64 | 16.74 | 1.80 |
| | 6 | 8.51 | 0.99 | 10.17 | 1.16 | 11.79 | 1.32 | 12.60 | 1.39 | 13.41 | 1.48 | 15.03 | 1.67 | 16.74 | 1.85 |
| | 8 | 8.51 | 1.01 | 10.17 | 1.18 | 11.79 | 1.35 | 12.60 | 1.42 | 13.41 | 1.50 | 15.03 | 1.69 | 16.74 | 1.91 |
| | 10 | 8.51 | 1.03 | 10.17 | 1.20 | 11.79 | 1.37 | 12.60 | 1.45 | 13.41 | 1.54 | 15.03 | 1.74 | 16.74 | 1.94 |
| | 12 | 8.51 | 1.04 | 10.17 | 1.21 | 11.79 | 1.39 | 12.60 | 1.47 | 13.41 | 1.58 | 15.03 | 1.77 | 16.74 | 1.97 |
| | 14 | 8.51 | 1.06 | 10.17 | 1.23 | 11.79 | 1.41 | 12.60 | 1.51 | 13.41 | 1.60 | 15.03 | 1.80 | 16.74 | 2.01 |
| | 16 | 8.51 | 1.07 | 10.17 | 1.24 | 11.79 | 1.43 | 12.60 | 1.53 | 13.41 | 1.62 | 15.03 | 1.83 | 16.74 | 2.04 |
| | 18 | 8.51 | 1.09 | 10.17 | 1.27 | 11.79 | 1.45 | 12.60 | 1.55 | 13.41 | 1.65 | 15.03 | 1.86 | 16.74 | 2.08 |
| | 20 | 8.51 | 1.10 | 10.17 | 1.28 | 11.79 | 1.47 | 12.60 | 1.58 | 13.41 | 1.68 | 15.03 | 1.89 | 16.74 | 2.12 |
| | 21 | 8.51 | 1.11 | 10.17 | 1.30 | 11.79 | 1.49 | 12.60 | 1.59 | 13.41 | 1.70 | 15.03 | 1.91 | 16.74 | 2.14 |
| | 23 | 8.51 | 1.13 | 10.17 | 1.31 | 11.79 | 1.51 | 12.60 | 1.62 | 13.41 | 1.73 | 15.03 | 1.95 | 16.74 | 2.19 |
| | 25 | 8.51 | 1.14 | 10.17 | 1.34 | 11.79 | 1.54 | 12.60 | 1.65 | 13.41 | 1.78 | 15.03 | 2.05 | 16.74 | 2.33 |
| | 27 | 8.51 | 1.17 | 10.17 | 1.39 | 11.79 | 1.63 | 12.60 | 1.76 | 13.41 | 1.89 | 15.03 | 2.18 | 16.74 | 2.49 |
| | 29 | 8.51 | 1.23 | 10.17 | 1.47 | 11.79 | 1.73 | 12.60 | 1.87 | 13.41 | 2.02 | 15.03 | 2.32 | 16.74 | 2.65 |
| | 31 | 8.51 | 1.30 | 10.17 | 1.55 | 11.79 | 1.83 | 12.60 | 1.98 | 13.41 | 2.14 | 15.03 | 2.46 | 16.74 | 2.82 |
| | 33 | 8.51 | 1.37 | 10.17 | 1.64 | 11.79 | 1.95 | 12.60 | 2.10 | 13.41 | 2.27 | 15.03 | 2.62 | 16.74 | 3.00 |
| 35 | 8.51 | 1.45 | 10.17 | 1.74 | 11.79 | 2.05 | 12.60 | 2.22 | 13.41 | 2.40 | 15.03 | 2.78 | 16.74 | 3.18 | |
| 37 | 8.51 | 1.53 | 10.17 | 1.84 | 11.79 | 2.18 | 12.60 | 2.36 | 13.41 | 2.55 | 15.03 | 2.95 | 16.74 | 3.38 | |
| 39 | 8.51 | 1.61 | 10.17 | 1.94 | 11.79 | 2.30 | 12.60 | 2.49 | 13.41 | 2.70 | 15.03 | 3.13 | 16.74 | 3.59 | |
| 41 | 8.51 | 1.68 | 10.17 | 2.02 | 11.79 | 2.38 | 12.60 | 2.61 | 13.41 | 2.82 | 15.03 | 3.29 | 16.74 | 3.76 | |
| 43 | 8.51 | 1.79 | 10.17 | 2.16 | 11.79 | 2.47 | 12.60 | 2.73 | 13.41 | 2.89 | 15.03 | 3.46 | 16.74 | 3.92 | |
| 45 | 8.51 | 1.83 | 10.17 | 2.22 | 11.79 | 2.63 | 12.60 | 2.94 | 13.41 | 3.01 | 15.03 | 3.79 | 16.74 | 4.26 | |
| 48 | 8.51 | 1.88 | 10.17 | 2.28 | 11.79 | 2.79 | 12.60 | 3.13 | 13.41 | 3.15 | 15.03 | 4.10 | 16.74 | 4.58 | |

Cooling capacity table

MVUR280B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 24.60 | 2.73 | 29.30 | 3.33 | 34.00 | 3.57 | 35.30 | 3.71 | 37.00 | 3.82 | 37.90 | 4.15 | 38.85 | 4.18 |
| | -2 | 24.60 | 2.73 | 29.30 | 3.39 | 34.00 | 3.57 | 35.30 | 3.73 | 37.00 | 3.82 | 37.90 | 4.20 | 38.85 | 4.22 |
| | 0 | 24.60 | 2.77 | 29.30 | 3.45 | 34.00 | 3.70 | 35.30 | 3.94 | 37.00 | 4.04 | 37.90 | 4.26 | 38.85 | 4.28 |
| | 2 | 24.60 | 2.82 | 29.30 | 3.46 | 34.00 | 3.82 | 35.30 | 4.16 | 37.00 | 4.09 | 37.90 | 4.29 | 38.85 | 4.34 |
| | 4 | 24.60 | 2.89 | 29.30 | 3.53 | 34.00 | 3.96 | 35.30 | 4.18 | 37.00 | 4.14 | 37.90 | 4.28 | 38.85 | 4.42 |
| | 6 | 24.60 | 2.94 | 29.30 | 3.60 | 34.00 | 4.10 | 35.30 | 4.21 | 36.58 | 4.27 | 37.43 | 4.28 | 38.43 | 4.45 |
| | 8 | 24.60 | 3.01 | 29.30 | 3.68 | 34.00 | 4.31 | 35.30 | 4.42 | 36.13 | 4.41 | 37.03 | 3.90 | 37.93 | 4.50 |
| | 10 | 24.60 | 3.07 | 29.30 | 3.76 | 34.00 | 4.47 | 35.30 | 4.57 | 35.70 | 4.04 | 36.60 | 4.06 | 37.50 | 4.63 |
| | 12 | 24.60 | 3.13 | 29.30 | 3.83 | 34.00 | 4.56 | 34.80 | 4.03 | 35.30 | 4.06 | 36.10 | 4.07 | 37.00 | 4.66 |
| | 14 | 24.60 | 3.19 | 29.30 | 3.90 | 33.90 | 4.05 | 34.40 | 4.06 | 34.80 | 4.08 | 35.70 | 4.09 | 36.60 | 4.76 |
| | 16 | 24.60 | 3.25 | 29.30 | 3.98 | 33.50 | 4.06 | 33.90 | 4.08 | 34.30 | 4.10 | 35.20 | 4.12 | 36.10 | 4.84 |
| | 18 | 24.60 | 3.31 | 29.30 | 4.06 | 33.00 | 4.76 | 33.40 | 4.79 | 33.90 | 4.82 | 34.80 | 4.86 | 35.70 | 4.91 |
| | 20 | 24.60 | 3.38 | 29.30 | 4.32 | 32.50 | 5.00 | 33.00 | 5.03 | 33.40 | 5.05 | 34.30 | 5.10 | 35.20 | 5.15 |
| | 21 | 24.60 | 3.47 | 29.30 | 4.48 | 32.30 | 5.12 | 32.80 | 5.14 | 33.20 | 5.17 | 34.10 | 5.22 | 35.00 | 5.27 |
| | 23 | 24.60 | 3.72 | 29.30 | 4.80 | 31.90 | 5.35 | 32.30 | 5.38 | 32.70 | 5.40 | 33.60 | 5.46 | 34.50 | 5.51 |
| | 25 | 24.60 | 3.97 | 29.30 | 5.14 | 31.40 | 5.58 | 31.80 | 5.61 | 32.30 | 5.65 | 33.20 | 5.70 | 34.10 | 5.75 |
| | 27 | 24.60 | 4.24 | 29.30 | 5.50 | 31.00 | 5.82 | 31.40 | 5.85 | 31.80 | 5.88 | 32.70 | 5.94 | 33.60 | 6.01 |
| | 29 | 24.60 | 4.53 | 29.30 | 5.88 | 30.50 | 6.05 | 30.90 | 6.09 | 31.40 | 6.12 | 32.30 | 6.19 | 33.20 | 6.25 |
| | 31 | 24.60 | 4.84 | 29.20 | 6.22 | 30.00 | 6.29 | 30.50 | 6.33 | 30.90 | 6.36 | 31.80 | 6.43 | 32.70 | 6.50 |
| | 33 | 24.60 | 5.15 | 28.70 | 6.45 | 29.60 | 6.53 | 30.00 | 6.56 | 30.50 | 6.60 | 31.40 | 6.67 | 32.20 | 6.74 |
| 35 | 24.60 | 5.49 | 28.20 | 6.69 | 29.10 | 6.77 | 29.60 | 6.81 | 30.00 | 6.84 | 30.90 | 6.92 | 31.80 | 6.99 | |
| 37 | 24.60 | 5.84 | 27.80 | 6.93 | 28.70 | 7.01 | 29.10 | 7.05 | 29.60 | 7.09 | 30.40 | 7.17 | 31.30 | 7.26 | |
| 39 | 24.60 | 6.22 | 27.30 | 7.00 | 28.20 | 7.25 | 28.70 | 7.29 | 29.10 | 7.34 | 30.00 | 7.42 | 30.90 | 7.51 | |
| 41 | 24.60 | 6.55 | 27.02 | 7.07 | 27.90 | 7.31 | 28.40 | 7.36 | 28.80 | 7.40 | 29.70 | 7.43 | 29.71 | 7.57 | |
| 43 | 24.60 | 6.71 | 26.82 | 7.11 | 27.75 | 7.33 | 28.26 | 7.39 | 28.51 | 7.41 | 29.16 | 7.45 | 29.36 | 7.59 | |
| 45 | 24.60 | 7.05 | 26.65 | 7.17 | 27.46 | 7.40 | 27.96 | 7.44 | 28.09 | 7.45 | 28.37 | 7.47 | 28.78 | 7.73 | |
| 48 | 24.60 | 7.30 | 27.60 | 7.41 | 29.94 | 7.47 | 30.49 | 7.51 | 30.74 | 7.53 | 30.60 | 7.60 | 31.16 | 7.62 | |
| 120% | -5 | 22.70 | 2.63 | 27.00 | 3.19 | 31.40 | 3.77 | 33.60 | 4.11 | 35.20 | 4.29 | 36.00 | 4.43 | 36.80 | 4.54 |
| | -2 | 22.70 | 2.66 | 27.00 | 3.22 | 31.40 | 3.81 | 33.60 | 4.14 | 35.20 | 4.34 | 36.00 | 4.46 | 36.80 | 4.56 |
| | 0 | 22.70 | 2.68 | 27.00 | 3.24 | 31.40 | 3.85 | 33.60 | 4.15 | 35.20 | 4.38 | 36.00 | 4.49 | 36.80 | 4.57 |
| | 2 | 22.70 | 2.69 | 27.00 | 3.28 | 31.40 | 3.88 | 33.60 | 4.19 | 35.20 | 4.39 | 36.00 | 4.52 | 36.80 | 4.58 |
| | 4 | 22.70 | 2.72 | 27.00 | 3.32 | 31.40 | 3.93 | 33.60 | 4.23 | 35.20 | 4.45 | 36.00 | 4.53 | 36.80 | 4.59 |
| | 6 | 22.70 | 2.75 | 27.00 | 3.35 | 31.40 | 3.98 | 33.60 | 4.27 | 35.20 | 4.50 | 36.00 | 4.57 | 36.80 | 4.60 |
| | 8 | 22.70 | 2.77 | 27.00 | 3.38 | 31.40 | 4.04 | 33.60 | 4.33 | 35.20 | 4.55 | 36.00 | 4.58 | 36.80 | 4.63 |
| | 10 | 22.70 | 2.80 | 27.00 | 3.42 | 31.40 | 4.07 | 33.60 | 4.40 | 35.20 | 4.55 | 36.00 | 4.60 | 36.80 | 4.65 |
| | 12 | 22.70 | 2.86 | 27.00 | 3.49 | 31.40 | 4.15 | 33.60 | 4.49 | 34.70 | 4.57 | 35.50 | 4.57 | 36.30 | 4.68 |
| | 14 | 22.70 | 2.91 | 27.00 | 3.56 | 31.40 | 4.23 | 33.60 | 4.58 | 34.20 | 4.60 | 35.10 | 4.64 | 35.90 | 4.73 |
| | 16 | 22.70 | 2.97 | 27.00 | 3.63 | 31.40 | 4.31 | 33.40 | 4.10 | 33.80 | 4.66 | 34.60 | 4.72 | 35.40 | 4.80 |
| | 18 | 22.70 | 3.02 | 27.00 | 3.70 | 31.40 | 4.46 | 32.90 | 4.76 | 33.30 | 4.78 | 34.10 | 4.83 | 35.00 | 4.87 |
| | 20 | 22.70 | 3.08 | 27.00 | 3.85 | 31.40 | 4.80 | 32.50 | 5.00 | 32.90 | 5.02 | 33.70 | 5.06 | 34.50 | 5.11 |
| | 21 | 22.70 | 3.11 | 27.00 | 3.98 | 31.40 | 4.97 | 32.20 | 5.11 | 32.60 | 5.13 | 33.50 | 5.18 | 34.30 | 5.23 |
| | 23 | 22.70 | 3.33 | 27.00 | 4.27 | 31.40 | 5.32 | 31.80 | 5.34 | 32.20 | 5.37 | 33.00 | 5.42 | 33.80 | 5.47 |
| | 25 | 22.70 | 3.55 | 27.00 | 4.57 | 30.90 | 5.56 | 31.30 | 5.57 | 31.70 | 5.60 | 32.60 | 5.65 | 33.40 | 5.71 |
| | 27 | 22.70 | 3.79 | 27.00 | 4.88 | 30.50 | 5.78 | 30.90 | 5.82 | 31.30 | 5.84 | 32.10 | 5.90 | 32.90 | 5.95 |
| | 29 | 22.70 | 4.05 | 27.00 | 5.21 | 30.00 | 6.01 | 30.40 | 6.05 | 30.80 | 6.08 | 31.60 | 6.14 | 32.50 | 6.19 |
| | 31 | 22.70 | 4.31 | 27.00 | 5.56 | 29.50 | 6.26 | 30.00 | 6.28 | 30.40 | 6.32 | 31.20 | 6.38 | 32.00 | 6.45 |
| | 33 | 22.70 | 4.59 | 27.00 | 5.93 | 29.10 | 6.49 | 29.50 | 6.53 | 29.90 | 6.55 | 30.70 | 6.63 | 31.50 | 6.69 |
| 35 | 22.70 | 4.89 | 27.00 | 6.33 | 28.60 | 6.72 | 29.00 | 6.76 | 29.50 | 6.80 | 30.30 | 6.87 | 31.10 | 6.94 | |
| 37 | 22.70 | 5.20 | 27.00 | 6.74 | 28.20 | 6.97 | 28.60 | 7.00 | 29.00 | 7.04 | 29.80 | 7.11 | 30.60 | 7.19 | |
| 39 | 22.70 | 5.54 | 26.90 | 7.12 | 27.70 | 7.20 | 28.10 | 7.25 | 28.50 | 7.28 | 29.40 | 7.36 | 30.20 | 7.43 | |
| 41 | 22.70 | 5.69 | 26.68 | 7.17 | 27.48 | 7.25 | 27.88 | 7.30 | 28.28 | 7.33 | 29.18 | 7.38 | 29.33 | 7.49 | |
| 43 | 22.70 | 5.77 | 26.54 | 7.22 | 27.27 | 7.30 | 27.67 | 7.32 | 28.07 | 7.36 | 28.67 | 7.40 | 28.88 | 7.64 | |
| 45 | 22.70 | 5.84 | 26.39 | 7.29 | 27.00 | 7.36 | 27.38 | 7.39 | 27.82 | 7.42 | 28.09 | 7.43 | 28.59 | 7.81 | |
| 48 | 22.70 | 5.89 | 30.32 | 7.37 | 30.88 | 7.43 | 31.21 | 7.45 | 31.88 | 7.48 | 32.05 | 7.45 | 32.68 | 7.90 | |

Cooling capacity table

MVUR280B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 20.80 | 2.30 | 24.80 | 2.86 | 28.80 | 3.42 | 30.80 | 3.67 | 32.80 | 3.95 | 35.30 | 4.10 | 36.10 | 4.22 |
| | -2 | 20.80 | 2.34 | 24.80 | 2.90 | 28.80 | 3.44 | 30.80 | 3.70 | 32.80 | 3.98 | 35.30 | 4.14 | 36.10 | 4.25 |
| | 0 | 20.80 | 2.37 | 24.80 | 2.92 | 28.80 | 3.47 | 30.80 | 3.73 | 32.80 | 4.02 | 35.30 | 4.18 | 36.10 | 4.30 |
| | 2 | 20.80 | 2.42 | 24.80 | 2.94 | 28.80 | 3.53 | 30.80 | 3.77 | 32.80 | 4.06 | 35.30 | 4.24 | 36.10 | 4.35 |
| | 4 | 20.80 | 2.47 | 24.80 | 2.98 | 28.80 | 3.56 | 30.80 | 3.81 | 32.80 | 4.13 | 35.30 | 4.30 | 36.10 | 4.39 |
| | 6 | 20.80 | 2.49 | 24.80 | 3.01 | 28.80 | 3.59 | 30.80 | 3.87 | 32.80 | 4.17 | 35.30 | 4.34 | 36.10 | 4.46 |
| | 8 | 20.80 | 2.51 | 24.80 | 3.06 | 28.80 | 3.63 | 30.80 | 3.92 | 32.80 | 4.22 | 35.30 | 4.37 | 36.10 | 4.51 |
| | 10 | 20.80 | 2.54 | 24.80 | 3.10 | 28.80 | 3.69 | 30.80 | 3.98 | 32.80 | 4.29 | 35.30 | 4.40 | 36.10 | 4.54 |
| | 12 | 20.80 | 2.60 | 24.80 | 3.16 | 28.80 | 3.76 | 30.80 | 4.06 | 32.80 | 4.37 | 34.90 | 4.47 | 35.60 | 4.60 |
| | 14 | 20.80 | 2.64 | 24.80 | 3.22 | 28.80 | 3.83 | 30.80 | 4.14 | 32.80 | 4.45 | 34.40 | 4.50 | 35.20 | 4.64 |
| | 16 | 20.80 | 2.69 | 24.80 | 3.28 | 28.80 | 3.90 | 30.80 | 4.22 | 32.80 | 4.54 | 34.00 | 4.56 | 34.70 | 4.69 |
| | 18 | 20.80 | 2.74 | 24.80 | 3.34 | 28.80 | 3.98 | 30.80 | 4.33 | 32.80 | 4.76 | 33.50 | 4.79 | 34.30 | 4.84 |
| | 20 | 20.80 | 2.80 | 24.80 | 3.42 | 28.80 | 4.22 | 30.80 | 4.66 | 32.30 | 4.99 | 33.10 | 5.03 | 33.80 | 5.07 |
| | 21 | 20.80 | 2.82 | 24.80 | 3.51 | 28.80 | 4.37 | 30.80 | 4.83 | 32.10 | 5.11 | 32.80 | 5.14 | 33.60 | 5.19 |
| | 23 | 20.80 | 2.96 | 24.80 | 3.77 | 28.80 | 4.68 | 30.80 | 5.18 | 31.60 | 5.33 | 32.40 | 5.38 | 33.10 | 5.43 |
| | 25 | 20.80 | 3.16 | 24.80 | 4.03 | 28.80 | 5.01 | 30.80 | 5.55 | 31.20 | 5.56 | 31.90 | 5.62 | 32.70 | 5.66 |
| | 27 | 20.80 | 3.36 | 24.80 | 4.31 | 28.80 | 5.36 | 30.30 | 5.78 | 30.70 | 5.80 | 31.50 | 5.85 | 32.20 | 5.91 |
| | 29 | 20.80 | 3.59 | 24.80 | 4.59 | 28.80 | 5.73 | 29.90 | 6.01 | 30.30 | 6.04 | 31.00 | 6.09 | 31.80 | 6.15 |
| | 31 | 20.80 | 3.82 | 24.80 | 4.90 | 28.80 | 6.11 | 29.40 | 6.25 | 29.80 | 6.27 | 30.60 | 6.33 | 31.30 | 6.39 |
| | 33 | 20.80 | 4.06 | 24.80 | 5.22 | 28.60 | 6.45 | 29.00 | 6.48 | 29.40 | 6.51 | 30.10 | 6.57 | 30.90 | 6.63 |
| 35 | 20.80 | 4.32 | 24.80 | 5.56 | 28.10 | 6.68 | 28.50 | 6.72 | 28.90 | 6.75 | 29.60 | 6.81 | 30.40 | 6.88 | |
| 37 | 20.80 | 4.60 | 24.80 | 5.92 | 27.70 | 6.92 | 28.10 | 6.95 | 28.40 | 6.99 | 29.20 | 7.06 | 29.90 | 7.12 | |
| 39 | 20.80 | 4.89 | 24.80 | 6.31 | 27.20 | 7.16 | 27.60 | 7.19 | 28.00 | 7.23 | 28.70 | 7.30 | 29.50 | 7.37 | |
| 41 | 20.80 | 4.94 | 24.80 | 6.36 | 26.99 | 7.21 | 27.39 | 7.24 | 27.79 | 7.28 | 28.34 | 7.35 | 28.61 | 7.42 | |
| 43 | 20.80 | 4.99 | 24.80 | 6.44 | 26.77 | 7.26 | 27.17 | 7.29 | 27.57 | 7.33 | 28.08 | 7.38 | 28.17 | 7.57 | |
| 45 | 20.80 | 5.15 | 24.80 | 6.48 | 26.50 | 7.32 | 26.89 | 7.38 | 27.33 | 7.40 | 27.80 | 7.58 | 27.91 | 7.75 | |
| 48 | 22.78 | 5.33 | 27.16 | 7.03 | 28.60 | 7.37 | 28.98 | 7.43 | 29.59 | 7.47 | 29.94 | 7.61 | 30.17 | 7.83 | |
| 100% | -5 | 18.90 | 2.09 | 22.50 | 2.52 | 26.20 | 3.00 | 28.00 | 3.21 | 29.80 | 3.49 | 33.50 | 3.98 | 35.40 | 4.15 |
| | -2 | 18.90 | 2.12 | 22.50 | 2.55 | 26.20 | 3.03 | 28.00 | 3.27 | 29.80 | 3.54 | 33.50 | 4.02 | 35.40 | 4.18 |
| | 0 | 18.90 | 2.14 | 22.50 | 2.58 | 26.20 | 3.07 | 28.00 | 3.31 | 29.80 | 3.57 | 33.50 | 4.09 | 35.40 | 4.22 |
| | 2 | 18.90 | 2.18 | 22.50 | 2.62 | 26.20 | 3.10 | 28.00 | 3.36 | 29.80 | 3.61 | 33.50 | 4.15 | 35.40 | 4.29 |
| | 4 | 18.90 | 2.20 | 22.50 | 2.64 | 26.20 | 3.15 | 28.00 | 3.41 | 29.80 | 3.66 | 33.50 | 4.19 | 35.40 | 4.34 |
| | 6 | 18.90 | 2.23 | 22.50 | 2.69 | 26.20 | 3.19 | 28.00 | 3.47 | 29.80 | 3.71 | 33.50 | 4.25 | 35.40 | 4.40 |
| | 8 | 18.90 | 2.27 | 22.50 | 2.73 | 26.20 | 3.25 | 28.00 | 3.51 | 29.80 | 3.77 | 33.50 | 4.32 | 35.40 | 4.48 |
| | 10 | 18.90 | 2.30 | 22.50 | 2.79 | 26.20 | 3.30 | 28.00 | 3.57 | 29.80 | 3.84 | 33.50 | 4.39 | 35.40 | 4.54 |
| | 12 | 18.90 | 2.34 | 22.50 | 2.84 | 26.20 | 3.36 | 28.00 | 3.63 | 29.80 | 3.91 | 33.50 | 4.47 | 34.90 | 4.57 |
| | 14 | 18.90 | 2.38 | 22.50 | 2.89 | 26.20 | 3.43 | 28.00 | 3.70 | 29.80 | 3.98 | 33.50 | 4.56 | 34.50 | 4.63 |
| | 16 | 18.90 | 2.43 | 22.50 | 2.95 | 26.20 | 3.50 | 28.00 | 3.78 | 29.80 | 4.06 | 33.30 | 4.61 | 34.00 | 4.68 |
| | 18 | 18.90 | 2.47 | 22.50 | 3.00 | 26.20 | 3.56 | 28.00 | 3.85 | 29.80 | 4.14 | 32.90 | 4.76 | 33.60 | 4.80 |
| | 20 | 18.90 | 2.52 | 22.50 | 3.07 | 26.20 | 3.67 | 28.00 | 4.04 | 29.80 | 4.44 | 32.40 | 4.99 | 33.10 | 5.03 |
| | 21 | 18.90 | 2.54 | 22.50 | 3.09 | 26.20 | 3.80 | 28.00 | 4.19 | 29.80 | 4.59 | 32.20 | 5.11 | 32.90 | 5.15 |
| | 23 | 18.90 | 2.61 | 22.50 | 3.30 | 26.20 | 4.07 | 28.00 | 4.49 | 29.80 | 4.93 | 31.80 | 5.34 | 32.40 | 5.38 |
| | 25 | 18.90 | 2.78 | 22.50 | 3.52 | 26.20 | 4.36 | 28.00 | 4.81 | 29.80 | 5.28 | 31.30 | 5.57 | 32.00 | 5.62 |
| | 27 | 18.90 | 2.97 | 22.50 | 3.76 | 26.20 | 4.66 | 28.00 | 5.14 | 29.80 | 5.65 | 30.80 | 5.81 | 31.50 | 5.86 |
| | 29 | 18.90 | 3.15 | 22.50 | 4.01 | 26.20 | 4.97 | 28.00 | 5.49 | 29.70 | 6.00 | 30.40 | 6.05 | 31.10 | 6.09 |
| | 31 | 18.90 | 3.36 | 22.50 | 4.28 | 26.20 | 5.30 | 28.00 | 5.86 | 29.30 | 6.23 | 29.90 | 6.28 | 30.60 | 6.34 |
| | 33 | 18.90 | 3.57 | 22.50 | 4.56 | 26.20 | 5.65 | 28.00 | 6.26 | 28.80 | 6.46 | 29.50 | 6.52 | 30.20 | 6.58 |
| 35 | 18.90 | 3.79 | 22.50 | 4.85 | 26.20 | 6.03 | 28.00 | 6.67 | 28.30 | 6.70 | 29.00 | 6.76 | 29.70 | 6.81 | |
| 37 | 18.90 | 4.04 | 22.50 | 5.16 | 26.20 | 6.43 | 27.50 | 6.90 | 27.90 | 6.94 | 28.60 | 7.00 | 29.20 | 7.06 | |
| 39 | 18.90 | 4.29 | 22.50 | 5.48 | 26.20 | 6.84 | 27.10 | 7.14 | 27.40 | 7.17 | 28.10 | 7.24 | 28.80 | 7.31 | |
| 41 | 18.90 | 4.49 | 22.50 | 5.68 | 26.20 | 7.09 | 26.68 | 7.19 | 27.19 | 7.28 | 27.61 | 7.41 | 28.38 | 7.46 | |
| 43 | 18.90 | 4.69 | 22.50 | 5.88 | 26.20 | 7.22 | 26.26 | 7.27 | 26.99 | 7.35 | 27.78 | 7.46 | 27.88 | 7.54 | |
| 45 | 18.90 | 4.95 | 22.50 | 6.15 | 26.20 | 7.35 | 25.70 | 7.37 | 26.85 | 7.49 | 27.54 | 7.57 | 27.32 | 7.64 | |
| 48 | 19.57 | 5.17 | 23.30 | 6.37 | 27.14 | 7.36 | 25.52 | 7.46 | 27.77 | 7.62 | 26.78 | 7.65 | 27.68 | 7.71 | |

Cooling capacity table

MVUR280B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 17.00 | 1.85 | 20.30 | 2.22 | 23.60 | 2.62 | 25.20 | 2.86 | 26.80 | 3.04 | 30.10 | 3.50 | 33.40 | 4.01 |
| | -2 | 17.00 | 1.87 | 20.30 | 2.25 | 23.60 | 2.66 | 25.20 | 2.90 | 26.80 | 3.08 | 30.10 | 3.53 | 33.40 | 4.05 |
| | 0 | 17.00 | 1.90 | 20.30 | 2.27 | 23.60 | 2.70 | 25.20 | 2.93 | 26.80 | 3.12 | 30.10 | 3.57 | 33.40 | 4.08 |
| | 2 | 17.00 | 1.93 | 20.30 | 2.30 | 23.60 | 2.72 | 25.20 | 2.98 | 26.80 | 3.17 | 30.10 | 3.65 | 33.40 | 4.14 |
| | 4 | 17.00 | 1.96 | 20.30 | 2.34 | 23.60 | 2.77 | 25.20 | 3.02 | 26.80 | 3.21 | 30.10 | 3.70 | 33.40 | 4.20 |
| | 6 | 17.00 | 1.98 | 20.30 | 2.38 | 23.60 | 2.82 | 25.20 | 3.08 | 26.80 | 3.26 | 30.10 | 3.76 | 33.40 | 4.27 |
| | 8 | 17.00 | 2.02 | 20.30 | 2.43 | 23.60 | 2.88 | 25.20 | 3.12 | 26.80 | 3.32 | 30.10 | 3.83 | 33.40 | 4.31 |
| | 10 | 17.00 | 2.06 | 20.30 | 2.48 | 23.60 | 2.93 | 25.20 | 3.16 | 26.80 | 3.40 | 30.10 | 3.88 | 33.40 | 4.38 |
| | 12 | 17.00 | 2.09 | 20.30 | 2.53 | 23.60 | 2.98 | 25.20 | 3.22 | 26.80 | 3.46 | 30.10 | 3.96 | 33.40 | 4.46 |
| | 14 | 17.00 | 2.13 | 20.30 | 2.57 | 23.60 | 3.04 | 25.20 | 3.28 | 26.80 | 3.52 | 30.10 | 4.03 | 33.40 | 4.54 |
| | 16 | 17.00 | 2.17 | 20.30 | 2.62 | 23.60 | 3.10 | 25.20 | 3.34 | 26.80 | 3.60 | 30.10 | 4.11 | 33.30 | 4.62 |
| | 18 | 17.00 | 2.20 | 20.30 | 2.67 | 23.60 | 3.15 | 25.20 | 3.41 | 26.80 | 3.67 | 30.10 | 4.19 | 32.90 | 4.76 |
| | 20 | 17.00 | 2.25 | 20.30 | 2.73 | 23.60 | 3.22 | 25.20 | 3.48 | 26.80 | 3.80 | 30.10 | 4.50 | 32.40 | 4.99 |
| | 21 | 17.00 | 2.27 | 20.30 | 2.75 | 23.60 | 3.27 | 25.20 | 3.60 | 26.80 | 3.94 | 30.10 | 4.67 | 32.20 | 5.11 |
| | 23 | 17.00 | 2.31 | 20.30 | 2.86 | 23.60 | 3.51 | 25.20 | 3.86 | 26.80 | 4.22 | 30.10 | 5.01 | 31.70 | 5.34 |
| | 25 | 17.00 | 2.44 | 20.30 | 3.06 | 23.60 | 3.75 | 25.20 | 4.13 | 26.80 | 4.51 | 30.10 | 5.36 | 31.30 | 5.57 |
| | 27 | 17.00 | 2.59 | 20.30 | 3.25 | 23.60 | 4.00 | 25.20 | 4.40 | 26.80 | 4.83 | 30.10 | 5.73 | 30.80 | 5.81 |
| | 29 | 17.00 | 2.76 | 20.30 | 3.47 | 23.60 | 4.27 | 25.20 | 4.70 | 26.80 | 5.16 | 29.80 | 6.00 | 30.40 | 6.04 |
| | 31 | 17.00 | 2.93 | 20.30 | 3.69 | 23.60 | 4.55 | 25.20 | 5.02 | 26.80 | 5.50 | 29.30 | 6.23 | 29.90 | 6.28 |
| | 33 | 17.00 | 3.11 | 20.30 | 3.93 | 23.60 | 4.85 | 25.20 | 5.35 | 26.80 | 5.87 | 28.90 | 6.47 | 29.50 | 6.52 |
| 35 | 17.00 | 3.31 | 20.30 | 4.18 | 23.60 | 5.17 | 25.20 | 5.70 | 26.80 | 6.26 | 28.40 | 6.71 | 29.00 | 6.76 | |
| 37 | 17.00 | 3.51 | 20.30 | 4.44 | 23.60 | 5.50 | 25.20 | 6.07 | 26.80 | 6.67 | 27.90 | 6.94 | 28.60 | 6.99 | |
| 39 | 17.00 | 3.72 | 20.30 | 4.73 | 23.60 | 5.85 | 25.20 | 6.46 | 26.80 | 7.10 | 27.50 | 7.18 | 28.10 | 7.24 | |
| 41 | 17.00 | 3.85 | 20.30 | 4.94 | 23.60 | 6.07 | 25.20 | 6.63 | 26.80 | 7.14 | 27.31 | 7.36 | 27.91 | 7.41 | |
| 43 | 17.00 | 4.03 | 20.30 | 5.16 | 23.60 | 6.28 | 25.20 | 6.80 | 26.80 | 7.30 | 27.17 | 7.46 | 27.67 | 7.52 | |
| 45 | 17.00 | 4.29 | 20.30 | 5.41 | 23.60 | 6.54 | 25.20 | 7.03 | 26.80 | 7.50 | 27.02 | 7.54 | 27.25 | 7.62 | |
| 48 | 17.00 | 4.53 | 20.30 | 5.66 | 23.60 | 6.78 | 25.20 | 7.12 | 26.80 | 7.56 | 29.77 | 7.64 | 29.46 | 7.73 | |
| 80% | -5 | 15.10 | 1.63 | 18.00 | 1.93 | 20.90 | 2.28 | 22.40 | 2.43 | 23.90 | 2.62 | 26.80 | 3.02 | 29.70 | 3.45 |
| | -2 | 15.10 | 1.66 | 18.00 | 1.95 | 20.90 | 2.30 | 22.40 | 2.47 | 23.90 | 2.64 | 26.80 | 3.05 | 29.70 | 3.49 |
| | 0 | 15.10 | 1.68 | 18.00 | 1.98 | 20.90 | 2.33 | 22.40 | 2.50 | 23.90 | 2.69 | 26.80 | 3.10 | 29.70 | 3.53 |
| | 2 | 15.10 | 1.72 | 18.00 | 2.01 | 20.90 | 2.37 | 22.40 | 2.54 | 23.90 | 2.74 | 26.80 | 3.16 | 29.70 | 3.60 |
| | 4 | 15.10 | 1.75 | 18.00 | 2.04 | 20.90 | 2.41 | 22.40 | 2.60 | 23.90 | 2.78 | 26.80 | 3.22 | 29.70 | 3.65 |
| | 6 | 15.10 | 1.78 | 18.00 | 2.09 | 20.90 | 2.45 | 22.40 | 2.66 | 23.90 | 2.84 | 26.80 | 3.26 | 29.70 | 3.71 |
| | 8 | 15.10 | 1.81 | 18.00 | 2.14 | 20.90 | 2.51 | 22.40 | 2.70 | 23.90 | 2.90 | 26.80 | 3.31 | 29.70 | 3.78 |
| | 10 | 15.10 | 1.82 | 18.00 | 2.18 | 20.90 | 2.57 | 22.40 | 2.77 | 23.90 | 2.97 | 26.80 | 3.39 | 29.70 | 3.82 |
| | 12 | 15.10 | 1.85 | 18.00 | 2.22 | 20.90 | 2.62 | 22.40 | 2.82 | 23.90 | 3.03 | 26.80 | 3.45 | 29.70 | 3.89 |
| | 14 | 15.10 | 1.89 | 18.00 | 2.27 | 20.90 | 2.66 | 22.40 | 2.87 | 23.90 | 3.08 | 26.80 | 3.51 | 29.70 | 3.96 |
| | 16 | 15.10 | 1.91 | 18.00 | 2.30 | 20.90 | 2.71 | 22.40 | 2.92 | 23.90 | 3.14 | 26.80 | 3.59 | 29.70 | 4.04 |
| | 18 | 15.10 | 1.95 | 18.00 | 2.35 | 20.90 | 2.77 | 22.40 | 2.98 | 23.90 | 3.20 | 26.80 | 3.66 | 29.70 | 4.12 |
| | 20 | 15.10 | 1.99 | 18.00 | 2.39 | 20.90 | 2.82 | 22.40 | 3.04 | 23.90 | 3.26 | 26.80 | 3.79 | 29.70 | 4.40 |
| | 21 | 15.10 | 2.00 | 18.00 | 2.41 | 20.90 | 2.85 | 22.40 | 3.07 | 23.90 | 3.34 | 26.80 | 3.93 | 29.70 | 4.57 |
| | 23 | 15.10 | 2.04 | 18.00 | 2.46 | 20.90 | 2.98 | 22.40 | 3.27 | 23.90 | 3.57 | 26.80 | 4.21 | 29.70 | 4.90 |
| | 25 | 15.10 | 2.10 | 18.00 | 2.62 | 20.90 | 3.19 | 22.40 | 3.50 | 23.90 | 3.81 | 26.80 | 4.50 | 29.70 | 5.24 |
| | 27 | 15.10 | 2.24 | 18.00 | 2.79 | 20.90 | 3.40 | 22.40 | 3.73 | 23.90 | 4.07 | 26.80 | 4.81 | 29.70 | 5.61 |
| | 29 | 15.10 | 2.38 | 18.00 | 2.97 | 20.90 | 3.62 | 22.40 | 3.97 | 23.90 | 4.35 | 26.80 | 5.13 | 29.70 | 6.00 |
| | 31 | 15.10 | 2.53 | 18.00 | 3.16 | 20.90 | 3.86 | 22.40 | 4.23 | 23.90 | 4.64 | 26.80 | 5.48 | 29.20 | 6.23 |
| | 33 | 15.10 | 2.69 | 18.00 | 3.35 | 20.90 | 4.11 | 22.40 | 4.51 | 23.90 | 4.94 | 26.80 | 5.84 | 28.80 | 6.46 |
| 35 | 15.10 | 2.85 | 18.00 | 3.57 | 20.90 | 4.37 | 22.40 | 4.80 | 23.90 | 5.26 | 26.80 | 6.23 | 28.30 | 6.70 | |
| 37 | 15.10 | 3.02 | 18.00 | 3.78 | 20.90 | 4.65 | 22.40 | 5.11 | 23.90 | 5.60 | 26.80 | 6.64 | 27.90 | 6.93 | |
| 39 | 15.10 | 3.20 | 18.00 | 4.04 | 20.90 | 4.94 | 22.40 | 5.44 | 23.90 | 5.96 | 26.80 | 7.07 | 27.40 | 7.17 | |
| 41 | 15.10 | 3.27 | 18.00 | 4.07 | 20.90 | 5.02 | 22.40 | 5.58 | 23.90 | 6.07 | 26.80 | 7.25 | 27.23 | 7.30 | |
| 43 | 15.10 | 3.37 | 18.00 | 4.11 | 20.90 | 5.09 | 22.40 | 5.68 | 23.90 | 6.15 | 26.80 | 7.34 | 27.06 | 7.38 | |
| 45 | 15.10 | 3.46 | 18.00 | 4.16 | 20.90 | 5.19 | 22.40 | 5.80 | 23.90 | 6.26 | 26.80 | 7.42 | 26.73 | 7.50 | |
| 48 | 15.10 | 3.58 | 18.00 | 4.19 | 23.51 | 5.27 | 22.40 | 5.88 | 23.90 | 6.31 | 26.80 | 7.49 | 29.82 | 7.60 | |

Cooling capacity table

MVUR280B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 13.20 | 1.46 | 15.80 | 1.71 | 18.30 | 1.94 | 19.60 | 2.08 | 20.90 | 2.22 | 23.40 | 2.53 | 26.00 | 2.91 |
| | -2 | 13.20 | 1.47 | 15.80 | 1.72 | 18.30 | 1.95 | 19.60 | 2.12 | 20.90 | 2.26 | 23.40 | 2.57 | 26.00 | 2.95 |
| | 0 | 13.20 | 1.48 | 15.80 | 1.74 | 18.30 | 1.99 | 19.60 | 2.16 | 20.90 | 2.30 | 23.40 | 2.63 | 26.00 | 2.99 |
| | 2 | 13.20 | 1.48 | 15.80 | 1.75 | 18.30 | 2.02 | 19.60 | 2.20 | 20.90 | 2.33 | 23.40 | 2.68 | 26.00 | 3.04 |
| | 4 | 13.20 | 1.50 | 15.80 | 1.79 | 18.30 | 2.06 | 19.60 | 2.24 | 20.90 | 2.39 | 23.40 | 2.73 | 26.00 | 3.11 |
| | 6 | 13.20 | 1.53 | 15.80 | 1.82 | 18.30 | 2.12 | 19.60 | 2.31 | 20.90 | 2.44 | 23.40 | 2.77 | 26.00 | 3.17 |
| | 8 | 13.20 | 1.56 | 15.80 | 1.88 | 18.30 | 2.16 | 19.60 | 2.34 | 20.90 | 2.49 | 23.40 | 2.85 | 26.00 | 3.23 |
| | 10 | 13.20 | 1.59 | 15.80 | 1.91 | 18.30 | 2.22 | 19.60 | 2.39 | 20.90 | 2.56 | 23.40 | 2.91 | 26.00 | 3.27 |
| | 12 | 13.20 | 1.63 | 15.80 | 1.93 | 18.30 | 2.27 | 19.60 | 2.44 | 20.90 | 2.61 | 23.40 | 2.97 | 26.00 | 3.34 |
| | 14 | 13.20 | 1.65 | 15.80 | 1.97 | 18.30 | 2.30 | 19.60 | 2.47 | 20.90 | 2.65 | 23.40 | 3.02 | 26.00 | 3.40 |
| | 16 | 13.20 | 1.68 | 15.80 | 2.00 | 18.30 | 2.35 | 19.60 | 2.53 | 20.90 | 2.71 | 23.40 | 3.07 | 26.00 | 3.46 |
| | 18 | 13.20 | 1.71 | 15.80 | 2.04 | 18.30 | 2.39 | 19.60 | 2.57 | 20.90 | 2.75 | 23.40 | 3.14 | 26.00 | 3.53 |
| | 20 | 13.20 | 1.74 | 15.80 | 2.08 | 18.30 | 2.44 | 19.60 | 2.62 | 20.90 | 2.80 | 23.40 | 3.20 | 26.00 | 3.63 |
| | 21 | 13.20 | 1.75 | 15.80 | 2.09 | 18.30 | 2.45 | 19.60 | 2.64 | 20.90 | 2.83 | 23.40 | 3.25 | 26.00 | 3.76 |
| | 23 | 13.20 | 1.78 | 15.80 | 2.13 | 18.30 | 2.51 | 19.60 | 2.73 | 20.90 | 2.98 | 23.40 | 3.48 | 26.00 | 4.03 |
| | 25 | 13.20 | 1.82 | 15.80 | 2.22 | 18.30 | 2.67 | 19.60 | 2.92 | 20.90 | 3.17 | 23.40 | 3.72 | 26.00 | 4.31 |
| | 27 | 13.20 | 1.92 | 15.80 | 2.36 | 18.30 | 2.85 | 19.60 | 3.11 | 20.90 | 3.39 | 23.40 | 3.97 | 26.00 | 4.60 |
| | 29 | 13.20 | 2.04 | 15.80 | 2.51 | 18.30 | 3.03 | 19.60 | 3.32 | 20.90 | 3.60 | 23.40 | 4.23 | 26.00 | 4.92 |
| | 31 | 13.20 | 2.16 | 15.80 | 2.66 | 18.30 | 3.23 | 19.60 | 3.52 | 20.90 | 3.84 | 23.40 | 4.51 | 26.00 | 5.24 |
| | 33 | 13.20 | 2.29 | 15.80 | 2.83 | 18.30 | 3.43 | 19.60 | 3.75 | 20.90 | 4.09 | 23.40 | 4.81 | 26.00 | 5.59 |
| 35 | 13.20 | 2.43 | 15.80 | 3.00 | 18.30 | 3.64 | 19.60 | 3.99 | 20.90 | 4.35 | 23.40 | 5.12 | 26.00 | 5.96 | |
| 37 | 13.20 | 2.56 | 15.80 | 3.18 | 18.30 | 3.87 | 19.60 | 4.23 | 20.90 | 4.63 | 23.40 | 5.46 | 26.00 | 6.35 | |
| 39 | 13.20 | 2.71 | 15.80 | 3.37 | 18.30 | 4.11 | 19.60 | 4.50 | 20.90 | 4.92 | 23.40 | 5.80 | 26.00 | 6.76 | |
| 41 | 13.20 | 2.83 | 15.80 | 3.49 | 18.30 | 4.23 | 19.60 | 4.65 | 20.90 | 5.07 | 23.40 | 6.04 | 26.00 | 7.06 | |
| 43 | 13.20 | 3.07 | 15.80 | 3.73 | 18.30 | 4.40 | 19.60 | 4.90 | 20.90 | 5.22 | 23.40 | 6.26 | 26.00 | 7.28 | |
| 45 | 13.20 | 3.13 | 15.80 | 3.81 | 18.30 | 4.49 | 19.60 | 4.98 | 20.90 | 5.48 | 23.40 | 6.60 | 26.00 | 7.56 | |
| 48 | 13.20 | 3.21 | 15.80 | 3.84 | 18.30 | 4.54 | 19.60 | 5.06 | 20.90 | 5.63 | 23.40 | 6.89 | 26.00 | 7.74 | |
| 60% | -5 | 11.30 | 1.24 | 13.50 | 1.44 | 15.70 | 1.68 | 16.80 | 1.79 | 17.90 | 1.93 | 20.10 | 2.17 | 22.30 | 2.49 |
| | -2 | 11.30 | 1.25 | 13.50 | 1.46 | 15.70 | 1.71 | 16.80 | 1.82 | 17.90 | 1.95 | 20.10 | 2.20 | 22.30 | 2.51 |
| | 0 | 11.30 | 1.27 | 13.50 | 1.48 | 15.70 | 1.73 | 16.80 | 1.84 | 17.90 | 1.98 | 20.10 | 2.24 | 22.30 | 2.54 |
| | 2 | 11.30 | 1.29 | 13.50 | 1.52 | 15.70 | 1.77 | 16.80 | 1.87 | 17.90 | 2.01 | 20.10 | 2.28 | 22.30 | 2.57 |
| | 4 | 11.30 | 1.33 | 13.50 | 1.55 | 15.70 | 1.80 | 16.80 | 1.90 | 17.90 | 2.04 | 20.10 | 2.32 | 22.30 | 2.61 |
| | 6 | 11.30 | 1.34 | 13.50 | 1.57 | 15.70 | 1.83 | 16.80 | 1.94 | 17.90 | 2.08 | 20.10 | 2.36 | 22.30 | 2.67 |
| | 8 | 11.30 | 1.37 | 13.50 | 1.60 | 15.70 | 1.87 | 16.80 | 1.98 | 17.90 | 2.12 | 20.10 | 2.41 | 22.30 | 2.71 |
| | 10 | 11.30 | 1.39 | 13.50 | 1.64 | 15.70 | 1.90 | 16.80 | 2.03 | 17.90 | 2.17 | 20.10 | 2.45 | 22.30 | 2.75 |
| | 12 | 11.30 | 1.42 | 13.50 | 1.66 | 15.70 | 1.93 | 16.80 | 2.07 | 17.90 | 2.20 | 20.10 | 2.50 | 22.30 | 2.80 |
| | 14 | 11.30 | 1.44 | 13.50 | 1.69 | 15.70 | 1.96 | 16.80 | 2.10 | 17.90 | 2.25 | 20.10 | 2.54 | 22.30 | 2.85 |
| | 16 | 11.30 | 1.46 | 13.50 | 1.72 | 15.70 | 2.00 | 16.80 | 2.14 | 17.90 | 2.28 | 20.10 | 2.59 | 22.30 | 2.90 |
| | 18 | 11.30 | 1.48 | 13.50 | 1.74 | 15.70 | 2.03 | 16.80 | 2.18 | 17.90 | 2.33 | 20.10 | 2.63 | 22.30 | 2.96 |
| | 20 | 11.30 | 1.50 | 13.50 | 1.78 | 15.70 | 2.07 | 16.80 | 2.22 | 17.90 | 2.37 | 20.10 | 2.69 | 22.30 | 3.02 |
| | 21 | 11.30 | 1.52 | 13.50 | 1.79 | 15.70 | 2.09 | 16.80 | 2.24 | 17.90 | 2.39 | 20.10 | 2.71 | 22.30 | 3.05 |
| | 23 | 11.30 | 1.54 | 13.50 | 1.82 | 15.70 | 2.12 | 16.80 | 2.28 | 17.90 | 2.44 | 20.10 | 2.82 | 22.30 | 3.24 |
| | 25 | 11.30 | 1.56 | 13.50 | 1.85 | 15.70 | 2.20 | 16.80 | 2.39 | 17.90 | 2.59 | 20.10 | 3.01 | 22.30 | 3.46 |
| | 27 | 11.30 | 1.63 | 13.50 | 1.97 | 15.70 | 2.35 | 16.80 | 2.55 | 17.90 | 2.76 | 20.10 | 3.21 | 22.30 | 3.69 |
| | 29 | 11.30 | 1.72 | 13.50 | 2.09 | 15.70 | 2.50 | 16.80 | 2.71 | 17.90 | 2.94 | 20.10 | 3.42 | 22.30 | 3.95 |
| | 31 | 11.30 | 1.82 | 13.50 | 2.21 | 15.70 | 2.65 | 16.80 | 2.88 | 17.90 | 3.13 | 20.10 | 3.64 | 22.30 | 4.20 |
| | 33 | 11.30 | 1.92 | 13.50 | 2.35 | 15.70 | 2.81 | 16.80 | 3.06 | 17.90 | 3.33 | 20.10 | 3.87 | 22.30 | 4.48 |
| 35 | 11.30 | 2.04 | 13.50 | 2.49 | 15.70 | 2.98 | 16.80 | 3.25 | 17.90 | 3.53 | 20.10 | 4.13 | 22.30 | 4.76 | |
| 37 | 11.30 | 2.16 | 13.50 | 2.63 | 15.70 | 3.16 | 16.80 | 3.45 | 17.90 | 3.75 | 20.10 | 4.39 | 22.30 | 5.07 | |
| 39 | 11.30 | 2.27 | 13.50 | 2.79 | 15.70 | 3.35 | 16.80 | 3.66 | 17.90 | 3.98 | 20.10 | 4.66 | 22.30 | 5.39 | |
| 41 | 11.30 | 2.35 | 13.50 | 2.91 | 15.70 | 3.47 | 16.80 | 3.80 | 17.90 | 4.13 | 20.10 | 4.88 | 22.30 | 5.64 | |
| 43 | 11.30 | 2.42 | 13.50 | 3.03 | 15.70 | 3.60 | 16.80 | 3.92 | 17.90 | 4.27 | 20.10 | 5.08 | 22.30 | 5.88 | |
| 45 | 11.30 | 2.53 | 13.50 | 3.18 | 15.70 | 3.74 | 16.80 | 4.06 | 17.90 | 4.48 | 20.10 | 5.31 | 22.30 | 6.21 | |
| 48 | 11.30 | 2.63 | 13.50 | 3.32 | 15.70 | 3.87 | 16.80 | 4.17 | 17.90 | 4.66 | 20.10 | 5.50 | 22.30 | 6.50 | |

Cooling capacity table

MVUR280B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 9.45 | 1.08 | 11.30 | 1.25 | 13.10 | 1.43 | 14.00 | 1.50 | 14.90 | 1.58 | 16.70 | 1.80 | 18.60 | 1.94 |
| | -2 | 9.45 | 1.09 | 11.30 | 1.27 | 13.10 | 1.45 | 14.00 | 1.52 | 14.90 | 1.61 | 16.70 | 1.83 | 18.60 | 1.97 |
| | 0 | 9.45 | 1.11 | 11.30 | 1.29 | 13.10 | 1.48 | 14.00 | 1.54 | 14.90 | 1.63 | 16.70 | 1.86 | 18.60 | 2.00 |
| | 2 | 9.45 | 1.12 | 11.30 | 1.31 | 13.10 | 1.50 | 14.00 | 1.57 | 14.90 | 1.66 | 16.70 | 1.86 | 18.60 | 2.04 |
| | 4 | 9.45 | 1.13 | 11.30 | 1.33 | 13.10 | 1.52 | 14.00 | 1.58 | 14.90 | 1.69 | 16.70 | 1.91 | 18.60 | 2.09 |
| | 6 | 9.45 | 1.15 | 11.30 | 1.35 | 13.10 | 1.54 | 14.00 | 1.62 | 14.90 | 1.72 | 16.70 | 1.94 | 18.60 | 2.15 |
| | 8 | 9.45 | 1.18 | 11.30 | 1.38 | 13.10 | 1.57 | 14.00 | 1.66 | 14.90 | 1.75 | 16.70 | 1.97 | 18.60 | 2.22 |
| | 10 | 9.45 | 1.20 | 11.30 | 1.39 | 13.10 | 1.59 | 14.00 | 1.68 | 14.90 | 1.80 | 16.70 | 2.02 | 18.60 | 2.26 |
| | 12 | 9.45 | 1.21 | 11.30 | 1.41 | 13.10 | 1.62 | 14.00 | 1.72 | 14.90 | 1.83 | 16.70 | 2.06 | 18.60 | 2.29 |
| | 14 | 9.45 | 1.23 | 11.30 | 1.43 | 13.10 | 1.64 | 14.00 | 1.75 | 14.90 | 1.86 | 16.70 | 2.09 | 18.60 | 2.34 |
| | 16 | 9.45 | 1.25 | 11.30 | 1.45 | 13.10 | 1.66 | 14.00 | 1.78 | 14.90 | 1.89 | 16.70 | 2.13 | 18.60 | 2.37 |
| | 18 | 9.45 | 1.27 | 11.30 | 1.47 | 13.10 | 1.69 | 14.00 | 1.81 | 14.90 | 1.92 | 16.70 | 2.17 | 18.60 | 2.42 |
| | 20 | 9.45 | 1.29 | 11.30 | 1.49 | 13.10 | 1.72 | 14.00 | 1.83 | 14.90 | 1.96 | 16.70 | 2.20 | 18.60 | 2.46 |
| | 21 | 9.45 | 1.29 | 11.30 | 1.51 | 13.10 | 1.73 | 14.00 | 1.85 | 14.90 | 1.98 | 16.70 | 2.23 | 18.60 | 2.49 |
| | 23 | 9.45 | 1.31 | 11.30 | 1.53 | 13.10 | 1.76 | 14.00 | 1.89 | 14.90 | 2.01 | 16.70 | 2.27 | 18.60 | 2.54 |
| | 25 | 9.45 | 1.33 | 11.30 | 1.55 | 13.10 | 1.80 | 14.00 | 1.92 | 14.90 | 2.08 | 16.70 | 2.38 | 18.60 | 2.71 |
| | 27 | 9.45 | 1.36 | 11.30 | 1.62 | 13.10 | 1.90 | 14.00 | 2.05 | 14.90 | 2.20 | 16.70 | 2.53 | 18.60 | 2.89 |
| | 29 | 9.45 | 1.43 | 11.30 | 1.71 | 13.10 | 2.01 | 14.00 | 2.18 | 14.90 | 2.35 | 16.70 | 2.70 | 18.60 | 3.08 |
| | 31 | 9.45 | 1.51 | 11.30 | 1.81 | 13.10 | 2.13 | 14.00 | 2.31 | 14.90 | 2.49 | 16.70 | 2.87 | 18.60 | 3.28 |
| | 33 | 9.45 | 1.60 | 11.30 | 1.91 | 13.10 | 2.27 | 14.00 | 2.44 | 14.90 | 2.64 | 16.70 | 3.05 | 18.60 | 3.49 |
| 35 | 9.45 | 1.69 | 11.30 | 2.02 | 13.10 | 2.39 | 14.00 | 2.59 | 14.90 | 2.80 | 16.70 | 3.24 | 18.60 | 3.70 | |
| 37 | 9.45 | 1.78 | 11.30 | 2.14 | 13.10 | 2.53 | 14.00 | 2.74 | 14.90 | 2.97 | 16.70 | 3.43 | 18.60 | 3.94 | |
| 39 | 9.45 | 1.88 | 11.30 | 2.26 | 13.10 | 2.68 | 14.00 | 2.90 | 14.90 | 3.15 | 16.70 | 3.64 | 18.60 | 4.18 | |
| 41 | 9.45 | 1.96 | 11.30 | 2.35 | 13.10 | 2.78 | 14.00 | 3.04 | 14.90 | 3.28 | 16.70 | 3.83 | 18.60 | 4.37 | |
| 43 | 9.45 | 2.09 | 11.30 | 2.51 | 13.10 | 2.87 | 14.00 | 3.17 | 14.90 | 3.37 | 16.70 | 4.03 | 18.60 | 4.57 | |
| 45 | 9.45 | 2.13 | 11.30 | 2.58 | 13.10 | 3.07 | 14.00 | 3.42 | 14.90 | 3.51 | 16.70 | 4.42 | 18.60 | 4.96 | |
| 48 | 9.45 | 2.18 | 11.30 | 2.65 | 13.10 | 3.25 | 14.00 | 3.64 | 14.90 | 3.66 | 16.70 | 4.77 | 18.60 | 5.33 | |

Cooling capacity table

MVUR335B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 29.43 | 3.30 | 35.05 | 4.03 | 40.68 | 4.32 | 42.23 | 4.49 | 44.26 | 4.62 | 45.34 | 5.02 | 46.48 | 5.05 |
| | -2 | 29.43 | 3.30 | 35.05 | 4.10 | 40.68 | 4.32 | 42.23 | 4.52 | 44.26 | 4.62 | 45.34 | 5.09 | 46.48 | 5.10 |
| | 0 | 29.43 | 3.36 | 35.05 | 4.18 | 40.68 | 4.47 | 42.23 | 4.77 | 44.26 | 4.89 | 45.34 | 5.15 | 46.48 | 5.17 |
| | 2 | 29.43 | 3.42 | 35.05 | 4.18 | 40.68 | 4.63 | 42.23 | 5.03 | 44.26 | 4.94 | 45.34 | 5.19 | 46.48 | 5.25 |
| | 4 | 29.43 | 3.49 | 35.05 | 4.27 | 40.68 | 4.79 | 42.23 | 5.06 | 44.26 | 5.01 | 45.34 | 5.18 | 46.48 | 5.35 |
| | 6 | 29.43 | 3.56 | 35.05 | 4.35 | 40.68 | 4.96 | 42.23 | 5.10 | 43.77 | 5.16 | 44.79 | 5.18 | 45.97 | 5.39 |
| | 8 | 29.43 | 3.64 | 35.05 | 4.45 | 40.68 | 5.21 | 42.23 | 5.35 | 43.23 | 5.33 | 44.30 | 3.90 | 45.39 | 5.44 |
| | 10 | 29.43 | 3.72 | 35.05 | 4.55 | 40.68 | 5.41 | 42.23 | 5.53 | 42.71 | 4.04 | 43.79 | 4.06 | 44.86 | 5.60 |
| | 12 | 29.43 | 3.79 | 35.05 | 4.63 | 40.68 | 5.51 | 41.63 | 4.03 | 42.23 | 4.06 | 43.19 | 4.07 | 44.27 | 5.63 |
| | 14 | 29.43 | 3.86 | 35.05 | 4.72 | 40.56 | 4.05 | 41.16 | 4.06 | 41.63 | 4.08 | 42.71 | 4.09 | 43.79 | 5.76 |
| | 16 | 29.43 | 3.93 | 35.05 | 4.82 | 40.08 | 4.06 | 40.56 | 4.08 | 41.04 | 4.10 | 42.11 | 4.12 | 43.19 | 5.85 |
| | 18 | 29.43 | 4.00 | 35.05 | 4.92 | 39.48 | 5.76 | 39.96 | 5.80 | 40.56 | 5.83 | 41.63 | 5.88 | 42.71 | 5.94 |
| | 20 | 29.43 | 4.09 | 35.05 | 5.23 | 38.88 | 6.05 | 39.48 | 6.08 | 39.96 | 6.11 | 41.04 | 6.17 | 42.11 | 6.23 |
| | 21 | 29.43 | 4.20 | 35.05 | 5.42 | 38.64 | 6.19 | 39.24 | 6.22 | 39.72 | 6.25 | 40.80 | 6.32 | 41.87 | 6.37 |
| | 23 | 29.43 | 4.50 | 35.05 | 5.81 | 38.16 | 6.47 | 38.64 | 6.50 | 39.12 | 6.54 | 40.20 | 6.60 | 41.27 | 6.67 |
| | 25 | 29.43 | 4.81 | 35.05 | 6.22 | 37.57 | 6.75 | 38.04 | 6.79 | 38.64 | 6.83 | 39.72 | 6.90 | 40.80 | 6.96 |
| | 27 | 29.43 | 5.13 | 35.05 | 6.66 | 37.09 | 7.04 | 37.57 | 7.08 | 38.04 | 7.11 | 39.12 | 7.19 | 40.20 | 7.27 |
| | 29 | 29.43 | 5.48 | 35.05 | 7.11 | 36.49 | 7.32 | 36.97 | 7.36 | 37.57 | 7.41 | 38.64 | 7.48 | 39.72 | 7.56 |
| | 31 | 29.43 | 5.85 | 34.94 | 7.53 | 35.89 | 7.61 | 36.49 | 7.66 | 36.97 | 7.69 | 38.04 | 7.78 | 39.12 | 7.86 |
| | 33 | 29.43 | 6.23 | 34.33 | 7.81 | 35.41 | 7.90 | 35.89 | 7.94 | 36.49 | 7.98 | 37.57 | 8.07 | 38.52 | 8.16 |
| 35 | 29.43 | 6.65 | 33.74 | 8.09 | 34.81 | 8.19 | 35.41 | 8.23 | 35.89 | 8.28 | 36.97 | 8.38 | 38.04 | 8.46 | |
| 37 | 29.43 | 7.07 | 33.26 | 8.39 | 34.34 | 8.48 | 34.81 | 8.53 | 35.41 | 8.58 | 36.37 | 8.68 | 37.45 | 8.78 | |
| 39 | 29.43 | 7.53 | 32.66 | 8.47 | 33.74 | 8.77 | 34.34 | 8.82 | 34.81 | 8.88 | 35.89 | 8.97 | 36.97 | 9.08 | |
| 41 | 29.43 | 7.92 | 32.32 | 8.56 | 33.38 | 8.85 | 33.98 | 8.90 | 34.46 | 8.96 | 35.54 | 8.99 | 35.55 | 9.16 | |
| 43 | 29.43 | 8.12 | 32.09 | 8.60 | 33.21 | 8.87 | 33.81 | 8.94 | 34.11 | 8.97 | 34.89 | 9.01 | 35.13 | 9.18 | |
| 45 | 29.43 | 8.53 | 31.89 | 8.68 | 32.85 | 8.96 | 33.45 | 9.00 | 33.61 | 9.01 | 33.94 | 9.04 | 34.44 | 9.36 | |
| 48 | 29.43 | 8.83 | 33.02 | 8.96 | 35.82 | 9.04 | 36.48 | 9.08 | 36.77 | 9.11 | 36.61 | 9.20 | 37.28 | 9.22 | |
| 120% | -5 | 27.16 | 3.19 | 32.30 | 3.86 | 37.57 | 4.56 | 40.20 | 4.98 | 42.11 | 5.19 | 43.07 | 5.35 | 44.03 | 5.50 |
| | -2 | 27.16 | 3.22 | 32.30 | 3.90 | 37.57 | 4.61 | 40.20 | 5.01 | 42.11 | 5.25 | 43.07 | 5.40 | 44.03 | 5.52 |
| | 0 | 27.16 | 3.25 | 32.30 | 3.93 | 37.57 | 4.66 | 40.20 | 5.02 | 42.11 | 5.30 | 43.07 | 5.43 | 44.03 | 5.53 |
| | 2 | 27.16 | 3.26 | 32.30 | 3.97 | 37.57 | 4.69 | 40.20 | 5.07 | 42.11 | 5.32 | 43.07 | 5.47 | 44.03 | 5.54 |
| | 4 | 27.16 | 3.29 | 32.30 | 4.02 | 37.57 | 4.76 | 40.20 | 5.11 | 42.11 | 5.39 | 43.07 | 5.48 | 44.03 | 5.55 |
| | 6 | 27.16 | 3.32 | 32.30 | 4.05 | 37.57 | 4.82 | 40.20 | 5.17 | 42.11 | 5.45 | 43.07 | 5.53 | 44.03 | 5.57 |
| | 8 | 27.16 | 3.35 | 32.30 | 4.09 | 37.57 | 4.88 | 40.20 | 5.23 | 42.11 | 5.50 | 43.07 | 5.55 | 44.03 | 5.60 |
| | 10 | 27.16 | 3.39 | 32.30 | 4.14 | 37.57 | 4.93 | 40.20 | 5.33 | 42.11 | 5.50 | 43.07 | 5.56 | 44.03 | 5.62 |
| | 12 | 27.16 | 3.46 | 32.30 | 4.22 | 37.57 | 5.02 | 40.20 | 5.43 | 41.52 | 5.53 | 42.47 | 5.53 | 43.43 | 5.66 |
| | 14 | 27.16 | 3.52 | 32.30 | 4.31 | 37.57 | 5.12 | 40.20 | 5.54 | 40.92 | 5.56 | 41.99 | 5.61 | 42.95 | 5.73 |
| | 16 | 27.16 | 3.59 | 32.30 | 4.39 | 37.57 | 5.22 | 39.96 | 4.10 | 40.44 | 5.64 | 41.40 | 5.71 | 42.35 | 5.81 |
| | 18 | 27.16 | 3.65 | 32.30 | 4.48 | 37.57 | 5.39 | 39.36 | 5.76 | 39.84 | 5.79 | 40.80 | 5.84 | 41.87 | 5.89 |
| | 20 | 27.16 | 3.73 | 32.30 | 4.65 | 37.57 | 5.81 | 38.88 | 6.05 | 39.36 | 6.07 | 40.32 | 6.12 | 41.28 | 6.18 |
| | 21 | 27.16 | 3.76 | 32.30 | 4.82 | 37.57 | 6.01 | 38.52 | 6.19 | 39.00 | 6.21 | 40.08 | 6.27 | 41.04 | 6.33 |
| | 23 | 27.16 | 4.02 | 32.30 | 5.17 | 37.57 | 6.44 | 38.05 | 6.46 | 38.52 | 6.49 | 39.48 | 6.56 | 40.44 | 6.61 |
| | 25 | 27.16 | 4.30 | 32.30 | 5.52 | 36.97 | 6.72 | 37.45 | 6.74 | 37.93 | 6.78 | 39.00 | 6.84 | 39.96 | 6.91 |
| | 27 | 27.16 | 4.59 | 32.30 | 5.91 | 36.49 | 6.99 | 36.97 | 7.04 | 37.45 | 7.07 | 38.40 | 7.13 | 39.36 | 7.20 |
| | 29 | 27.16 | 4.89 | 32.30 | 6.31 | 35.89 | 7.28 | 36.37 | 7.32 | 36.85 | 7.35 | 37.81 | 7.43 | 38.88 | 7.49 |
| | 31 | 27.16 | 5.22 | 32.30 | 6.73 | 35.29 | 7.57 | 35.89 | 7.60 | 36.37 | 7.65 | 37.33 | 7.72 | 38.28 | 7.80 |
| | 33 | 27.16 | 5.56 | 32.30 | 7.18 | 34.81 | 7.85 | 35.29 | 7.90 | 35.77 | 7.93 | 36.73 | 8.02 | 37.69 | 8.09 |
| 35 | 27.16 | 5.92 | 32.30 | 7.66 | 34.22 | 8.13 | 34.70 | 8.18 | 35.29 | 8.22 | 36.25 | 8.31 | 37.21 | 8.40 | |
| 37 | 27.16 | 6.30 | 32.30 | 8.16 | 33.74 | 8.43 | 34.22 | 8.47 | 34.70 | 8.52 | 35.65 | 8.60 | 36.61 | 8.70 | |
| 39 | 27.16 | 6.70 | 32.18 | 8.61 | 33.14 | 8.71 | 33.62 | 8.77 | 34.10 | 8.81 | 35.17 | 8.91 | 36.13 | 8.99 | |
| 41 | 27.16 | 6.88 | 31.92 | 8.68 | 32.88 | 8.77 | 33.36 | 8.83 | 33.84 | 8.87 | 34.91 | 8.93 | 35.09 | 9.06 | |
| 43 | 27.16 | 6.99 | 31.75 | 8.74 | 32.62 | 8.83 | 33.10 | 8.86 | 33.58 | 8.90 | 34.31 | 8.96 | 34.55 | 9.24 | |
| 45 | 27.16 | 7.07 | 31.58 | 8.82 | 32.31 | 8.91 | 32.75 | 8.94 | 33.28 | 8.97 | 33.61 | 8.98 | 34.20 | 9.44 | |
| 48 | 27.16 | 7.12 | 36.28 | 8.92 | 36.95 | 8.99 | 37.34 | 9.01 | 38.14 | 9.04 | 38.34 | 9.02 | 39.10 | 9.56 | |

Cooling capacity table

MVUR335B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 24.89 | 2.78 | 29.67 | 3.46 | 34.46 | 4.13 | 36.85 | 4.44 | 39.24 | 4.77 | 42.24 | 4.96 | 43.19 | 5.11 |
| | -2 | 24.89 | 2.84 | 29.67 | 3.51 | 34.46 | 4.17 | 36.85 | 4.48 | 39.24 | 4.81 | 42.24 | 5.01 | 43.19 | 5.14 |
| | 0 | 24.89 | 2.86 | 29.67 | 3.53 | 34.46 | 4.20 | 36.85 | 4.51 | 39.24 | 4.86 | 42.24 | 5.06 | 43.19 | 5.20 |
| | 2 | 24.89 | 2.93 | 29.67 | 3.56 | 34.46 | 4.27 | 36.85 | 4.56 | 39.24 | 4.92 | 42.24 | 5.13 | 43.19 | 5.26 |
| | 4 | 24.89 | 2.99 | 29.67 | 3.60 | 34.46 | 4.31 | 36.85 | 4.61 | 39.24 | 4.99 | 42.24 | 5.20 | 43.19 | 5.31 |
| | 6 | 24.89 | 3.01 | 29.67 | 3.64 | 34.46 | 4.35 | 36.85 | 4.69 | 39.24 | 5.05 | 42.24 | 5.25 | 43.19 | 5.39 |
| | 8 | 24.89 | 3.04 | 29.67 | 3.70 | 34.46 | 4.40 | 36.85 | 4.74 | 39.24 | 5.10 | 42.24 | 5.29 | 43.19 | 5.45 |
| | 10 | 24.89 | 3.08 | 29.67 | 3.75 | 34.46 | 4.46 | 36.85 | 4.82 | 39.24 | 5.19 | 42.24 | 5.33 | 43.19 | 5.50 |
| | 12 | 24.89 | 3.14 | 29.67 | 3.83 | 34.46 | 4.55 | 36.85 | 4.92 | 39.24 | 5.29 | 41.76 | 5.41 | 42.59 | 5.57 |
| | 14 | 24.89 | 3.20 | 29.67 | 3.89 | 34.46 | 4.63 | 36.85 | 5.00 | 39.24 | 5.38 | 41.16 | 5.45 | 42.12 | 5.61 |
| | 16 | 24.89 | 3.25 | 29.67 | 3.97 | 34.46 | 4.72 | 36.85 | 5.10 | 39.24 | 5.49 | 40.68 | 5.51 | 41.52 | 5.67 |
| | 18 | 24.89 | 3.32 | 29.67 | 4.05 | 34.46 | 4.82 | 36.85 | 5.24 | 39.24 | 5.75 | 40.08 | 5.80 | 41.04 | 5.85 |
| | 20 | 24.89 | 3.38 | 29.67 | 4.13 | 34.46 | 5.10 | 36.85 | 5.63 | 38.65 | 6.04 | 39.60 | 6.08 | 40.44 | 6.13 |
| | 21 | 24.89 | 3.41 | 29.67 | 4.25 | 34.46 | 5.29 | 36.85 | 5.84 | 38.41 | 6.18 | 39.25 | 6.22 | 40.20 | 6.28 |
| | 23 | 24.89 | 3.58 | 29.67 | 4.56 | 34.46 | 5.67 | 36.85 | 6.27 | 37.81 | 6.45 | 38.77 | 6.51 | 39.60 | 6.57 |
| | 25 | 24.89 | 3.82 | 29.67 | 4.87 | 34.46 | 6.06 | 36.85 | 6.71 | 37.33 | 6.73 | 38.17 | 6.80 | 39.12 | 6.85 |
| | 27 | 24.89 | 4.07 | 29.67 | 5.21 | 34.46 | 6.48 | 36.25 | 6.99 | 36.73 | 7.02 | 37.69 | 7.08 | 38.53 | 7.15 |
| | 29 | 24.89 | 4.34 | 29.67 | 5.56 | 34.46 | 6.93 | 35.77 | 7.28 | 36.25 | 7.31 | 37.09 | 7.37 | 38.05 | 7.44 |
| | 31 | 24.89 | 4.62 | 29.67 | 5.93 | 34.46 | 7.40 | 35.18 | 7.56 | 35.65 | 7.59 | 36.61 | 7.66 | 37.45 | 7.73 |
| | 33 | 24.89 | 4.92 | 29.67 | 6.32 | 34.22 | 7.80 | 34.70 | 7.84 | 35.18 | 7.87 | 36.01 | 7.95 | 36.97 | 8.03 |
| 35 | 24.89 | 5.23 | 29.67 | 6.73 | 33.62 | 8.08 | 34.10 | 8.12 | 34.58 | 8.17 | 35.42 | 8.24 | 36.37 | 8.32 | |
| 37 | 24.89 | 5.57 | 29.67 | 7.17 | 33.14 | 8.38 | 33.62 | 8.41 | 33.98 | 8.45 | 34.94 | 8.54 | 35.77 | 8.61 | |
| 39 | 24.89 | 5.92 | 29.67 | 7.64 | 32.54 | 8.66 | 33.02 | 8.70 | 33.50 | 8.74 | 34.34 | 8.83 | 35.30 | 8.92 | |
| 41 | 24.89 | 5.98 | 29.67 | 7.70 | 32.29 | 8.72 | 32.77 | 8.76 | 33.25 | 8.81 | 33.90 | 8.89 | 34.23 | 8.98 | |
| 43 | 24.89 | 6.04 | 29.67 | 7.80 | 32.03 | 8.78 | 32.51 | 8.82 | 32.99 | 8.87 | 33.60 | 8.93 | 33.71 | 9.16 | |
| 45 | 24.89 | 6.23 | 29.67 | 7.84 | 31.71 | 8.86 | 32.17 | 8.93 | 32.70 | 8.95 | 33.26 | 9.17 | 33.39 | 9.37 | |
| 48 | 27.25 | 6.45 | 32.50 | 8.50 | 34.22 | 8.92 | 34.67 | 8.99 | 35.40 | 9.04 | 35.82 | 9.20 | 36.10 | 9.48 | |
| 100% | -5 | 22.61 | 2.53 | 26.92 | 3.05 | 31.35 | 3.63 | 33.50 | 3.89 | 35.65 | 4.22 | 40.08 | 4.81 | 42.35 | 5.02 |
| | -2 | 22.61 | 2.56 | 26.92 | 3.09 | 31.35 | 3.67 | 33.50 | 3.96 | 35.65 | 4.28 | 40.08 | 4.87 | 42.35 | 5.05 |
| | 0 | 22.61 | 2.59 | 26.92 | 3.12 | 31.35 | 3.71 | 33.50 | 4.01 | 35.65 | 4.32 | 40.08 | 4.95 | 42.35 | 5.11 |
| | 2 | 22.61 | 2.64 | 26.92 | 3.17 | 31.35 | 3.75 | 33.50 | 4.06 | 35.65 | 4.37 | 40.08 | 5.02 | 42.35 | 5.19 |
| | 4 | 22.61 | 2.66 | 26.92 | 3.20 | 31.35 | 3.81 | 33.50 | 4.12 | 35.65 | 4.42 | 40.08 | 5.07 | 42.35 | 5.25 |
| | 6 | 22.61 | 2.70 | 26.92 | 3.26 | 31.35 | 3.86 | 33.50 | 4.20 | 35.65 | 4.49 | 40.08 | 5.14 | 42.35 | 5.33 |
| | 8 | 22.61 | 2.75 | 26.92 | 3.31 | 31.35 | 3.93 | 33.50 | 4.24 | 35.65 | 4.56 | 40.08 | 5.22 | 42.35 | 5.41 |
| | 10 | 22.61 | 2.78 | 26.92 | 3.37 | 31.35 | 3.99 | 33.50 | 4.32 | 35.65 | 4.64 | 40.08 | 5.31 | 42.35 | 5.49 |
| | 12 | 22.61 | 2.83 | 26.92 | 3.44 | 31.35 | 4.07 | 33.50 | 4.39 | 35.65 | 4.73 | 40.08 | 5.41 | 41.75 | 5.54 |
| | 14 | 22.61 | 2.88 | 26.92 | 3.50 | 31.35 | 4.14 | 33.50 | 4.48 | 35.65 | 4.82 | 40.08 | 5.51 | 41.28 | 5.60 |
| | 16 | 22.61 | 2.94 | 26.92 | 3.57 | 31.35 | 4.23 | 33.50 | 4.57 | 35.65 | 4.92 | 39.84 | 5.58 | 40.68 | 5.67 |
| | 18 | 22.61 | 2.99 | 26.92 | 3.63 | 31.35 | 4.31 | 33.50 | 4.65 | 35.65 | 5.01 | 39.36 | 5.76 | 40.20 | 5.81 |
| | 20 | 22.61 | 3.05 | 26.92 | 3.71 | 31.35 | 4.44 | 33.50 | 4.89 | 35.65 | 5.37 | 38.76 | 6.04 | 39.60 | 6.09 |
| | 21 | 22.61 | 3.08 | 26.92 | 3.74 | 31.35 | 4.60 | 33.50 | 5.07 | 35.65 | 5.56 | 38.53 | 6.18 | 39.36 | 6.23 |
| | 23 | 22.61 | 3.15 | 26.92 | 3.99 | 31.35 | 4.93 | 33.50 | 5.43 | 35.65 | 5.96 | 38.05 | 6.46 | 38.76 | 6.51 |
| | 25 | 22.61 | 3.36 | 26.92 | 4.26 | 31.35 | 5.27 | 33.50 | 5.82 | 35.65 | 6.38 | 37.45 | 6.74 | 38.28 | 6.80 |
| | 27 | 22.61 | 3.59 | 26.92 | 4.55 | 31.35 | 5.63 | 33.50 | 6.22 | 35.65 | 6.83 | 36.85 | 7.03 | 37.69 | 7.09 |
| | 29 | 22.61 | 3.82 | 26.92 | 4.85 | 31.35 | 6.01 | 33.50 | 6.65 | 35.53 | 7.25 | 36.37 | 7.32 | 37.21 | 7.37 |
| | 31 | 22.61 | 4.07 | 26.92 | 5.18 | 31.35 | 6.42 | 33.50 | 7.09 | 35.05 | 7.54 | 35.77 | 7.60 | 36.61 | 7.67 |
| | 33 | 22.61 | 4.32 | 26.92 | 5.51 | 31.35 | 6.84 | 33.50 | 7.57 | 34.46 | 7.82 | 35.30 | 7.89 | 36.13 | 7.96 |
| 35 | 22.61 | 4.59 | 26.92 | 5.86 | 31.35 | 7.30 | 33.50 | 8.07 | 33.86 | 8.10 | 34.70 | 8.18 | 35.53 | 8.24 | |
| 37 | 22.61 | 4.88 | 26.92 | 6.24 | 31.35 | 7.78 | 32.90 | 8.35 | 33.38 | 8.40 | 34.22 | 8.47 | 34.94 | 8.54 | |
| 39 | 22.61 | 5.19 | 26.92 | 6.63 | 31.35 | 8.28 | 32.42 | 8.64 | 32.78 | 8.68 | 33.62 | 8.76 | 34.46 | 8.84 | |
| 41 | 22.61 | 5.43 | 26.92 | 6.88 | 31.35 | 8.58 | 31.92 | 8.70 | 32.53 | 8.81 | 33.04 | 8.96 | 33.96 | 9.02 | |
| 43 | 22.61 | 5.67 | 26.92 | 7.12 | 31.35 | 8.74 | 31.42 | 8.80 | 32.29 | 8.90 | 33.23 | 9.02 | 33.36 | 9.12 | |
| 45 | 22.61 | 5.99 | 26.92 | 7.44 | 31.35 | 8.89 | 30.75 | 8.92 | 32.13 | 9.06 | 32.95 | 9.16 | 32.69 | 9.25 | |
| 48 | 23.42 | 6.26 | 27.88 | 7.70 | 32.47 | 8.90 | 30.53 | 9.02 | 33.22 | 9.22 | 32.05 | 9.25 | 33.11 | 9.33 | |

Cooling capacity table

MVUR335B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 20.34 | 2.24 | 24.29 | 2.69 | 28.24 | 3.17 | 30.15 | 3.46 | 32.06 | 3.68 | 36.01 | 4.23 | 39.96 | 4.85 |
| | -2 | 20.34 | 2.26 | 24.29 | 2.72 | 28.24 | 3.21 | 30.15 | 3.51 | 32.06 | 3.73 | 36.01 | 4.27 | 39.96 | 4.90 |
| | 0 | 20.34 | 2.30 | 24.29 | 2.75 | 28.24 | 3.26 | 30.15 | 3.55 | 32.06 | 3.77 | 36.01 | 4.32 | 39.96 | 4.93 |
| | 2 | 20.34 | 2.33 | 24.29 | 2.79 | 28.24 | 3.30 | 30.15 | 3.61 | 32.06 | 3.83 | 36.01 | 4.41 | 39.96 | 5.01 |
| | 4 | 20.34 | 2.37 | 24.29 | 2.83 | 28.24 | 3.35 | 30.15 | 3.65 | 32.06 | 3.88 | 36.01 | 4.48 | 39.96 | 5.08 |
| | 6 | 20.34 | 2.40 | 24.29 | 2.88 | 28.24 | 3.41 | 30.15 | 3.72 | 32.06 | 3.95 | 36.01 | 4.55 | 39.96 | 5.16 |
| | 8 | 20.34 | 2.44 | 24.29 | 2.94 | 28.24 | 3.48 | 30.15 | 3.77 | 32.06 | 4.02 | 36.01 | 4.64 | 39.96 | 5.21 |
| | 10 | 20.34 | 2.49 | 24.29 | 3.00 | 28.24 | 3.55 | 30.15 | 3.83 | 32.06 | 4.11 | 36.01 | 4.70 | 39.96 | 5.30 |
| | 12 | 20.34 | 2.53 | 24.29 | 3.06 | 28.24 | 3.61 | 30.15 | 3.89 | 32.06 | 4.19 | 36.01 | 4.79 | 39.96 | 5.39 |
| | 14 | 20.34 | 2.58 | 24.29 | 3.11 | 28.24 | 3.68 | 30.15 | 3.97 | 32.06 | 4.26 | 36.01 | 4.87 | 39.96 | 5.49 |
| | 16 | 20.34 | 2.62 | 24.29 | 3.16 | 28.24 | 3.75 | 30.15 | 4.05 | 32.06 | 4.35 | 36.01 | 4.97 | 39.84 | 5.59 |
| | 18 | 20.34 | 2.66 | 24.29 | 3.23 | 28.24 | 3.82 | 30.15 | 4.12 | 32.06 | 4.44 | 36.01 | 5.07 | 39.36 | 5.76 |
| | 20 | 20.34 | 2.72 | 24.29 | 3.30 | 28.24 | 3.89 | 30.15 | 4.21 | 32.06 | 4.60 | 36.01 | 5.45 | 38.76 | 6.04 |
| | 21 | 20.34 | 2.74 | 24.29 | 3.33 | 28.24 | 3.96 | 30.15 | 4.35 | 32.06 | 4.76 | 36.01 | 5.64 | 38.53 | 6.18 |
| | 23 | 20.34 | 2.80 | 24.29 | 3.46 | 28.24 | 4.24 | 30.15 | 4.67 | 32.06 | 5.11 | 36.01 | 6.06 | 37.93 | 6.46 |
| | 25 | 20.34 | 2.95 | 24.29 | 3.70 | 28.24 | 4.53 | 30.15 | 4.99 | 32.06 | 5.46 | 36.01 | 6.48 | 37.45 | 6.74 |
| | 27 | 20.34 | 3.13 | 24.29 | 3.94 | 28.24 | 4.84 | 30.15 | 5.33 | 32.06 | 5.84 | 36.01 | 6.94 | 36.85 | 7.03 |
| | 29 | 20.34 | 3.34 | 24.29 | 4.20 | 28.24 | 5.17 | 30.15 | 5.69 | 32.06 | 6.24 | 35.65 | 7.25 | 36.37 | 7.31 |
| | 31 | 20.34 | 3.55 | 24.29 | 4.47 | 28.24 | 5.50 | 30.15 | 6.07 | 32.06 | 6.66 | 35.06 | 7.54 | 35.77 | 7.60 |
| | 33 | 20.34 | 3.76 | 24.29 | 4.75 | 28.24 | 5.87 | 30.15 | 6.47 | 32.06 | 7.10 | 34.58 | 7.83 | 35.29 | 7.88 |
| 35 | 20.34 | 4.00 | 24.29 | 5.06 | 28.24 | 6.25 | 30.15 | 6.90 | 32.06 | 7.57 | 33.98 | 8.11 | 34.70 | 8.18 | |
| 37 | 20.34 | 4.24 | 24.29 | 5.37 | 28.24 | 6.66 | 30.15 | 7.34 | 32.06 | 8.07 | 33.38 | 8.40 | 34.22 | 8.46 | |
| 39 | 20.34 | 4.50 | 24.29 | 5.72 | 28.24 | 7.08 | 30.15 | 7.82 | 32.06 | 8.59 | 32.90 | 8.69 | 33.62 | 8.75 | |
| 41 | 20.34 | 4.66 | 24.29 | 5.98 | 28.24 | 7.34 | 30.15 | 8.03 | 32.06 | 8.64 | 32.67 | 8.91 | 33.39 | 8.96 | |
| 43 | 20.34 | 4.88 | 24.29 | 6.24 | 28.24 | 7.60 | 30.15 | 8.23 | 32.06 | 8.83 | 32.51 | 9.03 | 33.11 | 9.10 | |
| 45 | 20.34 | 5.19 | 24.29 | 6.55 | 28.24 | 7.91 | 30.15 | 8.51 | 32.06 | 9.07 | 32.32 | 9.12 | 32.60 | 9.22 | |
| 48 | 20.34 | 5.48 | 24.29 | 6.85 | 28.24 | 8.21 | 30.15 | 8.62 | 32.06 | 9.15 | 35.61 | 9.25 | 35.24 | 9.35 | |
| 80% | -5 | 18.07 | 1.97 | 21.54 | 2.33 | 25.00 | 2.76 | 26.80 | 2.94 | 28.60 | 3.17 | 32.06 | 3.66 | 35.53 | 4.18 |
| | -2 | 18.07 | 2.00 | 21.54 | 2.36 | 25.00 | 2.79 | 26.80 | 2.99 | 28.60 | 3.19 | 32.06 | 3.69 | 35.53 | 4.22 |
| | 0 | 18.07 | 2.04 | 21.54 | 2.39 | 25.00 | 2.82 | 26.80 | 3.02 | 28.60 | 3.25 | 32.06 | 3.75 | 35.53 | 4.27 |
| | 2 | 18.07 | 2.08 | 21.54 | 2.43 | 25.00 | 2.86 | 26.80 | 3.08 | 28.60 | 3.31 | 32.06 | 3.82 | 35.53 | 4.36 |
| | 4 | 18.07 | 2.11 | 21.54 | 2.47 | 25.00 | 2.92 | 26.80 | 3.15 | 28.60 | 3.37 | 32.06 | 3.89 | 35.53 | 4.41 |
| | 6 | 18.07 | 2.15 | 21.54 | 2.53 | 25.00 | 2.96 | 26.80 | 3.22 | 28.60 | 3.43 | 32.06 | 3.95 | 35.53 | 4.49 |
| | 8 | 18.07 | 2.19 | 21.54 | 2.58 | 25.00 | 3.03 | 26.80 | 3.27 | 28.60 | 3.51 | 32.06 | 4.01 | 35.53 | 4.58 |
| | 10 | 18.07 | 2.21 | 21.54 | 2.64 | 25.00 | 3.11 | 26.80 | 3.35 | 28.60 | 3.59 | 32.06 | 4.10 | 35.53 | 4.62 |
| | 12 | 18.07 | 2.24 | 21.54 | 2.69 | 25.00 | 3.16 | 26.80 | 3.42 | 28.60 | 3.67 | 32.06 | 4.18 | 35.53 | 4.71 |
| | 14 | 18.07 | 2.28 | 21.54 | 2.74 | 25.00 | 3.22 | 26.80 | 3.47 | 28.60 | 3.73 | 32.06 | 4.25 | 35.53 | 4.80 |
| | 16 | 18.07 | 2.32 | 21.54 | 2.78 | 25.00 | 3.28 | 26.80 | 3.53 | 28.60 | 3.80 | 32.06 | 4.34 | 35.53 | 4.88 |
| | 18 | 18.07 | 2.36 | 21.54 | 2.84 | 25.00 | 3.35 | 26.80 | 3.61 | 28.60 | 3.87 | 32.06 | 4.43 | 35.53 | 4.98 |
| | 20 | 18.07 | 2.40 | 21.54 | 2.89 | 25.00 | 3.42 | 26.80 | 3.68 | 28.60 | 3.95 | 32.06 | 4.59 | 35.53 | 5.33 |
| | 21 | 18.07 | 2.43 | 21.54 | 2.92 | 25.00 | 3.45 | 26.80 | 3.72 | 28.60 | 4.04 | 32.06 | 4.75 | 35.53 | 5.53 |
| | 23 | 18.07 | 2.47 | 21.54 | 2.98 | 25.00 | 3.61 | 26.80 | 3.96 | 28.60 | 4.32 | 32.06 | 5.09 | 35.53 | 5.93 |
| | 25 | 18.07 | 2.55 | 21.54 | 3.16 | 25.00 | 3.86 | 26.80 | 4.23 | 28.60 | 4.61 | 32.06 | 5.45 | 35.53 | 6.34 |
| | 27 | 18.07 | 2.71 | 21.54 | 3.37 | 25.00 | 4.11 | 26.80 | 4.51 | 28.60 | 4.93 | 32.06 | 5.82 | 35.53 | 6.79 |
| | 29 | 18.07 | 2.88 | 21.54 | 3.59 | 25.00 | 4.38 | 26.80 | 4.81 | 28.60 | 5.26 | 32.06 | 6.21 | 35.53 | 7.25 |
| | 31 | 18.07 | 3.06 | 21.54 | 3.82 | 25.00 | 4.67 | 26.80 | 5.12 | 28.60 | 5.61 | 32.06 | 6.63 | 34.94 | 7.54 |
| | 33 | 18.07 | 3.25 | 21.54 | 4.06 | 25.00 | 4.97 | 26.80 | 5.46 | 28.60 | 5.97 | 32.06 | 7.07 | 34.46 | 7.82 |
| 35 | 18.07 | 3.45 | 21.54 | 4.32 | 25.00 | 5.29 | 26.80 | 5.81 | 28.60 | 6.36 | 32.06 | 7.54 | 33.86 | 8.10 | |
| 37 | 18.07 | 3.65 | 21.54 | 4.58 | 25.00 | 5.62 | 26.80 | 6.19 | 28.60 | 6.78 | 32.06 | 8.04 | 33.38 | 8.39 | |
| 39 | 18.07 | 3.87 | 21.54 | 4.88 | 25.00 | 5.98 | 26.80 | 6.58 | 28.60 | 7.21 | 32.06 | 8.56 | 32.78 | 8.68 | |
| 41 | 18.07 | 3.96 | 21.54 | 4.93 | 25.00 | 6.07 | 26.80 | 6.75 | 28.60 | 7.34 | 32.06 | 8.78 | 32.58 | 8.83 | |
| 43 | 18.07 | 4.08 | 21.54 | 4.97 | 25.00 | 6.16 | 26.80 | 6.87 | 28.60 | 7.44 | 32.06 | 8.88 | 32.38 | 8.93 | |
| 45 | 18.07 | 4.19 | 21.54 | 5.03 | 25.00 | 6.28 | 26.80 | 7.02 | 28.60 | 7.57 | 32.06 | 8.98 | 31.98 | 9.07 | |
| 48 | 18.07 | 4.33 | 21.54 | 5.06 | 28.13 | 6.37 | 26.80 | 7.11 | 28.60 | 7.64 | 32.06 | 9.07 | 35.67 | 9.20 | |

Cooling capacity table

MVUR335B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 15.79 | 1.76 | 18.90 | 2.07 | 21.90 | 2.34 | 23.45 | 2.51 | 25.00 | 2.68 | 28.00 | 3.07 | 31.11 | 3.53 |
| | -2 | 15.79 | 1.78 | 18.90 | 2.08 | 21.90 | 2.36 | 23.45 | 2.56 | 25.00 | 2.73 | 28.00 | 3.11 | 31.11 | 3.57 |
| | 0 | 15.79 | 1.79 | 18.90 | 2.11 | 21.90 | 2.40 | 23.45 | 2.61 | 25.00 | 2.78 | 28.00 | 3.18 | 31.11 | 3.62 |
| | 2 | 15.79 | 1.80 | 18.90 | 2.12 | 21.90 | 2.44 | 23.45 | 2.66 | 25.00 | 2.83 | 28.00 | 3.25 | 31.11 | 3.68 |
| | 4 | 15.79 | 1.82 | 18.90 | 2.17 | 21.90 | 2.50 | 23.45 | 2.70 | 25.00 | 2.89 | 28.00 | 3.30 | 31.11 | 3.77 |
| | 6 | 15.79 | 1.85 | 18.90 | 2.21 | 21.90 | 2.56 | 23.45 | 2.79 | 25.00 | 2.96 | 28.00 | 3.36 | 31.11 | 3.84 |
| | 8 | 15.79 | 1.88 | 18.90 | 2.27 | 21.90 | 2.62 | 23.45 | 2.83 | 25.00 | 3.02 | 28.00 | 3.45 | 31.11 | 3.91 |
| | 10 | 15.79 | 1.92 | 18.90 | 2.31 | 21.90 | 2.69 | 23.45 | 2.89 | 25.00 | 3.10 | 28.00 | 3.52 | 31.11 | 3.96 |
| | 12 | 15.79 | 1.97 | 18.90 | 2.34 | 21.90 | 2.74 | 23.45 | 2.95 | 25.00 | 3.15 | 28.00 | 3.59 | 31.11 | 4.04 |
| | 14 | 15.79 | 2.00 | 18.90 | 2.38 | 21.90 | 2.78 | 23.45 | 2.99 | 25.00 | 3.21 | 28.00 | 3.65 | 31.11 | 4.11 |
| | 16 | 15.79 | 2.03 | 18.90 | 2.43 | 21.90 | 2.84 | 23.45 | 3.06 | 25.00 | 3.27 | 28.00 | 3.72 | 31.11 | 4.19 |
| | 18 | 15.79 | 2.07 | 18.90 | 2.47 | 21.90 | 2.89 | 23.45 | 3.11 | 25.00 | 3.33 | 28.00 | 3.80 | 31.11 | 4.27 |
| | 20 | 15.79 | 2.10 | 18.90 | 2.51 | 21.90 | 2.95 | 23.45 | 3.16 | 25.00 | 3.39 | 28.00 | 3.87 | 31.11 | 4.39 |
| | 21 | 15.79 | 2.12 | 18.90 | 2.53 | 21.90 | 2.97 | 23.45 | 3.20 | 25.00 | 3.43 | 28.00 | 3.93 | 31.11 | 4.55 |
| | 23 | 15.79 | 2.15 | 18.90 | 2.58 | 21.90 | 3.03 | 23.45 | 3.31 | 25.00 | 3.60 | 28.00 | 4.21 | 31.11 | 4.87 |
| | 25 | 15.79 | 2.20 | 18.90 | 2.69 | 21.90 | 3.23 | 23.45 | 3.53 | 25.00 | 3.84 | 28.00 | 4.50 | 31.11 | 5.21 |
| | 27 | 15.79 | 2.33 | 18.90 | 2.86 | 21.90 | 3.45 | 23.45 | 3.76 | 25.00 | 4.10 | 28.00 | 4.81 | 31.11 | 5.57 |
| | 29 | 15.79 | 2.47 | 18.90 | 3.03 | 21.90 | 3.67 | 23.45 | 4.01 | 25.00 | 4.36 | 28.00 | 5.12 | 31.11 | 5.95 |
| | 31 | 15.79 | 2.61 | 18.90 | 3.22 | 21.90 | 3.90 | 23.45 | 4.26 | 25.00 | 4.64 | 28.00 | 5.46 | 31.11 | 6.34 |
| | 33 | 15.79 | 2.77 | 18.90 | 3.43 | 21.90 | 4.15 | 23.45 | 4.54 | 25.00 | 4.95 | 28.00 | 5.82 | 31.11 | 6.77 |
| 35 | 15.79 | 2.94 | 18.90 | 3.63 | 21.90 | 4.41 | 23.45 | 4.83 | 25.00 | 5.26 | 28.00 | 6.20 | 31.11 | 7.21 | |
| 37 | 15.79 | 3.10 | 18.90 | 3.85 | 21.90 | 4.69 | 23.45 | 5.12 | 25.00 | 5.60 | 28.00 | 6.60 | 31.11 | 7.68 | |
| 39 | 15.79 | 3.28 | 18.90 | 4.08 | 21.90 | 4.97 | 23.45 | 5.45 | 25.00 | 5.95 | 28.00 | 7.02 | 31.11 | 8.18 | |
| 41 | 15.79 | 3.43 | 18.90 | 4.22 | 21.90 | 5.12 | 23.45 | 5.63 | 25.00 | 6.13 | 28.00 | 7.30 | 31.11 | 8.54 | |
| 43 | 15.79 | 3.71 | 18.90 | 4.51 | 21.90 | 5.33 | 23.45 | 5.93 | 25.00 | 6.31 | 28.00 | 7.57 | 31.11 | 8.81 | |
| 45 | 15.79 | 3.79 | 18.90 | 4.61 | 21.90 | 5.44 | 23.45 | 6.03 | 25.00 | 6.63 | 28.00 | 7.98 | 31.11 | 9.14 | |
| 48 | 15.79 | 3.89 | 18.90 | 4.65 | 21.90 | 5.49 | 23.45 | 6.13 | 25.00 | 6.81 | 28.00 | 8.34 | 31.11 | 9.36 | |
| 60% | -5 | 13.52 | 1.50 | 16.15 | 1.74 | 18.78 | 2.03 | 20.10 | 2.17 | 21.42 | 2.34 | 24.05 | 2.63 | 26.68 | 3.01 |
| | -2 | 13.52 | 1.51 | 16.15 | 1.77 | 18.78 | 2.07 | 20.10 | 2.20 | 21.42 | 2.36 | 24.05 | 2.67 | 26.68 | 3.03 |
| | 0 | 13.52 | 1.54 | 16.15 | 1.79 | 18.78 | 2.10 | 20.10 | 2.22 | 21.42 | 2.40 | 24.05 | 2.70 | 26.68 | 3.07 |
| | 2 | 13.52 | 1.56 | 16.15 | 1.83 | 18.78 | 2.14 | 20.10 | 2.27 | 21.42 | 2.43 | 24.05 | 2.76 | 26.68 | 3.11 |
| | 4 | 13.52 | 1.61 | 16.15 | 1.87 | 18.78 | 2.18 | 20.10 | 2.30 | 21.42 | 2.47 | 24.05 | 2.80 | 26.68 | 3.15 |
| | 6 | 13.52 | 1.62 | 16.15 | 1.91 | 18.78 | 2.22 | 20.10 | 2.35 | 21.42 | 2.52 | 24.05 | 2.86 | 26.68 | 3.23 |
| | 8 | 13.52 | 1.65 | 16.15 | 1.94 | 18.78 | 2.26 | 20.10 | 2.39 | 21.42 | 2.57 | 24.05 | 2.91 | 26.68 | 3.28 |
| | 10 | 13.52 | 1.69 | 16.15 | 1.98 | 18.78 | 2.29 | 20.10 | 2.46 | 21.42 | 2.62 | 24.05 | 2.97 | 26.68 | 3.33 |
| | 12 | 13.52 | 1.72 | 16.15 | 2.01 | 18.78 | 2.34 | 20.10 | 2.50 | 21.42 | 2.66 | 24.05 | 3.02 | 26.68 | 3.38 |
| | 14 | 13.52 | 1.74 | 16.15 | 2.04 | 18.78 | 2.37 | 20.10 | 2.54 | 21.42 | 2.72 | 24.05 | 3.08 | 26.68 | 3.45 |
| | 16 | 13.52 | 1.76 | 16.15 | 2.08 | 18.78 | 2.41 | 20.10 | 2.59 | 21.42 | 2.76 | 24.05 | 3.13 | 26.68 | 3.51 |
| | 18 | 13.52 | 1.79 | 16.15 | 2.11 | 18.78 | 2.46 | 20.10 | 2.63 | 21.42 | 2.82 | 24.05 | 3.19 | 26.68 | 3.58 |
| | 20 | 13.52 | 1.82 | 16.15 | 2.15 | 18.78 | 2.50 | 20.10 | 2.69 | 21.42 | 2.87 | 24.05 | 3.25 | 26.68 | 3.65 |
| | 21 | 13.52 | 1.84 | 16.15 | 2.16 | 18.78 | 2.52 | 20.10 | 2.71 | 21.42 | 2.89 | 24.05 | 3.28 | 26.68 | 3.69 |
| | 23 | 13.52 | 1.86 | 16.15 | 2.21 | 18.78 | 2.57 | 20.10 | 2.76 | 21.42 | 2.95 | 24.05 | 3.41 | 26.68 | 3.93 |
| | 25 | 13.52 | 1.89 | 16.15 | 2.24 | 18.78 | 2.66 | 20.10 | 2.89 | 21.42 | 3.13 | 24.05 | 3.64 | 26.68 | 4.19 |
| | 27 | 13.52 | 1.97 | 16.15 | 2.38 | 18.78 | 2.84 | 20.10 | 3.09 | 21.42 | 3.34 | 24.05 | 3.88 | 26.68 | 4.47 |
| | 29 | 13.52 | 2.08 | 16.15 | 2.52 | 18.78 | 3.02 | 20.10 | 3.28 | 21.42 | 3.56 | 24.05 | 4.14 | 26.68 | 4.77 |
| | 31 | 13.52 | 2.21 | 16.15 | 2.68 | 18.78 | 3.21 | 20.10 | 3.49 | 21.42 | 3.78 | 24.05 | 4.40 | 26.68 | 5.08 |
| | 33 | 13.52 | 2.33 | 16.15 | 2.84 | 18.78 | 3.40 | 20.10 | 3.71 | 21.42 | 4.02 | 24.05 | 4.69 | 26.68 | 5.42 |
| 35 | 13.52 | 2.47 | 16.15 | 3.01 | 18.78 | 3.61 | 20.10 | 3.94 | 21.42 | 4.27 | 24.05 | 4.99 | 26.68 | 5.76 | |
| 37 | 13.52 | 2.61 | 16.15 | 3.19 | 18.78 | 3.83 | 20.10 | 4.18 | 21.42 | 4.53 | 24.05 | 5.31 | 26.68 | 6.13 | |
| 39 | 13.52 | 2.75 | 16.15 | 3.37 | 18.78 | 4.06 | 20.10 | 4.43 | 21.42 | 4.82 | 24.05 | 5.63 | 26.68 | 6.52 | |
| 41 | 13.52 | 2.84 | 16.15 | 3.52 | 18.78 | 4.20 | 20.10 | 4.60 | 21.42 | 4.99 | 24.05 | 5.90 | 26.68 | 6.82 | |
| 43 | 13.52 | 2.93 | 16.15 | 3.67 | 18.78 | 4.35 | 20.10 | 4.74 | 21.42 | 5.17 | 24.05 | 6.15 | 26.68 | 7.12 | |
| 45 | 13.52 | 3.07 | 16.15 | 3.85 | 18.78 | 4.53 | 20.10 | 4.92 | 21.42 | 5.42 | 24.05 | 6.42 | 26.68 | 7.51 | |
| 48 | 13.52 | 3.18 | 16.15 | 4.02 | 18.78 | 4.68 | 20.10 | 5.05 | 21.42 | 5.63 | 24.05 | 6.66 | 26.68 | 7.86 | |

Cooling capacity table

MVUR335B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 11.31 | 1.31 | 13.52 | 1.51 | 15.67 | 1.74 | 16.75 | 1.82 | 17.83 | 1.92 | 19.98 | 2.18 | 22.25 | 2.35 |
| | -2 | 11.31 | 1.32 | 13.52 | 1.54 | 15.67 | 1.75 | 16.75 | 1.84 | 17.83 | 1.95 | 19.98 | 2.21 | 22.25 | 2.38 |
| | 0 | 11.31 | 1.34 | 13.52 | 1.57 | 15.67 | 1.79 | 16.75 | 1.87 | 17.83 | 1.97 | 19.98 | 2.25 | 22.25 | 2.42 |
| | 2 | 11.31 | 1.36 | 13.52 | 1.59 | 15.67 | 1.82 | 16.75 | 1.89 | 17.83 | 2.01 | 19.98 | 2.26 | 22.25 | 2.47 |
| | 4 | 11.31 | 1.37 | 13.52 | 1.61 | 15.67 | 1.84 | 16.75 | 1.92 | 17.83 | 2.05 | 19.98 | 2.31 | 22.25 | 2.53 |
| | 6 | 11.31 | 1.39 | 13.52 | 1.64 | 15.67 | 1.86 | 16.75 | 1.96 | 17.83 | 2.09 | 19.98 | 2.35 | 22.25 | 2.61 |
| | 8 | 11.31 | 1.43 | 13.52 | 1.67 | 15.67 | 1.90 | 16.75 | 2.00 | 17.83 | 2.11 | 19.98 | 2.38 | 22.25 | 2.69 |
| | 10 | 11.31 | 1.46 | 13.52 | 1.69 | 15.67 | 1.92 | 16.75 | 2.04 | 17.83 | 2.17 | 19.98 | 2.45 | 22.25 | 2.73 |
| | 12 | 11.31 | 1.47 | 13.52 | 1.71 | 15.67 | 1.96 | 16.75 | 2.08 | 17.83 | 2.22 | 19.98 | 2.49 | 22.25 | 2.77 |
| | 14 | 11.31 | 1.49 | 13.52 | 1.73 | 15.67 | 1.98 | 16.75 | 2.12 | 17.83 | 2.25 | 19.98 | 2.53 | 22.25 | 2.83 |
| | 16 | 11.31 | 1.51 | 13.52 | 1.75 | 15.67 | 2.01 | 16.75 | 2.15 | 17.83 | 2.28 | 19.98 | 2.58 | 22.25 | 2.87 |
| | 18 | 11.31 | 1.53 | 13.52 | 1.78 | 15.67 | 2.04 | 16.75 | 2.19 | 17.83 | 2.33 | 19.98 | 2.62 | 22.25 | 2.93 |
| | 20 | 11.31 | 1.56 | 13.52 | 1.81 | 15.67 | 2.08 | 16.75 | 2.22 | 17.83 | 2.37 | 19.98 | 2.66 | 22.25 | 2.98 |
| | 21 | 11.31 | 1.57 | 13.52 | 1.83 | 15.67 | 2.10 | 16.75 | 2.24 | 17.83 | 2.39 | 19.98 | 2.70 | 22.25 | 3.01 |
| | 23 | 11.31 | 1.59 | 13.52 | 1.85 | 15.67 | 2.13 | 16.75 | 2.28 | 17.83 | 2.44 | 19.98 | 2.74 | 22.25 | 3.08 |
| | 25 | 11.31 | 1.61 | 13.52 | 1.88 | 15.67 | 2.17 | 16.75 | 2.33 | 17.83 | 2.51 | 19.98 | 2.88 | 22.25 | 3.28 |
| | 27 | 11.31 | 1.64 | 13.52 | 1.96 | 15.67 | 2.29 | 16.75 | 2.48 | 17.83 | 2.66 | 19.98 | 3.07 | 22.25 | 3.50 |
| | 29 | 11.31 | 1.73 | 13.52 | 2.07 | 15.67 | 2.44 | 16.75 | 2.63 | 17.83 | 2.84 | 19.98 | 3.26 | 22.25 | 3.73 |
| | 31 | 11.31 | 1.83 | 13.52 | 2.19 | 15.67 | 2.58 | 16.75 | 2.79 | 17.83 | 3.01 | 19.98 | 3.47 | 22.25 | 3.97 |
| | 33 | 11.31 | 1.94 | 13.52 | 2.32 | 15.67 | 2.74 | 16.75 | 2.96 | 17.83 | 3.20 | 19.98 | 3.69 | 22.25 | 4.22 |
| 35 | 11.31 | 2.04 | 13.52 | 2.45 | 15.67 | 2.89 | 16.75 | 3.13 | 17.83 | 3.38 | 19.98 | 3.91 | 22.25 | 4.48 | |
| 37 | 11.31 | 2.15 | 13.52 | 2.59 | 15.67 | 3.07 | 16.75 | 3.32 | 17.83 | 3.59 | 19.98 | 4.15 | 22.25 | 4.76 | |
| 39 | 11.31 | 2.27 | 13.52 | 2.73 | 15.67 | 3.24 | 16.75 | 3.51 | 17.83 | 3.81 | 19.98 | 4.40 | 22.25 | 5.06 | |
| 41 | 11.31 | 2.37 | 13.52 | 2.85 | 15.67 | 3.36 | 16.75 | 3.68 | 17.83 | 3.97 | 19.98 | 4.64 | 22.25 | 5.29 | |
| 43 | 11.31 | 2.52 | 13.52 | 3.04 | 15.67 | 3.48 | 16.75 | 3.84 | 17.83 | 4.07 | 19.98 | 4.87 | 22.25 | 5.53 | |
| 45 | 11.31 | 2.58 | 13.52 | 3.12 | 15.67 | 3.71 | 16.75 | 4.14 | 17.83 | 4.24 | 19.98 | 5.34 | 22.25 | 6.00 | |
| 48 | 11.31 | 2.64 | 13.52 | 3.21 | 15.67 | 3.93 | 16.75 | 4.40 | 17.83 | 4.43 | 19.98 | 5.77 | 22.25 | 6.45 | |

Cooling capacity table

MVUR400B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|-------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 35.14 | 4.62 | 41.86 | 5.64 | 48.57 | 6.04 | 50.43 | 6.29 | 52.85 | 6.47 | 54.14 | 7.03 | 55.50 | 7.08 |
| | -2 | 35.14 | 4.62 | 41.86 | 5.75 | 48.57 | 6.04 | 50.43 | 6.33 | 52.85 | 6.47 | 54.14 | 7.12 | 55.50 | 7.15 |
| | 0 | 35.14 | 4.70 | 41.86 | 5.85 | 48.57 | 6.27 | 50.43 | 6.67 | 52.85 | 6.84 | 54.14 | 7.21 | 55.50 | 7.24 |
| | 2 | 35.14 | 4.78 | 41.86 | 5.86 | 48.57 | 6.48 | 50.43 | 7.05 | 52.85 | 6.92 | 54.14 | 7.26 | 55.50 | 7.35 |
| | 4 | 35.14 | 4.89 | 41.86 | 5.97 | 48.57 | 6.70 | 50.43 | 7.08 | 52.85 | 7.01 | 54.14 | 7.26 | 55.50 | 7.49 |
| | 6 | 35.14 | 4.98 | 41.86 | 6.09 | 48.57 | 6.95 | 50.43 | 7.14 | 52.26 | 7.23 | 53.48 | 7.26 | 54.89 | 7.55 |
| | 8 | 35.14 | 5.10 | 41.86 | 6.23 | 48.57 | 7.30 | 50.43 | 7.49 | 51.62 | 7.47 | 52.90 | 3.90 | 54.19 | 7.62 |
| | 10 | 35.14 | 5.21 | 41.86 | 6.37 | 48.57 | 7.57 | 50.43 | 7.74 | 51.00 | 4.04 | 52.28 | 4.06 | 53.57 | 7.84 |
| | 12 | 35.14 | 5.30 | 41.86 | 6.49 | 48.57 | 7.72 | 49.71 | 4.03 | 50.43 | 4.06 | 51.57 | 4.07 | 52.86 | 7.89 |
| | 14 | 35.14 | 5.41 | 41.86 | 6.61 | 48.43 | 4.05 | 49.14 | 4.06 | 49.71 | 4.08 | 51.00 | 4.09 | 52.28 | 8.07 |
| | 16 | 35.14 | 5.50 | 41.86 | 6.75 | 47.86 | 4.06 | 48.43 | 4.08 | 49.00 | 4.10 | 50.28 | 4.12 | 51.57 | 8.20 |
| | 18 | 35.14 | 5.60 | 41.86 | 6.88 | 47.14 | 8.07 | 47.71 | 8.12 | 48.43 | 8.16 | 49.71 | 8.24 | 51.00 | 8.32 |
| | 20 | 35.14 | 5.73 | 41.86 | 7.33 | 46.43 | 8.47 | 47.14 | 8.51 | 47.71 | 8.56 | 49.00 | 8.64 | 50.28 | 8.73 |
| | 21 | 35.14 | 5.88 | 41.86 | 7.59 | 46.14 | 8.67 | 46.85 | 8.71 | 47.43 | 8.76 | 48.71 | 8.85 | 50.00 | 8.92 |
| | 23 | 35.14 | 6.31 | 41.86 | 8.13 | 45.57 | 9.06 | 46.14 | 9.11 | 46.71 | 9.15 | 48.00 | 9.24 | 49.28 | 9.34 |
| | 25 | 35.14 | 6.73 | 41.86 | 8.71 | 44.85 | 9.46 | 45.43 | 9.50 | 46.14 | 9.56 | 47.43 | 9.66 | 48.71 | 9.75 |
| | 27 | 35.14 | 7.19 | 41.86 | 9.32 | 44.28 | 9.85 | 44.85 | 9.91 | 45.43 | 9.96 | 46.71 | 10.07 | 48.00 | 10.17 |
| | 29 | 35.14 | 7.68 | 41.86 | 9.96 | 43.57 | 10.25 | 44.14 | 10.31 | 44.85 | 10.37 | 46.14 | 10.48 | 47.43 | 10.59 |
| | 31 | 35.14 | 8.19 | 41.71 | 10.54 | 42.85 | 10.66 | 43.57 | 10.72 | 44.14 | 10.77 | 45.43 | 10.89 | 46.71 | 11.01 |
| | 33 | 35.14 | 8.73 | 41.00 | 10.94 | 42.28 | 11.06 | 42.85 | 11.12 | 43.57 | 11.18 | 44.85 | 11.30 | 46.00 | 11.42 |
| | 35 | 35.14 | 9.31 | 40.28 | 11.33 | 41.57 | 11.47 | 42.28 | 11.53 | 42.85 | 11.59 | 44.14 | 11.73 | 45.43 | 11.85 |
| | 37 | 35.14 | 9.90 | 39.71 | 11.74 | 41.00 | 11.88 | 41.57 | 11.94 | 42.28 | 12.02 | 43.43 | 12.15 | 44.71 | 12.29 |
| | 39 | 35.14 | 10.54 | 39.00 | 11.86 | 40.28 | 12.28 | 41.00 | 12.35 | 41.57 | 12.43 | 42.85 | 12.56 | 44.14 | 12.72 |
| | 41 | 35.14 | 11.09 | 38.60 | 11.98 | 39.86 | 12.39 | 40.58 | 12.47 | 41.15 | 12.54 | 42.43 | 12.59 | 42.45 | 12.83 |
| 43 | 35.14 | 11.37 | 38.31 | 12.04 | 39.65 | 12.43 | 40.36 | 12.52 | 40.72 | 12.56 | 41.66 | 12.61 | 41.94 | 12.86 | |
| 45 | 35.14 | 11.94 | 38.07 | 12.15 | 39.23 | 12.54 | 39.94 | 12.61 | 40.13 | 12.62 | 40.53 | 12.66 | 41.12 | 13.10 | |
| 48 | 35.14 | 12.36 | 39.43 | 12.55 | 42.76 | 12.66 | 43.56 | 12.72 | 43.91 | 12.76 | 43.72 | 12.88 | 44.51 | 12.91 | |
| 120% | -5 | 32.43 | 4.46 | 38.57 | 5.40 | 44.86 | 6.39 | 48.00 | 6.97 | 50.29 | 7.26 | 51.43 | 7.50 | 52.57 | 7.70 |
| | -2 | 32.43 | 4.51 | 38.57 | 5.46 | 44.86 | 6.45 | 48.00 | 7.01 | 50.29 | 7.35 | 51.43 | 7.56 | 52.57 | 7.72 |
| | 0 | 32.43 | 4.55 | 38.57 | 5.50 | 44.86 | 6.53 | 48.00 | 7.03 | 50.29 | 7.42 | 51.43 | 7.60 | 52.57 | 7.74 |
| | 2 | 32.43 | 4.56 | 38.57 | 5.55 | 44.86 | 6.57 | 48.00 | 7.09 | 50.29 | 7.44 | 51.43 | 7.66 | 52.57 | 7.75 |
| | 4 | 32.43 | 4.60 | 38.57 | 5.63 | 44.86 | 6.67 | 48.00 | 7.16 | 50.29 | 7.54 | 51.43 | 7.68 | 52.57 | 7.78 |
| | 6 | 32.43 | 4.65 | 38.57 | 5.67 | 44.86 | 6.75 | 48.00 | 7.24 | 50.29 | 7.63 | 51.43 | 7.74 | 52.57 | 7.80 |
| | 8 | 32.43 | 4.70 | 38.57 | 5.73 | 44.86 | 6.84 | 48.00 | 7.33 | 50.29 | 7.70 | 51.43 | 7.76 | 52.57 | 7.84 |
| | 10 | 32.43 | 4.75 | 38.57 | 5.80 | 44.86 | 6.90 | 48.00 | 7.46 | 50.29 | 7.71 | 51.43 | 7.79 | 52.57 | 7.87 |
| | 12 | 32.43 | 4.84 | 38.57 | 5.91 | 44.86 | 7.04 | 48.00 | 7.60 | 49.57 | 7.74 | 50.71 | 7.74 | 51.86 | 7.92 |
| | 14 | 32.43 | 4.93 | 38.57 | 6.03 | 44.86 | 7.17 | 48.00 | 7.75 | 48.86 | 7.79 | 50.14 | 7.86 | 51.28 | 8.02 |
| | 16 | 32.43 | 5.03 | 38.57 | 6.15 | 44.86 | 7.31 | 47.71 | 4.10 | 48.28 | 7.90 | 49.43 | 7.99 | 50.57 | 8.14 |
| | 18 | 32.43 | 5.12 | 38.57 | 6.27 | 44.86 | 7.55 | 47.00 | 8.07 | 47.57 | 8.10 | 48.72 | 8.18 | 50.00 | 8.25 |
| | 20 | 32.43 | 5.22 | 38.57 | 6.52 | 44.86 | 8.13 | 46.43 | 8.47 | 47.00 | 8.50 | 48.14 | 8.57 | 49.29 | 8.65 |
| | 21 | 32.43 | 5.27 | 38.57 | 6.75 | 44.86 | 8.42 | 46.00 | 8.66 | 46.57 | 8.70 | 47.86 | 8.77 | 49.00 | 8.86 |
| | 23 | 32.43 | 5.63 | 38.57 | 7.23 | 44.86 | 9.02 | 45.43 | 9.05 | 46.00 | 9.09 | 47.14 | 9.18 | 48.28 | 9.26 |
| | 25 | 32.43 | 6.02 | 38.57 | 7.74 | 44.14 | 9.41 | 44.71 | 9.44 | 45.28 | 9.49 | 46.57 | 9.58 | 47.71 | 9.67 |
| | 27 | 32.43 | 6.43 | 38.57 | 8.27 | 43.57 | 9.79 | 44.14 | 9.85 | 44.71 | 9.90 | 45.86 | 9.99 | 47.00 | 10.08 |
| | 29 | 32.43 | 6.85 | 38.57 | 8.83 | 42.86 | 10.19 | 43.43 | 10.25 | 44.00 | 10.29 | 45.14 | 10.40 | 46.43 | 10.49 |
| | 31 | 32.43 | 7.31 | 38.57 | 9.43 | 42.14 | 10.60 | 42.86 | 10.65 | 43.43 | 10.71 | 44.57 | 10.81 | 45.71 | 10.92 |
| | 33 | 32.43 | 7.78 | 38.57 | 10.05 | 41.57 | 11.00 | 42.14 | 11.06 | 42.71 | 11.10 | 43.86 | 11.22 | 45.00 | 11.33 |
| | 35 | 32.43 | 8.28 | 38.57 | 10.72 | 40.86 | 11.39 | 41.43 | 11.45 | 42.14 | 11.51 | 43.28 | 11.64 | 44.43 | 11.76 |
| | 37 | 32.43 | 8.82 | 38.57 | 11.42 | 40.28 | 11.80 | 40.86 | 11.86 | 41.43 | 11.92 | 42.57 | 12.05 | 43.71 | 12.18 |
| | 39 | 32.43 | 9.38 | 38.43 | 12.06 | 39.57 | 12.20 | 40.14 | 12.27 | 40.72 | 12.34 | 42.00 | 12.47 | 43.14 | 12.59 |
| | 41 | 32.43 | 9.64 | 38.12 | 12.15 | 39.26 | 12.29 | 39.83 | 12.36 | 40.40 | 12.42 | 41.69 | 12.51 | 41.90 | 12.69 |
| 43 | 32.43 | 9.78 | 37.91 | 12.23 | 38.95 | 12.36 | 39.52 | 12.41 | 40.09 | 12.47 | 40.96 | 12.54 | 41.25 | 12.94 | |
| 45 | 32.43 | 9.90 | 37.71 | 12.35 | 38.58 | 12.47 | 39.11 | 12.52 | 39.74 | 12.56 | 40.14 | 12.58 | 40.84 | 13.22 | |
| 48 | 32.47 | 9.98 | 43.32 | 12.48 | 44.12 | 12.59 | 44.59 | 12.62 | 45.54 | 12.66 | 45.78 | 12.63 | 46.69 | 13.39 | |

Cooling capacity table

MVUR400B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|-------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 29.71 | 3.90 | 35.43 | 4.85 | 41.14 | 5.79 | 44.00 | 6.21 | 46.86 | 6.68 | 50.43 | 6.94 | 51.57 | 7.16 |
| | -2 | 29.71 | 3.97 | 35.43 | 4.91 | 41.14 | 5.84 | 44.00 | 6.27 | 46.86 | 6.74 | 50.43 | 7.01 | 51.57 | 7.19 |
| | 0 | 29.71 | 4.01 | 35.43 | 4.94 | 41.14 | 5.88 | 44.00 | 6.31 | 46.86 | 6.81 | 50.43 | 7.08 | 51.57 | 7.28 |
| | 2 | 29.71 | 4.10 | 35.43 | 4.99 | 41.14 | 5.97 | 44.00 | 6.38 | 46.86 | 6.88 | 50.43 | 7.18 | 51.57 | 7.37 |
| | 4 | 29.71 | 4.18 | 35.43 | 5.04 | 41.14 | 6.03 | 44.00 | 6.46 | 46.86 | 6.99 | 50.43 | 7.28 | 51.57 | 7.44 |
| | 6 | 29.71 | 4.22 | 35.43 | 5.10 | 41.14 | 6.09 | 44.00 | 6.56 | 46.86 | 7.07 | 50.43 | 7.36 | 51.57 | 7.55 |
| | 8 | 29.71 | 4.26 | 35.43 | 5.18 | 41.14 | 6.16 | 44.00 | 6.63 | 46.86 | 7.15 | 50.43 | 7.41 | 51.57 | 7.63 |
| | 10 | 29.71 | 4.31 | 35.43 | 5.25 | 41.14 | 6.24 | 44.00 | 6.75 | 46.86 | 7.27 | 50.43 | 7.46 | 51.57 | 7.70 |
| | 12 | 29.71 | 4.40 | 35.43 | 5.36 | 41.14 | 6.37 | 44.00 | 6.88 | 46.86 | 7.40 | 49.86 | 7.57 | 50.86 | 7.80 |
| | 14 | 29.71 | 4.48 | 35.43 | 5.45 | 41.14 | 6.49 | 44.00 | 7.01 | 46.86 | 7.54 | 49.14 | 7.63 | 50.29 | 7.86 |
| | 16 | 29.71 | 4.55 | 35.43 | 5.56 | 41.14 | 6.61 | 44.00 | 7.14 | 46.86 | 7.69 | 48.57 | 7.72 | 49.57 | 7.94 |
| | 18 | 29.71 | 4.65 | 35.43 | 5.67 | 41.14 | 6.75 | 44.00 | 7.34 | 46.86 | 8.06 | 47.86 | 8.12 | 49.00 | 8.19 |
| | 20 | 29.71 | 4.74 | 35.43 | 5.79 | 41.14 | 7.14 | 44.00 | 7.89 | 46.14 | 8.45 | 47.29 | 8.51 | 48.29 | 8.59 |
| | 21 | 29.71 | 4.78 | 35.43 | 5.95 | 41.14 | 7.40 | 44.00 | 8.18 | 45.86 | 8.65 | 46.86 | 8.71 | 48.00 | 8.79 |
| | 23 | 29.71 | 5.01 | 35.43 | 6.38 | 41.14 | 7.94 | 44.00 | 8.77 | 45.15 | 9.03 | 46.29 | 9.12 | 47.29 | 9.20 |
| | 25 | 29.71 | 5.35 | 35.43 | 6.82 | 41.14 | 8.48 | 44.00 | 9.40 | 44.57 | 9.43 | 45.57 | 9.52 | 46.71 | 9.60 |
| | 27 | 29.71 | 5.70 | 35.43 | 7.29 | 41.14 | 9.08 | 43.29 | 9.79 | 43.86 | 9.82 | 45.00 | 9.91 | 46.00 | 10.01 |
| | 29 | 29.71 | 6.08 | 35.43 | 7.78 | 41.14 | 9.70 | 42.72 | 10.19 | 43.29 | 10.23 | 44.29 | 10.33 | 45.43 | 10.42 |
| | 31 | 29.71 | 6.47 | 35.43 | 8.30 | 41.14 | 10.36 | 42.00 | 10.59 | 42.57 | 10.63 | 43.72 | 10.72 | 44.71 | 10.83 |
| | 33 | 29.71 | 6.88 | 35.43 | 8.85 | 40.86 | 10.92 | 41.43 | 10.98 | 42.00 | 11.03 | 43.00 | 11.13 | 44.14 | 11.24 |
| 35 | 29.71 | 7.33 | 35.43 | 9.43 | 40.15 | 11.32 | 40.72 | 11.38 | 41.29 | 11.44 | 42.29 | 11.54 | 43.43 | 11.65 | |
| 37 | 29.71 | 7.80 | 35.43 | 10.04 | 39.57 | 11.73 | 40.15 | 11.77 | 40.57 | 11.83 | 41.72 | 11.96 | 42.72 | 12.06 | |
| 39 | 29.71 | 8.28 | 35.43 | 10.69 | 38.86 | 12.12 | 39.43 | 12.18 | 40.00 | 12.24 | 41.00 | 12.37 | 42.15 | 12.49 | |
| 41 | 29.71 | 8.37 | 35.43 | 10.78 | 38.55 | 12.21 | 39.12 | 12.27 | 39.70 | 12.33 | 40.48 | 12.45 | 40.88 | 12.57 | |
| 43 | 29.71 | 8.46 | 35.43 | 10.92 | 38.25 | 12.29 | 38.82 | 12.36 | 39.39 | 12.42 | 40.12 | 12.50 | 40.25 | 12.83 | |
| 45 | 29.71 | 8.73 | 35.43 | 10.98 | 37.86 | 12.41 | 38.41 | 12.50 | 39.04 | 12.53 | 39.71 | 12.84 | 39.87 | 13.13 | |
| 48 | 32.54 | 9.04 | 38.80 | 11.91 | 40.86 | 12.49 | 41.40 | 12.59 | 42.27 | 12.66 | 42.78 | 12.89 | 43.11 | 13.27 | |
| 100% | -5 | 27.00 | 3.55 | 32.14 | 4.27 | 37.43 | 5.09 | 40.00 | 5.45 | 42.57 | 5.91 | 47.86 | 6.73 | 50.57 | 7.03 |
| | -2 | 27.00 | 3.59 | 32.14 | 4.33 | 37.43 | 5.14 | 40.00 | 5.55 | 42.57 | 5.99 | 47.86 | 6.81 | 50.57 | 7.07 |
| | 0 | 27.00 | 3.63 | 32.14 | 4.37 | 37.43 | 5.20 | 40.00 | 5.62 | 42.57 | 6.05 | 47.86 | 6.93 | 50.57 | 7.15 |
| | 2 | 27.00 | 3.70 | 32.14 | 4.43 | 37.43 | 5.25 | 40.00 | 5.69 | 42.57 | 6.11 | 47.86 | 7.03 | 50.57 | 7.27 |
| | 4 | 27.00 | 3.73 | 32.14 | 4.47 | 37.43 | 5.33 | 40.00 | 5.77 | 42.57 | 6.19 | 47.86 | 7.10 | 50.57 | 7.35 |
| | 6 | 27.00 | 3.78 | 32.14 | 4.57 | 37.43 | 5.40 | 40.00 | 5.88 | 42.57 | 6.28 | 47.86 | 7.20 | 50.57 | 7.46 |
| | 8 | 27.00 | 3.85 | 32.14 | 4.63 | 37.43 | 5.50 | 40.00 | 5.94 | 42.57 | 6.38 | 47.86 | 7.31 | 50.57 | 7.58 |
| | 10 | 27.00 | 3.90 | 32.14 | 4.72 | 37.43 | 5.59 | 40.00 | 6.05 | 42.57 | 6.50 | 47.86 | 7.43 | 50.57 | 7.69 |
| | 12 | 27.00 | 3.96 | 32.14 | 4.81 | 37.43 | 5.70 | 40.00 | 6.15 | 42.57 | 6.63 | 47.86 | 7.57 | 49.86 | 7.75 |
| | 14 | 27.00 | 4.04 | 32.14 | 4.90 | 37.43 | 5.80 | 40.00 | 6.27 | 42.57 | 6.75 | 47.86 | 7.72 | 49.28 | 7.84 |
| | 16 | 27.00 | 4.11 | 32.14 | 4.99 | 37.43 | 5.92 | 40.00 | 6.40 | 42.57 | 6.88 | 47.57 | 7.81 | 48.57 | 7.93 |
| | 18 | 27.00 | 4.19 | 32.14 | 5.09 | 37.43 | 6.03 | 40.00 | 6.52 | 42.57 | 7.02 | 47.00 | 8.07 | 48.00 | 8.13 |
| | 20 | 27.00 | 4.26 | 32.14 | 5.19 | 37.43 | 6.21 | 40.00 | 6.85 | 42.57 | 7.52 | 46.28 | 8.45 | 47.28 | 8.53 |
| | 21 | 27.00 | 4.31 | 32.14 | 5.24 | 37.43 | 6.44 | 40.00 | 7.10 | 42.57 | 7.78 | 46.00 | 8.65 | 47.00 | 8.73 |
| | 23 | 27.00 | 4.42 | 32.14 | 5.59 | 37.43 | 6.90 | 40.00 | 7.60 | 42.57 | 8.35 | 45.43 | 9.05 | 46.28 | 9.12 |
| | 25 | 27.00 | 4.71 | 32.14 | 5.97 | 37.43 | 7.39 | 40.00 | 8.15 | 42.57 | 8.94 | 44.72 | 9.44 | 45.71 | 9.52 |
| | 27 | 27.00 | 5.03 | 32.14 | 6.37 | 37.43 | 7.89 | 40.00 | 8.71 | 42.57 | 9.56 | 44.00 | 9.84 | 45.00 | 9.93 |
| | 29 | 27.00 | 5.34 | 32.14 | 6.79 | 37.43 | 8.42 | 40.00 | 9.31 | 42.43 | 10.16 | 43.43 | 10.25 | 44.43 | 10.32 |
| | 31 | 27.00 | 5.70 | 32.14 | 7.25 | 37.43 | 8.98 | 40.00 | 9.93 | 41.86 | 10.55 | 42.72 | 10.64 | 43.71 | 10.74 |
| | 33 | 27.00 | 6.05 | 32.14 | 7.72 | 37.43 | 9.58 | 40.00 | 10.60 | 41.14 | 10.95 | 42.14 | 11.04 | 43.14 | 11.15 |
| 35 | 27.00 | 6.43 | 32.14 | 8.21 | 37.43 | 10.22 | 40.00 | 11.30 | 40.43 | 11.35 | 41.43 | 11.45 | 42.43 | 11.54 | |
| 37 | 27.00 | 6.84 | 32.14 | 8.74 | 37.43 | 10.89 | 39.28 | 11.70 | 39.86 | 11.76 | 40.86 | 11.86 | 41.72 | 11.96 | |
| 39 | 27.00 | 7.26 | 32.14 | 9.29 | 37.43 | 11.59 | 38.71 | 12.09 | 39.14 | 12.15 | 40.14 | 12.26 | 41.14 | 12.38 | |
| 41 | 27.00 | 7.60 | 32.14 | 9.63 | 37.43 | 12.01 | 38.11 | 12.18 | 38.84 | 12.34 | 39.45 | 12.55 | 40.54 | 12.64 | |
| 43 | 27.00 | 7.94 | 32.14 | 9.97 | 37.43 | 12.24 | 37.51 | 12.32 | 38.56 | 12.46 | 39.68 | 12.63 | 39.83 | 12.78 | |
| 45 | 27.00 | 8.39 | 32.14 | 10.42 | 37.43 | 12.44 | 36.71 | 12.49 | 38.36 | 12.68 | 39.34 | 12.82 | 39.03 | 12.95 | |
| 48 | 27.96 | 8.76 | 33.29 | 10.78 | 38.76 | 12.46 | 36.46 | 12.63 | 39.67 | 12.91 | 38.26 | 12.96 | 39.54 | 13.07 | |

Cooling capacity table

MVUR400B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|-------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 24.29 | 3.14 | 29.00 | 3.77 | 33.71 | 4.44 | 36.00 | 4.85 | 38.29 | 5.16 | 43.00 | 5.93 | 47.71 | 6.79 |
| | -2 | 24.29 | 3.17 | 29.00 | 3.80 | 33.71 | 4.50 | 36.00 | 4.91 | 38.29 | 5.22 | 43.00 | 5.99 | 47.71 | 6.85 |
| | 0 | 24.29 | 3.22 | 29.00 | 3.85 | 33.71 | 4.57 | 36.00 | 4.97 | 38.29 | 5.28 | 43.00 | 6.05 | 47.71 | 6.91 |
| | 2 | 24.29 | 3.26 | 29.00 | 3.90 | 33.71 | 4.61 | 36.00 | 5.05 | 38.29 | 5.37 | 43.00 | 6.18 | 47.71 | 7.01 |
| | 4 | 24.29 | 3.31 | 29.00 | 3.96 | 33.71 | 4.69 | 36.00 | 5.12 | 38.29 | 5.44 | 43.00 | 6.28 | 47.71 | 7.11 |
| | 6 | 24.29 | 3.36 | 29.00 | 4.04 | 33.71 | 4.78 | 36.00 | 5.21 | 38.29 | 5.53 | 43.00 | 6.37 | 47.71 | 7.23 |
| | 8 | 24.29 | 3.42 | 29.00 | 4.11 | 33.71 | 4.88 | 36.00 | 5.28 | 38.29 | 5.63 | 43.00 | 6.49 | 47.71 | 7.30 |
| | 10 | 24.29 | 3.49 | 29.00 | 4.20 | 33.71 | 4.96 | 36.00 | 5.36 | 38.29 | 5.76 | 43.00 | 6.57 | 47.71 | 7.42 |
| | 12 | 24.29 | 3.55 | 29.00 | 4.28 | 33.71 | 5.06 | 36.00 | 5.45 | 38.29 | 5.86 | 43.00 | 6.70 | 47.71 | 7.55 |
| | 14 | 24.29 | 3.61 | 29.00 | 4.36 | 33.71 | 5.15 | 36.00 | 5.56 | 38.29 | 5.97 | 43.00 | 6.82 | 47.71 | 7.69 |
| | 16 | 24.29 | 3.67 | 29.00 | 4.43 | 33.71 | 5.25 | 36.00 | 5.67 | 38.29 | 6.09 | 43.00 | 6.96 | 47.57 | 7.83 |
| | 18 | 24.29 | 3.73 | 29.00 | 4.52 | 33.71 | 5.34 | 36.00 | 5.77 | 38.29 | 6.21 | 43.00 | 7.10 | 47.00 | 8.07 |
| | 20 | 24.29 | 3.81 | 29.00 | 4.63 | 33.71 | 5.45 | 36.00 | 5.89 | 38.29 | 6.44 | 43.00 | 7.63 | 46.29 | 8.45 |
| | 21 | 24.29 | 3.84 | 29.00 | 4.66 | 33.71 | 5.54 | 36.00 | 6.09 | 38.29 | 6.67 | 43.00 | 7.90 | 46.00 | 8.65 |
| | 23 | 24.29 | 3.91 | 29.00 | 4.84 | 33.71 | 5.94 | 36.00 | 6.53 | 38.29 | 7.16 | 43.00 | 8.48 | 45.28 | 9.05 |
| | 25 | 24.29 | 4.13 | 29.00 | 5.18 | 33.71 | 6.35 | 36.00 | 6.99 | 38.29 | 7.64 | 43.00 | 9.08 | 44.72 | 9.44 |
| | 27 | 24.29 | 4.39 | 29.00 | 5.51 | 33.71 | 6.78 | 36.00 | 7.46 | 38.29 | 8.18 | 43.00 | 9.72 | 44.00 | 9.84 |
| | 29 | 24.29 | 4.67 | 29.00 | 5.88 | 33.71 | 7.23 | 36.00 | 7.96 | 38.29 | 8.74 | 42.57 | 10.16 | 43.43 | 10.23 |
| | 31 | 24.29 | 4.96 | 29.00 | 6.26 | 33.71 | 7.71 | 36.00 | 8.50 | 38.29 | 9.32 | 41.86 | 10.55 | 42.71 | 10.64 |
| | 33 | 24.29 | 5.27 | 29.00 | 6.65 | 33.71 | 8.22 | 36.00 | 9.06 | 38.29 | 9.94 | 41.28 | 10.96 | 42.14 | 11.04 |
| 35 | 24.29 | 5.60 | 29.00 | 7.08 | 33.71 | 8.76 | 36.00 | 9.65 | 38.29 | 10.60 | 40.57 | 11.36 | 41.43 | 11.45 | |
| 37 | 24.29 | 5.94 | 29.00 | 7.52 | 33.71 | 9.32 | 36.00 | 10.28 | 38.29 | 11.30 | 39.86 | 11.76 | 40.86 | 11.85 | |
| 39 | 24.29 | 6.30 | 29.00 | 8.01 | 33.71 | 9.91 | 36.00 | 10.95 | 38.29 | 12.03 | 39.29 | 12.17 | 40.14 | 12.26 | |
| 41 | 24.29 | 6.52 | 29.00 | 8.37 | 33.71 | 10.28 | 36.00 | 11.24 | 38.29 | 12.10 | 39.01 | 12.48 | 39.87 | 12.55 | |
| 43 | 24.29 | 6.84 | 29.00 | 8.73 | 33.71 | 10.64 | 36.00 | 11.53 | 38.29 | 12.36 | 38.81 | 12.64 | 39.53 | 12.74 | |
| 45 | 24.29 | 7.27 | 29.00 | 9.17 | 33.71 | 11.07 | 36.00 | 11.91 | 38.29 | 12.70 | 38.60 | 12.77 | 38.93 | 12.91 | |
| 48 | 24.29 | 7.67 | 29.00 | 9.59 | 33.71 | 11.49 | 36.00 | 12.07 | 38.29 | 12.81 | 42.53 | 12.95 | 42.08 | 13.09 | |
| 80% | -5 | 21.57 | 2.77 | 25.72 | 3.27 | 29.86 | 3.87 | 32.00 | 4.12 | 34.14 | 4.43 | 38.28 | 5.12 | 42.43 | 5.85 |
| | -2 | 21.57 | 2.81 | 25.72 | 3.31 | 29.86 | 3.90 | 32.00 | 4.18 | 34.14 | 4.47 | 38.28 | 5.17 | 42.43 | 5.90 |
| | 0 | 21.57 | 2.85 | 25.72 | 3.35 | 29.86 | 3.95 | 32.00 | 4.23 | 34.14 | 4.55 | 38.28 | 5.25 | 42.43 | 5.99 |
| | 2 | 21.57 | 2.91 | 25.72 | 3.40 | 29.86 | 4.01 | 32.00 | 4.31 | 34.14 | 4.64 | 38.28 | 5.35 | 42.43 | 6.10 |
| | 4 | 21.57 | 2.96 | 25.72 | 3.46 | 29.86 | 4.09 | 32.00 | 4.41 | 34.14 | 4.72 | 38.28 | 5.45 | 42.43 | 6.18 |
| | 6 | 21.57 | 3.01 | 25.72 | 3.54 | 29.86 | 4.15 | 32.00 | 4.51 | 34.14 | 4.81 | 38.28 | 5.53 | 42.43 | 6.29 |
| | 8 | 21.57 | 3.07 | 25.72 | 3.62 | 29.86 | 4.25 | 32.00 | 4.58 | 34.14 | 4.91 | 38.28 | 5.61 | 42.43 | 6.41 |
| | 10 | 21.57 | 3.09 | 25.72 | 3.70 | 29.86 | 4.36 | 32.00 | 4.69 | 34.14 | 5.03 | 38.28 | 5.74 | 42.43 | 6.47 |
| | 12 | 21.57 | 3.14 | 25.72 | 3.76 | 29.86 | 4.43 | 32.00 | 4.78 | 34.14 | 5.13 | 38.28 | 5.85 | 42.43 | 6.59 |
| | 14 | 21.57 | 3.20 | 25.72 | 3.84 | 29.86 | 4.51 | 32.00 | 4.86 | 34.14 | 5.22 | 38.28 | 5.95 | 42.43 | 6.72 |
| | 16 | 21.57 | 3.24 | 25.72 | 3.90 | 29.86 | 4.60 | 32.00 | 4.95 | 34.14 | 5.32 | 38.28 | 6.08 | 42.43 | 6.84 |
| | 18 | 21.57 | 3.31 | 25.72 | 3.98 | 29.86 | 4.69 | 32.00 | 5.06 | 34.14 | 5.42 | 38.28 | 6.20 | 42.43 | 6.98 |
| | 20 | 21.57 | 3.37 | 25.72 | 4.05 | 29.86 | 4.78 | 32.00 | 5.15 | 34.14 | 5.53 | 38.28 | 6.43 | 42.43 | 7.46 |
| | 21 | 21.57 | 3.40 | 25.72 | 4.08 | 29.86 | 4.83 | 32.00 | 5.21 | 34.14 | 5.65 | 38.28 | 6.66 | 42.43 | 7.74 |
| | 23 | 21.57 | 3.46 | 25.72 | 4.17 | 29.86 | 5.06 | 32.00 | 5.54 | 34.14 | 6.05 | 38.28 | 7.13 | 42.43 | 8.30 |
| | 25 | 21.57 | 3.56 | 25.72 | 4.43 | 29.86 | 5.41 | 32.00 | 5.92 | 34.14 | 6.46 | 38.28 | 7.63 | 42.43 | 8.88 |
| | 27 | 21.57 | 3.79 | 25.72 | 4.72 | 29.86 | 5.76 | 32.00 | 6.32 | 34.14 | 6.90 | 38.28 | 8.15 | 42.43 | 9.50 |
| | 29 | 21.57 | 4.04 | 25.72 | 5.03 | 29.86 | 6.14 | 32.00 | 6.73 | 34.14 | 7.37 | 38.28 | 8.70 | 42.43 | 10.16 |
| | 31 | 21.57 | 4.28 | 25.72 | 5.35 | 29.86 | 6.53 | 32.00 | 7.17 | 34.14 | 7.86 | 38.28 | 9.29 | 41.72 | 10.55 |
| | 33 | 21.57 | 4.55 | 25.72 | 5.68 | 29.86 | 6.96 | 32.00 | 7.65 | 34.14 | 8.36 | 38.28 | 9.90 | 41.14 | 10.95 |
| 35 | 21.57 | 4.83 | 25.72 | 6.05 | 29.86 | 7.40 | 32.00 | 8.13 | 34.14 | 8.91 | 38.28 | 10.55 | 40.43 | 11.35 | |
| 37 | 21.57 | 5.12 | 25.72 | 6.41 | 29.86 | 7.87 | 32.00 | 8.67 | 34.14 | 9.49 | 38.28 | 11.25 | 39.86 | 11.74 | |
| 39 | 21.57 | 5.42 | 25.72 | 6.84 | 29.86 | 8.38 | 32.00 | 9.21 | 34.14 | 10.10 | 38.28 | 11.99 | 39.14 | 12.15 | |
| 41 | 21.57 | 5.54 | 25.72 | 6.90 | 29.86 | 8.50 | 32.00 | 9.46 | 34.14 | 10.28 | 38.28 | 12.29 | 38.90 | 12.37 | |
| 43 | 21.57 | 5.71 | 25.72 | 6.96 | 29.86 | 8.62 | 32.00 | 9.62 | 34.14 | 10.42 | 38.28 | 12.43 | 38.66 | 12.50 | |
| 45 | 21.57 | 5.87 | 25.72 | 7.04 | 29.86 | 8.79 | 32.00 | 9.82 | 34.14 | 10.60 | 38.28 | 12.57 | 38.18 | 12.70 | |
| 48 | 21.57 | 6.06 | 25.72 | 7.09 | 33.59 | 8.93 | 32.00 | 9.96 | 34.14 | 10.69 | 38.28 | 12.69 | 42.60 | 12.88 | |

Cooling capacity table

MVUR400B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 18.86 | 2.47 | 22.57 | 2.89 | 26.14 | 3.28 | 28.00 | 3.52 | 29.86 | 3.75 | 33.43 | 4.29 | 37.14 | 4.94 |
| | -2 | 18.86 | 2.49 | 22.57 | 2.91 | 26.14 | 3.30 | 28.00 | 3.58 | 29.86 | 3.82 | 33.43 | 4.36 | 37.14 | 5.00 |
| | 0 | 18.86 | 2.50 | 22.57 | 2.95 | 26.14 | 3.37 | 28.00 | 3.65 | 29.86 | 3.89 | 33.43 | 4.45 | 37.14 | 5.07 |
| | 2 | 18.86 | 2.52 | 22.57 | 2.96 | 26.14 | 3.42 | 28.00 | 3.72 | 29.86 | 3.96 | 33.43 | 4.54 | 37.14 | 5.15 |
| | 4 | 18.86 | 2.55 | 22.57 | 3.04 | 26.14 | 3.50 | 28.00 | 3.79 | 29.86 | 4.04 | 33.43 | 4.62 | 37.14 | 5.27 |
| | 6 | 18.86 | 2.59 | 22.57 | 3.09 | 26.14 | 3.58 | 28.00 | 3.91 | 29.86 | 4.14 | 33.43 | 4.70 | 37.14 | 5.38 |
| | 8 | 18.86 | 2.64 | 22.57 | 3.18 | 26.14 | 3.66 | 28.00 | 3.97 | 29.86 | 4.23 | 33.43 | 4.83 | 37.14 | 5.48 |
| | 10 | 18.86 | 2.69 | 22.57 | 3.23 | 26.14 | 3.76 | 28.00 | 4.05 | 29.86 | 4.34 | 33.43 | 4.93 | 37.14 | 5.54 |
| | 12 | 18.86 | 2.76 | 22.57 | 3.27 | 26.14 | 3.84 | 28.00 | 4.13 | 29.86 | 4.42 | 33.43 | 5.03 | 37.14 | 5.65 |
| | 14 | 18.86 | 2.80 | 22.57 | 3.33 | 26.14 | 3.90 | 28.00 | 4.19 | 29.86 | 4.49 | 33.43 | 5.12 | 37.14 | 5.76 |
| | 16 | 18.86 | 2.85 | 22.57 | 3.40 | 26.14 | 3.97 | 28.00 | 4.28 | 29.86 | 4.58 | 33.43 | 5.21 | 37.14 | 5.86 |
| | 18 | 18.86 | 2.89 | 22.57 | 3.46 | 26.14 | 4.05 | 28.00 | 4.36 | 29.86 | 4.66 | 33.43 | 5.31 | 37.14 | 5.98 |
| | 20 | 18.86 | 2.94 | 22.57 | 3.52 | 26.14 | 4.13 | 28.00 | 4.43 | 29.86 | 4.75 | 33.43 | 5.42 | 37.14 | 6.15 |
| | 21 | 18.86 | 2.97 | 22.57 | 3.55 | 26.14 | 4.16 | 28.00 | 4.48 | 29.86 | 4.80 | 33.43 | 5.50 | 37.14 | 6.37 |
| | 23 | 18.86 | 3.02 | 22.57 | 3.61 | 26.14 | 4.25 | 28.00 | 4.63 | 29.86 | 5.04 | 33.43 | 5.89 | 37.14 | 6.82 |
| | 25 | 18.86 | 3.08 | 22.57 | 3.76 | 26.14 | 4.52 | 28.00 | 4.95 | 29.86 | 5.38 | 33.43 | 6.30 | 37.14 | 7.29 |
| | 27 | 18.86 | 3.26 | 22.57 | 4.01 | 26.14 | 4.83 | 28.00 | 5.27 | 29.86 | 5.74 | 33.43 | 6.73 | 37.14 | 7.80 |
| | 29 | 18.86 | 3.46 | 22.57 | 4.25 | 26.14 | 5.13 | 28.00 | 5.62 | 29.86 | 6.11 | 33.43 | 7.17 | 37.14 | 8.33 |
| | 31 | 18.86 | 3.65 | 22.57 | 4.51 | 26.14 | 5.47 | 28.00 | 5.97 | 29.86 | 6.50 | 33.43 | 7.65 | 37.14 | 8.88 |
| | 33 | 18.86 | 3.88 | 22.57 | 4.80 | 26.14 | 5.82 | 28.00 | 6.35 | 29.86 | 6.93 | 33.43 | 8.15 | 37.14 | 9.47 |
| 35 | 18.86 | 4.11 | 22.57 | 5.09 | 26.14 | 6.17 | 28.00 | 6.76 | 29.86 | 7.37 | 33.43 | 8.68 | 37.14 | 10.10 | |
| 37 | 18.86 | 4.34 | 22.57 | 5.39 | 26.14 | 6.56 | 28.00 | 7.17 | 29.86 | 7.84 | 33.43 | 9.24 | 37.14 | 10.75 | |
| 39 | 18.86 | 4.60 | 22.57 | 5.71 | 26.14 | 6.96 | 28.00 | 7.63 | 29.86 | 8.33 | 33.43 | 9.82 | 37.14 | 11.45 | |
| 41 | 18.86 | 4.80 | 22.57 | 5.91 | 26.14 | 7.16 | 28.00 | 7.88 | 29.86 | 8.58 | 33.43 | 10.23 | 37.14 | 11.96 | |
| 43 | 18.86 | 5.19 | 22.57 | 6.32 | 26.14 | 7.46 | 28.00 | 8.31 | 29.86 | 8.84 | 33.43 | 10.60 | 37.14 | 12.33 | |
| 45 | 18.86 | 5.31 | 22.57 | 6.45 | 26.14 | 7.61 | 28.00 | 8.44 | 29.86 | 9.28 | 33.43 | 11.18 | 37.14 | 12.81 | |
| 48 | 18.86 | 5.45 | 22.57 | 6.51 | 26.14 | 7.69 | 28.00 | 8.58 | 29.86 | 9.53 | 33.43 | 11.68 | 37.14 | 13.11 | |
| 60% | -5 | 16.14 | 2.11 | 19.29 | 2.44 | 22.43 | 2.85 | 24.00 | 3.03 | 25.57 | 3.27 | 28.71 | 3.68 | 31.86 | 4.22 |
| | -2 | 16.14 | 2.12 | 19.29 | 2.48 | 22.43 | 2.90 | 24.00 | 3.08 | 25.57 | 3.31 | 28.71 | 3.73 | 31.86 | 4.24 |
| | 0 | 16.14 | 2.15 | 19.29 | 2.51 | 22.43 | 2.94 | 24.00 | 3.11 | 25.57 | 3.36 | 28.71 | 3.79 | 31.86 | 4.30 |
| | 2 | 16.14 | 2.19 | 19.29 | 2.57 | 22.43 | 2.99 | 24.00 | 3.17 | 25.57 | 3.41 | 28.71 | 3.86 | 31.86 | 4.35 |
| | 4 | 16.14 | 2.25 | 19.29 | 2.62 | 22.43 | 3.05 | 24.00 | 3.21 | 25.57 | 3.46 | 28.71 | 3.92 | 31.86 | 4.42 |
| | 6 | 16.14 | 2.27 | 19.29 | 2.67 | 22.43 | 3.11 | 24.00 | 3.29 | 25.57 | 3.53 | 28.71 | 4.00 | 31.86 | 4.52 |
| | 8 | 16.14 | 2.32 | 19.29 | 2.71 | 22.43 | 3.16 | 24.00 | 3.35 | 25.57 | 3.60 | 28.71 | 4.08 | 31.86 | 4.59 |
| | 10 | 16.14 | 2.36 | 19.29 | 2.77 | 22.43 | 3.21 | 24.00 | 3.44 | 25.57 | 3.67 | 28.71 | 4.16 | 31.86 | 4.66 |
| | 12 | 16.14 | 2.41 | 19.29 | 2.82 | 22.43 | 3.27 | 24.00 | 3.50 | 25.57 | 3.73 | 28.71 | 4.23 | 31.86 | 4.74 |
| | 14 | 16.14 | 2.44 | 19.29 | 2.86 | 22.43 | 3.32 | 24.00 | 3.56 | 25.57 | 3.81 | 28.71 | 4.31 | 31.86 | 4.83 |
| | 16 | 16.14 | 2.47 | 19.29 | 2.91 | 22.43 | 3.38 | 24.00 | 3.62 | 25.57 | 3.87 | 28.71 | 4.39 | 31.86 | 4.92 |
| | 18 | 16.14 | 2.51 | 19.29 | 2.95 | 22.43 | 3.44 | 24.00 | 3.68 | 25.57 | 3.94 | 28.71 | 4.46 | 31.86 | 5.01 |
| | 20 | 16.14 | 2.54 | 19.29 | 3.02 | 22.43 | 3.50 | 24.00 | 3.76 | 25.57 | 4.02 | 28.71 | 4.55 | 31.86 | 5.12 |
| | 21 | 16.14 | 2.57 | 19.29 | 3.03 | 22.43 | 3.53 | 24.00 | 3.79 | 25.57 | 4.05 | 28.71 | 4.60 | 31.86 | 5.16 |
| | 23 | 16.14 | 2.60 | 19.29 | 3.09 | 22.43 | 3.59 | 24.00 | 3.87 | 25.57 | 4.13 | 28.71 | 4.78 | 31.86 | 5.50 |
| | 25 | 16.14 | 2.65 | 19.29 | 3.14 | 22.43 | 3.73 | 24.00 | 4.05 | 25.57 | 4.39 | 28.71 | 5.10 | 31.86 | 5.86 |
| | 27 | 16.14 | 2.76 | 19.29 | 3.33 | 22.43 | 3.97 | 24.00 | 4.32 | 25.57 | 4.67 | 28.71 | 5.44 | 31.86 | 6.26 |
| | 29 | 16.14 | 2.91 | 19.29 | 3.53 | 22.43 | 4.23 | 24.00 | 4.60 | 25.57 | 4.98 | 28.71 | 5.80 | 31.86 | 6.68 |
| | 31 | 16.14 | 3.09 | 19.29 | 3.75 | 22.43 | 4.49 | 24.00 | 4.89 | 25.57 | 5.30 | 28.71 | 6.17 | 31.86 | 7.11 |
| | 33 | 16.14 | 3.26 | 19.29 | 3.97 | 22.43 | 4.77 | 24.00 | 5.19 | 25.57 | 5.63 | 28.71 | 6.56 | 31.86 | 7.58 |
| 35 | 16.14 | 3.46 | 19.29 | 4.22 | 22.43 | 5.06 | 24.00 | 5.51 | 25.57 | 5.98 | 28.71 | 6.99 | 31.86 | 8.07 | |
| 37 | 16.14 | 3.65 | 19.29 | 4.46 | 22.43 | 5.36 | 24.00 | 5.85 | 25.57 | 6.35 | 28.71 | 7.43 | 31.86 | 8.59 | |
| 39 | 16.14 | 3.85 | 19.29 | 4.72 | 22.43 | 5.68 | 24.00 | 6.20 | 25.57 | 6.75 | 28.71 | 7.89 | 31.86 | 9.14 | |
| 41 | 16.14 | 3.98 | 19.29 | 4.92 | 22.43 | 5.89 | 24.00 | 6.45 | 25.57 | 6.99 | 28.71 | 8.26 | 31.86 | 9.55 | |
| 43 | 16.14 | 4.10 | 19.29 | 5.13 | 22.43 | 6.09 | 24.00 | 6.64 | 25.57 | 7.24 | 28.71 | 8.61 | 31.86 | 9.96 | |
| 45 | 16.14 | 4.29 | 19.29 | 5.39 | 22.43 | 6.34 | 24.00 | 6.89 | 25.57 | 7.60 | 28.71 | 9.00 | 31.86 | 10.51 | |
| 48 | 16.14 | 4.45 | 19.29 | 5.63 | 22.43 | 6.56 | 24.00 | 7.07 | 25.57 | 7.89 | 28.71 | 9.32 | 31.86 | 11.01 | |

Cooling capacity table

MVUR400B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 13.50 | 1.83 | 16.14 | 2.11 | 18.71 | 2.43 | 20.00 | 2.54 | 21.29 | 2.68 | 23.86 | 3.05 | 26.57 | 3.29 |
| | -2 | 13.50 | 1.84 | 16.14 | 2.16 | 18.71 | 2.46 | 20.00 | 2.58 | 21.29 | 2.73 | 23.86 | 3.09 | 26.57 | 3.33 |
| | 0 | 13.50 | 1.87 | 16.14 | 2.19 | 18.71 | 2.50 | 20.00 | 2.61 | 21.29 | 2.76 | 23.86 | 3.14 | 26.57 | 3.39 |
| | 2 | 13.50 | 1.90 | 16.14 | 2.22 | 18.71 | 2.54 | 20.00 | 2.65 | 21.29 | 2.81 | 23.86 | 3.16 | 26.57 | 3.46 |
| | 4 | 13.50 | 1.92 | 16.14 | 2.26 | 18.71 | 2.57 | 20.00 | 2.68 | 21.29 | 2.87 | 23.86 | 3.24 | 26.57 | 3.54 |
| | 6 | 13.50 | 1.95 | 16.14 | 2.29 | 18.71 | 2.61 | 20.00 | 2.75 | 21.29 | 2.92 | 23.86 | 3.29 | 26.57 | 3.65 |
| | 8 | 13.50 | 2.00 | 16.14 | 2.33 | 18.71 | 2.65 | 20.00 | 2.81 | 21.29 | 2.96 | 23.86 | 3.34 | 26.57 | 3.77 |
| | 10 | 13.50 | 2.04 | 16.14 | 2.36 | 18.71 | 2.70 | 20.00 | 2.85 | 21.29 | 3.05 | 23.86 | 3.43 | 26.57 | 3.82 |
| | 12 | 13.50 | 2.06 | 16.14 | 2.39 | 18.71 | 2.74 | 20.00 | 2.91 | 21.29 | 3.11 | 23.86 | 3.49 | 26.57 | 3.88 |
| | 14 | 13.50 | 2.09 | 16.14 | 2.42 | 18.71 | 2.77 | 20.00 | 2.97 | 21.29 | 3.15 | 23.86 | 3.55 | 26.57 | 3.96 |
| | 16 | 13.50 | 2.12 | 16.14 | 2.45 | 18.71 | 2.82 | 20.00 | 3.02 | 21.29 | 3.20 | 23.86 | 3.61 | 26.57 | 4.02 |
| | 18 | 13.50 | 2.15 | 16.14 | 2.50 | 18.71 | 2.86 | 20.00 | 3.06 | 21.29 | 3.26 | 23.86 | 3.67 | 26.57 | 4.10 |
| | 20 | 13.50 | 2.18 | 16.14 | 2.53 | 18.71 | 2.91 | 20.00 | 3.11 | 21.29 | 3.32 | 23.86 | 3.73 | 26.57 | 4.17 |
| | 21 | 13.50 | 2.19 | 16.14 | 2.56 | 18.71 | 2.94 | 20.00 | 3.14 | 21.29 | 3.35 | 23.86 | 3.78 | 26.57 | 4.22 |
| | 23 | 13.50 | 2.22 | 16.14 | 2.59 | 18.71 | 2.98 | 20.00 | 3.20 | 21.29 | 3.41 | 23.86 | 3.84 | 26.57 | 4.31 |
| | 25 | 13.50 | 2.25 | 16.14 | 2.63 | 18.71 | 3.05 | 20.00 | 3.26 | 21.29 | 3.52 | 23.86 | 4.04 | 26.57 | 4.60 |
| | 27 | 13.50 | 2.30 | 16.14 | 2.74 | 18.71 | 3.21 | 20.00 | 3.47 | 21.29 | 3.73 | 23.86 | 4.29 | 26.57 | 4.90 |
| | 29 | 13.50 | 2.42 | 16.14 | 2.89 | 18.71 | 3.41 | 20.00 | 3.69 | 21.29 | 3.97 | 23.86 | 4.57 | 26.57 | 5.22 |
| | 31 | 13.50 | 2.56 | 16.14 | 3.06 | 18.71 | 3.61 | 20.00 | 3.91 | 21.29 | 4.22 | 23.86 | 4.86 | 26.57 | 5.56 |
| | 33 | 13.50 | 2.71 | 16.14 | 3.24 | 18.71 | 3.84 | 20.00 | 4.14 | 21.29 | 4.48 | 23.86 | 5.16 | 26.57 | 5.91 |
| 35 | 13.50 | 2.86 | 16.14 | 3.43 | 18.71 | 4.05 | 20.00 | 4.39 | 21.29 | 4.74 | 23.86 | 5.48 | 26.57 | 6.27 | |
| 37 | 13.50 | 3.02 | 16.14 | 3.62 | 18.71 | 4.29 | 20.00 | 4.64 | 21.29 | 5.02 | 23.86 | 5.82 | 26.57 | 6.67 | |
| 39 | 13.50 | 3.18 | 16.14 | 3.82 | 18.71 | 4.54 | 20.00 | 4.92 | 21.29 | 5.33 | 23.86 | 6.17 | 26.57 | 7.08 | |
| 41 | 13.50 | 3.31 | 16.14 | 3.99 | 18.71 | 4.70 | 20.00 | 5.15 | 21.29 | 5.56 | 23.86 | 6.50 | 26.57 | 7.41 | |
| 43 | 13.50 | 3.53 | 16.14 | 4.26 | 18.71 | 4.87 | 20.00 | 5.38 | 21.29 | 5.70 | 23.86 | 6.83 | 26.57 | 7.74 | |
| 45 | 13.50 | 3.61 | 16.14 | 4.37 | 18.71 | 5.20 | 20.00 | 5.80 | 21.29 | 5.94 | 23.86 | 7.48 | 26.57 | 8.40 | |
| 48 | 13.50 | 3.70 | 16.14 | 4.49 | 18.71 | 5.50 | 20.00 | 6.16 | 21.29 | 6.21 | 23.86 | 8.08 | 26.57 | 9.04 | |

Cooling capacity table

MVUR450B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|-------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 39.54 | 5.41 | 47.09 | 6.61 | 54.64 | 7.08 | 56.73 | 7.37 | 59.46 | 7.58 | 60.91 | 8.24 | 62.44 | 8.29 |
| | -2 | 39.54 | 5.41 | 47.09 | 6.73 | 54.64 | 7.08 | 56.73 | 7.41 | 59.46 | 7.58 | 60.91 | 8.35 | 62.44 | 8.38 |
| | 0 | 39.54 | 5.50 | 47.09 | 6.85 | 54.64 | 7.34 | 56.73 | 7.82 | 59.46 | 8.02 | 60.91 | 8.45 | 62.44 | 8.49 |
| | 2 | 39.54 | 5.60 | 47.09 | 6.87 | 54.64 | 7.59 | 56.73 | 8.26 | 59.46 | 8.11 | 60.91 | 8.51 | 62.44 | 8.61 |
| | 4 | 39.54 | 5.73 | 47.09 | 7.00 | 54.64 | 7.85 | 56.73 | 8.29 | 59.46 | 8.22 | 60.91 | 8.50 | 62.44 | 8.78 |
| | 6 | 39.54 | 5.84 | 47.09 | 7.14 | 54.64 | 8.14 | 56.73 | 8.36 | 58.80 | 8.47 | 60.16 | 8.50 | 61.75 | 8.84 |
| | 8 | 39.54 | 5.98 | 47.09 | 7.30 | 54.64 | 8.55 | 56.73 | 8.77 | 58.07 | 8.75 | 59.51 | 3.90 | 60.97 | 8.93 |
| | 10 | 39.54 | 6.10 | 47.09 | 7.46 | 54.64 | 8.87 | 56.73 | 9.07 | 57.37 | 4.04 | 58.82 | 4.06 | 60.27 | 9.19 |
| | 12 | 39.54 | 6.21 | 47.09 | 7.60 | 54.64 | 9.05 | 55.93 | 4.03 | 56.73 | 4.06 | 58.02 | 4.07 | 59.46 | 9.24 |
| | 14 | 39.54 | 6.34 | 47.09 | 7.74 | 54.48 | 4.05 | 55.29 | 4.06 | 55.93 | 4.08 | 57.37 | 4.09 | 58.82 | 9.45 |
| | 16 | 39.54 | 6.44 | 47.09 | 7.91 | 53.84 | 4.06 | 54.48 | 4.08 | 55.12 | 4.10 | 56.57 | 4.12 | 58.02 | 9.60 |
| | 18 | 39.54 | 6.57 | 47.09 | 8.07 | 53.04 | 9.46 | 53.68 | 9.51 | 54.48 | 9.57 | 55.93 | 9.65 | 57.37 | 9.74 |
| | 20 | 39.54 | 6.71 | 47.09 | 8.58 | 52.23 | 9.92 | 53.04 | 9.97 | 53.68 | 10.03 | 55.12 | 10.12 | 56.57 | 10.22 |
| | 21 | 39.54 | 6.89 | 47.09 | 8.89 | 51.91 | 10.15 | 52.71 | 10.21 | 53.35 | 10.26 | 54.80 | 10.37 | 56.25 | 10.46 |
| | 23 | 39.54 | 7.39 | 47.09 | 9.53 | 51.27 | 10.62 | 51.91 | 10.67 | 52.55 | 10.72 | 54.00 | 10.83 | 55.44 | 10.94 |
| | 25 | 39.54 | 7.89 | 47.09 | 10.21 | 50.46 | 11.08 | 51.10 | 11.14 | 51.91 | 11.21 | 53.35 | 11.31 | 54.80 | 11.42 |
| | 27 | 39.54 | 8.42 | 47.09 | 10.92 | 49.82 | 11.55 | 50.46 | 11.62 | 51.10 | 11.67 | 52.55 | 11.80 | 54.00 | 11.92 |
| | 29 | 39.54 | 8.99 | 47.09 | 11.67 | 49.02 | 12.01 | 49.66 | 12.08 | 50.46 | 12.15 | 51.91 | 12.28 | 53.35 | 12.40 |
| | 31 | 39.54 | 9.60 | 46.93 | 12.35 | 48.21 | 12.49 | 49.02 | 12.56 | 49.66 | 12.62 | 51.10 | 12.76 | 52.55 | 12.90 |
| | 33 | 39.54 | 10.22 | 46.12 | 12.81 | 47.57 | 12.95 | 48.21 | 13.03 | 49.02 | 13.10 | 50.46 | 13.24 | 51.75 | 13.38 |
| | 35 | 39.54 | 10.90 | 45.32 | 13.28 | 46.77 | 13.44 | 47.57 | 13.51 | 48.21 | 13.58 | 49.66 | 13.74 | 51.10 | 13.88 |
| | 37 | 39.54 | 11.60 | 44.68 | 13.76 | 46.12 | 13.92 | 46.77 | 13.99 | 47.57 | 14.08 | 48.85 | 14.24 | 50.30 | 14.40 |
| | 39 | 39.54 | 12.35 | 43.87 | 13.90 | 45.32 | 14.38 | 46.12 | 14.47 | 46.77 | 14.56 | 48.21 | 14.72 | 49.66 | 14.90 |
| | 41 | 39.54 | 13.00 | 43.42 | 14.04 | 44.84 | 14.52 | 45.65 | 14.61 | 46.29 | 14.70 | 47.74 | 14.75 | 47.76 | 15.04 |
| 43 | 39.54 | 13.33 | 43.10 | 14.10 | 44.61 | 14.56 | 45.41 | 14.67 | 45.81 | 14.72 | 46.87 | 14.78 | 47.19 | 15.07 | |
| 45 | 39.54 | 13.99 | 42.83 | 14.24 | 44.13 | 14.69 | 44.93 | 14.77 | 45.15 | 14.78 | 45.60 | 14.83 | 46.26 | 15.35 | |
| 48 | 39.54 | 14.49 | 44.36 | 14.70 | 48.11 | 14.83 | 49.00 | 14.90 | 49.40 | 14.95 | 49.18 | 15.09 | 50.08 | 15.13 | |
| 120% | -5 | 36.48 | 5.23 | 43.39 | 6.33 | 50.47 | 7.49 | 54.00 | 8.17 | 56.57 | 8.51 | 57.86 | 8.78 | 59.14 | 9.02 |
| | -2 | 36.48 | 5.28 | 43.39 | 6.40 | 50.47 | 7.56 | 54.00 | 8.21 | 56.57 | 8.61 | 57.86 | 8.86 | 59.14 | 9.05 |
| | 0 | 36.48 | 5.33 | 43.39 | 6.44 | 50.47 | 7.65 | 54.00 | 8.23 | 56.57 | 8.69 | 57.86 | 8.91 | 59.14 | 9.07 |
| | 2 | 36.48 | 5.34 | 43.39 | 6.51 | 50.47 | 7.70 | 54.00 | 8.31 | 56.57 | 8.72 | 57.86 | 8.98 | 59.14 | 9.08 |
| | 4 | 36.48 | 5.39 | 43.39 | 6.59 | 50.47 | 7.81 | 54.00 | 8.39 | 56.57 | 8.84 | 57.86 | 8.99 | 59.14 | 9.11 |
| | 6 | 36.48 | 5.45 | 43.39 | 6.64 | 50.47 | 7.90 | 54.00 | 8.48 | 56.57 | 8.93 | 57.86 | 9.07 | 59.14 | 9.14 |
| | 8 | 36.48 | 5.50 | 43.39 | 6.71 | 50.47 | 8.01 | 54.00 | 8.59 | 56.57 | 9.02 | 57.86 | 9.10 | 59.14 | 9.18 |
| | 10 | 36.48 | 5.57 | 43.39 | 6.80 | 50.47 | 8.08 | 54.00 | 8.74 | 56.57 | 9.03 | 57.86 | 9.12 | 59.14 | 9.22 |
| | 12 | 36.48 | 5.67 | 43.39 | 6.92 | 50.47 | 8.24 | 54.00 | 8.90 | 55.77 | 9.07 | 57.05 | 9.07 | 58.34 | 9.28 |
| | 14 | 36.48 | 5.78 | 43.39 | 7.07 | 50.47 | 8.40 | 54.00 | 9.08 | 54.96 | 9.12 | 56.41 | 9.21 | 57.69 | 9.39 |
| | 16 | 36.48 | 5.89 | 43.39 | 7.21 | 50.47 | 8.57 | 53.68 | 4.10 | 54.32 | 9.26 | 55.61 | 9.37 | 56.89 | 9.54 |
| | 18 | 36.48 | 6.00 | 43.39 | 7.35 | 50.47 | 8.85 | 52.88 | 9.46 | 53.52 | 9.49 | 54.80 | 9.58 | 56.25 | 9.67 |
| | 20 | 36.48 | 6.12 | 43.39 | 7.64 | 50.47 | 9.53 | 52.23 | 9.92 | 52.88 | 9.96 | 54.16 | 10.05 | 55.45 | 10.14 |
| | 21 | 36.48 | 6.17 | 43.39 | 7.90 | 50.47 | 9.87 | 51.75 | 10.15 | 52.39 | 10.19 | 53.84 | 10.28 | 55.13 | 10.38 |
| | 23 | 36.48 | 6.60 | 43.39 | 8.48 | 50.47 | 10.56 | 51.11 | 10.60 | 51.75 | 10.65 | 53.03 | 10.76 | 54.32 | 10.85 |
| | 25 | 36.48 | 7.05 | 43.39 | 9.06 | 49.66 | 11.03 | 50.30 | 11.06 | 50.95 | 11.12 | 52.39 | 11.22 | 53.68 | 11.33 |
| | 27 | 36.48 | 7.53 | 43.39 | 9.69 | 49.02 | 11.47 | 49.66 | 11.55 | 50.30 | 11.60 | 51.59 | 11.71 | 52.88 | 11.81 |
| | 29 | 36.48 | 8.03 | 43.39 | 10.35 | 48.21 | 11.94 | 48.86 | 12.01 | 49.50 | 12.06 | 50.79 | 12.19 | 52.23 | 12.29 |
| | 31 | 36.48 | 8.57 | 43.39 | 11.04 | 47.41 | 12.42 | 48.21 | 12.47 | 48.86 | 12.54 | 50.14 | 12.67 | 51.43 | 12.79 |
| | 33 | 36.48 | 9.12 | 43.39 | 11.78 | 46.76 | 12.88 | 47.41 | 12.95 | 48.05 | 13.01 | 49.34 | 13.15 | 50.62 | 13.28 |
| | 35 | 36.48 | 9.71 | 43.39 | 12.56 | 45.96 | 13.34 | 46.61 | 13.42 | 47.41 | 13.49 | 48.69 | 13.63 | 49.98 | 13.78 |
| | 37 | 36.48 | 10.33 | 43.39 | 13.38 | 45.32 | 13.83 | 45.96 | 13.90 | 46.61 | 13.97 | 47.89 | 14.12 | 49.18 | 14.27 |
| | 39 | 36.48 | 10.99 | 43.23 | 14.13 | 44.52 | 14.29 | 45.16 | 14.38 | 45.80 | 14.45 | 47.25 | 14.61 | 48.54 | 14.76 |
| | 41 | 36.48 | 11.29 | 42.88 | 14.23 | 44.17 | 14.39 | 44.81 | 14.48 | 45.46 | 14.55 | 46.90 | 14.65 | 47.14 | 14.87 |
| 43 | 36.48 | 11.46 | 42.65 | 14.33 | 43.82 | 14.48 | 44.46 | 14.54 | 45.11 | 14.61 | 46.08 | 14.69 | 46.41 | 15.17 | |
| 45 | 36.48 | 11.60 | 42.42 | 14.47 | 43.40 | 14.62 | 44.00 | 14.67 | 44.71 | 14.72 | 45.15 | 14.74 | 45.94 | 15.49 | |
| 48 | 36.48 | 11.69 | 48.73 | 14.63 | 49.64 | 14.75 | 50.16 | 14.78 | 51.23 | 14.84 | 51.50 | 14.79 | 52.53 | 15.69 | |

Cooling capacity table

MVUR450B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|-------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 33.43 | 4.56 | 39.86 | 5.68 | 46.29 | 6.78 | 49.50 | 7.28 | 52.71 | 7.83 | 56.73 | 8.13 | 58.02 | 8.38 |
| | -2 | 33.43 | 4.65 | 39.86 | 5.76 | 46.29 | 6.84 | 49.50 | 7.35 | 52.71 | 7.89 | 56.73 | 8.21 | 58.02 | 8.43 |
| | 0 | 33.43 | 4.70 | 39.86 | 5.79 | 46.29 | 6.89 | 49.50 | 7.40 | 52.71 | 7.98 | 56.73 | 8.30 | 58.02 | 8.53 |
| | 2 | 33.43 | 4.80 | 39.86 | 5.84 | 46.29 | 7.00 | 49.50 | 7.48 | 52.71 | 8.07 | 56.73 | 8.41 | 58.02 | 8.64 |
| | 4 | 33.43 | 4.90 | 39.86 | 5.91 | 46.29 | 7.06 | 49.50 | 7.57 | 52.71 | 8.19 | 56.73 | 8.53 | 58.02 | 8.72 |
| | 6 | 33.43 | 4.95 | 39.86 | 5.98 | 46.29 | 7.13 | 49.50 | 7.69 | 52.71 | 8.28 | 56.73 | 8.62 | 58.02 | 8.85 |
| | 8 | 33.43 | 4.99 | 39.86 | 6.07 | 46.29 | 7.21 | 49.50 | 7.77 | 52.71 | 8.38 | 56.73 | 8.68 | 58.02 | 8.94 |
| | 10 | 33.43 | 5.05 | 39.86 | 6.16 | 46.29 | 7.32 | 49.50 | 7.90 | 52.71 | 8.51 | 56.73 | 8.74 | 58.02 | 9.02 |
| | 12 | 33.43 | 5.16 | 39.86 | 6.28 | 46.29 | 7.46 | 49.50 | 8.07 | 52.71 | 8.67 | 56.09 | 8.87 | 57.22 | 9.14 |
| | 14 | 33.43 | 5.25 | 39.86 | 6.39 | 46.29 | 7.60 | 49.50 | 8.21 | 52.71 | 8.83 | 55.29 | 8.94 | 56.57 | 9.20 |
| | 16 | 33.43 | 5.34 | 39.86 | 6.51 | 46.29 | 7.74 | 49.50 | 8.37 | 52.71 | 9.01 | 54.65 | 9.05 | 55.77 | 9.30 |
| | 18 | 33.43 | 5.44 | 39.86 | 6.64 | 46.29 | 7.90 | 49.50 | 8.60 | 52.71 | 9.44 | 53.84 | 9.51 | 55.13 | 9.60 |
| | 20 | 33.43 | 5.55 | 39.86 | 6.78 | 46.29 | 8.37 | 49.50 | 9.24 | 51.91 | 9.90 | 53.20 | 9.97 | 54.33 | 10.06 |
| | 21 | 33.43 | 5.60 | 39.86 | 6.98 | 46.29 | 8.67 | 49.50 | 9.58 | 51.59 | 10.14 | 52.72 | 10.21 | 54.00 | 10.30 |
| | 23 | 33.43 | 5.87 | 39.86 | 7.48 | 46.29 | 9.30 | 49.50 | 10.28 | 50.79 | 10.58 | 52.08 | 10.69 | 53.20 | 10.78 |
| | 25 | 33.43 | 6.26 | 39.86 | 7.99 | 46.29 | 9.94 | 49.50 | 11.01 | 50.14 | 11.05 | 51.27 | 11.15 | 52.55 | 11.24 |
| | 27 | 33.43 | 6.67 | 39.86 | 8.55 | 46.29 | 10.64 | 48.70 | 11.47 | 49.34 | 11.51 | 50.63 | 11.62 | 51.75 | 11.72 |
| | 29 | 33.43 | 7.12 | 39.86 | 9.12 | 46.29 | 11.37 | 48.05 | 11.94 | 48.70 | 11.99 | 49.82 | 12.10 | 51.11 | 12.21 |
| | 31 | 33.43 | 7.58 | 39.86 | 9.73 | 46.29 | 12.13 | 47.25 | 12.40 | 47.89 | 12.46 | 49.18 | 12.56 | 50.30 | 12.69 |
| | 33 | 33.43 | 8.07 | 39.86 | 10.37 | 45.97 | 12.79 | 46.61 | 12.87 | 47.25 | 12.92 | 48.38 | 13.04 | 49.66 | 13.17 |
| | 35 | 33.43 | 8.58 | 39.86 | 11.05 | 45.16 | 13.26 | 45.81 | 13.33 | 46.45 | 13.40 | 47.57 | 13.53 | 48.86 | 13.65 |
| | 37 | 33.43 | 9.14 | 39.86 | 11.76 | 44.52 | 13.74 | 45.16 | 13.79 | 45.65 | 13.87 | 46.93 | 14.01 | 48.05 | 14.13 |
| | 39 | 33.43 | 9.71 | 39.86 | 12.53 | 43.72 | 14.20 | 44.36 | 14.28 | 45.00 | 14.35 | 46.13 | 14.49 | 47.41 | 14.63 |
| | 41 | 33.43 | 9.81 | 39.86 | 12.63 | 43.37 | 14.30 | 44.01 | 14.38 | 44.66 | 14.45 | 45.54 | 14.59 | 45.98 | 14.73 |
| 43 | 33.43 | 9.91 | 39.86 | 12.79 | 43.03 | 14.40 | 43.67 | 14.48 | 44.32 | 14.55 | 45.13 | 14.64 | 45.28 | 15.03 | |
| 45 | 33.43 | 10.23 | 39.86 | 12.86 | 42.59 | 14.54 | 43.21 | 14.65 | 43.92 | 14.68 | 44.68 | 15.04 | 44.86 | 15.38 | |
| 48 | 36.61 | 10.59 | 43.65 | 13.95 | 45.97 | 14.64 | 46.57 | 14.75 | 47.56 | 14.84 | 48.12 | 15.10 | 48.49 | 15.55 | |
| 100% | -5 | 30.38 | 4.16 | 36.16 | 5.00 | 42.11 | 5.96 | 45.00 | 6.38 | 47.89 | 6.92 | 53.84 | 7.89 | 56.89 | 8.24 |
| | -2 | 30.38 | 4.21 | 36.16 | 5.07 | 42.11 | 6.02 | 45.00 | 6.50 | 47.89 | 7.02 | 53.84 | 7.98 | 56.89 | 8.29 |
| | 0 | 30.38 | 4.25 | 36.16 | 5.12 | 42.11 | 6.09 | 45.00 | 6.58 | 47.89 | 7.08 | 53.84 | 8.12 | 56.89 | 8.38 |
| | 2 | 30.38 | 4.33 | 36.16 | 5.19 | 42.11 | 6.16 | 45.00 | 6.67 | 47.89 | 7.16 | 53.84 | 8.24 | 56.89 | 8.51 |
| | 4 | 30.38 | 4.37 | 36.16 | 5.24 | 42.11 | 6.25 | 45.00 | 6.77 | 47.89 | 7.26 | 53.84 | 8.31 | 56.89 | 8.61 |
| | 6 | 30.38 | 4.43 | 36.16 | 5.35 | 42.11 | 6.33 | 45.00 | 6.88 | 47.89 | 7.36 | 53.84 | 8.43 | 56.89 | 8.74 |
| | 8 | 30.38 | 4.51 | 36.16 | 5.43 | 42.11 | 6.45 | 45.00 | 6.96 | 47.89 | 7.48 | 53.84 | 8.57 | 56.89 | 8.88 |
| | 10 | 30.38 | 4.57 | 36.16 | 5.53 | 42.11 | 6.55 | 45.00 | 7.08 | 47.89 | 7.62 | 53.84 | 8.71 | 56.89 | 9.01 |
| | 12 | 30.38 | 4.64 | 36.16 | 5.64 | 42.11 | 6.67 | 45.00 | 7.21 | 47.89 | 7.76 | 53.84 | 8.87 | 56.09 | 9.08 |
| | 14 | 30.38 | 4.73 | 36.16 | 5.75 | 42.11 | 6.80 | 45.00 | 7.35 | 47.89 | 7.90 | 53.84 | 9.05 | 55.44 | 9.19 |
| | 16 | 30.38 | 4.82 | 36.16 | 5.85 | 42.11 | 6.94 | 45.00 | 7.49 | 47.89 | 8.07 | 53.52 | 9.15 | 54.64 | 9.30 |
| | 18 | 30.38 | 4.91 | 36.16 | 5.96 | 42.11 | 7.07 | 45.00 | 7.64 | 47.89 | 8.23 | 52.88 | 9.46 | 54.00 | 9.53 |
| | 20 | 30.38 | 5.00 | 36.16 | 6.09 | 42.11 | 7.28 | 45.00 | 8.03 | 47.89 | 8.82 | 52.07 | 9.90 | 53.19 | 9.99 |
| | 21 | 30.38 | 5.05 | 36.16 | 6.14 | 42.11 | 7.55 | 45.00 | 8.31 | 47.89 | 9.12 | 51.75 | 10.14 | 52.88 | 10.22 |
| | 23 | 30.38 | 5.17 | 36.16 | 6.55 | 42.11 | 8.08 | 45.00 | 8.90 | 47.89 | 9.78 | 51.11 | 10.60 | 52.07 | 10.69 |
| | 25 | 30.38 | 5.51 | 36.16 | 6.99 | 42.11 | 8.65 | 45.00 | 9.55 | 47.89 | 10.47 | 50.31 | 11.06 | 51.43 | 11.15 |
| | 27 | 30.38 | 5.89 | 36.16 | 7.46 | 42.11 | 9.24 | 45.00 | 10.21 | 47.89 | 11.21 | 49.50 | 11.53 | 50.63 | 11.63 |
| | 29 | 30.38 | 6.26 | 36.16 | 7.96 | 42.11 | 9.87 | 45.00 | 10.90 | 47.73 | 11.90 | 48.86 | 12.01 | 49.98 | 12.10 |
| | 31 | 30.38 | 6.67 | 36.16 | 8.49 | 42.11 | 10.53 | 45.00 | 11.63 | 47.09 | 12.37 | 48.06 | 12.47 | 49.18 | 12.58 |
| | 33 | 30.38 | 7.08 | 36.16 | 9.05 | 42.11 | 11.22 | 45.00 | 12.42 | 46.29 | 12.83 | 47.41 | 12.94 | 48.54 | 13.06 |
| | 35 | 30.38 | 7.53 | 36.16 | 9.62 | 42.11 | 11.97 | 45.00 | 13.24 | 45.48 | 13.29 | 46.61 | 13.42 | 47.73 | 13.53 |
| | 37 | 30.38 | 8.01 | 36.16 | 10.24 | 42.11 | 12.76 | 44.19 | 13.70 | 44.84 | 13.77 | 45.96 | 13.90 | 46.93 | 14.01 |
| | 39 | 30.38 | 8.51 | 36.16 | 10.88 | 42.11 | 13.58 | 43.55 | 14.17 | 44.03 | 14.24 | 45.16 | 14.36 | 46.29 | 14.51 |
| | 41 | 30.38 | 8.91 | 36.16 | 11.28 | 42.11 | 14.08 | 42.88 | 14.27 | 43.70 | 14.46 | 44.38 | 14.70 | 45.61 | 14.80 |
| 43 | 30.38 | 9.31 | 36.16 | 11.68 | 42.11 | 14.34 | 42.20 | 14.43 | 43.38 | 14.60 | 44.64 | 14.80 | 44.81 | 14.97 | |
| 45 | 30.38 | 9.83 | 36.16 | 12.21 | 42.11 | 14.58 | 41.30 | 14.63 | 43.16 | 14.86 | 44.26 | 15.03 | 43.91 | 15.17 | |
| 48 | 31.46 | 10.27 | 37.45 | 12.64 | 43.61 | 14.60 | 41.01 | 14.80 | 44.63 | 15.13 | 43.05 | 15.18 | 44.48 | 15.31 | |

Cooling capacity table

MVUR450B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|---------------|-------|---------------|-------|-------------|-------|---------------|-------|---------------|-------|-------------|-------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 27.32 | 3.68 | 32.63 | 4.41 | 37.93 | 5.20 | 40.50 | 5.68 | 43.07 | 6.04 | 48.37 | 6.95 | 53.68 | 7.95 |
| | -2 | 27.32 | 3.71 | 32.63 | 4.46 | 37.93 | 5.27 | 40.50 | 5.76 | 43.07 | 6.11 | 48.37 | 7.01 | 53.68 | 8.03 |
| | 0 | 27.32 | 3.77 | 32.63 | 4.51 | 37.93 | 5.35 | 40.50 | 5.83 | 43.07 | 6.19 | 48.37 | 7.09 | 53.68 | 8.09 |
| | 2 | 27.32 | 3.82 | 32.63 | 4.57 | 37.93 | 5.41 | 40.50 | 5.92 | 43.07 | 6.29 | 48.37 | 7.24 | 53.68 | 8.21 |
| | 4 | 27.32 | 3.88 | 32.63 | 4.64 | 37.93 | 5.50 | 40.50 | 6.00 | 43.07 | 6.37 | 48.37 | 7.35 | 53.68 | 8.33 |
| | 6 | 27.32 | 3.93 | 32.63 | 4.73 | 37.93 | 5.60 | 40.50 | 6.11 | 43.07 | 6.48 | 48.37 | 7.47 | 53.68 | 8.47 |
| | 8 | 27.32 | 4.01 | 32.63 | 4.82 | 37.93 | 5.71 | 40.50 | 6.19 | 43.07 | 6.59 | 48.37 | 7.61 | 53.68 | 8.55 |
| | 10 | 27.32 | 4.09 | 32.63 | 4.92 | 37.93 | 5.82 | 40.50 | 6.28 | 43.07 | 6.74 | 48.37 | 7.70 | 53.68 | 8.69 |
| | 12 | 27.32 | 4.16 | 32.63 | 5.01 | 37.93 | 5.92 | 40.50 | 6.39 | 43.07 | 6.87 | 48.37 | 7.85 | 53.68 | 8.85 |
| | 14 | 27.32 | 4.23 | 32.63 | 5.10 | 37.93 | 6.03 | 40.50 | 6.51 | 43.07 | 6.99 | 48.37 | 7.99 | 53.68 | 9.01 |
| | 16 | 27.32 | 4.30 | 32.63 | 5.19 | 37.93 | 6.16 | 40.50 | 6.64 | 43.07 | 7.14 | 48.37 | 8.15 | 53.52 | 9.17 |
| | 18 | 27.32 | 4.37 | 32.63 | 5.30 | 37.93 | 6.26 | 40.50 | 6.76 | 43.07 | 7.28 | 48.37 | 8.31 | 52.88 | 9.46 |
| | 20 | 27.32 | 4.46 | 32.63 | 5.42 | 37.93 | 6.39 | 40.50 | 6.91 | 43.07 | 7.55 | 48.37 | 8.94 | 52.07 | 9.90 |
| | 21 | 27.32 | 4.50 | 32.63 | 5.46 | 37.93 | 6.49 | 40.50 | 7.14 | 43.07 | 7.82 | 48.37 | 9.26 | 51.75 | 10.13 |
| | 23 | 27.32 | 4.59 | 32.63 | 5.67 | 37.93 | 6.96 | 40.50 | 7.66 | 43.07 | 8.39 | 48.37 | 9.94 | 50.94 | 10.60 |
| | 25 | 27.32 | 4.83 | 32.63 | 6.07 | 37.93 | 7.44 | 40.50 | 8.19 | 43.07 | 8.96 | 48.37 | 10.63 | 50.31 | 11.06 |
| | 27 | 27.32 | 5.14 | 32.63 | 6.46 | 37.93 | 7.94 | 40.50 | 8.74 | 43.07 | 9.58 | 48.37 | 11.38 | 49.50 | 11.53 |
| | 29 | 27.32 | 5.48 | 32.63 | 6.89 | 37.93 | 8.48 | 40.50 | 9.33 | 43.07 | 10.24 | 47.89 | 11.90 | 48.86 | 11.99 |
| | 31 | 27.32 | 5.82 | 32.63 | 7.33 | 37.93 | 9.03 | 40.50 | 9.96 | 43.07 | 10.92 | 47.09 | 12.37 | 48.05 | 12.47 |
| | 33 | 27.32 | 6.17 | 32.63 | 7.80 | 37.93 | 9.63 | 40.50 | 10.62 | 43.07 | 11.65 | 46.45 | 12.85 | 47.41 | 12.94 |
| 35 | 27.32 | 6.57 | 32.63 | 8.30 | 37.93 | 10.26 | 40.50 | 11.31 | 43.07 | 12.42 | 45.64 | 13.31 | 46.61 | 13.42 | |
| 37 | 27.32 | 6.96 | 32.63 | 8.81 | 37.93 | 10.92 | 40.50 | 12.04 | 43.07 | 13.24 | 44.84 | 13.77 | 45.96 | 13.88 | |
| 39 | 27.32 | 7.39 | 32.63 | 9.39 | 37.93 | 11.62 | 40.50 | 12.83 | 43.07 | 14.10 | 44.20 | 14.26 | 45.16 | 14.36 | |
| 41 | 27.32 | 7.64 | 32.63 | 9.81 | 37.93 | 12.04 | 40.50 | 13.17 | 43.07 | 14.18 | 43.89 | 14.62 | 44.86 | 14.70 | |
| 43 | 27.32 | 8.01 | 32.63 | 10.23 | 37.93 | 12.46 | 40.50 | 13.51 | 43.07 | 14.48 | 43.66 | 14.81 | 44.47 | 14.93 | |
| 45 | 27.32 | 8.52 | 32.63 | 10.74 | 37.93 | 12.97 | 40.50 | 13.96 | 43.07 | 14.89 | 43.42 | 14.96 | 43.79 | 15.13 | |
| 48 | 27.32 | 8.99 | 32.63 | 11.24 | 37.93 | 13.46 | 40.50 | 14.14 | 43.07 | 15.01 | 47.84 | 15.17 | 47.34 | 15.33 | |
| 80% | -5 | 24.27 | 3.24 | 28.93 | 3.83 | 33.59 | 4.54 | 36.00 | 4.82 | 38.41 | 5.19 | 43.07 | 6.00 | 47.73 | 6.85 |
| | -2 | 24.27 | 3.29 | 28.93 | 3.88 | 33.59 | 4.57 | 36.00 | 4.90 | 38.41 | 5.24 | 43.07 | 6.06 | 47.73 | 6.92 |
| | 0 | 24.27 | 3.34 | 28.93 | 3.93 | 33.59 | 4.63 | 36.00 | 4.95 | 38.41 | 5.34 | 43.07 | 6.15 | 47.73 | 7.01 |
| | 2 | 24.27 | 3.41 | 28.93 | 3.98 | 33.59 | 4.70 | 36.00 | 5.05 | 38.41 | 5.43 | 43.07 | 6.27 | 47.73 | 7.15 |
| | 4 | 24.27 | 3.47 | 28.93 | 4.05 | 33.59 | 4.79 | 36.00 | 5.16 | 38.41 | 5.53 | 43.07 | 6.38 | 47.73 | 7.24 |
| | 6 | 24.27 | 3.53 | 28.93 | 4.15 | 33.59 | 4.86 | 36.00 | 5.28 | 38.41 | 5.63 | 43.07 | 6.48 | 47.73 | 7.37 |
| | 8 | 24.27 | 3.59 | 28.93 | 4.24 | 33.59 | 4.97 | 36.00 | 5.36 | 38.41 | 5.76 | 43.07 | 6.57 | 47.73 | 7.51 |
| | 10 | 24.27 | 3.62 | 28.93 | 4.34 | 33.59 | 5.10 | 36.00 | 5.50 | 38.41 | 5.89 | 43.07 | 6.73 | 47.73 | 7.58 |
| | 12 | 24.27 | 3.68 | 28.93 | 4.41 | 33.59 | 5.19 | 36.00 | 5.60 | 38.41 | 6.01 | 43.07 | 6.85 | 47.73 | 7.73 |
| | 14 | 24.27 | 3.75 | 28.93 | 4.50 | 33.59 | 5.28 | 36.00 | 5.69 | 38.41 | 6.12 | 43.07 | 6.98 | 47.73 | 7.87 |
| | 16 | 24.27 | 3.80 | 28.93 | 4.57 | 33.59 | 5.39 | 36.00 | 5.80 | 38.41 | 6.23 | 43.07 | 7.12 | 47.73 | 8.01 |
| | 18 | 24.27 | 3.87 | 28.93 | 4.66 | 33.59 | 5.50 | 36.00 | 5.92 | 38.41 | 6.35 | 43.07 | 7.26 | 47.73 | 8.17 |
| | 20 | 24.27 | 3.94 | 28.93 | 4.75 | 33.59 | 5.60 | 36.00 | 6.03 | 38.41 | 6.48 | 43.07 | 7.53 | 47.73 | 8.74 |
| | 21 | 24.27 | 3.98 | 28.93 | 4.78 | 33.59 | 5.66 | 36.00 | 6.10 | 38.41 | 6.62 | 43.07 | 7.80 | 47.73 | 9.06 |
| | 23 | 24.27 | 4.05 | 28.93 | 4.89 | 33.59 | 5.92 | 36.00 | 6.49 | 38.41 | 7.08 | 43.07 | 8.35 | 47.73 | 9.73 |
| | 25 | 24.27 | 4.18 | 28.93 | 5.19 | 33.59 | 6.33 | 36.00 | 6.94 | 38.41 | 7.57 | 43.07 | 8.94 | 47.73 | 10.40 |
| | 27 | 24.27 | 4.44 | 28.93 | 5.53 | 33.59 | 6.75 | 36.00 | 7.41 | 38.41 | 8.08 | 43.07 | 9.55 | 47.73 | 11.13 |
| | 29 | 24.27 | 4.73 | 28.93 | 5.89 | 33.59 | 7.19 | 36.00 | 7.89 | 38.41 | 8.64 | 43.07 | 10.19 | 47.73 | 11.90 |
| | 31 | 24.27 | 5.01 | 28.93 | 6.26 | 33.59 | 7.66 | 36.00 | 8.40 | 38.41 | 9.21 | 43.07 | 10.88 | 46.93 | 12.37 |
| | 33 | 24.27 | 5.34 | 28.93 | 6.66 | 33.59 | 8.15 | 36.00 | 8.96 | 38.41 | 9.80 | 43.07 | 11.60 | 46.29 | 12.83 |
| 35 | 24.27 | 5.66 | 28.93 | 7.08 | 33.59 | 8.67 | 36.00 | 9.53 | 38.41 | 10.44 | 43.07 | 12.37 | 45.48 | 13.29 | |
| 37 | 24.27 | 6.00 | 28.93 | 7.51 | 33.59 | 9.23 | 36.00 | 10.15 | 38.41 | 11.12 | 43.07 | 13.19 | 44.84 | 13.76 | |
| 39 | 24.27 | 6.35 | 28.93 | 8.01 | 33.59 | 9.81 | 36.00 | 10.80 | 38.41 | 11.83 | 43.07 | 14.04 | 44.04 | 14.24 | |
| 41 | 24.27 | 6.50 | 28.93 | 8.08 | 33.59 | 9.96 | 36.00 | 11.08 | 38.41 | 12.05 | 43.07 | 14.40 | 43.77 | 14.49 | |
| 43 | 24.27 | 6.69 | 28.93 | 8.15 | 33.59 | 10.10 | 36.00 | 11.27 | 38.41 | 12.21 | 43.07 | 14.57 | 43.50 | 14.65 | |
| 45 | 24.27 | 6.88 | 28.93 | 8.25 | 33.59 | 10.30 | 36.00 | 11.51 | 38.41 | 12.42 | 43.07 | 14.73 | 42.96 | 14.89 | |
| 48 | 24.27 | 7.10 | 28.93 | 8.31 | 37.79 | 10.46 | 36.00 | 11.67 | 38.41 | 12.53 | 43.07 | 14.87 | 47.92 | 15.09 | |

Cooling capacity table

MVUR450B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|-------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 21.22 | 2.89 | 25.39 | 3.39 | 29.41 | 3.84 | 31.50 | 4.12 | 33.59 | 4.40 | 37.61 | 5.03 | 41.78 | 5.78 |
| | -2 | 21.22 | 2.92 | 25.39 | 3.41 | 29.41 | 3.87 | 31.50 | 4.20 | 33.59 | 4.48 | 37.61 | 5.11 | 41.78 | 5.86 |
| | 0 | 21.22 | 2.93 | 25.39 | 3.45 | 29.41 | 3.95 | 31.50 | 4.28 | 33.59 | 4.56 | 37.61 | 5.21 | 41.78 | 5.94 |
| | 2 | 21.22 | 2.95 | 25.39 | 3.47 | 29.41 | 4.01 | 31.50 | 4.36 | 33.59 | 4.63 | 37.61 | 5.32 | 41.78 | 6.04 |
| | 4 | 21.22 | 2.99 | 25.39 | 3.56 | 29.41 | 4.10 | 31.50 | 4.44 | 33.59 | 4.74 | 37.61 | 5.41 | 41.78 | 6.18 |
| | 6 | 21.22 | 3.03 | 25.39 | 3.62 | 29.41 | 4.20 | 31.50 | 4.58 | 33.59 | 4.85 | 37.61 | 5.51 | 41.78 | 6.30 |
| | 8 | 21.22 | 3.09 | 25.39 | 3.72 | 29.41 | 4.29 | 31.50 | 4.65 | 33.59 | 4.95 | 37.61 | 5.66 | 41.78 | 6.42 |
| | 10 | 21.22 | 3.15 | 25.39 | 3.78 | 29.41 | 4.41 | 31.50 | 4.75 | 33.59 | 5.09 | 37.61 | 5.78 | 41.78 | 6.50 |
| | 12 | 21.22 | 3.23 | 25.39 | 3.84 | 29.41 | 4.50 | 31.50 | 4.84 | 33.59 | 5.18 | 37.61 | 5.89 | 41.78 | 6.62 |
| | 14 | 21.22 | 3.28 | 25.39 | 3.91 | 29.41 | 4.57 | 31.50 | 4.91 | 33.59 | 5.26 | 37.61 | 6.00 | 41.78 | 6.75 |
| | 16 | 21.22 | 3.34 | 25.39 | 3.98 | 29.41 | 4.66 | 31.50 | 5.01 | 33.59 | 5.37 | 37.61 | 6.10 | 41.78 | 6.87 |
| | 18 | 21.22 | 3.39 | 25.39 | 4.05 | 29.41 | 4.75 | 31.50 | 5.10 | 33.59 | 5.46 | 37.61 | 6.23 | 41.78 | 7.01 |
| | 20 | 21.22 | 3.44 | 25.39 | 4.12 | 29.41 | 4.84 | 31.50 | 5.19 | 33.59 | 5.57 | 37.61 | 6.35 | 41.78 | 7.21 |
| | 21 | 21.22 | 3.48 | 25.39 | 4.16 | 29.41 | 4.87 | 31.50 | 5.25 | 33.59 | 5.62 | 37.61 | 6.44 | 41.78 | 7.46 |
| | 23 | 21.22 | 3.53 | 25.39 | 4.23 | 29.41 | 4.98 | 31.50 | 5.42 | 33.59 | 5.91 | 37.61 | 6.91 | 41.78 | 7.99 |
| | 25 | 21.22 | 3.60 | 25.39 | 4.41 | 29.41 | 5.30 | 31.50 | 5.80 | 33.59 | 6.30 | 37.61 | 7.39 | 41.78 | 8.55 |
| | 27 | 21.22 | 3.82 | 25.39 | 4.69 | 29.41 | 5.66 | 31.50 | 6.17 | 33.59 | 6.73 | 37.61 | 7.89 | 41.78 | 9.14 |
| | 29 | 21.22 | 4.05 | 25.39 | 4.98 | 29.41 | 6.01 | 31.50 | 6.58 | 33.59 | 7.16 | 37.61 | 8.40 | 41.78 | 9.76 |
| | 31 | 21.22 | 4.28 | 25.39 | 5.28 | 29.41 | 6.41 | 31.50 | 7.00 | 33.59 | 7.62 | 37.61 | 8.96 | 41.78 | 10.40 |
| | 33 | 21.22 | 4.55 | 25.39 | 5.62 | 29.41 | 6.82 | 31.50 | 7.44 | 33.59 | 8.12 | 37.61 | 9.55 | 41.78 | 11.10 |
| 35 | 21.22 | 4.82 | 25.39 | 5.96 | 29.41 | 7.23 | 31.50 | 7.92 | 33.59 | 8.64 | 37.61 | 10.17 | 41.78 | 11.83 | |
| 37 | 21.22 | 5.09 | 25.39 | 6.32 | 29.41 | 7.69 | 31.50 | 8.40 | 33.59 | 9.19 | 37.61 | 10.83 | 41.78 | 12.60 | |
| 39 | 21.22 | 5.39 | 25.39 | 6.69 | 29.41 | 8.15 | 31.50 | 8.94 | 33.59 | 9.76 | 37.61 | 11.51 | 41.78 | 13.42 | |
| 41 | 21.22 | 5.63 | 25.39 | 6.93 | 29.41 | 8.39 | 31.50 | 9.24 | 33.59 | 10.06 | 37.61 | 11.98 | 41.78 | 14.01 | |
| 43 | 21.22 | 6.08 | 25.39 | 7.40 | 29.41 | 8.74 | 31.50 | 9.73 | 33.59 | 10.36 | 37.61 | 12.42 | 41.78 | 14.45 | |
| 45 | 21.22 | 6.22 | 25.39 | 7.56 | 29.41 | 8.92 | 31.50 | 9.89 | 33.59 | 10.87 | 37.61 | 13.09 | 41.78 | 15.00 | |
| 48 | 21.22 | 6.38 | 25.39 | 7.63 | 29.41 | 9.01 | 31.50 | 10.05 | 33.59 | 11.17 | 37.61 | 13.68 | 41.78 | 15.36 | |
| 60% | -5 | 18.16 | 2.47 | 21.70 | 2.86 | 25.23 | 3.33 | 27.00 | 3.55 | 28.77 | 3.84 | 32.30 | 4.31 | 35.84 | 4.94 |
| | -2 | 18.16 | 2.48 | 21.70 | 2.91 | 25.23 | 3.40 | 27.00 | 3.60 | 28.77 | 3.88 | 32.30 | 4.37 | 35.84 | 4.97 |
| | 0 | 18.16 | 2.52 | 21.70 | 2.94 | 25.23 | 3.44 | 27.00 | 3.65 | 28.77 | 3.94 | 32.30 | 4.44 | 35.84 | 5.04 |
| | 2 | 18.16 | 2.56 | 21.70 | 3.01 | 25.23 | 3.50 | 27.00 | 3.72 | 28.77 | 3.99 | 32.30 | 4.53 | 35.84 | 5.10 |
| | 4 | 18.16 | 2.64 | 21.70 | 3.07 | 25.23 | 3.57 | 27.00 | 3.77 | 28.77 | 4.05 | 32.30 | 4.60 | 35.84 | 5.17 |
| | 6 | 18.16 | 2.66 | 21.70 | 3.13 | 25.23 | 3.64 | 27.00 | 3.85 | 28.77 | 4.13 | 32.30 | 4.69 | 35.84 | 5.30 |
| | 8 | 18.16 | 2.71 | 21.70 | 3.18 | 25.23 | 3.71 | 27.00 | 3.92 | 28.77 | 4.22 | 32.30 | 4.78 | 35.84 | 5.38 |
| | 10 | 18.16 | 2.77 | 21.70 | 3.25 | 25.23 | 3.76 | 27.00 | 4.03 | 28.77 | 4.30 | 32.30 | 4.87 | 35.84 | 5.46 |
| | 12 | 18.16 | 2.82 | 21.70 | 3.30 | 25.23 | 3.84 | 27.00 | 4.10 | 28.77 | 4.37 | 32.30 | 4.96 | 35.84 | 5.55 |
| | 14 | 18.16 | 2.85 | 21.70 | 3.35 | 25.23 | 3.89 | 27.00 | 4.17 | 28.77 | 4.46 | 32.30 | 5.05 | 35.84 | 5.66 |
| | 16 | 18.16 | 2.89 | 21.70 | 3.41 | 25.23 | 3.96 | 27.00 | 4.25 | 28.77 | 4.53 | 32.30 | 5.14 | 35.84 | 5.76 |
| | 18 | 18.16 | 2.94 | 21.70 | 3.46 | 25.23 | 4.03 | 27.00 | 4.32 | 28.77 | 4.62 | 32.30 | 5.23 | 35.84 | 5.87 |
| | 20 | 18.16 | 2.98 | 21.70 | 3.53 | 25.23 | 4.10 | 27.00 | 4.41 | 28.77 | 4.71 | 32.30 | 5.33 | 35.84 | 5.99 |
| | 21 | 18.16 | 3.02 | 21.70 | 3.55 | 25.23 | 4.14 | 27.00 | 4.44 | 28.77 | 4.75 | 32.30 | 5.39 | 35.84 | 6.05 |
| | 23 | 18.16 | 3.05 | 21.70 | 3.62 | 25.23 | 4.21 | 27.00 | 4.53 | 28.77 | 4.83 | 32.30 | 5.60 | 35.84 | 6.44 |
| | 25 | 18.16 | 3.10 | 21.70 | 3.68 | 25.23 | 4.37 | 27.00 | 4.75 | 28.77 | 5.14 | 32.30 | 5.98 | 35.84 | 6.87 |
| | 27 | 18.16 | 3.23 | 21.70 | 3.91 | 25.23 | 4.66 | 27.00 | 5.07 | 28.77 | 5.48 | 32.30 | 6.37 | 35.84 | 7.33 |
| | 29 | 18.16 | 3.41 | 21.70 | 4.14 | 25.23 | 4.96 | 27.00 | 5.39 | 28.77 | 5.83 | 32.30 | 6.80 | 35.84 | 7.83 |
| | 31 | 18.16 | 3.62 | 21.70 | 4.39 | 25.23 | 5.26 | 27.00 | 5.73 | 28.77 | 6.21 | 32.30 | 7.23 | 35.84 | 8.33 |
| | 33 | 18.16 | 3.82 | 21.70 | 4.66 | 25.23 | 5.58 | 27.00 | 6.08 | 28.77 | 6.60 | 32.30 | 7.69 | 35.84 | 8.88 |
| 35 | 18.16 | 4.05 | 21.70 | 4.94 | 25.23 | 5.92 | 27.00 | 6.46 | 28.77 | 7.01 | 32.30 | 8.19 | 35.84 | 9.46 | |
| 37 | 18.16 | 4.28 | 21.70 | 5.23 | 25.23 | 6.28 | 27.00 | 6.85 | 28.77 | 7.44 | 32.30 | 8.71 | 35.84 | 10.06 | |
| 39 | 18.16 | 4.51 | 21.70 | 5.53 | 25.23 | 6.65 | 27.00 | 7.26 | 28.77 | 7.90 | 32.30 | 9.24 | 35.84 | 10.70 | |
| 41 | 18.16 | 4.66 | 21.70 | 5.77 | 25.23 | 6.90 | 27.00 | 7.55 | 28.77 | 8.19 | 32.30 | 9.68 | 35.84 | 11.19 | |
| 43 | 18.16 | 4.80 | 21.70 | 6.01 | 25.23 | 7.14 | 27.00 | 7.78 | 28.77 | 8.48 | 32.30 | 10.09 | 35.84 | 11.67 | |
| 45 | 18.16 | 5.03 | 21.70 | 6.32 | 25.23 | 7.43 | 27.00 | 8.07 | 28.77 | 8.90 | 32.30 | 10.54 | 35.84 | 12.32 | |
| 48 | 18.16 | 5.22 | 21.70 | 6.60 | 25.23 | 7.68 | 27.00 | 8.28 | 28.77 | 9.24 | 32.30 | 10.93 | 35.84 | 12.90 | |

Cooling capacity table

MVUR450B-VA3

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

| Combination (%) | Outdoor temperature (°C DB) | Indoor temperature(°C) | | | | | | | | | | | | | |
|-----------------|-----------------------------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|------------------|-------|------------------|-------|----------------|------|
| | | DB:20.8 WB:14 | | DB:23.3 WB:16 | | DB:25.8 WB:18 | | DB:27 WB:19 | | DB:28.2 WB:20 | | DB:30.7 WB:22 | | DB:32 WB:24 | |
| | | 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 | 15.19 | 2.14 | 18.16 | 2.48 | 21.05 | 2.85 | 22.50 | 2.98 | 23.95 | 3.14 | 26.84 | 3.58 | 29.89 | 3.85 |
| | -2 | 15.19 | 2.16 | 18.16 | 2.53 | 21.05 | 2.88 | 22.50 | 3.02 | 23.95 | 3.20 | 26.84 | 3.62 | 29.89 | 3.91 |
| | 0 | 15.19 | 2.19 | 18.16 | 2.57 | 21.05 | 2.93 | 22.50 | 3.06 | 23.95 | 3.24 | 26.84 | 3.68 | 29.89 | 3.97 |
| | 2 | 15.19 | 2.22 | 18.16 | 2.60 | 21.05 | 2.98 | 22.50 | 3.11 | 23.95 | 3.29 | 26.84 | 3.70 | 29.89 | 4.05 |
| | 4 | 15.19 | 2.25 | 18.16 | 2.65 | 21.05 | 3.01 | 22.50 | 3.14 | 23.95 | 3.36 | 26.84 | 3.79 | 29.89 | 4.15 |
| | 6 | 15.19 | 2.29 | 18.16 | 2.69 | 21.05 | 3.06 | 22.50 | 3.22 | 23.95 | 3.42 | 26.84 | 3.85 | 29.89 | 4.28 |
| | 8 | 15.19 | 2.34 | 18.16 | 2.73 | 21.05 | 3.11 | 22.50 | 3.29 | 23.95 | 3.47 | 26.84 | 3.91 | 29.89 | 4.41 |
| | 10 | 15.19 | 2.39 | 18.16 | 2.77 | 21.05 | 3.16 | 22.50 | 3.34 | 23.95 | 3.57 | 26.84 | 4.01 | 29.89 | 4.48 |
| | 12 | 15.19 | 2.41 | 18.16 | 2.80 | 21.05 | 3.21 | 22.50 | 3.41 | 23.95 | 3.64 | 26.84 | 4.09 | 29.89 | 4.55 |
| | 14 | 15.19 | 2.44 | 18.16 | 2.84 | 21.05 | 3.25 | 22.50 | 3.48 | 23.95 | 3.69 | 26.84 | 4.16 | 29.89 | 4.64 |
| | 16 | 15.19 | 2.48 | 18.16 | 2.87 | 21.05 | 3.30 | 22.50 | 3.53 | 23.95 | 3.75 | 26.84 | 4.23 | 29.89 | 4.71 |
| | 18 | 15.19 | 2.52 | 18.16 | 2.93 | 21.05 | 3.35 | 22.50 | 3.59 | 23.95 | 3.82 | 26.84 | 4.30 | 29.89 | 4.80 |
| | 20 | 15.19 | 2.55 | 18.16 | 2.96 | 21.05 | 3.41 | 22.50 | 3.64 | 23.95 | 3.89 | 26.84 | 4.37 | 29.89 | 4.89 |
| | 21 | 15.19 | 2.57 | 18.16 | 3.00 | 21.05 | 3.44 | 22.50 | 3.68 | 23.95 | 3.93 | 26.84 | 4.42 | 29.89 | 4.94 |
| | 23 | 15.19 | 2.60 | 18.16 | 3.03 | 21.05 | 3.50 | 22.50 | 3.75 | 23.95 | 4.00 | 26.84 | 4.50 | 29.89 | 5.05 |
| | 25 | 15.19 | 2.64 | 18.16 | 3.09 | 21.05 | 3.57 | 22.50 | 3.82 | 23.95 | 4.12 | 26.84 | 4.73 | 29.89 | 5.39 |
| | 27 | 15.19 | 2.69 | 18.16 | 3.21 | 21.05 | 3.76 | 22.50 | 4.07 | 23.95 | 4.37 | 26.84 | 5.03 | 29.89 | 5.75 |
| | 29 | 15.19 | 2.84 | 18.16 | 3.39 | 21.05 | 4.00 | 22.50 | 4.32 | 23.95 | 4.66 | 26.84 | 5.35 | 29.89 | 6.12 |
| | 31 | 15.19 | 3.00 | 18.16 | 3.59 | 21.05 | 4.23 | 22.50 | 4.59 | 23.95 | 4.94 | 26.84 | 5.69 | 29.89 | 6.51 |
| | 33 | 15.19 | 3.18 | 18.16 | 3.80 | 21.05 | 4.50 | 22.50 | 4.85 | 23.95 | 5.25 | 26.84 | 6.05 | 29.89 | 6.92 |
| 35 | 15.19 | 3.35 | 18.16 | 4.01 | 21.05 | 4.75 | 22.50 | 5.14 | 23.95 | 5.55 | 26.84 | 6.42 | 29.89 | 7.35 | |
| 37 | 15.19 | 3.53 | 18.16 | 4.25 | 21.05 | 5.03 | 22.50 | 5.44 | 23.95 | 5.89 | 26.84 | 6.82 | 29.89 | 7.81 | |
| 39 | 15.19 | 3.73 | 18.16 | 4.48 | 21.05 | 5.32 | 22.50 | 5.76 | 23.95 | 6.24 | 26.84 | 7.23 | 29.89 | 8.30 | |
| 41 | 15.19 | 3.88 | 18.16 | 4.67 | 21.05 | 5.51 | 22.50 | 6.03 | 23.95 | 6.51 | 26.84 | 7.61 | 29.89 | 8.68 | |
| 43 | 15.19 | 4.14 | 18.16 | 4.99 | 21.05 | 5.70 | 22.50 | 6.30 | 23.95 | 6.68 | 26.84 | 8.00 | 29.89 | 9.07 | |
| 45 | 15.19 | 4.23 | 18.16 | 5.12 | 21.05 | 6.09 | 22.50 | 6.79 | 23.95 | 6.96 | 26.84 | 8.77 | 29.89 | 9.84 | |
| 48 | 15.19 | 4.33 | 18.16 | 5.26 | 21.05 | 6.45 | 22.50 | 7.22 | 23.95 | 7.27 | 26.84 | 9.47 | 29.89 | 10.59 | |

7.2 Heating capacity tables

MVUR252B-VA3

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

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 130% | -19.8 | -20 | 17.48 | 4.24 | 17.40 | 4.54 | 17.32 | 4.84 | 17.32 | 4.99 | 17.23 | 5.14 | 17.23 | 5.44 |
| | -18.8 | -19 | 17.74 | 4.33 | 17.66 | 4.63 | 17.66 | 4.92 | 17.57 | 5.07 | 17.57 | 5.21 | 17.48 | 5.51 |
| | -16.7 | -17 | 18.43 | 4.54 | 18.34 | 4.82 | 18.26 | 5.10 | 18.26 | 5.24 | 18.26 | 5.38 | 18.17 | 5.67 |
| | -13.7 | -15 | 19.20 | 4.75 | 19.12 | 5.02 | 19.03 | 5.29 | 19.03 | 5.42 | 18.94 | 5.56 | 18.94 | 5.84 |
| | -11.8 | -13 | 19.97 | 4.96 | 19.97 | 5.22 | 19.89 | 5.48 | 19.80 | 5.61 | 19.80 | 5.74 | 19.71 | 6.00 |
| | -9.8 | -11 | 20.92 | 5.17 | 20.83 | 5.42 | 20.74 | 5.67 | 20.74 | 5.80 | 20.74 | 5.92 | 20.66 | 6.17 |
| | -9.5 | -10 | 21.43 | 5.28 | 21.34 | 5.52 | 21.26 | 5.77 | 21.26 | 5.89 | 21.17 | 6.01 | 21.17 | 6.25 |
| | -8.5 | -9.1 | 21.86 | 5.38 | 21.77 | 5.61 | 21.77 | 5.85 | 21.69 | 5.97 | 21.69 | 6.09 | 21.60 | 6.33 |
| | -7 | -7.6 | 22.63 | 5.53 | 22.63 | 5.77 | 22.54 | 5.99 | 22.54 | 6.11 | 22.46 | 6.22 | 22.37 | 6.45 |
| | -5 | -5.6 | 23.83 | 5.74 | 23.74 | 5.96 | 23.66 | 6.18 | 23.66 | 6.29 | 23.57 | 6.39 | 23.57 | 6.61 |
| | -3 | -3.7 | 24.94 | 5.93 | 24.86 | 6.14 | 24.86 | 6.34 | 24.77 | 6.45 | 24.77 | 6.55 | 24.68 | 6.76 |
| | 0 | -0.7 | 26.91 | 6.22 | 26.91 | 6.41 | 26.83 | 6.60 | 26.83 | 6.67 | 26.74 | 6.79 | 26.74 | 6.98 |
| | 3 | 2.2 | 29.05 | 6.48 | 28.97 | 6.65 | 28.89 | 6.83 | 28.89 | 6.92 | 28.89 | 7.01 | 28.80 | 7.18 |
| | 5 | 4.1 | 30.51 | 6.64 | 30.43 | 6.81 | 30.43 | 6.97 | 30.34 | 7.06 | 30.34 | 7.15 | 30.26 | 7.31 |
| | 7 | 6 | 32.06 | 6.80 | 31.97 | 6.95 | 31.97 | 7.11 | 31.88 | 7.19 | 31.88 | 7.27 | 30.60 | 6.98 |
| 9 | 7.9 | 33.68 | 6.93 | 33.60 | 7.09 | 33.60 | 7.24 | 33.51 | 7.32 | 32.83 | 7.16 | 30.60 | 6.56 | |
| 11 | 9.8 | 35.40 | 7.08 | 35.31 | 7.22 | 35.14 | 7.31 | 33.94 | 7.02 | 32.83 | 6.73 | 30.60 | 6.18 | |
| 13 | 11.8 | 37.28 | 7.21 | 37.20 | 7.35 | 35.14 | 6.85 | 33.94 | 6.58 | 32.83 | 6.32 | 30.60 | 5.80 | |
| 15 | 13.7 | 39.08 | 7.33 | 37.37 | 6.96 | 35.14 | 6.45 | 33.94 | 6.20 | 32.83 | 5.95 | 30.60 | 5.47 | |
| 120% | -19.8 | -20 | 17.40 | 4.64 | 17.31 | 4.92 | 17.23 | 5.20 | 17.23 | 5.33 | 17.23 | 5.47 | 17.14 | 5.75 |
| | -18.8 | -19 | 17.66 | 4.73 | 17.57 | 5.00 | 17.57 | 5.28 | 17.49 | 5.41 | 17.49 | 5.55 | 17.40 | 5.82 |
| | -16.7 | -17 | 18.34 | 4.92 | 18.26 | 5.18 | 18.14 | 5.44 | 18.17 | 5.57 | 18.17 | 5.70 | 18.09 | 5.96 |
| | -13.7 | -15 | 19.12 | 5.11 | 19.03 | 5.36 | 18.94 | 5.61 | 18.94 | 5.74 | 18.94 | 5.87 | 18.86 | 6.12 |
| | -11.8 | -13 | 19.89 | 5.31 | 19.89 | 5.55 | 19.80 | 5.79 | 19.80 | 5.91 | 19.72 | 6.03 | 19.72 | 6.27 |
| | -9.8 | -11 | 20.83 | 5.51 | 20.74 | 5.74 | 20.74 | 5.97 | 20.66 | 6.09 | 20.66 | 6.20 | 20.57 | 6.43 |
| | -9.5 | -10 | 21.35 | 5.61 | 21.26 | 5.84 | 21.17 | 6.05 | 21.17 | 6.17 | 21.17 | 6.28 | 21.09 | 6.51 |
| | -8.5 | -9.1 | 21.77 | 5.70 | 21.69 | 5.91 | 21.69 | 6.13 | 21.60 | 6.24 | 21.60 | 6.36 | 21.51 | 6.58 |
| | -7 | -7.6 | 22.54 | 5.84 | 22.54 | 6.05 | 22.46 | 6.26 | 22.46 | 6.37 | 22.37 | 6.48 | 22.37 | 6.69 |
| | -5 | -5.6 | 23.74 | 6.03 | 23.66 | 6.23 | 23.57 | 6.44 | 23.57 | 6.54 | 23.57 | 6.64 | 23.49 | 6.83 |
| | -3 | -3.7 | 24.86 | 6.21 | 24.86 | 6.41 | 24.77 | 6.59 | 24.77 | 6.69 | 24.69 | 6.79 | 24.69 | 6.97 |
| | 0 | -0.7 | 26.83 | 6.48 | 26.83 | 6.65 | 26.74 | 6.83 | 26.74 | 6.92 | 26.66 | 7.00 | 26.66 | 7.18 |
| | 3 | 2.2 | 28.97 | 6.72 | 28.89 | 6.88 | 28.89 | 7.04 | 28.80 | 7.13 | 28.80 | 7.21 | 28.20 | 7.17 |
| | 5 | 4.1 | 30.43 | 6.86 | 30.34 | 7.02 | 30.34 | 7.18 | 30.26 | 7.25 | 30.26 | 7.33 | 28.20 | 6.73 |
| | 7 | 6 | 31.97 | 7.00 | 31.97 | 7.15 | 31.89 | 7.30 | 31.37 | 7.20 | 30.34 | 6.90 | 28.20 | 6.34 |
| 9 | 7.9 | 33.60 | 7.15 | 33.52 | 7.29 | 32.40 | 7.04 | 31.37 | 6.77 | 30.34 | 6.49 | 28.20 | 5.96 | |
| 11 | 9.8 | 35.31 | 7.27 | 34.46 | 7.15 | 32.40 | 6.62 | 31.37 | 6.37 | 30.34 | 6.11 | 28.20 | 5.62 | |
| 13 | 11.8 | 36.60 | 7.20 | 34.46 | 6.70 | 32.40 | 6.21 | 31.37 | 5.98 | 30.34 | 5.74 | 28.20 | 5.28 | |
| 15 | 13.7 | 36.60 | 6.78 | 34.46 | 6.31 | 32.40 | 5.86 | 31.37 | 5.63 | 30.34 | 5.42 | 28.20 | 4.99 | |
| 110% | -19.8 | -20 | 17.31 | 5.05 | 17.23 | 5.30 | 17.14 | 5.56 | 17.14 | 5.68 | 17.15 | 5.81 | 17.06 | 6.06 |
| | -18.8 | -19 | 17.57 | 5.13 | 17.49 | 5.38 | 17.49 | 5.63 | 17.49 | 5.75 | 17.40 | 5.88 | 17.40 | 6.12 |
| | -16.7 | -17 | 18.26 | 5.30 | 18.17 | 5.54 | 18.43 | 5.78 | 18.09 | 5.90 | 18.09 | 6.02 | 18.00 | 6.26 |
| | -13.7 | -15 | 19.03 | 5.48 | 18.95 | 5.71 | 18.86 | 5.94 | 18.86 | 6.05 | 18.86 | 6.17 | 18.77 | 6.40 |
| | -11.8 | -13 | 19.80 | 5.66 | 19.80 | 5.88 | 19.71 | 6.10 | 19.71 | 6.21 | 19.63 | 6.32 | 19.63 | 6.55 |
| | -9.8 | -11 | 20.74 | 5.84 | 20.66 | 6.05 | 20.66 | 6.27 | 20.57 | 6.37 | 20.57 | 6.48 | 20.57 | 6.69 |
| | -9.5 | -10 | 21.26 | 5.94 | 21.17 | 6.14 | 21.08 | 6.35 | 21.08 | 6.45 | 21.08 | 6.55 | 21.00 | 6.76 |
| | -8.5 | -9.1 | 21.69 | 6.02 | 21.60 | 6.22 | 21.60 | 6.42 | 21.51 | 6.52 | 21.51 | 6.62 | 21.51 | 6.04 |
| | -7 | -7.6 | 22.46 | 6.16 | 22.46 | 6.34 | 22.37 | 6.54 | 22.37 | 6.64 | 22.37 | 6.73 | 22.29 | 6.93 |
| | -5 | -5.6 | 23.66 | 6.33 | 23.57 | 6.51 | 23.49 | 6.69 | 23.49 | 6.79 | 23.49 | 6.88 | 23.40 | 7.07 |
| | -3 | -3.7 | 24.77 | 6.49 | 24.77 | 6.66 | 24.69 | 6.84 | 24.69 | 6.93 | 24.60 | 7.01 | 24.60 | 7.19 |
| | 0 | -0.7 | 26.74 | 6.73 | 26.74 | 6.90 | 26.66 | 7.06 | 26.66 | 7.14 | 26.66 | 7.22 | 25.89 | 7.08 |
| | 3 | 2.2 | 28.89 | 6.96 | 28.80 | 7.11 | 28.80 | 7.25 | 28.71 | 7.33 | 27.77 | 7.03 | 25.89 | 6.44 |
| | 5 | 4.1 | 30.34 | 7.09 | 30.34 | 7.24 | 29.74 | 7.17 | 28.71 | 6.88 | 27.77 | 6.61 | 25.89 | 6.06 |
| | 7 | 6 | 31.88 | 7.22 | 31.63 | 7.27 | 29.74 | 6.73 | 28.71 | 6.47 | 27.77 | 6.21 | 25.89 | 5.70 |
| 9 | 7.9 | 33.51 | 7.34 | 31.63 | 6.83 | 29.74 | 6.33 | 28.71 | 6.09 | 27.77 | 5.84 | 25.89 | 5.38 | |
| 11 | 9.8 | 33.51 | 6.90 | 31.63 | 6.43 | 29.74 | 5.96 | 28.71 | 5.74 | 27.77 | 5.51 | 25.89 | 5.07 | |
| 13 | 11.8 | 33.51 | 6.48 | 31.63 | 6.03 | 29.74 | 5.60 | 28.71 | 5.39 | 27.77 | 5.18 | 25.89 | 4.78 | |
| 15 | 13.7 | 33.51 | 5.75 | 31.63 | 5.69 | 29.74 | 5.29 | 28.71 | 5.09 | 27.77 | 4.90 | 25.89 | 4.52 | |

Heating capacity table

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

MVUR252B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 100% | -19.8 | -20 | 17.23 | 5.45 | 17.14 | 5.68 | 17.14 | 5.91 | 17.06 | 6.03 | 17.06 | 6.14 | 16.97 | 6.37 |
| | -18.8 | -19 | 17.49 | 5.52 | 17.49 | 5.75 | 17.40 | 5.98 | 17.40 | 6.09 | 17.32 | 6.21 | 17.32 | 6.44 |
| | -16.7 | -17 | 18.17 | 5.68 | 18.08 | 5.90 | 18.08 | 6.12 | 18.00 | 6.23 | 18.00 | 6.33 | 18.00 | 6.55 |
| | -13.7 | -15 | 18.94 | 5.84 | 18.86 | 6.05 | 18.77 | 6.27 | 18.77 | 6.37 | 18.77 | 6.48 | 18.69 | 6.69 |
| | -11.8 | -13 | 19.72 | 6.02 | 19.72 | 6.21 | 19.63 | 6.41 | 19.63 | 6.51 | 19.63 | 6.62 | 19.54 | 6.82 |
| | -9.8 | -11 | 20.66 | 6.18 | 20.57 | 6.37 | 20.57 | 6.56 | 20.57 | 6.66 | 20.48 | 6.76 | 20.48 | 6.94 |
| | -9.5 | -10 | 21.17 | 6.27 | 21.09 | 6.45 | 21.09 | 6.64 | 21.00 | 6.73 | 21.00 | 6.83 | 20.91 | 7.01 |
| | -8.5 | -9.1 | 21.60 | 6.33 | 21.51 | 6.52 | 21.51 | 6.70 | 21.51 | 6.80 | 21.43 | 6.89 | 21.43 | 7.07 |
| | -7 | -7.6 | 22.37 | 6.46 | 22.37 | 6.64 | 22.29 | 6.81 | 22.29 | 6.90 | 22.29 | 6.99 | 22.20 | 7.17 |
| | -5 | -5.6 | 23.57 | 6.62 | 23.48 | 6.79 | 23.48 | 6.96 | 23.40 | 7.04 | 23.40 | 7.12 | 23.31 | 7.29 |
| | -3 | -3.7 | 24.69 | 6.77 | 24.69 | 6.15 | 24.60 | 7.09 | 24.60 | 7.17 | 24.60 | 7.25 | 23.57 | 6.94 |
| | 0 | -0.7 | 26.66 | 6.99 | 26.66 | 7.14 | 26.57 | 7.29 | 26.14 | 7.17 | 25.29 | 6.87 | 23.57 | 6.30 |
| | 3 | 2.2 | 28.80 | 7.19 | 28.71 | 7.32 | 27.00 | 6.78 | 26.14 | 6.51 | 25.29 | 6.26 | 23.57 | 5.74 |
| | 5 | 4.1 | 30.26 | 7.32 | 28.71 | 6.88 | 27.00 | 6.37 | 26.14 | 6.13 | 25.29 | 5.89 | 23.57 | 5.42 |
| | 7 | 6 | 30.43 | 6.95 | 28.71 | 6.47 | 27.00 | 6.00 | 26.14 | 5.77 | 25.29 | 5.55 | 23.57 | 5.10 |
| 9 | 7.9 | 30.43 | 6.53 | 28.71 | 6.09 | 27.00 | 5.65 | 26.14 | 5.37 | 25.29 | 5.23 | 23.57 | 4.82 | |
| 11 | 9.8 | 30.43 | 6.15 | 28.71 | 5.73 | 27.00 | 5.33 | 26.14 | 5.13 | 25.29 | 4.93 | 23.57 | 4.55 | |
| 13 | 11.8 | 30.43 | 5.77 | 28.71 | 5.39 | 27.00 | 5.02 | 26.14 | 4.83 | 25.29 | 4.65 | 23.57 | 4.29 | |
| 15 | 13.7 | 30.43 | 5.45 | 28.71 | 5.09 | 27.00 | 4.74 | 26.14 | 4.57 | 25.29 | 4.40 | 23.57 | 4.07 | |
| 90% | -19.8 | -20 | 17.11 | 5.86 | 17.03 | 6.06 | 17.03 | 6.27 | 16.94 | 6.37 | 16.94 | 6.48 | 16.94 | 6.69 |
| | -18.8 | -19 | 17.37 | 5.92 | 17.37 | 6.13 | 17.28 | 6.34 | 17.28 | 6.44 | 17.28 | 6.54 | 17.20 | 6.74 |
| | -16.7 | -17 | 18.05 | 6.07 | 17.97 | 6.27 | 17.97 | 6.46 | 17.97 | 6.56 | 17.88 | 6.65 | 17.88 | 6.85 |
| | -13.7 | -15 | 18.82 | 6.22 | 18.74 | 6.40 | 18.74 | 6.59 | 18.65 | 6.69 | 18.65 | 6.78 | 18.65 | 6.97 |
| | -11.8 | -13 | 19.59 | 6.37 | 19.59 | 6.55 | 19.51 | 6.72 | 19.51 | 6.82 | 19.51 | 6.90 | 19.42 | 7.08 |
| | -9.8 | -11 | 20.54 | 6.51 | 20.54 | 6.69 | 20.45 | 6.86 | 20.45 | 6.94 | 20.45 | 7.04 | 20.36 | 7.21 |
| | -9.5 | -10 | 21.05 | 6.59 | 20.96 | 6.76 | 20.96 | 6.93 | 20.88 | 7.01 | 20.88 | 7.10 | 20.88 | 7.26 |
| | -8.5 | -9.1 | 21.48 | 6.66 | 21.48 | 6.83 | 21.39 | 6.99 | 21.39 | 7.07 | 21.39 | 7.15 | 21.13 | 7.22 |
| | -7 | -7.6 | 22.25 | 6.77 | 22.25 | 6.93 | 22.16 | 7.09 | 22.16 | 7.17 | 22.16 | 7.25 | 21.13 | 6.90 |
| | -5 | -5.6 | 23.44 | 6.92 | 23.36 | 7.07 | 23.36 | 7.22 | 23.27 | 7.29 | 22.67 | 7.07 | 21.13 | 6.48 |
| | -3 | -3.7 | 24.56 | 7.05 | 24.56 | 7.19 | 24.30 | 7.22 | 23.44 | 6.93 | 22.67 | 6.65 | 21.13 | 6.11 |
| | 0 | -0.7 | 26.61 | 7.25 | 25.84 | 7.08 | 24.30 | 6.55 | 23.44 | 6.30 | 22.67 | 6.05 | 21.13 | 5.56 |
| | 3 | 2.2 | 27.38 | 6.91 | 25.84 | 6.44 | 24.30 | 5.97 | 23.44 | 5.74 | 22.67 | 5.52 | 21.13 | 5.08 |
| | 5 | 4.1 | 27.38 | 6.50 | 25.84 | 6.05 | 24.30 | 5.63 | 23.44 | 5.41 | 22.67 | 5.21 | 21.13 | 4.79 |
| | 7 | 6 | 27.38 | 6.11 | 25.84 | 5.70 | 24.30 | 5.30 | 23.44 | 5.10 | 22.67 | 4.91 | 21.13 | 4.53 |
| 9 | 7.9 | 27.38 | 5.76 | 25.84 | 5.37 | 24.30 | 4.99 | 23.44 | 4.82 | 22.67 | 4.64 | 21.13 | 4.28 | |
| 11 | 9.8 | 27.38 | 5.42 | 25.84 | 5.06 | 24.30 | 4.72 | 23.44 | 4.55 | 22.67 | 4.38 | 21.13 | 4.05 | |
| 13 | 11.8 | 27.38 | 5.10 | 25.84 | 4.78 | 24.30 | 4.45 | 23.44 | 4.29 | 22.67 | 4.14 | 21.13 | 3.83 | |
| 15 | 13.7 | 27.38 | 4.82 | 25.84 | 4.51 | 24.30 | 4.22 | 23.44 | 4.07 | 22.67 | 3.92 | 21.13 | 3.63 | |
| 80% | -19.8 | -20 | 17.06 | 6.26 | 16.97 | 6.44 | 16.97 | 6.63 | 16.97 | 6.72 | 16.88 | 6.82 | 16.88 | 7.00 |
| | -18.8 | -19 | 17.31 | 6.32 | 17.31 | 6.51 | 17.23 | 6.69 | 17.23 | 6.78 | 17.23 | 6.86 | 17.14 | 7.05 |
| | -16.7 | -17 | 18.00 | 6.45 | 17.92 | 6.62 | 17.92 | 6.80 | 17.92 | 6.89 | 17.92 | 6.97 | 17.83 | 7.15 |
| | -13.7 | -15 | 18.77 | 6.58 | 18.69 | 6.75 | 18.69 | 6.92 | 18.69 | 7.00 | 18.60 | 7.08 | 18.60 | 7.25 |
| | -11.8 | -13 | 19.54 | 6.72 | 19.54 | 6.88 | 19.46 | 7.04 | 19.46 | 7.11 | 19.46 | 7.20 | 18.86 | 7.01 |
| | -9.8 | -11 | 20.49 | 6.85 | 20.49 | 7.01 | 20.40 | 7.16 | 20.40 | 7.23 | 20.23 | 7.22 | 18.86 | 6.62 |
| | -9.5 | -10 | 21.00 | 6.92 | 20.91 | 7.07 | 20.92 | 7.22 | 20.92 | 7.29 | 20.23 | 7.01 | 18.86 | 6.42 |
| | -8.5 | -9.1 | 21.43 | 6.98 | 19.92 | 7.13 | 21.34 | 7.27 | 20.92 | 7.11 | 20.23 | 6.82 | 18.86 | 6.25 |
| | -7 | -7.6 | 22.20 | 7.08 | 22.20 | 7.22 | 21.60 | 7.07 | 20.92 | 6.79 | 20.23 | 6.51 | 18.86 | 5.98 |
| | -5 | -5.6 | 23.40 | 7.21 | 22.97 | 7.17 | 21.60 | 6.64 | 20.92 | 6.38 | 20.23 | 6.12 | 18.86 | 5.63 |
| | -3 | -3.7 | 24.34 | 7.25 | 22.97 | 6.75 | 21.60 | 6.25 | 20.92 | 6.02 | 20.23 | 5.77 | 18.86 | 5.31 |
| | 0 | -0.7 | 24.34 | 6.58 | 22.97 | 6.12 | 21.60 | 5.69 | 20.92 | 5.48 | 20.23 | 5.26 | 18.86 | 4.85 |
| | 3 | 2.2 | 24.34 | 5.99 | 22.97 | 5.59 | 21.60 | 5.20 | 20.92 | 5.00 | 20.23 | 4.82 | 18.86 | 4.44 |
| | 5 | 4.1 | 24.34 | 5.64 | 22.97 | 5.27 | 21.60 | 4.90 | 20.92 | 4.72 | 20.23 | 4.55 | 18.86 | 4.20 |
| | 7 | 6 | 24.34 | 5.31 | 22.97 | 4.97 | 21.60 | 4.63 | 20.92 | 4.46 | 20.23 | 4.30 | 18.86 | 3.97 |
| 9 | 7.9 | 24.34 | 5.02 | 22.97 | 4.69 | 21.60 | 4.37 | 20.92 | 4.22 | 20.23 | 4.07 | 18.86 | 3.76 | |
| 11 | 9.8 | 24.34 | 4.74 | 22.97 | 4.43 | 21.60 | 4.14 | 20.92 | 3.99 | 20.23 | 3.85 | 18.86 | 3.57 | |
| 13 | 11.8 | 24.34 | 4.46 | 22.97 | 4.18 | 21.60 | 3.91 | 20.92 | 3.77 | 20.23 | 3.64 | 18.86 | 3.37 | |
| 15 | 13.7 | 24.34 | 4.22 | 22.97 | 3.97 | 21.60 | 3.71 | 20.92 | 3.58 | 20.23 | 3.45 | 18.86 | 3.21 | |

Heating capacity table

MVUR252B-VA3

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

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 70% | -19.8 | -20 | 16.93 | 6.67 | 16.85 | 6.83 | 16.85 | 6.99 | 16.85 | 7.07 | 16.85 | 7.15 | 16.42 | 7.07 |
| | -18.8 | -19 | 17.19 | 6.72 | 17.19 | 6.88 | 17.10 | 7.04 | 17.10 | 7.11 | 17.10 | 7.20 | 16.42 | 6.93 |
| | -16.7 | -17 | 17.87 | 6.83 | 17.87 | 6.99 | 17.79 | 7.14 | 17.79 | 7.22 | 17.62 | 6.43 | 16.42 | 6.61 |
| | -13.7 | -15 | 18.64 | 6.95 | 18.56 | 7.10 | 18.56 | 7.25 | 18.22 | 7.14 | 17.62 | 6.85 | 16.42 | 6.28 |
| | -11.8 | -13 | 19.41 | 7.07 | 19.41 | 7.21 | 18.90 | 7.04 | 18.22 | 6.76 | 17.62 | 6.49 | 16.42 | 5.95 |
| | -9.8 | -11 | 20.35 | 7.18 | 20.10 | 7.18 | 18.90 | 6.65 | 18.22 | 6.39 | 17.62 | 6.13 | 16.42 | 5.63 |
| | -9.5 | -10 | 20.87 | 7.25 | 20.10 | 6.97 | 18.90 | 6.45 | 18.22 | 6.20 | 17.62 | 5.96 | 16.42 | 5.48 |
| | -8.5 | -9.1 | 21.29 | 7.29 | 20.10 | 6.78 | 18.90 | 6.28 | 18.22 | 6.04 | 17.62 | 5.80 | 16.42 | 5.34 |
| | -7 | -7.6 | 21.29 | 6.96 | 20.10 | 6.47 | 18.90 | 6.01 | 18.22 | 5.78 | 17.62 | 5.56 | 16.42 | 5.11 |
| | -5 | -5.6 | 21.29 | 6.54 | 20.10 | 6.09 | 18.90 | 5.66 | 18.22 | 5.44 | 17.62 | 6.42 | 16.42 | 4.82 |
| | -3 | -3.7 | 21.29 | 6.16 | 20.10 | 5.74 | 18.90 | 5.34 | 18.22 | 5.13 | 17.62 | 4.94 | 16.42 | 4.56 |
| | 0 | -0.7 | 21.29 | 5.60 | 20.10 | 5.24 | 18.90 | 4.87 | 18.22 | 4.69 | 17.62 | 4.52 | 16.42 | 4.18 |
| | 3 | 2.2 | 21.29 | 5.12 | 20.10 | 4.79 | 18.90 | 4.46 | 18.22 | 4.30 | 17.62 | 4.14 | 16.42 | 3.83 |
| | 5 | 4.1 | 21.29 | 4.83 | 20.10 | 4.52 | 18.90 | 4.22 | 18.22 | 4.07 | 17.62 | 3.92 | 16.42 | 3.63 |
| | 7 | 6 | 21.29 | 4.57 | 20.10 | 4.28 | 18.90 | 3.99 | 18.22 | 3.85 | 17.62 | 3.72 | 16.42 | 3.44 |
| 9 | 7.9 | 21.29 | 4.32 | 20.10 | 4.04 | 18.90 | 3.78 | 18.22 | 3.65 | 17.62 | 3.52 | 16.42 | 3.26 | |
| 11 | 9.8 | 21.29 | 4.08 | 20.10 | 3.83 | 18.90 | 3.58 | 18.22 | 3.46 | 17.62 | 3.34 | 16.42 | 3.10 | |
| 13 | 11.8 | 21.29 | 3.86 | 20.10 | 3.62 | 18.90 | 3.39 | 18.22 | 3.28 | 17.62 | 3.16 | 16.42 | 2.95 | |
| 15 | 13.7 | 21.29 | 3.65 | 20.10 | 3.44 | 18.90 | 3.22 | 18.22 | 3.12 | 17.62 | 3.01 | 16.42 | 2.80 | |
| 60% | -19.8 | -20 | 16.89 | 7.07 | 16.80 | 7.21 | 16.20 | 6.93 | 15.69 | 6.66 | 15.17 | 6.40 | 14.14 | 5.87 |
| | -18.8 | -19 | 17.14 | 7.12 | 17.14 | 7.25 | 16.20 | 6.79 | 15.69 | 6.52 | 15.17 | 6.26 | 14.14 | 5.74 |
| | -16.7 | -17 | 17.83 | 7.21 | 17.23 | 6.99 | 16.20 | 6.47 | 15.69 | 6.23 | 15.17 | 5.98 | 14.14 | 5.49 |
| | -13.7 | -15 | 18.26 | 7.14 | 17.23 | 6.64 | 16.20 | 6.16 | 15.69 | 5.92 | 15.17 | 5.69 | 14.14 | 5.23 |
| | -11.8 | -13 | 18.26 | 6.76 | 17.23 | 6.29 | 16.20 | 5.84 | 15.69 | 5.62 | 15.17 | 5.40 | 14.14 | 4.99 |
| | -9.8 | -11 | 18.26 | 6.38 | 17.23 | 5.95 | 16.20 | 5.52 | 15.69 | 5.31 | 15.17 | 5.11 | 14.14 | 4.71 |
| | -9.5 | -10 | 18.26 | 6.20 | 17.23 | 5.78 | 16.20 | 5.37 | 15.69 | 5.17 | 15.17 | 4.97 | 14.14 | 4.58 |
| | -8.5 | -9.1 | 18.26 | 6.04 | 17.23 | 5.63 | 16.20 | 5.24 | 15.69 | 5.04 | 15.17 | 4.85 | 14.14 | 4.47 |
| | -7 | -7.6 | 18.26 | 5.77 | 17.23 | 5.39 | 16.20 | 5.01 | 15.69 | 4.83 | 15.17 | 4.64 | 14.14 | 4.29 |
| | -5 | -5.6 | 18.26 | 5.44 | 17.23 | 5.08 | 16.20 | 4.73 | 15.69 | 4.56 | 15.17 | 4.39 | 14.14 | 4.06 |
| | -3 | -3.7 | 18.26 | 5.13 | 17.23 | 4.80 | 16.20 | 4.47 | 15.69 | 4.32 | 15.17 | 4.15 | 14.14 | 3.84 |
| | 0 | -0.7 | 18.26 | 4.69 | 17.23 | 4.39 | 16.20 | 4.10 | 15.69 | 3.96 | 15.17 | 3.81 | 14.14 | 3.53 |
| | 3 | 2.2 | 18.26 | 4.30 | 17.23 | 4.04 | 16.20 | 3.77 | 15.69 | 3.64 | 15.17 | 3.51 | 14.14 | 3.26 |
| | 5 | 4.1 | 18.26 | 4.07 | 17.23 | 3.82 | 16.20 | 3.57 | 15.69 | 3.45 | 15.17 | 3.33 | 14.14 | 3.09 |
| | 7 | 6 | 18.26 | 3.85 | 17.23 | 3.62 | 16.20 | 3.38 | 15.69 | 3.27 | 15.17 | 3.16 | 14.14 | 2.94 |
| 9 | 7.9 | 18.26 | 3.65 | 17.23 | 3.43 | 16.20 | 3.21 | 15.69 | 3.11 | 15.17 | 3.00 | 14.14 | 2.80 | |
| 11 | 9.8 | 18.26 | 3.46 | 17.23 | 3.26 | 16.20 | 3.05 | 15.69 | 2.95 | 15.17 | 2.85 | 14.14 | 2.66 | |
| 13 | 11.8 | 18.26 | 3.27 | 17.23 | 3.09 | 16.20 | 2.90 | 15.69 | 2.81 | 15.17 | 2.71 | 14.14 | 2.53 | |
| 15 | 13.7 | 18.26 | 3.12 | 17.23 | 2.93 | 16.20 | 2.76 | 15.69 | 2.67 | 15.17 | 2.59 | 14.14 | 2.42 | |
| 50% | -19.8 | -20 | 15.21 | 6.44 | 14.35 | 5.99 | 13.50 | 5.56 | 12.99 | 5.36 | 12.56 | 5.15 | 11.71 | 4.75 |
| | -18.8 | -19 | 15.21 | 6.30 | 14.35 | 5.87 | 13.50 | 5.45 | 12.99 | 5.24 | 12.56 | 5.04 | 11.71 | 4.65 |
| | -16.7 | -17 | 15.21 | 6.01 | 14.35 | 5.60 | 13.50 | 5.21 | 12.99 | 5.02 | 12.56 | 4.83 | 11.71 | 4.46 |
| | -13.7 | -15 | 15.21 | 5.72 | 14.35 | 5.34 | 13.50 | 4.96 | 12.99 | 4.78 | 12.56 | 4.60 | 11.71 | 4.25 |
| | -11.8 | -13 | 15.21 | 5.43 | 14.35 | 5.07 | 13.50 | 4.72 | 12.99 | 4.55 | 12.56 | 4.38 | 11.71 | 4.05 |
| | -9.8 | -11 | 15.21 | 5.14 | 14.35 | 4.81 | 13.50 | 4.48 | 12.99 | 4.32 | 12.56 | 4.16 | 11.71 | 3.85 |
| | -9.5 | -10 | 15.21 | 5.00 | 14.35 | 4.67 | 13.50 | 4.36 | 12.99 | 4.21 | 12.56 | 4.05 | 11.71 | 3.75 |
| | -8.5 | -9.1 | 15.21 | 4.88 | 14.35 | 4.57 | 13.50 | 4.25 | 12.99 | 4.11 | 12.56 | 3.96 | 11.71 | 3.66 |
| | -7 | -7.6 | 15.21 | 4.67 | 14.35 | 4.38 | 13.50 | 4.08 | 12.99 | 3.94 | 12.56 | 3.80 | 11.71 | 3.52 |
| | -5 | -5.6 | 15.21 | 4.41 | 14.35 | 4.14 | 13.50 | 3.86 | 12.99 | 3.73 | 12.56 | 3.60 | 11.71 | 3.33 |
| | -3 | -3.7 | 15.21 | 4.18 | 14.35 | 3.92 | 13.50 | 3.66 | 12.99 | 3.54 | 12.56 | 3.41 | 11.71 | 3.17 |
| | 0 | -0.7 | 15.21 | 3.83 | 14.35 | 3.60 | 13.50 | 3.37 | 12.99 | 3.26 | 12.56 | 3.15 | 11.71 | 2.93 |
| | 3 | 2.2 | 15.21 | 3.53 | 14.35 | 3.32 | 13.50 | 3.11 | 12.99 | 3.01 | 12.56 | 2.91 | 11.71 | 2.71 |
| | 5 | 4.1 | 15.21 | 3.35 | 14.35 | 3.15 | 13.50 | 2.95 | 12.99 | 2.86 | 12.56 | 2.77 | 11.71 | 2.58 |
| | 7 | 6 | 15.21 | 3.18 | 14.35 | 2.99 | 13.50 | 2.81 | 12.99 | 2.72 | 12.56 | 2.63 | 11.71 | 2.46 |
| 9 | 7.9 | 15.21 | 3.02 | 14.35 | 2.84 | 13.50 | 2.67 | 12.99 | 2.59 | 12.56 | 2.51 | 11.71 | 2.35 | |
| 11 | 9.8 | 15.21 | 2.87 | 14.35 | 2.70 | 13.50 | 2.55 | 12.99 | 2.47 | 12.56 | 2.39 | 11.71 | 2.24 | |
| 13 | 11.8 | 15.21 | 2.73 | 14.35 | 2.57 | 13.50 | 2.42 | 12.99 | 2.35 | 12.56 | 2.28 | 11.71 | 2.13 | |
| 15 | 13.7 | 15.21 | 2.59 | 14.35 | 2.45 | 13.50 | 2.31 | 12.99 | 2.24 | 12.56 | 2.17 | 11.71 | 2.04 | |

Heating capacity table

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

MVUR280B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 130% | -19.8 | -20 | 20.40 | 5.18 | 20.30 | 5.54 | 20.20 | 5.91 | 20.20 | 6.09 | 20.10 | 6.27 | 20.10 | 6.64 |
| | -18.8 | -19 | 20.70 | 5.29 | 20.60 | 5.65 | 20.60 | 6.02 | 20.50 | 6.20 | 20.50 | 6.37 | 20.40 | 6.73 |
| | -16.7 | -17 | 21.50 | 5.54 | 21.40 | 5.88 | 21.30 | 6.24 | 21.30 | 6.41 | 21.30 | 6.58 | 21.20 | 6.92 |
| | -13.7 | -15 | 22.40 | 5.80 | 22.30 | 6.13 | 22.20 | 6.46 | 22.20 | 6.63 | 22.10 | 6.80 | 22.10 | 7.13 |
| | -11.8 | -13 | 23.30 | 6.05 | 23.30 | 6.38 | 23.20 | 6.69 | 23.10 | 6.85 | 23.10 | 7.02 | 23.00 | 7.33 |
| | -9.8 | -11 | 24.40 | 6.32 | 24.30 | 6.63 | 24.20 | 6.93 | 24.20 | 7.08 | 24.20 | 7.23 | 24.10 | 7.54 |
| | -9.5 | -10 | 25.00 | 6.45 | 24.90 | 6.75 | 24.80 | 7.04 | 24.80 | 7.20 | 24.70 | 7.34 | 24.70 | 7.63 |
| | -8.5 | -9.1 | 25.50 | 6.57 | 25.40 | 6.85 | 25.40 | 7.15 | 25.30 | 7.29 | 25.30 | 7.43 | 25.20 | 7.73 |
| | -7 | -7.6 | 26.40 | 6.76 | 26.40 | 7.04 | 26.30 | 7.32 | 26.30 | 7.46 | 26.20 | 7.60 | 26.10 | 7.88 |
| | -5 | -5.6 | 27.80 | 7.02 | 27.70 | 7.28 | 27.60 | 7.55 | 27.60 | 7.68 | 27.50 | 7.81 | 27.50 | 8.07 |
| | -3 | -3.7 | 29.10 | 7.24 | 29.00 | 7.50 | 29.00 | 7.75 | 28.90 | 7.88 | 28.90 | 8.01 | 28.80 | 8.25 |
| | 0 | -0.7 | 31.40 | 7.60 | 31.40 | 7.83 | 31.30 | 8.06 | 31.30 | 8.15 | 31.20 | 8.30 | 31.20 | 8.53 |
| | 3 | 2.2 | 33.90 | 7.91 | 33.80 | 8.13 | 33.70 | 8.35 | 33.70 | 8.45 | 33.70 | 8.57 | 33.60 | 8.78 |
| | 5 | 4.1 | 35.60 | 8.11 | 35.50 | 8.32 | 35.50 | 8.52 | 35.40 | 8.62 | 35.40 | 8.73 | 35.30 | 8.93 |
| | 7 | 6 | 37.40 | 8.30 | 37.30 | 8.49 | 37.30 | 8.69 | 37.20 | 8.79 | 37.20 | 8.88 | 35.70 | 8.53 |
| 9 | 7.9 | 39.30 | 8.47 | 39.20 | 8.66 | 39.20 | 8.84 | 39.10 | 8.94 | 38.30 | 8.75 | 35.70 | 8.02 | |
| 11 | 9.8 | 41.30 | 8.64 | 41.20 | 8.81 | 41.00 | 8.93 | 39.60 | 8.58 | 38.30 | 8.22 | 35.70 | 7.55 | |
| 13 | 11.8 | 43.50 | 8.81 | 43.40 | 8.98 | 41.00 | 8.37 | 39.60 | 8.03 | 38.30 | 7.72 | 35.70 | 7.08 | |
| 15 | 13.7 | 45.60 | 8.96 | 43.60 | 8.50 | 41.00 | 7.88 | 39.60 | 7.58 | 38.30 | 7.27 | 35.70 | 6.68 | |
| 120% | -19.8 | -20 | 20.30 | 5.67 | 20.20 | 6.01 | 20.10 | 6.35 | 20.10 | 6.51 | 20.10 | 6.68 | 20.00 | 7.03 |
| | -18.8 | -19 | 20.60 | 5.78 | 20.50 | 6.11 | 20.50 | 6.44 | 20.40 | 6.61 | 20.40 | 6.78 | 20.30 | 7.11 |
| | -16.7 | -17 | 21.40 | 6.01 | 21.30 | 6.33 | 21.17 | 6.64 | 21.20 | 6.81 | 21.20 | 6.97 | 21.10 | 7.28 |
| | -13.7 | -15 | 22.30 | 6.24 | 22.20 | 6.55 | 22.10 | 6.85 | 22.10 | 7.02 | 22.10 | 7.17 | 22.00 | 7.47 |
| | -11.8 | -13 | 23.20 | 6.48 | 23.20 | 6.78 | 23.10 | 7.07 | 23.10 | 7.23 | 23.00 | 7.37 | 23.00 | 7.66 |
| | -9.8 | -11 | 24.30 | 6.73 | 24.20 | 7.01 | 24.20 | 7.29 | 24.10 | 7.43 | 24.10 | 7.57 | 24.00 | 7.85 |
| | -9.5 | -10 | 24.90 | 6.85 | 24.80 | 7.13 | 24.70 | 7.40 | 24.70 | 7.54 | 24.70 | 7.67 | 24.60 | 7.95 |
| | -8.5 | -9.1 | 25.40 | 6.96 | 25.30 | 7.23 | 25.30 | 7.49 | 25.20 | 7.63 | 25.20 | 7.77 | 25.10 | 8.03 |
| | -7 | -7.6 | 26.30 | 7.14 | 26.30 | 7.40 | 26.20 | 7.65 | 26.20 | 7.79 | 26.10 | 7.91 | 26.10 | 8.17 |
| | -5 | -5.6 | 27.70 | 7.37 | 27.60 | 7.62 | 27.50 | 7.86 | 27.50 | 7.99 | 27.50 | 8.11 | 27.40 | 8.35 |
| | -3 | -3.7 | 29.00 | 7.59 | 29.00 | 7.83 | 28.90 | 8.05 | 28.90 | 8.17 | 28.80 | 8.29 | 28.80 | 8.52 |
| | 0 | -0.7 | 31.30 | 7.91 | 31.30 | 8.13 | 31.20 | 8.34 | 31.20 | 8.45 | 31.10 | 8.56 | 31.10 | 8.78 |
| | 3 | 2.2 | 33.80 | 8.21 | 33.70 | 8.41 | 33.70 | 8.61 | 33.60 | 8.71 | 33.60 | 8.81 | 32.90 | 8.76 |
| | 5 | 4.1 | 35.50 | 8.39 | 35.40 | 8.58 | 35.40 | 8.77 | 35.30 | 8.86 | 35.30 | 8.96 | 32.90 | 8.23 |
| | 7 | 6 | 37.30 | 8.56 | 37.30 | 8.74 | 37.20 | 8.92 | 36.60 | 8.80 | 35.40 | 8.43 | 32.90 | 7.74 |
| 9 | 7.9 | 39.20 | 8.73 | 39.10 | 8.90 | 37.80 | 8.61 | 36.60 | 8.27 | 35.40 | 7.93 | 32.90 | 7.28 | |
| 11 | 9.8 | 41.20 | 8.88 | 40.20 | 8.73 | 37.80 | 8.09 | 36.60 | 7.78 | 35.40 | 7.46 | 32.90 | 6.86 | |
| 13 | 11.8 | 42.70 | 8.80 | 40.20 | 8.19 | 37.80 | 7.59 | 36.60 | 7.30 | 35.40 | 7.02 | 32.90 | 6.45 | |
| 15 | 13.7 | 42.70 | 8.28 | 40.20 | 7.71 | 37.80 | 7.16 | 36.60 | 6.88 | 35.40 | 6.62 | 32.90 | 6.09 | |
| 110% | -19.8 | -20 | 20.20 | 6.17 | 20.10 | 6.47 | 20.00 | 6.79 | 20.00 | 6.94 | 20.01 | 7.09 | 19.90 | 7.41 |
| | -18.8 | -19 | 20.50 | 6.26 | 20.40 | 6.57 | 20.40 | 6.87 | 20.40 | 7.03 | 20.30 | 7.18 | 20.30 | 7.48 |
| | -16.7 | -17 | 21.30 | 6.47 | 21.20 | 6.77 | 21.50 | 7.06 | 21.10 | 7.21 | 21.10 | 7.36 | 21.00 | 7.64 |
| | -13.7 | -15 | 22.20 | 6.69 | 22.10 | 6.98 | 22.00 | 7.25 | 22.00 | 7.40 | 22.00 | 7.54 | 21.90 | 7.82 |
| | -11.8 | -13 | 23.10 | 6.92 | 23.10 | 7.19 | 23.00 | 7.45 | 23.00 | 7.59 | 22.90 | 7.72 | 22.90 | 8.00 |
| | -9.8 | -11 | 24.20 | 7.14 | 24.10 | 7.40 | 24.10 | 7.65 | 24.00 | 7.79 | 24.00 | 7.91 | 24.00 | 8.17 |
| | -9.5 | -10 | 24.80 | 7.25 | 24.70 | 7.50 | 24.60 | 7.76 | 24.60 | 7.88 | 24.60 | 8.01 | 24.50 | 8.25 |
| | -8.5 | -9.1 | 25.30 | 7.35 | 25.20 | 7.60 | 25.20 | 7.84 | 25.10 | 7.97 | 25.10 | 8.09 | 25.10 | 7.38 |
| | -7 | -7.6 | 26.20 | 7.52 | 26.20 | 7.75 | 26.10 | 7.99 | 26.10 | 8.11 | 26.10 | 8.22 | 26.00 | 8.46 |
| | -5 | -5.6 | 27.60 | 7.73 | 27.50 | 7.96 | 27.40 | 8.18 | 27.40 | 8.29 | 27.40 | 8.41 | 27.30 | 8.64 |
| | -3 | -3.7 | 28.90 | 7.93 | 28.90 | 8.14 | 28.80 | 8.36 | 28.80 | 8.46 | 28.70 | 8.57 | 28.70 | 8.79 |
| | 0 | -0.7 | 31.20 | 8.22 | 31.20 | 8.42 | 31.10 | 8.62 | 31.10 | 8.72 | 31.10 | 8.82 | 30.20 | 8.65 |
| | 3 | 2.2 | 33.70 | 8.50 | 33.60 | 8.68 | 33.60 | 8.86 | 33.50 | 8.95 | 32.40 | 8.59 | 30.20 | 7.87 |
| | 5 | 4.1 | 35.40 | 8.66 | 35.40 | 8.84 | 34.70 | 8.76 | 33.50 | 8.41 | 32.40 | 8.07 | 30.20 | 7.41 |
| | 7 | 6 | 37.20 | 8.82 | 36.90 | 8.88 | 34.70 | 8.22 | 33.50 | 7.90 | 32.40 | 7.59 | 30.20 | 6.97 |
| 9 | 7.9 | 39.10 | 8.97 | 36.90 | 8.35 | 34.70 | 7.74 | 33.50 | 7.43 | 32.40 | 7.14 | 30.20 | 6.57 | |
| 11 | 9.8 | 39.10 | 8.43 | 36.90 | 7.85 | 34.70 | 7.28 | 33.50 | 7.01 | 32.40 | 6.73 | 30.20 | 6.20 | |
| 13 | 11.8 | 39.10 | 7.91 | 36.90 | 7.37 | 34.70 | 6.84 | 33.50 | 6.59 | 32.40 | 6.33 | 30.20 | 5.84 | |
| 15 | 13.7 | 39.10 | 7.03 | 36.90 | 6.95 | 34.70 | 6.46 | 33.50 | 6.22 | 32.40 | 5.99 | 30.20 | 5.52 | |

Heating capacity table**TC:** Total Capacity (kW); **PI:** Power Input (kW) (Compressor + Outdoor fan motor)**MVUR280B-VA3**

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 100% | -19.8 | -20 | 20.10 | 6.66 | 20.00 | 6.94 | 20.00 | 7.23 | 19.90 | 7.37 | 19.90 | 7.50 | 19.80 | 7.79 |
| | -18.8 | -19 | 20.40 | 6.75 | 20.40 | 7.03 | 20.30 | 7.30 | 20.30 | 7.44 | 20.20 | 7.59 | 20.20 | 7.86 |
| | -16.7 | -17 | 21.20 | 6.94 | 21.10 | 7.21 | 21.10 | 7.47 | 21.00 | 7.61 | 21.00 | 7.74 | 21.00 | 8.01 |
| | -13.7 | -15 | 22.10 | 7.14 | 22.00 | 7.40 | 21.90 | 7.65 | 21.90 | 7.79 | 21.90 | 7.91 | 21.80 | 8.17 |
| | -11.8 | -13 | 23.00 | 7.35 | 23.00 | 7.59 | 22.90 | 7.83 | 22.90 | 7.96 | 22.90 | 8.08 | 22.80 | 8.33 |
| | -9.8 | -11 | 24.10 | 7.55 | 24.00 | 7.79 | 24.00 | 8.02 | 24.00 | 8.14 | 23.90 | 8.25 | 23.90 | 8.48 |
| | -9.5 | -10 | 24.70 | 7.65 | 24.60 | 7.88 | 24.60 | 8.11 | 24.50 | 8.22 | 24.50 | 8.34 | 24.40 | 8.57 |
| | -8.5 | -9.1 | 25.20 | 7.74 | 25.10 | 7.97 | 25.10 | 8.19 | 25.10 | 8.30 | 25.00 | 8.42 | 25.00 | 8.63 |
| | -7 | -7.6 | 26.10 | 7.89 | 26.10 | 8.11 | 26.00 | 8.32 | 26.00 | 8.43 | 26.00 | 8.54 | 25.90 | 8.76 |
| | -5 | -5.6 | 27.50 | 8.09 | 27.40 | 8.29 | 27.40 | 8.50 | 27.30 | 8.60 | 27.30 | 8.70 | 27.20 | 8.91 |
| | -3 | -3.7 | 28.80 | 8.27 | 28.80 | 7.51 | 28.70 | 8.66 | 28.70 | 8.76 | 28.70 | 8.85 | 27.50 | 8.48 |
| | 0 | -0.7 | 31.10 | 8.54 | 31.10 | 8.72 | 31.00 | 8.90 | 30.50 | 8.76 | 29.50 | 8.40 | 27.50 | 7.70 |
| | 3 | 2.2 | 33.60 | 8.79 | 33.50 | 8.95 | 31.50 | 8.28 | 30.50 | 7.96 | 29.50 | 7.64 | 27.50 | 7.02 |
| | 5 | 4.1 | 35.30 | 8.95 | 33.50 | 8.41 | 31.50 | 7.79 | 30.50 | 7.49 | 29.50 | 7.20 | 27.50 | 6.62 |
| | 7 | 6 | 35.50 | 8.49 | 33.50 | 7.90 | 31.50 | 7.33 | 30.50 | 7.05 | 29.50 | 6.78 | 27.50 | 6.23 |
| 9 | 7.9 | 35.50 | 7.98 | 33.50 | 7.43 | 31.50 | 6.90 | 30.50 | 6.56 | 29.50 | 6.39 | 27.50 | 5.88 | |
| 11 | 9.8 | 35.50 | 7.51 | 33.50 | 7.01 | 31.50 | 6.51 | 30.50 | 6.26 | 29.50 | 6.03 | 27.50 | 5.56 | |
| 13 | 11.8 | 35.50 | 7.05 | 33.50 | 6.59 | 31.50 | 6.13 | 30.50 | 5.90 | 29.50 | 5.68 | 27.50 | 5.25 | |
| 15 | 13.7 | 35.50 | 6.65 | 33.50 | 6.22 | 31.50 | 5.79 | 30.50 | 5.58 | 29.50 | 5.37 | 27.50 | 4.97 | |
| 90% | -19.8 | -20 | 19.96 | 7.16 | 19.86 | 7.41 | 19.86 | 7.66 | 19.77 | 7.79 | 19.77 | 7.92 | 19.77 | 8.17 |
| | -18.8 | -19 | 20.26 | 7.23 | 20.26 | 7.49 | 20.17 | 7.74 | 20.17 | 7.86 | 20.17 | 7.99 | 20.06 | 8.23 |
| | -16.7 | -17 | 21.06 | 7.42 | 20.96 | 7.65 | 20.96 | 7.89 | 20.96 | 8.02 | 20.86 | 8.13 | 20.86 | 8.37 |
| | -13.7 | -15 | 21.96 | 7.60 | 21.86 | 7.82 | 21.86 | 8.05 | 21.76 | 8.17 | 21.76 | 8.28 | 21.76 | 8.51 |
| | -11.8 | -13 | 22.86 | 7.78 | 22.86 | 8.00 | 22.76 | 8.22 | 22.76 | 8.33 | 22.76 | 8.43 | 22.66 | 8.65 |
| | -9.8 | -11 | 23.96 | 7.96 | 23.96 | 8.17 | 23.86 | 8.38 | 23.86 | 8.48 | 23.86 | 8.60 | 23.76 | 8.81 |
| | -9.5 | -10 | 24.56 | 8.05 | 24.46 | 8.26 | 24.46 | 8.46 | 24.36 | 8.57 | 24.36 | 8.67 | 24.36 | 8.87 |
| | -8.5 | -9.1 | 25.06 | 8.14 | 25.06 | 8.34 | 24.96 | 8.54 | 24.96 | 8.63 | 24.96 | 8.74 | 24.66 | 8.82 |
| | -7 | -7.6 | 25.95 | 8.27 | 25.95 | 8.46 | 25.86 | 8.66 | 25.86 | 8.76 | 25.86 | 8.85 | 24.66 | 8.42 |
| | -5 | -5.6 | 27.35 | 8.45 | 27.25 | 8.63 | 27.25 | 8.82 | 27.15 | 8.91 | 26.45 | 8.63 | 24.66 | 7.92 |
| | -3 | -3.7 | 28.65 | 8.62 | 28.65 | 8.79 | 28.35 | 8.82 | 27.35 | 8.47 | 26.45 | 8.13 | 24.66 | 7.46 |
| | 0 | -0.7 | 31.05 | 8.86 | 30.15 | 8.64 | 28.35 | 8.01 | 27.35 | 7.69 | 26.45 | 7.39 | 24.66 | 6.79 |
| | 3 | 2.2 | 31.94 | 8.44 | 30.15 | 7.86 | 28.35 | 7.29 | 27.35 | 7.02 | 26.45 | 6.74 | 24.66 | 6.21 |
| | 5 | 4.1 | 31.94 | 7.94 | 30.15 | 7.40 | 28.35 | 6.87 | 27.35 | 6.61 | 26.45 | 6.36 | 24.66 | 5.85 |
| | 7 | 6 | 31.94 | 7.46 | 30.15 | 6.97 | 28.35 | 6.47 | 27.35 | 6.23 | 26.45 | 6.00 | 24.66 | 5.53 |
| 9 | 7.9 | 31.94 | 7.03 | 30.15 | 6.56 | 28.35 | 6.10 | 27.35 | 5.88 | 26.45 | 5.66 | 24.66 | 5.23 | |
| 11 | 9.8 | 31.94 | 6.63 | 30.15 | 6.19 | 28.35 | 5.77 | 27.35 | 5.56 | 26.45 | 5.35 | 24.66 | 4.95 | |
| 13 | 11.8 | 31.94 | 6.23 | 30.15 | 5.84 | 28.35 | 5.44 | 27.35 | 5.25 | 26.45 | 5.05 | 24.66 | 4.67 | |
| 15 | 13.7 | 31.94 | 5.89 | 30.15 | 5.51 | 28.35 | 5.15 | 27.35 | 4.97 | 26.45 | 4.79 | 24.66 | 4.44 | |
| 80% | -19.8 | -20 | 19.90 | 7.65 | 19.80 | 7.87 | 19.80 | 8.10 | 19.80 | 8.22 | 19.70 | 8.33 | 19.70 | 8.55 |
| | -18.8 | -19 | 20.20 | 7.72 | 20.20 | 7.95 | 20.10 | 8.17 | 20.10 | 8.28 | 20.10 | 8.39 | 20.00 | 8.61 |
| | -16.7 | -17 | 21.00 | 7.88 | 20.90 | 8.09 | 20.90 | 8.31 | 20.90 | 8.41 | 20.90 | 8.52 | 20.80 | 8.73 |
| | -13.7 | -15 | 21.90 | 8.04 | 21.80 | 8.24 | 21.80 | 8.45 | 21.80 | 8.55 | 21.70 | 8.65 | 21.70 | 8.86 |
| | -11.8 | -13 | 22.80 | 8.21 | 22.80 | 8.41 | 22.70 | 8.60 | 22.70 | 8.69 | 22.70 | 8.80 | 22.00 | 8.56 |
| | -9.8 | -11 | 23.90 | 8.37 | 23.90 | 8.56 | 23.80 | 8.75 | 23.80 | 8.83 | 23.60 | 8.81 | 22.00 | 8.08 |
| | -9.5 | -10 | 24.50 | 8.45 | 24.40 | 8.63 | 24.40 | 8.81 | 24.40 | 8.91 | 23.60 | 8.56 | 22.00 | 7.84 |
| | -8.5 | -9.1 | 25.00 | 8.53 | 23.24 | 8.71 | 24.90 | 8.88 | 24.40 | 8.68 | 23.60 | 8.33 | 22.00 | 7.63 |
| | -7 | -7.6 | 25.90 | 8.65 | 25.90 | 8.82 | 25.20 | 8.63 | 24.40 | 8.29 | 23.60 | 7.96 | 22.00 | 7.30 |
| | -5 | -5.6 | 27.30 | 8.80 | 26.80 | 8.76 | 25.20 | 8.11 | 24.40 | 7.80 | 23.60 | 7.48 | 22.00 | 6.87 |
| | -3 | -3.7 | 28.40 | 8.85 | 26.80 | 8.24 | 25.20 | 7.63 | 24.40 | 7.35 | 23.60 | 7.05 | 22.00 | 6.49 |
| | 0 | -0.7 | 28.40 | 8.03 | 26.80 | 7.48 | 25.20 | 6.95 | 24.40 | 6.69 | 23.60 | 6.43 | 22.00 | 5.92 |
| | 3 | 2.2 | 28.40 | 7.32 | 26.80 | 6.83 | 25.20 | 6.35 | 24.40 | 6.11 | 23.60 | 5.88 | 22.00 | 5.43 |
| | 5 | 4.1 | 28.40 | 6.89 | 26.80 | 6.43 | 25.20 | 5.99 | 24.40 | 5.77 | 23.60 | 5.56 | 22.00 | 5.13 |
| | 7 | 6 | 28.40 | 6.49 | 26.80 | 6.07 | 25.20 | 5.65 | 24.40 | 5.45 | 23.60 | 5.25 | 22.00 | 4.85 |
| 9 | 7.9 | 28.40 | 6.13 | 26.80 | 5.73 | 25.20 | 5.34 | 24.40 | 5.15 | 23.60 | 4.97 | 22.00 | 4.60 | |
| 11 | 9.8 | 28.40 | 5.79 | 26.80 | 5.42 | 25.20 | 5.05 | 24.40 | 4.87 | 23.60 | 4.70 | 22.00 | 4.36 | |
| 13 | 11.8 | 28.40 | 5.45 | 26.80 | 5.11 | 25.20 | 4.78 | 24.40 | 4.61 | 23.60 | 4.45 | 22.00 | 4.12 | |
| 15 | 13.7 | 28.40 | 5.16 | 26.80 | 4.85 | 25.20 | 4.53 | 24.40 | 4.37 | 23.60 | 4.22 | 22.00 | 3.92 | |

Heating capacity table

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

MVUR280B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 70% | -19.8 | -20 | 19.75 | 8.15 | 19.66 | 8.34 | 19.66 | 8.54 | 19.66 | 8.63 | 19.66 | 8.74 | 19.16 | 8.64 |
| | -18.8 | -19 | 20.05 | 8.21 | 20.05 | 8.41 | 19.96 | 8.60 | 19.96 | 8.69 | 19.96 | 8.80 | 19.16 | 8.46 |
| | -16.7 | -17 | 20.85 | 8.35 | 20.85 | 8.54 | 20.75 | 8.72 | 20.75 | 8.81 | 20.55 | 7.85 | 19.16 | 8.07 |
| | -13.7 | -15 | 21.75 | 8.49 | 21.65 | 8.67 | 21.65 | 8.85 | 21.25 | 8.72 | 20.55 | 8.37 | 19.16 | 7.67 |
| | -11.8 | -13 | 22.65 | 8.63 | 22.65 | 8.80 | 22.05 | 8.60 | 21.25 | 8.26 | 20.55 | 7.93 | 19.16 | 7.27 |
| | -9.8 | -11 | 23.75 | 8.78 | 23.45 | 8.77 | 22.05 | 8.12 | 21.25 | 7.81 | 20.55 | 7.49 | 19.16 | 6.88 |
| | -9.5 | -10 | 24.35 | 8.85 | 23.45 | 8.51 | 22.05 | 7.88 | 21.25 | 7.58 | 20.55 | 7.28 | 19.16 | 6.69 |
| | -8.5 | -9.1 | 24.84 | 8.90 | 23.45 | 8.28 | 22.05 | 7.67 | 21.25 | 7.38 | 20.55 | 7.09 | 19.16 | 6.52 |
| | -7 | -7.6 | 24.84 | 8.50 | 23.45 | 7.91 | 22.05 | 7.34 | 21.25 | 7.06 | 20.55 | 6.79 | 19.16 | 6.24 |
| | -5 | -5.6 | 24.84 | 7.99 | 23.45 | 7.44 | 22.05 | 6.91 | 21.25 | 6.64 | 20.55 | 6.49 | 19.16 | 5.89 |
| | -3 | -3.7 | 24.84 | 7.52 | 23.45 | 7.02 | 22.05 | 6.52 | 21.25 | 6.27 | 20.55 | 6.04 | 19.16 | 5.57 |
| | 0 | -0.7 | 24.84 | 6.84 | 23.45 | 6.40 | 22.05 | 5.95 | 21.25 | 5.73 | 20.55 | 5.52 | 19.16 | 5.10 |
| | 3 | 2.2 | 24.84 | 6.25 | 23.45 | 5.85 | 22.05 | 5.45 | 21.25 | 5.25 | 20.55 | 5.06 | 19.16 | 4.68 |
| | 5 | 4.1 | 24.84 | 5.90 | 23.45 | 5.52 | 22.05 | 5.16 | 21.25 | 4.97 | 20.55 | 4.79 | 19.16 | 4.44 |
| | 7 | 6 | 24.84 | 5.58 | 23.45 | 5.23 | 22.05 | 4.87 | 21.25 | 4.70 | 20.55 | 4.54 | 19.16 | 4.21 |
| 9 | 7.9 | 24.84 | 5.27 | 23.45 | 4.94 | 22.05 | 4.62 | 21.25 | 4.46 | 20.55 | 4.30 | 19.16 | 3.99 | |
| 11 | 9.8 | 24.84 | 4.99 | 23.45 | 4.67 | 22.05 | 4.38 | 21.25 | 4.23 | 20.55 | 4.08 | 19.16 | 3.79 | |
| 13 | 11.8 | 24.84 | 4.71 | 23.45 | 4.43 | 22.05 | 4.14 | 21.25 | 4.01 | 20.55 | 3.86 | 19.16 | 3.60 | |
| 15 | 13.7 | 24.84 | 4.46 | 23.45 | 4.20 | 22.05 | 3.93 | 21.25 | 3.81 | 20.55 | 3.67 | 19.16 | 3.43 | |
| 60% | -19.8 | -20 | 19.70 | 8.64 | 19.60 | 8.80 | 18.90 | 8.47 | 18.30 | 8.14 | 17.70 | 7.81 | 16.50 | 7.17 |
| | -18.8 | -19 | 20.00 | 8.70 | 20.00 | 8.86 | 18.90 | 8.29 | 18.30 | 7.97 | 17.70 | 7.64 | 16.50 | 7.02 |
| | -16.7 | -17 | 20.80 | 8.81 | 20.10 | 8.54 | 18.90 | 7.91 | 18.30 | 7.61 | 17.70 | 7.30 | 16.50 | 6.71 |
| | -13.7 | -15 | 21.30 | 8.72 | 20.10 | 8.11 | 18.90 | 7.52 | 18.30 | 7.23 | 17.70 | 6.95 | 16.50 | 6.39 |
| | -11.8 | -13 | 21.30 | 8.25 | 20.10 | 7.68 | 18.90 | 7.13 | 18.30 | 6.86 | 17.70 | 6.60 | 16.50 | 6.10 |
| | -9.8 | -11 | 21.30 | 7.80 | 20.10 | 7.26 | 18.90 | 6.75 | 18.30 | 6.49 | 17.70 | 6.24 | 16.50 | 5.76 |
| | -9.5 | -10 | 21.30 | 7.58 | 20.10 | 7.06 | 18.90 | 6.56 | 18.30 | 6.32 | 17.70 | 6.07 | 16.50 | 5.60 |
| | -8.5 | -9.1 | 21.30 | 7.38 | 20.10 | 6.88 | 18.90 | 6.40 | 18.30 | 6.16 | 17.70 | 5.92 | 16.50 | 5.46 |
| | -7 | -7.6 | 21.30 | 7.05 | 20.10 | 6.59 | 18.90 | 6.12 | 18.30 | 5.90 | 17.70 | 5.67 | 16.50 | 5.24 |
| | -5 | -5.6 | 21.30 | 6.64 | 20.10 | 6.21 | 18.90 | 5.78 | 18.30 | 5.57 | 17.70 | 5.36 | 16.50 | 4.96 |
| | -3 | -3.7 | 21.30 | 6.27 | 20.10 | 5.86 | 18.90 | 5.46 | 18.30 | 5.27 | 17.70 | 5.07 | 16.50 | 4.69 |
| | 0 | -0.7 | 21.30 | 5.73 | 20.10 | 5.37 | 18.90 | 5.01 | 18.30 | 4.84 | 17.70 | 4.65 | 16.50 | 4.31 |
| | 3 | 2.2 | 21.30 | 5.25 | 20.10 | 4.93 | 18.90 | 4.61 | 18.30 | 4.45 | 17.70 | 4.29 | 16.50 | 3.98 |
| | 5 | 4.1 | 21.30 | 4.97 | 20.10 | 4.66 | 18.90 | 4.36 | 18.30 | 4.22 | 17.70 | 4.06 | 16.50 | 3.78 |
| | 7 | 6 | 21.30 | 4.70 | 20.10 | 4.42 | 18.90 | 4.13 | 18.30 | 4.00 | 17.70 | 3.86 | 16.50 | 3.59 |
| 9 | 7.9 | 21.30 | 4.45 | 20.10 | 4.19 | 18.90 | 3.92 | 18.30 | 3.80 | 17.70 | 3.66 | 16.50 | 3.42 | |
| 11 | 9.8 | 21.30 | 4.23 | 20.10 | 3.98 | 18.90 | 3.73 | 18.30 | 3.61 | 17.70 | 3.48 | 16.50 | 3.26 | |
| 13 | 11.8 | 21.30 | 4.00 | 20.10 | 3.77 | 18.90 | 3.54 | 18.30 | 3.43 | 17.70 | 3.31 | 16.50 | 3.09 | |
| 15 | 13.7 | 21.30 | 3.81 | 20.10 | 3.58 | 18.90 | 3.37 | 18.30 | 3.26 | 17.70 | 3.16 | 16.50 | 2.95 | |
| 50% | -19.8 | -20 | 17.74 | 7.86 | 16.75 | 7.32 | 15.75 | 6.80 | 15.15 | 6.55 | 14.65 | 6.29 | 13.66 | 5.80 |
| | -18.8 | -19 | 17.74 | 7.69 | 16.75 | 7.17 | 15.75 | 6.66 | 15.15 | 6.41 | 14.65 | 6.16 | 13.66 | 5.68 |
| | -16.7 | -17 | 17.74 | 7.34 | 16.75 | 6.84 | 15.75 | 6.37 | 15.15 | 6.13 | 14.65 | 5.90 | 13.66 | 5.44 |
| | -13.7 | -15 | 17.74 | 6.99 | 16.75 | 6.52 | 15.75 | 6.06 | 15.15 | 5.84 | 14.65 | 5.63 | 13.66 | 5.20 |
| | -11.8 | -13 | 17.74 | 6.63 | 16.75 | 6.20 | 15.75 | 5.77 | 15.15 | 5.56 | 14.65 | 5.35 | 13.66 | 4.95 |
| | -9.8 | -11 | 17.74 | 6.28 | 16.75 | 5.87 | 15.75 | 5.47 | 15.15 | 5.27 | 14.65 | 5.08 | 13.66 | 4.70 |
| | -9.5 | -10 | 17.74 | 6.11 | 16.75 | 5.71 | 15.75 | 5.33 | 15.15 | 5.14 | 14.65 | 4.95 | 13.66 | 4.58 |
| | -8.5 | -9.1 | 17.74 | 5.96 | 16.75 | 5.58 | 15.75 | 5.20 | 15.15 | 5.02 | 14.65 | 4.84 | 13.66 | 4.47 |
| | -7 | -7.6 | 17.74 | 5.71 | 16.75 | 5.35 | 15.75 | 4.99 | 15.15 | 4.82 | 14.65 | 4.65 | 13.66 | 4.30 |
| | -5 | -5.6 | 17.74 | 5.39 | 16.75 | 5.05 | 15.75 | 4.72 | 15.15 | 4.56 | 14.65 | 4.40 | 13.66 | 4.07 |
| | -3 | -3.7 | 17.74 | 5.10 | 16.75 | 4.79 | 15.75 | 4.47 | 15.15 | 4.32 | 14.65 | 4.17 | 13.66 | 3.87 |
| | 0 | -0.7 | 17.74 | 4.68 | 16.75 | 4.40 | 15.75 | 4.12 | 15.15 | 3.98 | 14.65 | 3.85 | 13.66 | 3.58 |
| | 3 | 2.2 | 17.74 | 4.31 | 16.75 | 4.06 | 15.75 | 3.80 | 15.15 | 3.67 | 14.65 | 3.55 | 13.66 | 3.31 |
| | 5 | 4.1 | 17.74 | 4.09 | 16.75 | 3.85 | 15.75 | 3.61 | 15.15 | 3.49 | 14.65 | 3.38 | 13.66 | 3.15 |
| | 7 | 6 | 17.74 | 3.88 | 16.75 | 3.66 | 15.75 | 3.44 | 15.15 | 3.32 | 14.65 | 3.22 | 13.66 | 3.01 |
| 9 | 7.9 | 17.74 | 3.68 | 16.75 | 3.47 | 15.75 | 3.26 | 15.15 | 3.17 | 14.65 | 3.07 | 13.66 | 2.87 | |
| 11 | 9.8 | 17.74 | 3.50 | 16.75 | 3.30 | 15.75 | 3.11 | 15.15 | 3.02 | 14.65 | 2.92 | 13.66 | 2.73 | |
| 13 | 11.8 | 17.74 | 3.33 | 16.75 | 3.14 | 15.75 | 2.96 | 15.15 | 2.87 | 14.65 | 2.78 | 13.66 | 2.61 | |
| 15 | 13.7 | 17.74 | 3.17 | 16.75 | 3.00 | 15.75 | 2.83 | 15.15 | 2.74 | 14.65 | 2.66 | 13.66 | 2.49 | |

Heating capacity table

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

MVUR335B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 130% | -19.8 | -20 | 24.28 | 6.16 | 24.16 | 6.59 | 24.05 | 7.03 | 24.05 | 7.25 | 23.93 | 7.46 | 23.93 | 7.90 |
| | -18.8 | -19 | 24.64 | 6.30 | 24.52 | 6.73 | 24.52 | 7.16 | 24.40 | 7.37 | 24.40 | 7.58 | 24.28 | 8.01 |
| | -16.7 | -17 | 25.59 | 6.59 | 25.47 | 7.00 | 25.35 | 7.42 | 25.35 | 7.62 | 25.35 | 7.82 | 25.24 | 8.23 |
| | -13.7 | -15 | 26.66 | 6.90 | 26.55 | 7.29 | 26.43 | 7.69 | 26.43 | 7.88 | 26.31 | 8.09 | 26.31 | 8.48 |
| | -11.8 | -13 | 27.74 | 7.20 | 27.74 | 7.59 | 27.62 | 7.96 | 27.50 | 8.15 | 27.50 | 8.35 | 27.38 | 8.72 |
| | -9.8 | -11 | 29.05 | 7.52 | 28.93 | 7.88 | 28.81 | 8.24 | 28.81 | 8.43 | 28.81 | 8.61 | 28.69 | 8.97 |
| | -9.5 | -10 | 29.76 | 7.68 | 29.64 | 8.03 | 29.52 | 8.38 | 29.52 | 8.56 | 29.40 | 8.73 | 29.40 | 9.08 |
| | -8.5 | -9.1 | 30.35 | 7.81 | 30.24 | 8.15 | 30.24 | 8.51 | 30.12 | 8.67 | 30.12 | 8.84 | 30.00 | 9.20 |
| | -7 | -7.6 | 31.43 | 8.04 | 31.43 | 8.38 | 31.31 | 8.71 | 31.31 | 8.88 | 31.19 | 9.04 | 31.07 | 9.38 |
| | -5 | -5.6 | 33.09 | 8.35 | 32.97 | 8.66 | 32.85 | 8.98 | 32.85 | 9.14 | 32.74 | 9.29 | 32.74 | 9.60 |
| | -3 | -3.7 | 34.64 | 8.62 | 34.52 | 8.92 | 34.52 | 9.22 | 34.40 | 9.38 | 34.40 | 9.52 | 34.28 | 9.82 |
| | 0 | -0.7 | 37.38 | 9.04 | 37.38 | 9.32 | 37.26 | 9.59 | 37.26 | 9.69 | 37.14 | 9.88 | 37.14 | 10.15 |
| | 3 | 2.2 | 40.35 | 9.41 | 40.24 | 9.67 | 40.12 | 9.93 | 40.12 | 10.06 | 40.12 | 10.19 | 40.00 | 10.44 |
| | 5 | 4.1 | 42.38 | 9.65 | 42.26 | 9.90 | 42.26 | 10.14 | 42.14 | 10.26 | 42.14 | 10.38 | 42.02 | 10.62 |
| | 7 | 6 | 44.52 | 9.88 | 44.40 | 10.10 | 44.40 | 10.34 | 44.28 | 10.45 | 44.28 | 10.57 | 42.50 | 10.15 |
| | 9 | 7.9 | 46.78 | 10.08 | 46.66 | 10.31 | 46.66 | 10.52 | 46.55 | 10.63 | 45.59 | 10.41 | 42.50 | 9.53 |
| 11 | 9.8 | 49.16 | 10.28 | 49.05 | 10.49 | 48.81 | 10.62 | 47.14 | 10.20 | 45.59 | 9.78 | 42.50 | 8.98 | |
| 13 | 11.8 | 51.78 | 10.47 | 51.66 | 10.68 | 48.81 | 9.95 | 47.14 | 9.56 | 45.59 | 9.18 | 42.50 | 8.43 | |
| 15 | 13.7 | 54.28 | 10.66 | 51.90 | 10.11 | 48.81 | 9.38 | 47.14 | 9.01 | 45.59 | 8.65 | 42.50 | 7.95 | |
| 120% | -19.8 | -20 | 24.17 | 6.75 | 24.05 | 7.15 | 23.93 | 7.55 | 23.93 | 7.75 | 23.93 | 7.95 | 23.81 | 8.36 |
| | -18.8 | -19 | 24.53 | 6.87 | 24.41 | 7.27 | 24.41 | 7.67 | 24.29 | 7.86 | 24.29 | 8.06 | 24.17 | 8.46 |
| | -16.7 | -17 | 25.48 | 7.15 | 25.36 | 7.53 | 25.20 | 7.90 | 25.24 | 8.10 | 25.24 | 8.29 | 25.12 | 8.66 |
| | -13.7 | -15 | 26.55 | 7.43 | 26.43 | 7.79 | 26.31 | 8.15 | 26.31 | 8.35 | 26.31 | 8.53 | 26.19 | 8.89 |
| | -11.8 | -13 | 27.62 | 7.71 | 27.62 | 8.06 | 27.50 | 8.41 | 27.50 | 8.60 | 27.38 | 8.76 | 27.38 | 9.12 |
| | -9.8 | -11 | 28.93 | 8.01 | 28.81 | 8.34 | 28.81 | 8.67 | 28.69 | 8.84 | 28.69 | 9.00 | 28.57 | 9.34 |
| | -9.5 | -10 | 29.65 | 8.15 | 29.53 | 8.48 | 29.41 | 8.80 | 29.41 | 8.97 | 29.41 | 9.13 | 29.29 | 9.46 |
| | -8.5 | -9.1 | 30.24 | 8.28 | 30.12 | 8.60 | 30.12 | 8.91 | 30.00 | 9.07 | 30.00 | 9.24 | 29.88 | 9.56 |
| | -7 | -7.6 | 31.31 | 8.49 | 31.31 | 8.80 | 31.19 | 9.10 | 31.19 | 9.26 | 31.07 | 9.41 | 31.07 | 9.72 |
| | -5 | -5.6 | 32.98 | 8.76 | 32.86 | 9.06 | 32.74 | 9.35 | 32.74 | 9.50 | 32.74 | 9.65 | 32.62 | 9.93 |
| | -3 | -3.7 | 34.53 | 9.03 | 34.53 | 9.31 | 34.41 | 9.58 | 34.41 | 9.72 | 34.29 | 9.86 | 34.29 | 10.14 |
| | 0 | -0.7 | 37.26 | 9.41 | 37.26 | 9.67 | 37.14 | 9.92 | 37.14 | 10.06 | 37.02 | 10.18 | 37.02 | 10.44 |
| | 3 | 2.2 | 40.24 | 9.76 | 40.12 | 10.00 | 40.12 | 10.24 | 40.00 | 10.36 | 40.00 | 10.48 | 39.17 | 10.42 |
| | 5 | 4.1 | 42.26 | 9.98 | 42.14 | 10.20 | 42.14 | 10.43 | 42.02 | 10.54 | 42.02 | 10.66 | 39.17 | 9.78 |
| | 7 | 6 | 44.41 | 10.18 | 44.41 | 10.40 | 44.29 | 10.61 | 43.57 | 10.46 | 42.14 | 10.03 | 39.17 | 9.21 |
| | 9 | 7.9 | 46.67 | 10.39 | 46.55 | 10.59 | 45.00 | 10.24 | 43.57 | 9.83 | 42.14 | 9.43 | 39.17 | 8.66 |
| 11 | 9.8 | 49.05 | 10.57 | 47.86 | 10.39 | 45.00 | 9.63 | 43.57 | 9.25 | 42.14 | 8.88 | 39.17 | 8.17 | |
| 13 | 11.8 | 50.83 | 10.46 | 47.86 | 9.74 | 45.00 | 9.03 | 43.57 | 8.69 | 42.14 | 8.35 | 39.17 | 7.68 | |
| 15 | 13.7 | 50.83 | 9.85 | 47.86 | 9.17 | 45.00 | 8.52 | 43.57 | 8.19 | 42.14 | 7.87 | 39.17 | 7.25 | |
| 110% | -19.8 | -20 | 24.05 | 7.34 | 23.93 | 7.70 | 23.81 | 8.07 | 23.81 | 8.26 | 23.82 | 8.44 | 23.69 | 8.81 |
| | -18.8 | -19 | 24.41 | 7.45 | 24.29 | 7.81 | 24.29 | 8.18 | 24.29 | 8.36 | 24.17 | 8.54 | 24.17 | 8.90 |
| | -16.7 | -17 | 25.36 | 7.70 | 25.24 | 8.05 | 25.59 | 8.40 | 25.12 | 8.57 | 25.12 | 8.75 | 25.00 | 9.09 |
| | -13.7 | -15 | 26.43 | 7.96 | 26.31 | 8.30 | 26.19 | 8.63 | 26.19 | 8.80 | 26.19 | 8.97 | 26.07 | 9.30 |
| | -11.8 | -13 | 27.50 | 8.23 | 27.50 | 8.55 | 27.38 | 8.87 | 27.38 | 9.03 | 27.26 | 9.18 | 27.26 | 9.51 |
| | -9.8 | -11 | 28.81 | 8.49 | 28.69 | 8.80 | 28.69 | 9.11 | 28.57 | 9.26 | 28.57 | 9.41 | 28.57 | 9.72 |
| | -9.5 | -10 | 29.52 | 8.63 | 29.40 | 8.92 | 29.28 | 9.23 | 29.28 | 9.38 | 29.28 | 9.52 | 29.17 | 9.82 |
| | -8.5 | -9.1 | 30.12 | 8.74 | 30.00 | 9.04 | 30.00 | 9.33 | 29.88 | 9.48 | 29.88 | 9.63 | 29.88 | 8.78 |
| | -7 | -7.6 | 31.19 | 8.95 | 31.19 | 9.22 | 31.07 | 9.50 | 31.07 | 9.65 | 31.07 | 9.78 | 30.95 | 10.07 |
| | -5 | -5.6 | 32.86 | 9.20 | 32.74 | 9.47 | 32.62 | 9.73 | 32.62 | 9.86 | 32.62 | 10.00 | 32.50 | 10.27 |
| | -3 | -3.7 | 34.41 | 9.43 | 34.41 | 9.68 | 34.29 | 9.94 | 34.29 | 10.07 | 34.17 | 10.19 | 34.17 | 10.45 |
| | 0 | -0.7 | 37.14 | 9.78 | 37.14 | 10.02 | 37.03 | 10.26 | 37.03 | 10.37 | 37.03 | 10.50 | 35.95 | 10.29 |
| | 3 | 2.2 | 40.12 | 10.11 | 40.00 | 10.33 | 40.00 | 10.54 | 39.88 | 10.65 | 38.57 | 10.22 | 35.95 | 9.37 |
| | 5 | 4.1 | 42.14 | 10.31 | 42.14 | 10.52 | 41.31 | 10.42 | 39.88 | 10.00 | 38.57 | 9.60 | 35.95 | 8.81 |
| | 7 | 6 | 44.28 | 10.50 | 43.93 | 10.57 | 41.31 | 9.78 | 39.88 | 9.40 | 38.57 | 9.03 | 35.95 | 8.29 |
| | 9 | 7.9 | 46.55 | 10.67 | 43.93 | 9.93 | 41.31 | 9.21 | 39.88 | 8.84 | 38.57 | 8.49 | 35.95 | 7.81 |
| 11 | 9.8 | 46.55 | 10.03 | 43.93 | 9.34 | 41.31 | 8.66 | 39.88 | 8.34 | 38.57 | 8.01 | 35.95 | 7.37 | |
| 13 | 11.8 | 46.55 | 9.41 | 43.93 | 8.77 | 41.31 | 8.14 | 39.88 | 7.84 | 38.57 | 7.53 | 35.95 | 6.94 | |
| 15 | 13.7 | 46.55 | 8.36 | 43.93 | 8.27 | 41.31 | 7.69 | 39.88 | 7.40 | 38.57 | 7.12 | 35.95 | 6.57 | |

Heating capacity table

MVUR335B-VA3

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

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 100% | -19.8 | -20 | 23.93 | 7.93 | 23.81 | 8.26 | 23.81 | 8.60 | 23.69 | 8.77 | 23.69 | 8.92 | 23.57 | 9.26 |
| | -18.8 | -19 | 24.29 | 8.03 | 24.29 | 8.36 | 24.17 | 8.69 | 24.17 | 8.86 | 24.05 | 9.03 | 24.05 | 9.35 |
| | -16.7 | -17 | 25.24 | 8.26 | 25.12 | 8.57 | 25.12 | 8.89 | 25.00 | 9.05 | 25.00 | 9.21 | 25.00 | 9.52 |
| | -13.7 | -15 | 26.31 | 8.49 | 26.19 | 8.80 | 26.07 | 9.11 | 26.07 | 9.26 | 26.07 | 9.41 | 25.95 | 9.72 |
| | -11.8 | -13 | 27.38 | 8.74 | 27.38 | 9.03 | 27.26 | 9.32 | 27.26 | 9.47 | 27.26 | 9.61 | 27.14 | 9.91 |
| | -9.8 | -11 | 28.69 | 8.98 | 28.57 | 9.26 | 28.57 | 9.54 | 28.57 | 9.68 | 28.45 | 9.82 | 28.45 | 10.09 |
| | -9.5 | -10 | 29.40 | 9.11 | 29.29 | 9.38 | 29.29 | 9.65 | 29.17 | 9.78 | 29.17 | 9.92 | 29.05 | 10.19 |
| | -8.5 | -9.1 | 30.00 | 9.21 | 29.88 | 9.48 | 29.88 | 9.74 | 29.88 | 9.88 | 29.76 | 10.01 | 29.76 | 10.27 |
| | -7 | -7.6 | 31.07 | 9.39 | 31.07 | 9.65 | 30.95 | 9.90 | 30.95 | 10.03 | 30.95 | 10.16 | 30.83 | 10.42 |
| | -5 | -5.6 | 32.74 | 9.63 | 32.62 | 9.86 | 32.62 | 10.11 | 32.50 | 10.23 | 32.50 | 10.35 | 32.38 | 10.60 |
| | -3 | -3.7 | 34.29 | 9.84 | 34.29 | 8.94 | 34.17 | 10.31 | 34.17 | 10.42 | 34.17 | 10.53 | 32.74 | 10.09 |
| | 0 | -0.7 | 37.02 | 10.16 | 37.02 | 10.37 | 36.90 | 10.59 | 36.31 | 10.42 | 35.12 | 9.99 | 32.74 | 9.16 |
| | 3 | 2.2 | 40.00 | 10.45 | 39.88 | 10.65 | 37.50 | 9.85 | 36.31 | 9.47 | 35.12 | 9.09 | 32.74 | 8.35 |
| | 5 | 4.1 | 42.02 | 10.65 | 39.88 | 10.00 | 37.50 | 9.26 | 36.31 | 8.91 | 35.12 | 8.56 | 32.74 | 7.87 |
| | 7 | 6 | 42.26 | 10.10 | 39.88 | 9.40 | 37.50 | 8.72 | 36.31 | 8.39 | 35.12 | 8.06 | 32.74 | 7.42 |
| 9 | 7.9 | 42.26 | 9.49 | 39.88 | 8.84 | 37.50 | 8.21 | 36.31 | 7.80 | 35.12 | 7.60 | 32.74 | 7.00 | |
| 11 | 9.8 | 42.26 | 8.94 | 39.88 | 8.33 | 37.50 | 7.75 | 36.31 | 7.45 | 35.12 | 7.17 | 32.74 | 6.61 | |
| 13 | 11.8 | 42.26 | 8.39 | 39.88 | 7.84 | 37.50 | 7.29 | 36.31 | 7.02 | 35.12 | 6.76 | 32.74 | 6.24 | |
| 15 | 13.7 | 42.26 | 7.92 | 39.88 | 7.40 | 37.50 | 6.89 | 36.31 | 6.64 | 35.12 | 6.39 | 32.74 | 5.91 | |
| 90% | -19.8 | -20 | 23.77 | 8.52 | 23.65 | 8.81 | 23.65 | 9.12 | 23.53 | 9.26 | 23.53 | 9.42 | 23.53 | 9.72 |
| | -18.8 | -19 | 24.12 | 8.61 | 24.12 | 8.91 | 24.01 | 9.21 | 24.01 | 9.35 | 24.01 | 9.50 | 23.88 | 9.80 |
| | -16.7 | -17 | 25.08 | 8.82 | 24.95 | 9.11 | 24.95 | 9.39 | 24.95 | 9.53 | 24.84 | 9.67 | 24.84 | 9.95 |
| | -13.7 | -15 | 26.14 | 9.04 | 26.02 | 9.31 | 26.02 | 9.58 | 25.91 | 9.72 | 25.91 | 9.85 | 25.91 | 10.12 |
| | -11.8 | -13 | 27.21 | 9.25 | 27.21 | 9.51 | 27.09 | 9.77 | 27.09 | 9.91 | 27.09 | 10.03 | 26.98 | 10.29 |
| | -9.8 | -11 | 28.52 | 9.47 | 28.52 | 9.72 | 28.40 | 9.97 | 28.40 | 10.09 | 28.40 | 10.23 | 28.28 | 10.48 |
| | -9.5 | -10 | 29.23 | 9.58 | 29.12 | 9.83 | 29.12 | 10.07 | 29.00 | 10.19 | 29.00 | 10.32 | 29.00 | 10.55 |
| | -8.5 | -9.1 | 29.83 | 9.68 | 29.83 | 9.92 | 29.71 | 10.16 | 29.71 | 10.27 | 29.71 | 10.40 | 29.35 | 10.50 |
| | -7 | -7.6 | 30.90 | 9.84 | 30.90 | 10.07 | 30.78 | 10.30 | 30.78 | 10.42 | 30.78 | 10.53 | 29.35 | 10.02 |
| | -5 | -5.6 | 32.56 | 10.06 | 32.44 | 10.27 | 32.44 | 10.49 | 32.32 | 10.60 | 31.49 | 10.27 | 29.35 | 9.42 |
| | -3 | -3.7 | 34.11 | 10.25 | 34.11 | 10.45 | 33.75 | 10.50 | 32.56 | 10.08 | 31.49 | 9.67 | 29.35 | 8.88 |
| | 0 | -0.7 | 36.96 | 10.54 | 35.89 | 10.28 | 33.75 | 9.52 | 32.56 | 9.15 | 31.49 | 8.79 | 29.35 | 8.07 |
| | 3 | 2.2 | 38.03 | 10.04 | 35.89 | 9.35 | 33.75 | 8.67 | 32.56 | 8.35 | 31.49 | 8.02 | 29.35 | 7.38 |
| | 5 | 4.1 | 38.03 | 9.44 | 35.89 | 8.80 | 33.75 | 8.18 | 32.56 | 7.86 | 31.49 | 7.57 | 29.35 | 6.96 |
| | 7 | 6 | 38.03 | 8.88 | 35.89 | 8.29 | 33.75 | 7.70 | 32.56 | 7.42 | 31.49 | 7.13 | 29.35 | 6.58 |
| 9 | 7.9 | 38.03 | 8.37 | 35.89 | 7.80 | 33.75 | 7.26 | 32.56 | 7.00 | 31.49 | 6.74 | 29.35 | 6.22 | |
| 11 | 9.8 | 38.03 | 7.88 | 35.89 | 7.36 | 33.75 | 6.86 | 32.56 | 6.61 | 31.49 | 6.36 | 29.35 | 5.89 | |
| 13 | 11.8 | 38.03 | 7.42 | 35.89 | 6.94 | 33.75 | 6.47 | 32.56 | 6.24 | 31.49 | 6.01 | 29.35 | 5.56 | |
| 15 | 13.7 | 38.03 | 7.01 | 35.89 | 6.56 | 33.75 | 6.13 | 32.56 | 5.91 | 31.49 | 5.70 | 29.35 | 5.28 | |
| 80% | -19.8 | -20 | 23.69 | 9.10 | 23.57 | 9.37 | 23.57 | 9.64 | 23.57 | 9.77 | 23.45 | 9.91 | 23.45 | 10.17 |
| | -18.8 | -19 | 24.05 | 9.18 | 24.05 | 9.46 | 23.93 | 9.72 | 23.93 | 9.85 | 23.93 | 9.98 | 23.81 | 10.25 |
| | -16.7 | -17 | 25.00 | 9.38 | 24.88 | 9.63 | 24.88 | 9.89 | 24.88 | 10.01 | 24.88 | 10.13 | 24.76 | 10.38 |
| | -13.7 | -15 | 26.07 | 9.57 | 25.95 | 9.81 | 25.95 | 10.06 | 25.95 | 10.17 | 25.83 | 10.29 | 25.83 | 10.54 |
| | -11.8 | -13 | 27.14 | 9.76 | 27.14 | 10.00 | 27.02 | 10.23 | 27.02 | 10.34 | 27.02 | 10.46 | 26.19 | 10.18 |
| | -9.8 | -11 | 28.45 | 9.95 | 28.45 | 10.18 | 28.33 | 10.41 | 28.33 | 10.51 | 28.10 | 10.49 | 26.19 | 9.61 |
| | -9.5 | -10 | 29.17 | 10.06 | 29.04 | 10.27 | 29.05 | 10.49 | 29.05 | 10.60 | 28.10 | 10.18 | 26.19 | 9.33 |
| | -8.5 | -9.1 | 29.76 | 10.15 | 27.66 | 10.36 | 29.64 | 10.57 | 29.05 | 10.33 | 28.10 | 9.91 | 26.19 | 9.08 |
| | -7 | -7.6 | 30.83 | 10.29 | 30.83 | 10.50 | 30.00 | 10.27 | 29.05 | 9.86 | 28.10 | 9.47 | 26.19 | 8.69 |
| | -5 | -5.6 | 32.50 | 10.47 | 31.91 | 10.42 | 30.00 | 9.65 | 29.05 | 9.27 | 28.10 | 8.90 | 26.19 | 8.18 |
| | -3 | -3.7 | 33.81 | 10.53 | 31.91 | 9.81 | 30.00 | 9.08 | 29.05 | 8.74 | 28.10 | 8.39 | 26.19 | 7.72 |
| | 0 | -0.7 | 33.81 | 9.56 | 31.91 | 8.90 | 30.00 | 8.27 | 29.05 | 7.96 | 28.10 | 7.64 | 26.19 | 7.04 |
| | 3 | 2.2 | 33.81 | 8.71 | 31.91 | 8.12 | 30.00 | 7.55 | 29.05 | 7.27 | 28.10 | 7.00 | 26.19 | 6.45 |
| | 5 | 4.1 | 33.81 | 8.20 | 31.91 | 7.65 | 30.00 | 7.12 | 29.05 | 6.86 | 28.10 | 6.61 | 26.19 | 6.10 |
| | 7 | 6 | 33.81 | 7.72 | 31.91 | 7.23 | 30.00 | 6.73 | 29.05 | 6.49 | 28.10 | 6.25 | 26.19 | 5.78 |
| 9 | 7.9 | 33.81 | 7.29 | 31.91 | 6.82 | 30.00 | 6.35 | 29.05 | 6.13 | 28.10 | 5.91 | 26.19 | 5.47 | |
| 11 | 9.8 | 33.81 | 6.89 | 31.91 | 6.44 | 30.00 | 6.01 | 29.05 | 5.80 | 28.10 | 5.59 | 26.19 | 5.19 | |
| 13 | 11.8 | 33.81 | 6.49 | 31.91 | 6.08 | 30.00 | 5.68 | 29.05 | 5.48 | 28.10 | 5.29 | 26.19 | 4.90 | |
| 15 | 13.7 | 33.81 | 6.14 | 31.91 | 5.76 | 30.00 | 5.39 | 29.05 | 5.20 | 28.10 | 5.02 | 26.19 | 4.67 | |

Heating capacity table

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

MVUR335B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 70% | -19.8 | -20 | 23.52 | 9.69 | 23.40 | 9.92 | 23.40 | 10.16 | 23.40 | 10.27 | 23.40 | 10.40 | 22.81 | 10.28 |
| | -18.8 | -19 | 23.87 | 9.77 | 23.87 | 10.00 | 23.76 | 10.23 | 23.76 | 10.34 | 23.76 | 10.46 | 22.81 | 10.07 |
| | -16.7 | -17 | 24.82 | 9.93 | 24.82 | 10.16 | 24.71 | 10.37 | 24.71 | 10.49 | 24.47 | 9.34 | 22.81 | 9.60 |
| | -13.7 | -15 | 25.89 | 10.10 | 25.77 | 10.32 | 25.77 | 10.53 | 25.30 | 10.37 | 24.47 | 9.95 | 22.81 | 9.13 |
| | -11.8 | -13 | 26.96 | 10.27 | 26.96 | 10.47 | 26.25 | 10.23 | 25.30 | 9.83 | 24.47 | 9.43 | 22.81 | 8.65 |
| | -9.8 | -11 | 28.27 | 10.44 | 27.91 | 10.43 | 26.25 | 9.66 | 25.30 | 9.29 | 24.47 | 8.91 | 22.81 | 8.19 |
| | -9.5 | -10 | 28.98 | 10.53 | 27.91 | 10.12 | 26.25 | 9.38 | 25.30 | 9.01 | 24.47 | 8.66 | 22.81 | 7.96 |
| | -8.5 | -9.1 | 29.58 | 10.59 | 27.91 | 9.85 | 26.25 | 9.13 | 25.30 | 8.78 | 24.47 | 8.44 | 22.81 | 7.76 |
| | -7 | -7.6 | 29.58 | 10.11 | 27.91 | 9.41 | 26.25 | 8.73 | 25.30 | 8.40 | 24.47 | 8.07 | 22.81 | 7.43 |
| | -5 | -5.6 | 29.58 | 9.50 | 27.91 | 8.86 | 26.25 | 8.22 | 25.30 | 7.90 | 24.47 | 7.34 | 22.81 | 7.01 |
| | -3 | -3.7 | 29.58 | 8.95 | 27.91 | 8.35 | 26.25 | 7.76 | 25.30 | 7.46 | 24.47 | 7.18 | 22.81 | 6.62 |
| | 0 | -0.7 | 29.58 | 8.14 | 27.91 | 7.61 | 26.25 | 7.08 | 25.30 | 6.82 | 24.47 | 6.57 | 22.81 | 6.07 |
| | 3 | 2.2 | 29.58 | 7.44 | 27.91 | 6.96 | 26.25 | 6.49 | 25.30 | 6.25 | 24.47 | 6.02 | 22.81 | 5.57 |
| | 5 | 4.1 | 29.58 | 7.02 | 27.91 | 6.57 | 26.25 | 6.14 | 25.30 | 5.91 | 24.47 | 5.70 | 22.81 | 5.28 |
| | 7 | 6 | 29.58 | 6.64 | 27.91 | 6.22 | 26.25 | 5.80 | 25.30 | 5.59 | 24.47 | 5.40 | 22.81 | 5.01 |
| 9 | 7.9 | 29.58 | 6.27 | 27.91 | 5.88 | 26.25 | 5.49 | 25.30 | 5.30 | 24.47 | 5.12 | 22.81 | 4.75 | |
| 11 | 9.8 | 29.58 | 5.93 | 27.91 | 5.56 | 26.25 | 5.21 | 25.30 | 5.03 | 24.47 | 4.86 | 22.81 | 4.51 | |
| 13 | 11.8 | 29.58 | 5.61 | 27.91 | 5.27 | 26.25 | 4.93 | 25.30 | 4.77 | 24.47 | 4.60 | 22.81 | 4.28 | |
| 15 | 13.7 | 29.58 | 5.31 | 27.91 | 4.99 | 26.25 | 4.68 | 25.30 | 4.53 | 24.47 | 4.37 | 22.81 | 4.08 | |
| 60% | -19.8 | -20 | 23.45 | 10.28 | 23.33 | 10.47 | 22.50 | 10.08 | 21.79 | 9.68 | 21.07 | 9.30 | 19.64 | 8.53 |
| | -18.8 | -19 | 23.81 | 10.35 | 23.81 | 10.54 | 22.50 | 9.86 | 21.79 | 9.48 | 21.07 | 9.09 | 19.64 | 8.35 |
| | -16.7 | -17 | 24.76 | 10.49 | 23.93 | 10.16 | 22.50 | 9.41 | 21.79 | 9.05 | 21.07 | 8.69 | 19.64 | 7.98 |
| | -13.7 | -15 | 25.36 | 10.37 | 23.93 | 9.65 | 22.50 | 8.95 | 21.79 | 8.61 | 21.07 | 8.27 | 19.64 | 7.60 |
| | -11.8 | -13 | 25.36 | 9.82 | 23.93 | 9.14 | 22.50 | 8.48 | 21.79 | 8.16 | 21.07 | 7.85 | 19.64 | 7.26 |
| | -9.8 | -11 | 25.36 | 9.27 | 23.93 | 8.64 | 22.50 | 8.03 | 21.79 | 7.72 | 21.07 | 7.43 | 19.64 | 6.85 |
| | -9.5 | -10 | 25.36 | 9.01 | 23.93 | 8.40 | 22.50 | 7.80 | 21.79 | 7.52 | 21.07 | 7.22 | 19.64 | 6.66 |
| | -8.5 | -9.1 | 25.36 | 8.78 | 23.93 | 8.19 | 22.50 | 7.61 | 21.79 | 7.33 | 21.07 | 7.04 | 19.64 | 6.50 |
| | -7 | -7.6 | 25.36 | 8.39 | 23.93 | 7.84 | 22.50 | 7.28 | 21.79 | 7.02 | 21.07 | 6.75 | 19.64 | 6.24 |
| | -5 | -5.6 | 25.36 | 7.90 | 23.93 | 7.38 | 22.50 | 6.87 | 21.79 | 6.62 | 21.07 | 6.38 | 19.64 | 5.90 |
| | -3 | -3.7 | 25.36 | 7.46 | 23.93 | 6.98 | 22.50 | 6.50 | 21.79 | 6.27 | 21.07 | 6.04 | 19.64 | 5.58 |
| | 0 | -0.7 | 25.36 | 6.82 | 23.93 | 6.39 | 22.50 | 5.96 | 21.79 | 5.75 | 21.07 | 5.54 | 19.64 | 5.13 |
| | 3 | 2.2 | 25.36 | 6.25 | 23.93 | 5.87 | 22.50 | 5.48 | 21.79 | 5.29 | 21.07 | 5.11 | 19.64 | 4.73 |
| | 5 | 4.1 | 25.36 | 5.91 | 23.93 | 5.55 | 22.50 | 5.19 | 21.79 | 5.02 | 21.07 | 4.84 | 19.64 | 4.50 |
| | 7 | 6 | 25.36 | 5.59 | 23.93 | 5.25 | 22.50 | 4.91 | 21.79 | 4.76 | 21.07 | 4.60 | 19.64 | 4.27 |
| 9 | 7.9 | 25.36 | 5.30 | 23.93 | 4.98 | 22.50 | 4.67 | 21.79 | 4.52 | 21.07 | 4.36 | 19.64 | 4.07 | |
| 11 | 9.8 | 25.36 | 5.03 | 23.93 | 4.73 | 22.50 | 4.44 | 21.79 | 4.29 | 21.07 | 4.14 | 19.64 | 3.87 | |
| 13 | 11.8 | 25.36 | 4.76 | 23.93 | 4.48 | 22.50 | 4.21 | 21.79 | 4.08 | 21.07 | 3.94 | 19.64 | 3.68 | |
| 15 | 13.7 | 25.36 | 4.53 | 23.93 | 4.26 | 22.50 | 4.01 | 21.79 | 3.88 | 21.07 | 3.76 | 19.64 | 3.51 | |
| 50% | -19.8 | -20 | 21.12 | 9.35 | 19.94 | 8.71 | 18.75 | 8.09 | 18.04 | 7.79 | 17.45 | 7.49 | 16.26 | 6.90 |
| | -18.8 | -19 | 21.12 | 9.15 | 19.94 | 8.53 | 18.75 | 7.93 | 18.04 | 7.62 | 17.45 | 7.33 | 16.26 | 6.76 |
| | -16.7 | -17 | 21.12 | 8.73 | 19.94 | 8.14 | 18.75 | 7.58 | 18.04 | 7.29 | 17.45 | 7.02 | 16.26 | 6.48 |
| | -13.7 | -15 | 21.12 | 8.31 | 19.94 | 7.76 | 18.75 | 7.21 | 18.04 | 6.95 | 17.45 | 6.69 | 16.26 | 6.18 |
| | -11.8 | -13 | 21.12 | 7.89 | 19.94 | 7.37 | 18.75 | 6.86 | 18.04 | 6.61 | 17.45 | 6.36 | 16.26 | 5.89 |
| | -9.8 | -11 | 21.12 | 7.47 | 19.94 | 6.99 | 18.75 | 6.51 | 18.04 | 6.27 | 17.45 | 6.05 | 16.26 | 5.59 |
| | -9.5 | -10 | 21.12 | 7.27 | 19.94 | 6.79 | 18.75 | 6.34 | 18.04 | 6.11 | 17.45 | 5.89 | 16.26 | 5.45 |
| | -8.5 | -9.1 | 21.12 | 7.09 | 19.94 | 6.64 | 18.75 | 6.18 | 18.04 | 5.97 | 17.45 | 5.75 | 16.26 | 5.32 |
| | -7 | -7.6 | 21.12 | 6.79 | 19.94 | 6.36 | 18.75 | 5.93 | 18.04 | 5.73 | 17.45 | 5.53 | 16.26 | 5.12 |
| | -5 | -5.6 | 21.12 | 6.41 | 19.94 | 6.01 | 18.75 | 5.62 | 18.04 | 5.42 | 17.45 | 5.23 | 16.26 | 4.85 |
| | -3 | -3.7 | 21.12 | 6.07 | 19.94 | 5.70 | 18.75 | 5.32 | 18.04 | 5.14 | 17.45 | 4.96 | 16.26 | 4.61 |
| | 0 | -0.7 | 21.12 | 5.57 | 19.94 | 5.23 | 18.75 | 4.90 | 18.04 | 4.73 | 17.45 | 4.57 | 16.26 | 4.26 |
| | 3 | 2.2 | 21.12 | 5.13 | 19.94 | 4.82 | 18.75 | 4.52 | 18.04 | 4.37 | 17.45 | 4.22 | 16.26 | 3.94 |
| | 5 | 4.1 | 21.12 | 4.87 | 19.94 | 4.57 | 18.75 | 4.29 | 18.04 | 4.16 | 17.45 | 4.02 | 16.26 | 3.75 |
| | 7 | 6 | 21.12 | 4.62 | 19.94 | 4.35 | 18.75 | 4.09 | 18.04 | 3.95 | 17.45 | 3.83 | 16.26 | 3.58 |
| 9 | 7.9 | 21.12 | 4.38 | 19.94 | 4.13 | 18.75 | 3.88 | 18.04 | 3.77 | 17.45 | 3.65 | 16.26 | 3.41 | |
| 11 | 9.8 | 21.12 | 4.17 | 19.94 | 3.93 | 18.75 | 3.70 | 18.04 | 3.59 | 17.45 | 3.48 | 16.26 | 3.25 | |
| 13 | 11.8 | 21.12 | 3.96 | 19.94 | 3.74 | 18.75 | 3.52 | 18.04 | 3.42 | 17.45 | 3.31 | 16.26 | 3.10 | |
| 15 | 13.7 | 21.12 | 3.77 | 19.94 | 3.57 | 18.75 | 3.36 | 18.04 | 3.26 | 17.45 | 3.16 | 16.26 | 2.97 | |

Heating capacity table

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

MVUR400B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 130% | -19.8 | -20 | 29.14 | 7.91 | 29.00 | 8.46 | 28.86 | 9.02 | 28.86 | 9.30 | 28.72 | 9.58 | 28.72 | 10.14 |
| | -18.8 | -19 | 29.57 | 8.08 | 29.43 | 8.63 | 29.43 | 9.18 | 29.29 | 9.46 | 29.29 | 9.72 | 29.14 | 10.27 |
| | -16.7 | -17 | 30.71 | 8.46 | 30.57 | 8.98 | 30.43 | 9.52 | 30.43 | 9.78 | 30.43 | 10.04 | 30.29 | 10.57 |
| | -13.7 | -15 | 32.00 | 8.85 | 31.86 | 9.36 | 31.71 | 9.87 | 31.71 | 10.11 | 31.57 | 10.38 | 31.57 | 10.89 |
| | -11.8 | -13 | 33.29 | 9.24 | 33.29 | 9.74 | 33.14 | 10.22 | 33.00 | 10.46 | 33.00 | 10.71 | 32.86 | 11.19 |
| | -9.8 | -11 | 34.86 | 9.65 | 34.71 | 10.11 | 34.57 | 10.58 | 34.57 | 10.81 | 34.57 | 11.04 | 34.43 | 11.51 |
| | -9.5 | -10 | 35.71 | 9.85 | 35.57 | 10.30 | 35.43 | 10.75 | 35.43 | 10.99 | 35.28 | 11.20 | 35.28 | 11.65 |
| | -8.5 | -9.1 | 36.43 | 10.03 | 36.29 | 10.46 | 36.29 | 10.91 | 36.14 | 11.13 | 36.14 | 11.35 | 36.00 | 11.80 |
| | -7 | -7.6 | 37.71 | 10.32 | 37.71 | 10.75 | 37.57 | 11.18 | 37.57 | 11.39 | 37.43 | 11.60 | 37.28 | 12.03 |
| | -5 | -5.6 | 39.71 | 10.71 | 39.57 | 11.12 | 39.43 | 11.52 | 39.43 | 11.73 | 39.29 | 11.92 | 39.29 | 12.32 |
| | -3 | -3.7 | 41.57 | 11.06 | 41.43 | 11.45 | 41.43 | 11.83 | 41.28 | 12.03 | 41.28 | 12.22 | 41.14 | 12.60 |
| | 0 | -0.7 | 44.85 | 11.60 | 44.85 | 11.96 | 44.71 | 12.31 | 44.71 | 12.44 | 44.57 | 12.67 | 44.57 | 13.02 |
| | 3 | 2.2 | 48.42 | 12.08 | 48.29 | 12.41 | 48.14 | 12.75 | 48.14 | 12.90 | 48.14 | 13.08 | 48.00 | 13.40 |
| | 5 | 4.1 | 50.85 | 12.38 | 50.71 | 12.70 | 50.71 | 13.01 | 50.57 | 13.17 | 50.57 | 13.33 | 50.43 | 13.63 |
| | 7 | 6 | 53.43 | 12.67 | 53.28 | 12.96 | 53.28 | 13.27 | 53.14 | 13.41 | 53.14 | 13.56 | 51.00 | 13.02 |
| 9 | 7.9 | 56.14 | 12.93 | 56.00 | 13.22 | 56.00 | 13.50 | 55.86 | 13.65 | 54.71 | 13.36 | 51.00 | 12.24 | |
| 11 | 9.8 | 59.00 | 13.20 | 58.86 | 13.46 | 58.57 | 13.63 | 56.57 | 13.09 | 54.71 | 12.56 | 51.00 | 11.52 | |
| 13 | 11.8 | 62.14 | 13.44 | 62.00 | 13.70 | 58.57 | 12.77 | 56.57 | 12.26 | 54.71 | 11.79 | 51.00 | 10.81 | |
| 15 | 13.7 | 65.14 | 13.68 | 62.28 | 12.98 | 58.57 | 12.03 | 56.57 | 11.57 | 54.71 | 11.10 | 51.00 | 10.20 | |
| 120% | -19.8 | -20 | 29.00 | 8.66 | 28.86 | 9.17 | 28.71 | 9.69 | 28.71 | 9.94 | 28.71 | 10.20 | 28.57 | 10.72 |
| | -18.8 | -19 | 29.43 | 8.82 | 29.29 | 9.33 | 29.29 | 9.84 | 29.14 | 10.09 | 29.14 | 10.35 | 29.00 | 10.86 |
| | -16.7 | -17 | 30.57 | 9.17 | 30.43 | 9.66 | 30.24 | 10.14 | 30.29 | 10.39 | 30.29 | 10.64 | 30.14 | 11.12 |
| | -13.7 | -15 | 31.86 | 9.53 | 31.72 | 10.00 | 31.57 | 10.46 | 31.57 | 10.71 | 31.57 | 10.94 | 31.43 | 11.41 |
| | -11.8 | -13 | 33.15 | 9.90 | 33.15 | 10.35 | 33.00 | 10.80 | 33.00 | 11.03 | 32.86 | 11.25 | 32.86 | 11.70 |
| | -9.8 | -11 | 34.71 | 10.27 | 34.57 | 10.70 | 34.57 | 11.13 | 34.43 | 11.35 | 34.43 | 11.55 | 34.29 | 11.99 |
| | -9.5 | -10 | 35.58 | 10.46 | 35.43 | 10.89 | 35.29 | 11.29 | 35.29 | 11.51 | 35.29 | 11.71 | 35.14 | 12.13 |
| | -8.5 | -9.1 | 36.29 | 10.62 | 36.14 | 11.03 | 36.14 | 11.44 | 36.00 | 11.64 | 36.00 | 11.86 | 35.86 | 12.26 |
| | -7 | -7.6 | 37.57 | 10.90 | 37.57 | 11.29 | 37.43 | 11.68 | 37.43 | 11.89 | 37.29 | 12.08 | 37.29 | 12.47 |
| | -5 | -5.6 | 39.57 | 11.25 | 39.43 | 11.63 | 39.28 | 12.00 | 39.28 | 12.19 | 39.28 | 12.38 | 39.15 | 12.75 |
| | -3 | -3.7 | 41.43 | 11.58 | 41.43 | 11.95 | 41.29 | 12.29 | 41.29 | 12.47 | 41.14 | 12.66 | 41.14 | 13.01 |
| | 0 | -0.7 | 44.72 | 12.08 | 44.72 | 12.41 | 44.57 | 12.73 | 44.57 | 12.91 | 44.43 | 13.06 | 44.43 | 13.40 |
| | 3 | 2.2 | 48.29 | 12.53 | 48.14 | 12.83 | 48.14 | 13.14 | 48.00 | 13.30 | 48.00 | 13.44 | 47.00 | 13.37 |
| | 5 | 4.1 | 50.72 | 12.80 | 50.57 | 13.09 | 50.57 | 13.38 | 50.43 | 13.53 | 50.43 | 13.68 | 47.00 | 12.56 |
| | 7 | 6 | 53.29 | 13.06 | 53.29 | 13.34 | 53.15 | 13.62 | 52.29 | 13.43 | 50.57 | 12.88 | 47.00 | 11.82 |
| 9 | 7.9 | 56.00 | 13.33 | 55.86 | 13.59 | 54.00 | 13.14 | 52.29 | 12.62 | 50.57 | 12.11 | 47.00 | 11.12 | |
| 11 | 9.8 | 58.86 | 13.56 | 57.43 | 13.33 | 54.00 | 12.35 | 52.29 | 11.87 | 50.57 | 11.39 | 47.00 | 10.48 | |
| 13 | 11.8 | 61.00 | 13.43 | 57.43 | 12.50 | 54.00 | 11.58 | 52.29 | 11.15 | 50.57 | 10.71 | 47.00 | 9.85 | |
| 15 | 13.7 | 61.00 | 12.64 | 57.43 | 11.77 | 54.00 | 10.93 | 52.29 | 10.51 | 50.57 | 10.10 | 47.00 | 9.30 | |
| 110% | -19.8 | -20 | 28.86 | 9.42 | 28.72 | 9.88 | 28.57 | 10.36 | 28.57 | 10.60 | 28.58 | 10.83 | 28.43 | 11.31 |
| | -18.8 | -19 | 29.29 | 9.56 | 29.14 | 10.03 | 29.14 | 10.49 | 29.14 | 10.73 | 29.00 | 10.96 | 29.00 | 11.42 |
| | -16.7 | -17 | 30.43 | 9.88 | 30.29 | 10.33 | 30.71 | 10.78 | 30.14 | 11.00 | 30.14 | 11.23 | 30.00 | 11.67 |
| | -13.7 | -15 | 31.72 | 10.22 | 31.58 | 10.65 | 31.43 | 11.07 | 31.43 | 11.29 | 31.43 | 11.51 | 31.28 | 11.93 |
| | -11.8 | -13 | 33.00 | 10.56 | 33.00 | 10.97 | 32.86 | 11.38 | 32.86 | 11.58 | 32.71 | 11.79 | 32.71 | 12.21 |
| | -9.8 | -11 | 34.57 | 10.90 | 34.43 | 11.29 | 34.43 | 11.68 | 34.28 | 11.89 | 34.28 | 12.08 | 34.28 | 12.47 |
| | -9.5 | -10 | 35.43 | 11.07 | 35.29 | 11.45 | 35.14 | 11.84 | 35.14 | 12.03 | 35.14 | 12.22 | 35.00 | 12.60 |
| | -8.5 | -9.1 | 36.14 | 11.22 | 36.00 | 11.60 | 36.00 | 11.97 | 35.86 | 12.16 | 35.86 | 12.35 | 35.86 | 11.26 |
| | -7 | -7.6 | 37.43 | 11.48 | 37.43 | 11.83 | 37.29 | 12.19 | 37.29 | 12.38 | 37.29 | 12.56 | 37.14 | 12.92 |
| | -5 | -5.6 | 39.43 | 11.80 | 39.29 | 12.15 | 39.14 | 12.48 | 39.14 | 12.66 | 39.14 | 12.83 | 39.00 | 13.18 |
| | -3 | -3.7 | 41.29 | 12.11 | 41.29 | 12.43 | 41.14 | 12.76 | 41.14 | 12.92 | 41.00 | 13.08 | 41.00 | 13.41 |
| | 0 | -0.7 | 44.57 | 12.56 | 44.57 | 12.86 | 44.43 | 13.17 | 44.43 | 13.31 | 44.43 | 13.47 | 43.14 | 13.21 |
| | 3 | 2.2 | 48.14 | 12.98 | 48.00 | 13.25 | 48.00 | 13.53 | 47.86 | 13.66 | 46.29 | 13.11 | 43.14 | 12.02 |
| | 5 | 4.1 | 50.57 | 13.22 | 50.57 | 13.50 | 49.57 | 13.37 | 47.86 | 12.83 | 46.29 | 12.32 | 43.14 | 11.31 |
| | 7 | 6 | 53.14 | 13.47 | 52.71 | 13.56 | 49.57 | 12.56 | 47.86 | 12.06 | 46.29 | 11.58 | 43.14 | 10.64 |
| 9 | 7.9 | 55.86 | 13.69 | 52.71 | 12.74 | 49.57 | 11.81 | 47.86 | 11.35 | 46.29 | 10.90 | 43.14 | 10.03 | |
| 11 | 9.8 | 55.86 | 12.88 | 52.71 | 11.99 | 49.57 | 11.12 | 47.86 | 10.70 | 46.29 | 10.27 | 43.14 | 9.46 | |
| 13 | 11.8 | 55.86 | 12.08 | 52.71 | 11.25 | 49.57 | 10.45 | 47.86 | 10.06 | 46.29 | 9.66 | 43.14 | 8.91 | |
| 15 | 13.7 | 55.86 | 10.73 | 52.71 | 10.61 | 49.57 | 9.87 | 47.86 | 9.49 | 46.29 | 9.14 | 43.14 | 8.43 | |

Heating capacity table

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

MVUR400B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 100% | -19.8 | -20 | 28.71 | 10.17 | 28.57 | 10.59 | 28.57 | 11.03 | 28.43 | 11.25 | 28.43 | 11.45 | 28.29 | 11.89 |
| | -18.8 | -19 | 29.14 | 10.30 | 29.14 | 10.72 | 29.00 | 11.15 | 29.00 | 11.36 | 28.86 | 11.58 | 28.86 | 12.00 |
| | -16.7 | -17 | 30.29 | 10.59 | 30.14 | 11.00 | 30.14 | 11.41 | 30.00 | 11.61 | 30.00 | 11.81 | 30.00 | 12.22 |
| | -13.7 | -15 | 31.57 | 10.90 | 31.43 | 11.29 | 31.28 | 11.68 | 31.28 | 11.89 | 31.28 | 12.08 | 31.14 | 12.47 |
| | -11.8 | -13 | 32.86 | 11.22 | 32.86 | 11.58 | 32.72 | 11.96 | 32.72 | 12.15 | 32.72 | 12.34 | 32.57 | 12.72 |
| | -9.8 | -11 | 34.43 | 11.52 | 34.29 | 11.89 | 34.29 | 12.24 | 34.29 | 12.43 | 34.14 | 12.60 | 34.14 | 12.95 |
| | -9.5 | -10 | 35.28 | 11.68 | 35.15 | 12.03 | 35.15 | 12.38 | 35.00 | 12.56 | 35.00 | 12.73 | 34.86 | 13.08 |
| | -8.5 | -9.1 | 36.00 | 11.81 | 35.86 | 12.16 | 35.86 | 12.50 | 35.86 | 12.67 | 35.72 | 12.85 | 35.72 | 13.18 |
| | -7 | -7.6 | 37.29 | 12.05 | 37.29 | 12.38 | 37.14 | 12.70 | 37.14 | 12.88 | 37.14 | 13.04 | 37.00 | 13.37 |
| | -5 | -5.6 | 39.29 | 12.35 | 39.14 | 12.66 | 39.14 | 12.98 | 39.00 | 13.12 | 39.00 | 13.28 | 38.86 | 13.60 |
| | -3 | -3.7 | 41.14 | 12.63 | 41.14 | 11.47 | 41.00 | 13.22 | 41.00 | 13.37 | 41.00 | 13.52 | 39.29 | 12.95 |
| | 0 | -0.7 | 44.43 | 13.04 | 44.43 | 13.31 | 44.28 | 13.59 | 43.57 | 13.37 | 42.14 | 12.82 | 39.29 | 11.76 |
| | 3 | 2.2 | 48.00 | 13.41 | 47.86 | 13.66 | 45.00 | 12.64 | 43.57 | 12.15 | 42.14 | 11.67 | 39.29 | 10.71 |
| | 5 | 4.1 | 50.43 | 13.66 | 47.86 | 12.83 | 45.00 | 11.89 | 43.57 | 11.44 | 42.14 | 10.99 | 39.29 | 10.10 |
| | 7 | 6 | 50.72 | 12.96 | 47.86 | 12.06 | 45.00 | 11.19 | 43.57 | 10.77 | 42.14 | 10.35 | 39.29 | 9.52 |
| | 9 | 7.9 | 50.72 | 12.18 | 47.86 | 11.35 | 45.00 | 10.54 | 43.57 | 10.01 | 42.14 | 9.75 | 39.29 | 8.98 |
| 11 | 9.8 | 50.72 | 11.47 | 47.86 | 10.70 | 45.00 | 9.94 | 43.57 | 9.56 | 42.14 | 9.20 | 39.29 | 8.49 | |
| 13 | 11.8 | 50.72 | 10.77 | 47.86 | 10.06 | 45.00 | 9.36 | 43.57 | 9.01 | 42.14 | 8.68 | 39.29 | 8.01 | |
| 15 | 13.7 | 50.72 | 10.16 | 47.86 | 9.49 | 45.00 | 8.84 | 43.57 | 8.52 | 42.14 | 8.20 | 39.29 | 7.59 | |
| 90% | -19.8 | -20 | 28.52 | 10.93 | 28.38 | 11.31 | 28.38 | 11.70 | 28.24 | 11.89 | 28.24 | 12.09 | 28.24 | 12.47 |
| | -18.8 | -19 | 28.95 | 11.04 | 28.95 | 11.44 | 28.81 | 11.81 | 28.81 | 12.00 | 28.81 | 12.19 | 28.66 | 12.57 |
| | -16.7 | -17 | 30.09 | 11.32 | 29.95 | 11.68 | 29.95 | 12.05 | 29.95 | 12.24 | 29.80 | 12.41 | 29.80 | 12.77 |
| | -13.7 | -15 | 31.37 | 11.60 | 31.23 | 11.95 | 31.23 | 12.29 | 31.09 | 12.47 | 31.09 | 12.64 | 31.09 | 12.99 |
| | -11.8 | -13 | 32.66 | 11.87 | 32.66 | 12.21 | 32.51 | 12.54 | 32.51 | 12.72 | 32.51 | 12.88 | 32.37 | 13.21 |
| | -9.8 | -11 | 34.23 | 12.15 | 34.23 | 12.47 | 34.08 | 12.79 | 34.08 | 12.95 | 34.08 | 13.12 | 33.94 | 13.44 |
| | -9.5 | -10 | 35.08 | 12.29 | 34.94 | 12.61 | 34.94 | 12.92 | 34.80 | 13.08 | 34.80 | 13.24 | 34.80 | 13.54 |
| | -8.5 | -9.1 | 35.79 | 12.43 | 35.79 | 12.73 | 35.65 | 13.04 | 35.65 | 13.18 | 35.65 | 13.34 | 35.22 | 13.47 |
| | -7 | -7.6 | 37.08 | 12.63 | 37.08 | 12.92 | 36.94 | 13.22 | 36.94 | 13.37 | 36.94 | 13.51 | 35.22 | 12.86 |
| | -5 | -5.6 | 39.07 | 12.90 | 38.93 | 13.18 | 38.93 | 13.46 | 38.79 | 13.60 | 37.79 | 13.18 | 35.22 | 12.09 |
| | -3 | -3.7 | 40.93 | 13.15 | 40.93 | 13.41 | 40.50 | 13.47 | 39.07 | 12.93 | 37.79 | 12.41 | 35.22 | 11.39 |
| | 0 | -0.7 | 44.35 | 13.53 | 43.07 | 13.20 | 40.50 | 12.22 | 39.07 | 11.74 | 37.79 | 11.28 | 35.22 | 10.36 |
| | 3 | 2.2 | 45.64 | 12.89 | 43.07 | 12.00 | 40.50 | 11.13 | 39.07 | 10.71 | 37.79 | 10.29 | 35.22 | 9.47 |
| | 5 | 4.1 | 45.64 | 12.12 | 43.07 | 11.29 | 40.50 | 10.49 | 39.07 | 10.09 | 37.79 | 9.71 | 35.22 | 8.94 |
| | 7 | 6 | 45.64 | 11.39 | 43.07 | 10.64 | 40.50 | 9.88 | 39.07 | 9.52 | 37.79 | 9.16 | 35.22 | 8.44 |
| | 9 | 7.9 | 45.64 | 10.74 | 43.07 | 10.01 | 40.50 | 9.31 | 39.07 | 8.98 | 37.79 | 8.65 | 35.22 | 7.98 |
| 11 | 9.8 | 45.64 | 10.11 | 43.07 | 9.45 | 40.50 | 8.81 | 39.07 | 8.49 | 37.79 | 8.17 | 35.22 | 7.56 | |
| 13 | 11.8 | 45.64 | 9.52 | 43.07 | 8.91 | 40.50 | 8.30 | 39.07 | 8.01 | 37.79 | 7.72 | 35.22 | 7.14 | |
| 15 | 13.7 | 45.64 | 9.00 | 43.07 | 8.41 | 40.50 | 7.86 | 39.07 | 7.59 | 37.79 | 7.31 | 35.22 | 6.77 | |
| 80% | -19.8 | -20 | 28.43 | 11.68 | 28.29 | 12.02 | 28.29 | 12.37 | 28.29 | 12.54 | 28.14 | 12.72 | 28.14 | 13.05 |
| | -18.8 | -19 | 28.86 | 11.79 | 28.86 | 12.13 | 28.71 | 12.47 | 28.71 | 12.64 | 28.71 | 12.80 | 28.57 | 13.15 |
| | -16.7 | -17 | 30.00 | 12.03 | 29.86 | 12.35 | 29.86 | 12.69 | 29.86 | 12.85 | 29.86 | 13.01 | 29.71 | 13.33 |
| | -13.7 | -15 | 31.28 | 12.28 | 31.14 | 12.58 | 31.14 | 12.90 | 31.14 | 13.05 | 31.00 | 13.21 | 31.00 | 13.53 |
| | -11.8 | -13 | 32.57 | 12.53 | 32.57 | 12.83 | 32.43 | 13.12 | 32.43 | 13.27 | 32.43 | 13.43 | 31.43 | 13.06 |
| | -9.8 | -11 | 34.14 | 12.77 | 34.14 | 13.06 | 34.00 | 13.35 | 34.00 | 13.49 | 33.71 | 13.46 | 31.43 | 12.34 |
| | -9.5 | -10 | 35.00 | 12.90 | 34.85 | 13.18 | 34.86 | 13.46 | 34.86 | 13.60 | 33.71 | 13.06 | 31.43 | 11.97 |
| | -8.5 | -9.1 | 35.72 | 13.02 | 33.20 | 13.30 | 35.57 | 13.56 | 34.86 | 13.25 | 33.71 | 12.72 | 31.43 | 11.65 |
| | -7 | -7.6 | 37.00 | 13.21 | 37.00 | 13.47 | 36.00 | 13.18 | 34.86 | 12.66 | 33.71 | 12.15 | 31.43 | 11.15 |
| | -5 | -5.6 | 39.00 | 13.44 | 38.29 | 13.37 | 36.00 | 12.38 | 34.86 | 11.90 | 33.71 | 11.42 | 31.43 | 10.49 |
| | -3 | -3.7 | 40.57 | 13.52 | 38.29 | 12.58 | 36.00 | 11.65 | 34.86 | 11.22 | 33.71 | 10.77 | 31.43 | 9.91 |
| | 0 | -0.7 | 40.57 | 12.27 | 38.29 | 11.42 | 36.00 | 10.61 | 34.86 | 10.22 | 33.71 | 9.81 | 31.43 | 9.04 |
| | 3 | 2.2 | 40.57 | 11.17 | 38.29 | 10.42 | 36.00 | 9.69 | 34.86 | 9.33 | 33.71 | 8.98 | 31.43 | 8.28 |
| | 5 | 4.1 | 40.57 | 10.52 | 38.29 | 9.82 | 36.00 | 9.14 | 34.86 | 8.81 | 33.71 | 8.49 | 31.43 | 7.83 |
| | 7 | 6 | 40.57 | 9.91 | 38.29 | 9.27 | 36.00 | 8.63 | 34.86 | 8.33 | 33.71 | 8.02 | 31.43 | 7.41 |
| | 9 | 7.9 | 40.57 | 9.36 | 38.29 | 8.75 | 36.00 | 8.15 | 34.86 | 7.86 | 33.71 | 7.59 | 31.43 | 7.02 |
| 11 | 9.8 | 40.57 | 8.84 | 38.29 | 8.27 | 36.00 | 7.72 | 34.86 | 7.44 | 33.71 | 7.18 | 31.43 | 6.66 | |
| 13 | 11.8 | 40.57 | 8.33 | 38.29 | 7.80 | 36.00 | 7.29 | 34.86 | 7.03 | 33.71 | 6.79 | 31.43 | 6.29 | |
| 15 | 13.7 | 40.57 | 7.88 | 38.29 | 7.40 | 36.00 | 6.92 | 34.86 | 6.67 | 33.71 | 6.44 | 31.43 | 5.99 | |

Heating capacity table

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

MVUR400B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 70% | -19.8 | -20 | 28.22 | 12.44 | 28.08 | 12.73 | 28.08 | 13.04 | 28.08 | 13.18 | 28.08 | 13.34 | 27.37 | 13.19 |
| | -18.8 | -19 | 28.65 | 12.54 | 28.65 | 12.83 | 28.51 | 13.12 | 28.51 | 13.27 | 28.51 | 13.43 | 27.37 | 12.92 |
| | -16.7 | -17 | 29.79 | 12.74 | 29.79 | 13.04 | 29.65 | 13.31 | 29.65 | 13.46 | 29.36 | 11.99 | 27.37 | 12.32 |
| | -13.7 | -15 | 31.07 | 12.96 | 30.93 | 13.24 | 30.93 | 13.51 | 30.36 | 13.31 | 29.36 | 12.77 | 27.37 | 11.71 |
| | -11.8 | -13 | 32.35 | 13.18 | 32.35 | 13.44 | 31.50 | 13.12 | 30.36 | 12.61 | 29.36 | 12.11 | 27.37 | 11.10 |
| | -9.8 | -11 | 33.92 | 13.40 | 33.49 | 13.38 | 31.50 | 12.40 | 30.36 | 11.92 | 29.36 | 11.44 | 27.37 | 10.51 |
| | -9.5 | -10 | 34.78 | 13.51 | 33.49 | 12.99 | 31.50 | 12.03 | 30.36 | 11.57 | 29.36 | 11.12 | 27.37 | 10.22 |
| | -8.5 | -9.1 | 35.49 | 13.59 | 33.49 | 12.64 | 31.50 | 11.71 | 30.36 | 11.26 | 29.36 | 10.83 | 27.37 | 9.95 |
| | -7 | -7.6 | 35.49 | 12.98 | 33.49 | 12.08 | 31.50 | 11.20 | 30.36 | 10.78 | 29.36 | 10.36 | 27.37 | 9.53 |
| | -5 | -5.6 | 35.49 | 12.19 | 33.49 | 11.36 | 31.50 | 10.55 | 30.36 | 10.14 | 29.36 | 11.98 | 27.37 | 9.00 |
| | -3 | -3.7 | 35.49 | 11.48 | 33.49 | 10.71 | 31.50 | 9.95 | 30.36 | 9.58 | 29.36 | 9.21 | 27.37 | 8.50 |
| | 0 | -0.7 | 35.49 | 10.45 | 33.49 | 9.77 | 31.50 | 9.08 | 30.36 | 8.75 | 29.36 | 8.43 | 27.37 | 7.79 |
| | 3 | 2.2 | 35.49 | 9.55 | 33.49 | 8.94 | 31.50 | 8.33 | 30.36 | 8.02 | 29.36 | 7.73 | 27.37 | 7.15 |
| | 5 | 4.1 | 35.49 | 9.01 | 33.49 | 8.43 | 31.50 | 7.88 | 30.36 | 7.59 | 29.36 | 7.31 | 27.37 | 6.77 |
| | 7 | 6 | 35.49 | 8.52 | 33.49 | 7.98 | 31.50 | 7.44 | 30.36 | 7.18 | 29.36 | 6.93 | 27.37 | 6.42 |
| | 9 | 7.9 | 35.49 | 8.05 | 33.49 | 7.54 | 31.50 | 7.05 | 30.36 | 6.80 | 29.36 | 6.57 | 27.37 | 6.09 |
| 11 | 9.8 | 35.49 | 7.61 | 33.49 | 7.14 | 31.50 | 6.68 | 30.36 | 6.45 | 29.36 | 6.23 | 27.37 | 5.78 | |
| 13 | 11.8 | 35.49 | 7.19 | 33.49 | 6.76 | 31.50 | 6.32 | 30.36 | 6.12 | 29.36 | 5.90 | 27.37 | 5.49 | |
| 15 | 13.7 | 35.49 | 6.82 | 33.49 | 6.41 | 31.50 | 6.00 | 30.36 | 5.81 | 29.36 | 5.61 | 27.37 | 5.23 | |
| 60% | -19.8 | -20 | 28.14 | 13.19 | 28.00 | 13.44 | 27.00 | 12.93 | 26.14 | 12.42 | 25.29 | 11.93 | 23.57 | 10.94 |
| | -18.8 | -19 | 28.57 | 13.28 | 28.57 | 13.53 | 27.00 | 12.66 | 26.14 | 12.16 | 25.29 | 11.67 | 23.57 | 10.71 |
| | -16.7 | -17 | 29.71 | 13.46 | 28.71 | 13.03 | 27.00 | 12.08 | 26.14 | 11.61 | 25.29 | 11.15 | 23.57 | 10.24 |
| | -13.7 | -15 | 30.43 | 13.31 | 28.71 | 12.38 | 27.00 | 11.48 | 26.14 | 11.04 | 25.29 | 10.61 | 23.57 | 9.75 |
| | -11.8 | -13 | 30.43 | 12.60 | 28.71 | 11.73 | 27.00 | 10.88 | 26.14 | 10.48 | 25.29 | 10.07 | 23.57 | 9.31 |
| | -9.8 | -11 | 30.43 | 11.90 | 28.71 | 11.09 | 27.00 | 10.30 | 26.14 | 9.91 | 25.29 | 9.53 | 23.57 | 8.79 |
| | -9.5 | -10 | 30.43 | 11.57 | 28.71 | 10.78 | 27.00 | 10.01 | 26.14 | 9.65 | 25.29 | 9.27 | 23.57 | 8.54 |
| | -8.5 | -9.1 | 30.43 | 11.26 | 28.71 | 10.51 | 27.00 | 9.77 | 26.14 | 9.40 | 25.29 | 9.04 | 23.57 | 8.34 |
| | -7 | -7.6 | 30.43 | 10.77 | 28.71 | 10.06 | 27.00 | 9.34 | 26.14 | 9.01 | 25.29 | 8.66 | 23.57 | 8.01 |
| | -5 | -5.6 | 30.43 | 10.14 | 28.71 | 9.47 | 27.00 | 8.82 | 26.14 | 8.50 | 25.29 | 8.18 | 23.57 | 7.57 |
| | -3 | -3.7 | 30.43 | 9.58 | 28.71 | 8.95 | 27.00 | 8.34 | 26.14 | 8.05 | 25.29 | 7.75 | 23.57 | 7.16 |
| | 0 | -0.7 | 30.43 | 8.75 | 28.71 | 8.20 | 27.00 | 7.64 | 26.14 | 7.38 | 25.29 | 7.11 | 23.57 | 6.58 |
| | 3 | 2.2 | 30.43 | 8.02 | 28.71 | 7.53 | 27.00 | 7.03 | 26.14 | 6.79 | 25.29 | 6.55 | 23.57 | 6.07 |
| | 5 | 4.1 | 30.43 | 7.59 | 28.71 | 7.12 | 27.00 | 6.66 | 26.14 | 6.44 | 25.29 | 6.21 | 23.57 | 5.77 |
| | 7 | 6 | 30.43 | 7.18 | 28.71 | 6.74 | 27.00 | 6.31 | 26.14 | 6.10 | 25.29 | 5.90 | 23.57 | 5.48 |
| | 9 | 7.9 | 30.43 | 6.80 | 28.71 | 6.39 | 27.00 | 5.99 | 26.14 | 5.80 | 25.29 | 5.59 | 23.57 | 5.22 |
| 11 | 9.8 | 30.43 | 6.45 | 28.71 | 6.07 | 27.00 | 5.70 | 26.14 | 5.51 | 25.29 | 5.32 | 23.57 | 4.97 | |
| 13 | 11.8 | 30.43 | 6.10 | 28.71 | 5.75 | 27.00 | 5.41 | 26.14 | 5.23 | 25.29 | 5.06 | 23.57 | 4.72 | |
| 15 | 13.7 | 30.43 | 5.81 | 28.71 | 5.46 | 27.00 | 5.14 | 26.14 | 4.98 | 25.29 | 4.82 | 23.57 | 4.50 | |
| 50% | -19.8 | -20 | 25.35 | 12.00 | 23.92 | 11.17 | 22.50 | 10.38 | 21.65 | 10.00 | 20.93 | 9.61 | 19.51 | 8.85 |
| | -18.8 | -19 | 25.35 | 11.74 | 23.92 | 10.94 | 22.50 | 10.17 | 21.65 | 9.78 | 20.93 | 9.40 | 19.51 | 8.68 |
| | -16.7 | -17 | 25.35 | 11.20 | 23.92 | 10.45 | 22.50 | 9.72 | 21.65 | 9.36 | 20.93 | 9.01 | 19.51 | 8.31 |
| | -13.7 | -15 | 25.35 | 10.67 | 23.92 | 9.95 | 22.50 | 9.26 | 21.65 | 8.92 | 20.93 | 8.59 | 19.51 | 7.93 |
| | -11.8 | -13 | 25.35 | 10.13 | 23.92 | 9.46 | 22.50 | 8.81 | 21.65 | 8.49 | 20.93 | 8.17 | 19.51 | 7.56 |
| | -9.8 | -11 | 25.35 | 9.59 | 23.92 | 8.97 | 22.50 | 8.36 | 21.65 | 8.05 | 20.93 | 7.76 | 19.51 | 7.18 |
| | -9.5 | -10 | 25.35 | 9.33 | 23.92 | 8.72 | 22.50 | 8.14 | 21.65 | 7.85 | 20.93 | 7.56 | 19.51 | 6.99 |
| | -8.5 | -9.1 | 25.35 | 9.10 | 23.92 | 8.52 | 22.50 | 7.93 | 21.65 | 7.66 | 20.93 | 7.38 | 19.51 | 6.83 |
| | -7 | -7.6 | 25.35 | 8.72 | 23.92 | 8.17 | 22.50 | 7.61 | 21.65 | 7.35 | 20.93 | 7.09 | 19.51 | 6.57 |
| | -5 | -5.6 | 25.35 | 8.23 | 23.92 | 7.72 | 22.50 | 7.21 | 21.65 | 6.96 | 20.93 | 6.71 | 19.51 | 6.22 |
| | -3 | -3.7 | 25.35 | 7.79 | 23.92 | 7.31 | 22.50 | 6.83 | 21.65 | 6.60 | 20.93 | 6.36 | 19.51 | 5.91 |
| | 0 | -0.7 | 25.35 | 7.15 | 23.92 | 6.71 | 22.50 | 6.29 | 21.65 | 6.07 | 20.93 | 5.87 | 19.51 | 5.46 |
| | 3 | 2.2 | 25.35 | 6.58 | 23.92 | 6.19 | 22.50 | 5.80 | 21.65 | 5.61 | 20.93 | 5.42 | 19.51 | 5.06 |
| | 5 | 4.1 | 25.35 | 6.25 | 23.92 | 5.87 | 22.50 | 5.51 | 21.65 | 5.33 | 20.93 | 5.16 | 19.51 | 4.81 |
| | 7 | 6 | 25.35 | 5.93 | 23.92 | 5.58 | 22.50 | 5.25 | 21.65 | 5.07 | 20.93 | 4.91 | 19.51 | 4.59 |
| | 9 | 7.9 | 25.35 | 5.62 | 23.92 | 5.30 | 22.50 | 4.98 | 21.65 | 4.84 | 20.93 | 4.68 | 19.51 | 4.37 |
| 11 | 9.8 | 25.35 | 5.35 | 23.92 | 5.04 | 22.50 | 4.75 | 21.65 | 4.61 | 20.93 | 4.46 | 19.51 | 4.17 | |
| 13 | 11.8 | 25.35 | 5.09 | 23.92 | 4.80 | 22.50 | 4.52 | 21.65 | 4.39 | 20.93 | 4.24 | 19.51 | 3.98 | |
| 15 | 13.7 | 25.35 | 4.84 | 23.92 | 4.58 | 22.50 | 4.32 | 21.65 | 4.19 | 20.93 | 4.05 | 19.51 | 3.81 | |

Heating capacity table

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

MVUR450B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 130% | -19.8 | -20 | 32.38 | 9.04 | 32.22 | 9.67 | 32.07 | 10.32 | 32.07 | 10.63 | 31.91 | 10.95 | 31.91 | 11.59 |
| | -18.8 | -19 | 32.86 | 9.24 | 32.70 | 9.87 | 32.70 | 10.50 | 32.54 | 10.81 | 32.54 | 11.11 | 32.38 | 11.74 |
| | -16.7 | -17 | 34.13 | 9.67 | 33.97 | 10.27 | 33.81 | 10.88 | 33.81 | 11.18 | 33.81 | 11.48 | 33.65 | 12.08 |
| | -13.7 | -15 | 35.55 | 10.12 | 35.40 | 10.70 | 35.24 | 11.28 | 35.24 | 11.56 | 35.08 | 11.86 | 35.08 | 12.44 |
| | -11.8 | -13 | 36.99 | 10.56 | 36.99 | 11.13 | 36.83 | 11.68 | 36.67 | 11.96 | 36.67 | 12.24 | 36.51 | 12.79 |
| | -9.8 | -11 | 38.73 | 11.03 | 38.57 | 11.56 | 38.41 | 12.09 | 38.41 | 12.36 | 38.41 | 12.62 | 38.25 | 13.16 |
| | -9.5 | -10 | 39.68 | 11.26 | 39.53 | 11.78 | 39.37 | 12.29 | 39.37 | 12.56 | 39.21 | 12.81 | 39.21 | 13.32 |
| | -8.5 | -9.1 | 40.47 | 11.46 | 40.32 | 11.96 | 40.32 | 12.47 | 40.16 | 12.72 | 40.16 | 12.97 | 40.00 | 13.49 |
| | -7 | -7.6 | 41.91 | 11.79 | 41.91 | 12.29 | 41.75 | 12.77 | 41.75 | 13.02 | 41.59 | 13.25 | 41.43 | 13.75 |
| | -5 | -5.6 | 44.13 | 12.24 | 43.97 | 12.71 | 43.81 | 13.17 | 43.81 | 13.40 | 43.65 | 13.62 | 43.65 | 14.09 |
| | -3 | -3.7 | 46.19 | 12.64 | 46.03 | 13.09 | 46.03 | 13.52 | 45.87 | 13.75 | 45.87 | 13.97 | 45.71 | 14.40 |
| | 0 | -0.7 | 49.84 | 13.25 | 49.84 | 13.67 | 49.68 | 14.07 | 49.68 | 14.22 | 49.52 | 14.48 | 49.52 | 14.88 |
| | 3 | 2.2 | 53.81 | 13.80 | 53.65 | 14.19 | 53.49 | 14.57 | 53.49 | 14.75 | 53.49 | 14.95 | 53.33 | 15.32 |
| | 5 | 4.1 | 56.51 | 14.15 | 56.35 | 14.52 | 56.35 | 14.87 | 56.19 | 15.05 | 56.19 | 15.23 | 56.03 | 15.58 |
| | 7 | 6 | 59.36 | 14.49 | 59.21 | 14.82 | 59.21 | 15.17 | 59.05 | 15.33 | 59.05 | 15.50 | 56.67 | 14.88 |
| 9 | 7.9 | 62.38 | 14.78 | 62.22 | 15.12 | 62.22 | 15.43 | 62.06 | 15.60 | 60.79 | 15.27 | 56.67 | 13.99 | |
| 11 | 9.8 | 65.55 | 15.08 | 65.40 | 15.38 | 65.08 | 15.58 | 62.86 | 14.97 | 60.79 | 14.35 | 56.67 | 13.17 | |
| 13 | 11.8 | 69.04 | 15.36 | 68.89 | 15.66 | 65.08 | 14.60 | 62.86 | 14.02 | 60.79 | 13.47 | 56.67 | 12.36 | |
| 15 | 13.7 | 72.38 | 15.63 | 69.20 | 14.83 | 65.08 | 13.75 | 62.86 | 13.22 | 60.79 | 12.69 | 56.67 | 11.66 | |
| 120% | -19.8 | -20 | 32.22 | 9.90 | 32.06 | 10.48 | 31.90 | 11.08 | 31.90 | 11.36 | 31.90 | 11.66 | 31.75 | 12.26 |
| | -18.8 | -19 | 32.70 | 10.08 | 32.54 | 10.66 | 32.54 | 11.25 | 32.38 | 11.53 | 32.38 | 11.83 | 32.22 | 12.41 |
| | -16.7 | -17 | 33.97 | 10.48 | 33.81 | 11.05 | 33.60 | 11.59 | 33.65 | 11.88 | 33.65 | 12.16 | 33.49 | 12.71 |
| | -13.7 | -15 | 35.40 | 10.90 | 35.24 | 11.43 | 35.08 | 11.96 | 35.08 | 12.24 | 35.08 | 12.51 | 34.92 | 13.04 |
| | -11.8 | -13 | 36.83 | 11.31 | 36.83 | 11.83 | 36.67 | 12.34 | 36.67 | 12.61 | 36.51 | 12.86 | 36.51 | 13.37 |
| | -9.8 | -11 | 38.57 | 11.74 | 38.41 | 12.23 | 38.41 | 12.72 | 38.25 | 12.97 | 38.25 | 13.21 | 38.10 | 13.70 |
| | -9.5 | -10 | 39.53 | 11.96 | 39.37 | 12.44 | 39.21 | 12.91 | 39.21 | 13.16 | 39.21 | 13.39 | 39.05 | 13.87 |
| | -8.5 | -9.1 | 40.32 | 12.14 | 40.16 | 12.61 | 40.16 | 13.07 | 40.00 | 13.31 | 40.00 | 13.55 | 39.84 | 14.02 |
| | -7 | -7.6 | 41.75 | 12.46 | 41.75 | 12.91 | 41.59 | 13.35 | 41.59 | 13.59 | 41.43 | 13.80 | 41.43 | 14.25 |
| | -5 | -5.6 | 43.97 | 12.86 | 43.81 | 13.29 | 43.65 | 13.72 | 43.65 | 13.94 | 43.65 | 14.15 | 43.50 | 14.57 |
| | -3 | -3.7 | 46.04 | 13.24 | 46.04 | 13.65 | 45.88 | 14.05 | 45.88 | 14.25 | 45.72 | 14.47 | 45.72 | 14.87 |
| | 0 | -0.7 | 49.68 | 13.80 | 49.68 | 14.19 | 49.53 | 14.55 | 49.53 | 14.75 | 49.37 | 14.93 | 49.37 | 15.32 |
| | 3 | 2.2 | 53.65 | 14.32 | 53.49 | 14.67 | 53.49 | 15.02 | 53.33 | 15.20 | 53.33 | 15.36 | 52.22 | 15.28 |
| | 5 | 4.1 | 56.35 | 14.63 | 56.19 | 14.97 | 56.19 | 15.30 | 56.03 | 15.46 | 56.03 | 15.63 | 52.22 | 14.35 |
| | 7 | 6 | 59.21 | 14.93 | 59.21 | 15.25 | 59.05 | 15.56 | 58.10 | 15.35 | 56.19 | 14.72 | 52.22 | 13.51 |
| 9 | 7.9 | 62.23 | 15.23 | 62.07 | 15.53 | 60.00 | 15.02 | 58.10 | 14.42 | 56.19 | 13.84 | 52.22 | 12.71 | |
| 11 | 9.8 | 65.40 | 15.50 | 63.81 | 15.23 | 60.00 | 14.12 | 58.10 | 13.57 | 56.19 | 13.02 | 52.22 | 11.98 | |
| 13 | 11.8 | 67.78 | 15.35 | 63.81 | 14.28 | 60.00 | 13.24 | 58.10 | 12.74 | 56.19 | 12.24 | 52.22 | 11.26 | |
| 15 | 13.7 | 67.78 | 14.45 | 63.81 | 13.46 | 60.00 | 12.49 | 58.10 | 12.01 | 56.19 | 11.54 | 52.22 | 10.63 | |
| 110% | -19.8 | -20 | 32.06 | 10.76 | 31.91 | 11.29 | 31.75 | 11.84 | 31.75 | 12.11 | 31.76 | 12.38 | 31.59 | 12.92 |
| | -18.8 | -19 | 32.54 | 10.93 | 32.38 | 11.46 | 32.38 | 11.99 | 32.38 | 12.26 | 32.22 | 12.52 | 32.22 | 13.06 |
| | -16.7 | -17 | 33.81 | 11.29 | 33.65 | 11.81 | 34.12 | 12.33 | 33.49 | 12.57 | 33.49 | 12.84 | 33.33 | 13.34 |
| | -13.7 | -15 | 35.24 | 11.68 | 35.09 | 12.18 | 34.92 | 12.66 | 34.92 | 12.91 | 34.92 | 13.16 | 34.76 | 13.64 |
| | -11.8 | -13 | 36.67 | 12.08 | 36.67 | 12.54 | 36.51 | 13.01 | 36.51 | 13.24 | 36.35 | 13.47 | 36.35 | 13.95 |
| | -9.8 | -11 | 38.41 | 12.46 | 38.25 | 12.91 | 38.25 | 13.36 | 38.09 | 13.59 | 38.09 | 13.80 | 38.09 | 14.25 |
| | -9.5 | -10 | 39.37 | 12.66 | 39.21 | 13.09 | 39.05 | 13.54 | 39.05 | 13.75 | 39.05 | 13.97 | 38.89 | 14.40 |
| | -8.5 | -9.1 | 40.16 | 12.82 | 40.00 | 13.26 | 40.00 | 13.69 | 39.84 | 13.90 | 39.84 | 14.12 | 39.84 | 12.87 |
| | -7 | -7.6 | 41.59 | 13.12 | 41.59 | 13.52 | 41.43 | 13.94 | 41.43 | 14.15 | 41.43 | 14.35 | 41.27 | 14.77 |
| | -5 | -5.6 | 43.81 | 13.49 | 43.65 | 13.89 | 43.49 | 14.27 | 43.49 | 14.47 | 43.49 | 14.67 | 43.33 | 15.07 |
| | -3 | -3.7 | 45.88 | 13.84 | 45.88 | 14.20 | 45.72 | 14.58 | 45.72 | 14.77 | 45.56 | 14.95 | 45.56 | 15.33 |
| | 0 | -0.7 | 49.52 | 14.35 | 49.52 | 14.70 | 49.37 | 15.05 | 49.37 | 15.22 | 49.37 | 15.40 | 47.94 | 15.10 |
| | 3 | 2.2 | 53.49 | 14.83 | 53.33 | 15.15 | 53.33 | 15.46 | 53.17 | 15.61 | 51.43 | 14.98 | 47.94 | 13.74 |
| | 5 | 4.1 | 56.19 | 15.12 | 56.19 | 15.43 | 55.08 | 15.28 | 53.17 | 14.67 | 51.43 | 14.09 | 47.94 | 12.92 |
| | 7 | 6 | 59.05 | 15.40 | 58.57 | 15.50 | 55.08 | 14.35 | 53.17 | 13.79 | 51.43 | 13.24 | 47.94 | 12.16 |
| 9 | 7.9 | 62.06 | 15.65 | 58.57 | 14.57 | 55.08 | 13.50 | 53.17 | 12.97 | 51.43 | 12.46 | 47.94 | 11.46 | |
| 11 | 9.8 | 62.06 | 14.72 | 58.57 | 13.70 | 55.08 | 12.71 | 53.17 | 12.23 | 51.43 | 11.74 | 47.94 | 10.81 | |
| 13 | 11.8 | 62.06 | 13.80 | 58.57 | 12.86 | 55.08 | 11.94 | 53.17 | 11.49 | 51.43 | 11.05 | 47.94 | 10.18 | |
| 15 | 13.7 | 62.06 | 12.26 | 58.57 | 12.13 | 55.08 | 11.28 | 53.17 | 10.85 | 51.43 | 10.45 | 47.94 | 9.63 | |

Heating capacity table

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

MVUR450B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °CWB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 100% | -19.8 | -20 | 31.91 | 11.63 | 31.75 | 12.11 | 31.75 | 12.61 | 31.59 | 12.86 | 31.59 | 13.09 | 31.43 | 13.59 |
| | -18.8 | -19 | 32.38 | 11.78 | 32.38 | 12.26 | 32.22 | 12.74 | 32.22 | 12.99 | 32.07 | 13.24 | 32.07 | 13.72 |
| | -16.7 | -17 | 33.65 | 12.11 | 33.49 | 12.57 | 33.49 | 13.04 | 33.34 | 13.27 | 33.34 | 13.50 | 33.34 | 13.97 |
| | -13.7 | -15 | 35.08 | 12.46 | 34.92 | 12.91 | 34.76 | 13.36 | 34.76 | 13.59 | 34.76 | 13.80 | 34.61 | 14.25 |
| | -11.8 | -13 | 36.51 | 12.82 | 36.51 | 13.24 | 36.35 | 13.67 | 36.35 | 13.89 | 36.35 | 14.10 | 36.19 | 14.53 |
| | -9.8 | -11 | 38.26 | 13.17 | 38.10 | 13.59 | 38.10 | 13.99 | 38.10 | 14.20 | 37.94 | 14.40 | 37.94 | 14.80 |
| | -9.5 | -10 | 39.21 | 13.36 | 39.05 | 13.75 | 39.05 | 14.15 | 38.89 | 14.35 | 38.89 | 14.55 | 38.73 | 14.95 |
| | -8.5 | -9.1 | 40.00 | 13.50 | 39.84 | 13.90 | 39.84 | 14.29 | 39.84 | 14.48 | 39.69 | 14.68 | 39.69 | 15.07 |
| | -7 | -7.6 | 41.43 | 13.77 | 41.43 | 14.15 | 41.27 | 14.52 | 41.27 | 14.72 | 41.27 | 14.90 | 41.11 | 15.28 |
| | -5 | -5.6 | 43.65 | 14.12 | 43.49 | 14.47 | 43.49 | 14.83 | 43.34 | 15.00 | 43.34 | 15.18 | 43.18 | 15.55 |
| | -3 | -3.7 | 45.72 | 14.43 | 45.72 | 13.11 | 45.56 | 15.12 | 45.56 | 15.28 | 45.56 | 15.45 | 43.65 | 14.80 |
| | 0 | -0.7 | 49.37 | 14.90 | 49.37 | 15.21 | 49.21 | 15.53 | 48.42 | 15.28 | 46.83 | 14.65 | 43.65 | 13.44 |
| | 3 | 2.2 | 53.34 | 15.33 | 53.18 | 15.61 | 50.00 | 14.45 | 48.42 | 13.89 | 46.83 | 13.34 | 43.65 | 12.24 |
| | 5 | 4.1 | 56.03 | 15.61 | 53.18 | 14.67 | 50.00 | 13.59 | 48.42 | 13.07 | 46.83 | 12.56 | 43.65 | 11.54 |
| | 7 | 6 | 56.35 | 14.82 | 53.18 | 13.79 | 50.00 | 12.79 | 48.42 | 12.31 | 46.83 | 11.83 | 43.65 | 10.88 |
| 9 | 7.9 | 56.35 | 13.92 | 53.18 | 12.97 | 50.00 | 12.04 | 48.42 | 11.44 | 46.83 | 11.15 | 43.65 | 10.27 | |
| 11 | 9.8 | 56.35 | 13.11 | 53.18 | 12.22 | 50.00 | 11.36 | 48.42 | 10.93 | 46.83 | 10.51 | 43.65 | 9.70 | |
| 13 | 11.8 | 56.35 | 12.31 | 53.18 | 11.49 | 50.00 | 10.70 | 48.42 | 10.30 | 46.83 | 9.92 | 43.65 | 9.15 | |
| 15 | 13.7 | 56.35 | 11.61 | 53.18 | 10.85 | 50.00 | 10.10 | 48.42 | 9.73 | 46.83 | 9.37 | 43.65 | 8.67 | |
| 90% | -19.8 | -20 | 31.69 | 12.49 | 31.53 | 12.92 | 31.53 | 13.37 | 31.37 | 13.59 | 31.37 | 13.82 | 31.37 | 14.25 |
| | -18.8 | -19 | 32.17 | 12.62 | 32.17 | 13.07 | 32.01 | 13.50 | 32.01 | 13.72 | 32.01 | 13.94 | 31.85 | 14.37 |
| | -16.7 | -17 | 33.44 | 12.94 | 33.27 | 13.36 | 33.27 | 13.77 | 33.27 | 13.99 | 33.12 | 14.19 | 33.12 | 14.60 |
| | -13.7 | -15 | 34.86 | 13.25 | 34.70 | 13.65 | 34.70 | 14.05 | 34.54 | 14.25 | 34.54 | 14.45 | 34.54 | 14.85 |
| | -11.8 | -13 | 36.28 | 13.57 | 36.28 | 13.95 | 36.13 | 14.33 | 36.13 | 14.53 | 36.13 | 14.72 | 35.97 | 15.10 |
| | -9.8 | -11 | 38.03 | 13.89 | 38.03 | 14.25 | 37.87 | 14.62 | 37.87 | 14.80 | 37.87 | 15.00 | 37.71 | 15.36 |
| | -9.5 | -10 | 38.98 | 14.05 | 38.82 | 14.42 | 38.82 | 14.77 | 38.66 | 14.95 | 38.66 | 15.13 | 38.66 | 15.48 |
| | -8.5 | -9.1 | 39.77 | 14.20 | 39.77 | 14.55 | 39.61 | 14.90 | 39.61 | 15.07 | 39.61 | 15.25 | 39.14 | 15.40 |
| | -7 | -7.6 | 41.20 | 14.43 | 41.20 | 14.77 | 41.04 | 15.11 | 41.04 | 15.28 | 41.04 | 15.45 | 39.14 | 14.70 |
| | -5 | -5.6 | 43.42 | 14.75 | 43.26 | 15.07 | 43.26 | 15.38 | 43.10 | 15.55 | 41.99 | 15.07 | 39.14 | 13.82 |
| | -3 | -3.7 | 45.48 | 15.03 | 45.48 | 15.33 | 45.00 | 15.40 | 43.42 | 14.78 | 41.99 | 14.19 | 39.14 | 13.02 |
| | 0 | -0.7 | 49.28 | 15.46 | 47.85 | 15.08 | 45.00 | 13.97 | 43.42 | 13.42 | 41.99 | 12.89 | 39.14 | 11.84 |
| | 3 | 2.2 | 50.71 | 14.73 | 47.85 | 13.72 | 45.00 | 12.72 | 43.42 | 12.24 | 41.99 | 11.76 | 39.14 | 10.83 |
| | 5 | 4.1 | 50.71 | 13.85 | 47.85 | 12.91 | 45.00 | 11.99 | 43.42 | 11.53 | 41.99 | 11.10 | 39.14 | 10.22 |
| | 7 | 6 | 50.71 | 13.02 | 47.85 | 12.16 | 45.00 | 11.29 | 43.42 | 10.88 | 41.99 | 10.46 | 39.14 | 9.65 |
| 9 | 7.9 | 50.71 | 12.28 | 47.85 | 11.44 | 45.00 | 10.65 | 43.42 | 10.26 | 41.99 | 9.88 | 39.14 | 9.12 | |
| 11 | 9.8 | 50.71 | 11.56 | 47.85 | 10.80 | 45.00 | 10.07 | 43.42 | 9.70 | 41.99 | 9.34 | 39.14 | 8.64 | |
| 13 | 11.8 | 50.71 | 10.88 | 47.85 | 10.18 | 45.00 | 9.48 | 43.42 | 9.15 | 41.99 | 8.82 | 39.14 | 8.16 | |
| 15 | 13.7 | 50.71 | 10.28 | 47.85 | 9.62 | 45.00 | 8.99 | 43.42 | 8.67 | 41.99 | 8.35 | 39.14 | 7.74 | |
| 80% | -19.8 | -20 | 31.59 | 13.35 | 31.43 | 13.74 | 31.43 | 14.14 | 31.43 | 14.33 | 31.27 | 14.53 | 31.27 | 14.92 |
| | -18.8 | -19 | 32.06 | 13.47 | 32.06 | 13.87 | 31.90 | 14.25 | 31.90 | 14.45 | 31.90 | 14.63 | 31.75 | 15.03 |
| | -16.7 | -17 | 33.33 | 13.75 | 33.18 | 14.12 | 33.18 | 14.50 | 33.18 | 14.68 | 33.18 | 14.87 | 33.02 | 15.23 |
| | -13.7 | -15 | 34.76 | 14.04 | 34.60 | 14.38 | 34.60 | 14.75 | 34.60 | 14.92 | 34.44 | 15.10 | 34.44 | 15.46 |
| | -11.8 | -13 | 36.19 | 14.32 | 36.19 | 14.67 | 36.03 | 15.00 | 36.03 | 15.16 | 36.03 | 15.35 | 34.92 | 14.93 |
| | -9.8 | -11 | 37.94 | 14.60 | 37.94 | 14.93 | 37.78 | 15.26 | 37.78 | 15.41 | 37.46 | 15.38 | 34.92 | 14.10 |
| | -9.5 | -10 | 38.89 | 14.75 | 38.72 | 15.06 | 38.73 | 15.38 | 38.73 | 15.55 | 37.46 | 14.93 | 34.92 | 13.69 |
| | -8.5 | -9.1 | 39.68 | 14.88 | 36.88 | 15.20 | 39.52 | 15.50 | 38.73 | 15.15 | 37.46 | 14.53 | 34.92 | 13.32 |
| | -7 | -7.6 | 41.11 | 15.10 | 41.11 | 15.40 | 40.00 | 15.06 | 38.73 | 14.47 | 37.46 | 13.89 | 34.92 | 12.74 |
| | -5 | -5.6 | 43.33 | 15.36 | 42.54 | 15.28 | 40.00 | 14.15 | 38.73 | 13.60 | 37.46 | 13.05 | 34.92 | 11.99 |
| | -3 | -3.7 | 45.08 | 15.45 | 42.54 | 14.38 | 40.00 | 13.32 | 38.73 | 12.82 | 37.46 | 12.31 | 34.92 | 11.33 |
| | 0 | -0.7 | 45.08 | 14.02 | 42.54 | 13.05 | 40.00 | 12.13 | 38.73 | 11.68 | 37.46 | 11.21 | 34.92 | 10.33 |
| | 3 | 2.2 | 45.08 | 12.77 | 42.54 | 11.91 | 40.00 | 11.08 | 38.73 | 10.66 | 37.46 | 10.26 | 34.92 | 9.47 |
| | 5 | 4.1 | 45.08 | 12.03 | 42.54 | 11.23 | 40.00 | 10.45 | 38.73 | 10.07 | 37.46 | 9.70 | 34.92 | 8.95 |
| | 7 | 6 | 45.08 | 11.33 | 42.54 | 10.60 | 40.00 | 9.87 | 38.73 | 9.52 | 37.46 | 9.17 | 34.92 | 8.47 |
| 9 | 7.9 | 45.08 | 10.70 | 42.54 | 10.00 | 40.00 | 9.32 | 38.73 | 8.99 | 37.46 | 8.67 | 34.92 | 8.02 | |
| 11 | 9.8 | 45.08 | 10.10 | 42.54 | 9.45 | 40.00 | 8.82 | 38.73 | 8.50 | 37.46 | 8.20 | 34.92 | 7.61 | |
| 13 | 11.8 | 45.08 | 9.52 | 42.54 | 8.92 | 40.00 | 8.34 | 38.73 | 8.04 | 37.46 | 7.76 | 34.92 | 7.19 | |
| 15 | 13.7 | 45.08 | 9.00 | 42.54 | 8.45 | 40.00 | 7.91 | 38.73 | 7.62 | 37.46 | 7.36 | 34.92 | 6.84 | |

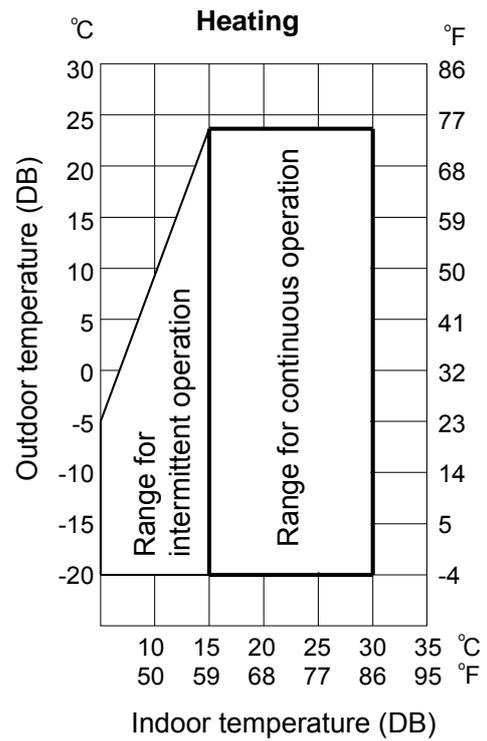
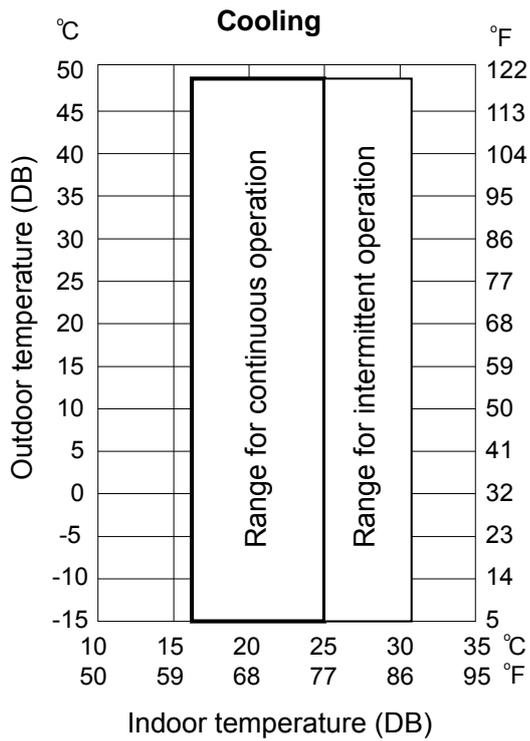
Heating capacity table

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

MVUR450B-VA3

| Combination (%) | Outdoor temperature | | Indoor temperature(°C DB) | | | | | | | | | | | |
|-----------------|---------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °C DB | °C WB | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 70% | -19.8 | -20 | 31.36 | 14.22 | 31.20 | 14.55 | 31.20 | 14.90 | 31.20 | 15.06 | 31.20 | 15.25 | 30.41 | 15.08 |
| | -18.8 | -19 | 31.83 | 14.33 | 31.83 | 14.67 | 31.68 | 15.00 | 31.68 | 15.16 | 31.68 | 15.35 | 30.41 | 14.77 |
| | -16.7 | -17 | 33.10 | 14.57 | 33.10 | 14.90 | 32.94 | 15.21 | 32.94 | 15.38 | 32.62 | 13.70 | 30.41 | 14.09 |
| | -13.7 | -15 | 34.52 | 14.82 | 34.37 | 15.13 | 34.37 | 15.45 | 33.73 | 15.21 | 32.62 | 14.60 | 30.41 | 13.39 |
| | -11.8 | -13 | 35.95 | 15.06 | 35.95 | 15.36 | 35.00 | 15.00 | 33.73 | 14.42 | 32.62 | 13.84 | 30.41 | 12.69 |
| | -9.8 | -11 | 37.69 | 15.31 | 37.22 | 15.30 | 35.00 | 14.17 | 33.73 | 13.62 | 32.62 | 13.07 | 30.41 | 12.01 |
| | -9.5 | -10 | 38.64 | 15.45 | 37.22 | 14.85 | 35.00 | 13.75 | 33.73 | 13.22 | 32.62 | 12.71 | 30.41 | 11.68 |
| | -8.5 | -9.1 | 39.43 | 15.53 | 37.22 | 14.45 | 35.00 | 13.39 | 33.73 | 12.87 | 32.62 | 12.37 | 30.41 | 11.38 |
| | -7 | -7.6 | 39.43 | 14.83 | 37.22 | 13.80 | 35.00 | 12.81 | 33.73 | 12.32 | 32.62 | 11.84 | 30.41 | 10.90 |
| | -5 | -5.6 | 39.43 | 13.94 | 37.22 | 12.99 | 35.00 | 12.06 | 33.73 | 11.59 | 32.62 | 13.70 | 30.41 | 10.28 |
| | -3 | -3.7 | 39.43 | 13.12 | 37.22 | 12.24 | 35.00 | 11.38 | 33.73 | 10.95 | 32.62 | 10.53 | 30.41 | 9.72 |
| | 0 | -0.7 | 39.43 | 11.94 | 37.22 | 11.16 | 35.00 | 10.38 | 33.73 | 10.00 | 32.62 | 9.63 | 30.41 | 8.90 |
| | 3 | 2.2 | 39.43 | 10.91 | 37.22 | 10.22 | 35.00 | 9.52 | 33.73 | 9.17 | 32.62 | 8.84 | 30.41 | 8.17 |
| | 5 | 4.1 | 39.43 | 10.30 | 37.22 | 9.63 | 35.00 | 9.00 | 33.73 | 8.67 | 32.62 | 8.35 | 30.41 | 7.74 |
| | 7 | 6 | 39.43 | 9.73 | 37.22 | 9.12 | 35.00 | 8.50 | 33.73 | 8.20 | 32.62 | 7.92 | 30.41 | 7.34 |
| 9 | 7.9 | 39.43 | 9.20 | 37.22 | 8.62 | 35.00 | 8.06 | 33.73 | 7.77 | 32.62 | 7.51 | 30.41 | 6.96 | |
| 11 | 9.8 | 39.43 | 8.70 | 37.22 | 8.16 | 35.00 | 7.64 | 33.73 | 7.37 | 32.62 | 7.13 | 30.41 | 6.61 | |
| 13 | 11.8 | 39.43 | 8.22 | 37.22 | 7.72 | 35.00 | 7.23 | 33.73 | 6.99 | 32.62 | 6.74 | 30.41 | 6.28 | |
| 15 | 13.7 | 39.43 | 7.79 | 37.22 | 7.32 | 35.00 | 6.86 | 33.73 | 6.64 | 32.62 | 6.41 | 30.41 | 5.98 | |
| 60% | -19.8 | -20 | 31.27 | 15.08 | 31.11 | 15.36 | 30.00 | 14.78 | 29.05 | 14.20 | 28.10 | 13.64 | 26.19 | 12.51 |
| | -18.8 | -19 | 31.75 | 15.18 | 31.75 | 15.46 | 30.00 | 14.47 | 29.05 | 13.90 | 28.10 | 13.34 | 26.19 | 12.24 |
| | -16.7 | -17 | 33.02 | 15.38 | 31.91 | 14.90 | 30.00 | 13.80 | 29.05 | 13.27 | 28.10 | 12.74 | 26.19 | 11.71 |
| | -13.7 | -15 | 33.81 | 15.21 | 31.91 | 14.15 | 30.00 | 13.12 | 29.05 | 12.62 | 28.10 | 12.12 | 26.19 | 11.14 |
| | -11.8 | -13 | 33.81 | 14.40 | 31.91 | 13.40 | 30.00 | 12.44 | 29.05 | 11.98 | 28.10 | 11.51 | 26.19 | 10.65 |
| | -9.8 | -11 | 33.81 | 13.60 | 31.91 | 12.67 | 30.00 | 11.78 | 29.05 | 11.33 | 28.10 | 10.90 | 26.19 | 10.05 |
| | -9.5 | -10 | 33.81 | 13.22 | 31.91 | 12.32 | 30.00 | 11.44 | 29.05 | 11.03 | 28.10 | 10.60 | 26.19 | 9.77 |
| | -8.5 | -9.1 | 33.81 | 12.87 | 31.91 | 12.01 | 30.00 | 11.16 | 29.05 | 10.75 | 28.10 | 10.33 | 26.19 | 9.53 |
| | -7 | -7.6 | 33.81 | 12.31 | 31.91 | 11.49 | 30.00 | 10.68 | 29.05 | 10.30 | 28.10 | 9.90 | 26.19 | 9.15 |
| | -5 | -5.6 | 33.81 | 11.59 | 31.91 | 10.83 | 30.00 | 10.08 | 29.05 | 9.72 | 28.10 | 9.35 | 26.19 | 8.65 |
| | -3 | -3.7 | 33.81 | 10.95 | 31.91 | 10.23 | 30.00 | 9.53 | 29.05 | 9.20 | 28.10 | 8.85 | 26.19 | 8.19 |
| | 0 | -0.7 | 33.81 | 10.00 | 31.91 | 9.37 | 30.00 | 8.74 | 29.05 | 8.44 | 28.10 | 8.12 | 26.19 | 7.52 |
| | 3 | 2.2 | 33.81 | 9.17 | 31.91 | 8.60 | 30.00 | 8.04 | 29.05 | 7.76 | 28.10 | 7.49 | 26.19 | 6.94 |
| | 5 | 4.1 | 33.81 | 8.67 | 31.91 | 8.14 | 30.00 | 7.61 | 29.05 | 7.36 | 28.10 | 7.09 | 26.19 | 6.59 |
| | 7 | 6 | 33.81 | 8.20 | 31.91 | 7.71 | 30.00 | 7.21 | 29.05 | 6.98 | 28.10 | 6.74 | 26.19 | 6.26 |
| 9 | 7.9 | 33.81 | 7.77 | 31.91 | 7.31 | 30.00 | 6.84 | 29.05 | 6.63 | 28.10 | 6.39 | 26.19 | 5.96 | |
| 11 | 9.8 | 33.81 | 7.37 | 31.91 | 6.94 | 30.00 | 6.51 | 29.05 | 6.30 | 28.10 | 6.08 | 26.19 | 5.68 | |
| 13 | 11.8 | 33.81 | 6.98 | 31.91 | 6.58 | 30.00 | 6.18 | 29.05 | 5.98 | 28.10 | 5.78 | 26.19 | 5.40 | |
| 15 | 13.7 | 33.81 | 6.64 | 31.91 | 6.25 | 30.00 | 5.88 | 29.05 | 5.70 | 28.10 | 5.51 | 26.19 | 5.15 | |
| 50% | -19.8 | -20 | 28.17 | 13.72 | 26.58 | 12.77 | 25.00 | 11.86 | 24.05 | 11.43 | 23.26 | 10.98 | 21.68 | 10.12 |
| | -18.8 | -19 | 28.17 | 13.42 | 26.58 | 12.51 | 25.00 | 11.63 | 24.05 | 11.18 | 23.26 | 10.75 | 21.68 | 9.92 |
| | -16.7 | -17 | 28.17 | 12.81 | 26.58 | 11.94 | 25.00 | 11.11 | 24.05 | 10.70 | 23.26 | 10.30 | 21.68 | 9.50 |
| | -13.7 | -15 | 28.17 | 12.19 | 26.58 | 11.38 | 25.00 | 10.58 | 24.05 | 10.20 | 23.26 | 9.82 | 21.68 | 9.07 |
| | -11.8 | -13 | 28.17 | 11.58 | 26.58 | 10.81 | 25.00 | 10.07 | 24.05 | 9.70 | 23.26 | 9.33 | 21.68 | 8.64 |
| | -9.8 | -11 | 28.17 | 10.96 | 26.58 | 10.25 | 25.00 | 9.55 | 24.05 | 9.20 | 23.26 | 8.87 | 21.68 | 8.20 |
| | -9.5 | -10 | 28.17 | 10.66 | 26.58 | 9.97 | 25.00 | 9.30 | 24.05 | 8.97 | 23.26 | 8.64 | 21.68 | 7.99 |
| | -8.5 | -9.1 | 28.17 | 10.40 | 26.58 | 9.73 | 25.00 | 9.07 | 24.05 | 8.75 | 23.26 | 8.44 | 21.68 | 7.81 |
| | -7 | -7.6 | 28.17 | 9.97 | 26.58 | 9.33 | 25.00 | 8.70 | 24.05 | 8.40 | 23.26 | 8.11 | 21.68 | 7.51 |
| | -5 | -5.6 | 28.17 | 9.40 | 26.58 | 8.82 | 25.00 | 8.24 | 24.05 | 7.96 | 23.26 | 7.67 | 21.68 | 7.11 |
| | -3 | -3.7 | 28.17 | 8.90 | 26.58 | 8.35 | 25.00 | 7.81 | 24.05 | 7.54 | 23.26 | 7.27 | 21.68 | 6.76 |
| | 0 | -0.7 | 28.17 | 8.17 | 26.58 | 7.67 | 25.00 | 7.19 | 24.05 | 6.94 | 23.26 | 6.71 | 21.68 | 6.25 |
| | 3 | 2.2 | 28.17 | 7.52 | 26.58 | 7.08 | 25.00 | 6.63 | 24.05 | 6.41 | 23.26 | 6.20 | 21.68 | 5.78 |
| | 5 | 4.1 | 28.17 | 7.14 | 26.58 | 6.71 | 25.00 | 6.30 | 24.05 | 6.10 | 23.26 | 5.90 | 21.68 | 5.50 |
| | 7 | 6 | 28.17 | 6.78 | 26.58 | 6.38 | 25.00 | 6.00 | 24.05 | 5.80 | 23.26 | 5.61 | 21.68 | 5.25 |
| 9 | 7.9 | 28.17 | 6.43 | 26.58 | 6.06 | 25.00 | 5.70 | 24.05 | 5.53 | 23.26 | 5.35 | 21.68 | 5.00 | |
| 11 | 9.8 | 28.17 | 6.11 | 26.58 | 5.76 | 25.00 | 5.43 | 24.05 | 5.27 | 23.26 | 5.10 | 21.68 | 4.77 | |
| 13 | 11.8 | 28.17 | 5.81 | 26.58 | 5.48 | 25.00 | 5.17 | 24.05 | 5.02 | 23.26 | 4.85 | 21.68 | 4.55 | |
| 15 | 13.7 | 28.17 | 5.53 | 26.58 | 5.23 | 25.00 | 4.93 | 24.05 | 4.78 | 23.26 | 4.63 | 21.68 | 4.35 | |

8. Operation limits



Note:

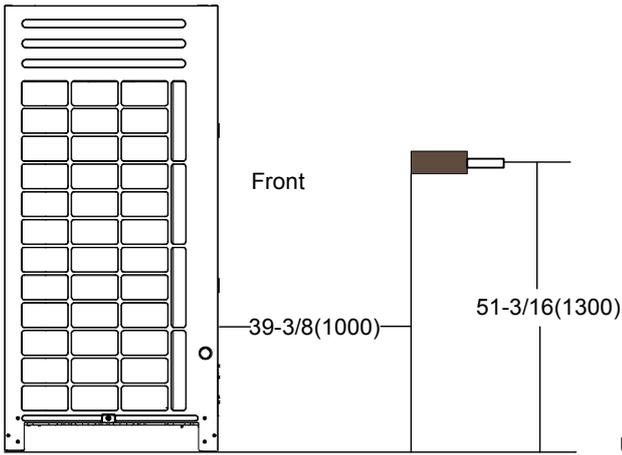
1. These figures assume the following operating conditions:

Equivalent piping length: 7.5m

Level difference: 0

2. If the system is running in cooling mode, when the ambient temperature is lower than -5°C or higher than 48°C, the unit will stop for protection control.

9. Sound levels



Notes:

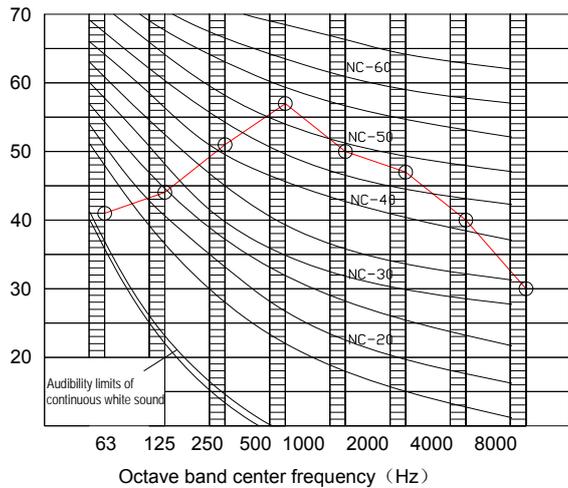
- Data is valid at free field condition
- Data is valid at nominal operating condition
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed
- Sound level can be increased in static pressure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

unit: in.(mm)

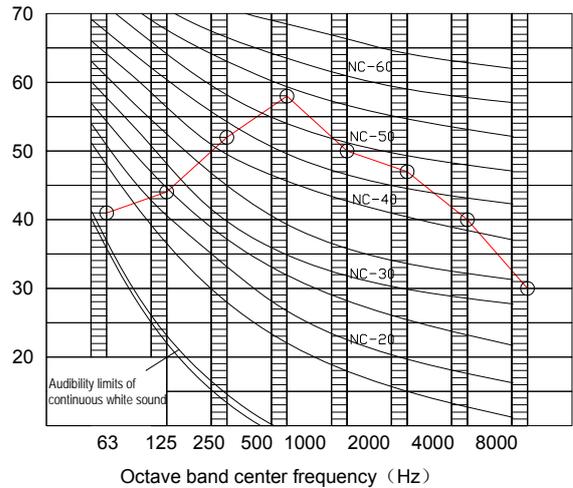
| Model | Sound pressure level d(B)A |
|--------------|----------------------------|
| MVUR252B-VA3 | 57 |
| MVUR280B-VA3 | 57 |
| MVUR335B-VA3 | 58 |
| MVUR400B-VA3 | 60 |
| MVUR450B-VA3 | 60 |

Sound pressure spectrum

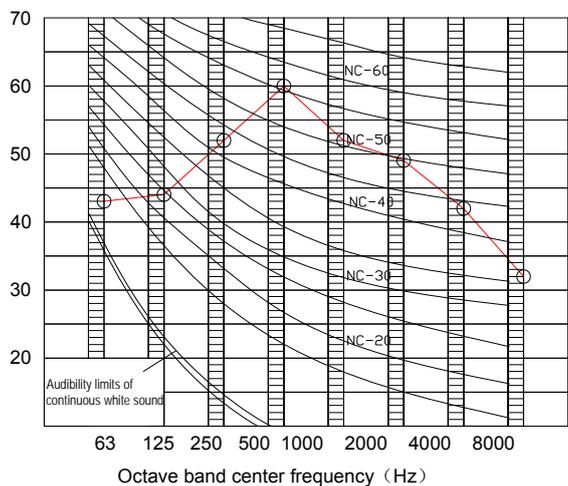
MVUR252B-VA3, MVUR280B-VA3



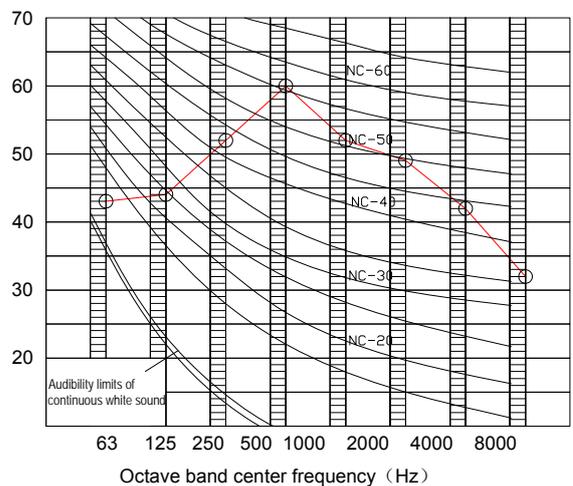
MVUR335B-VA3



MVUR400B-VA3



MVUR450B-VA3



10. Accessories

Branch joint of outdoor & indoor unit

| Optional accessories | Model name | Packing Size (mm) | Net/gross Weight (kg) | Function |
|--|------------|-------------------|-----------------------|--|
| Branch Joint of outdoor unit | FQZHW-02SB | 272×167×232 | 1.6/2.2 | Distribute the refrigerant to indoor units and balance the resistance between each outdoor unit. |
| | FQZHW-03SB | 472×157×312 | 3.9/5.0 | |
| | FQZHW-04SB | 745×160×335 | 6.2/7.5 | |
| Branch Joint between MS and outdoor unit | FQZHN-01D | 290×105×100 | 0.3/0.4 | |
| Branch Joint between MS and indoor unit | FQZHN-01SB | 257×127×107 | 0.6/0.8 | |
| | FQZHN-02SB | 287×137×107 | 0.7/0.9 | |
| | FQZHN-03SB | 297×167×177 | 1.1/1.4 | |
| | FQZHN-04SB | 372×197×187 | 1.6/2.3 | |
| | FQZHN-05SB | 432×222×227 | 2.2/3.3 | |

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

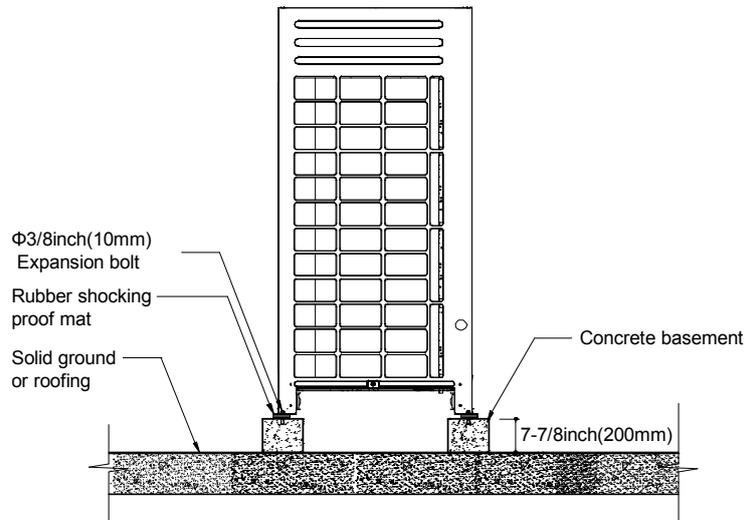
| | | |
|-----|--|-----|
| 1. | Select installation position..... | 101 |
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| 12. | Electric wiring installation..... | 123 |
| 13. | Running test..... | 130 |

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

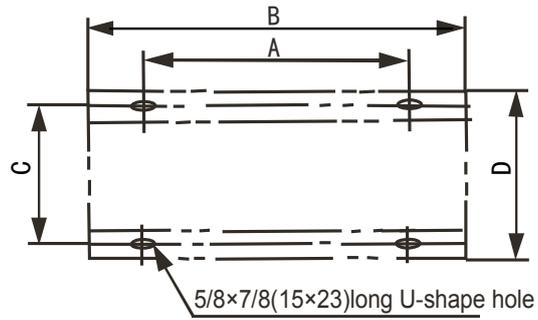
- ◆ A solid, correct base can: Avoid the outdoor unit from sinking and avoid the abnormal noise generated due to base.
- ◆ Base types: Steel structure base or concrete base (See the figure below for the general making method)



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 $\Phi 3/8$ inch(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 200mm.

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



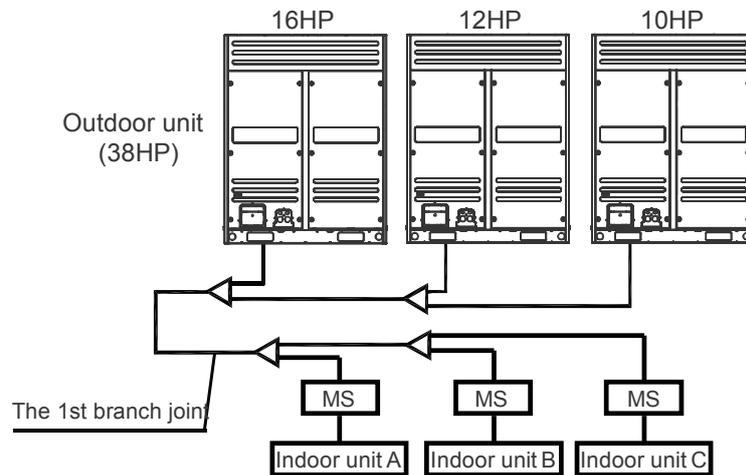
| Size (mm) | 8-16HP |
|-----------|--------|
| A | 1120 |
| B | 1250 |
| C | 736 |
| D | 765 |

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 38HP (composed by 10HP, 12HP and 16HP) as an example:

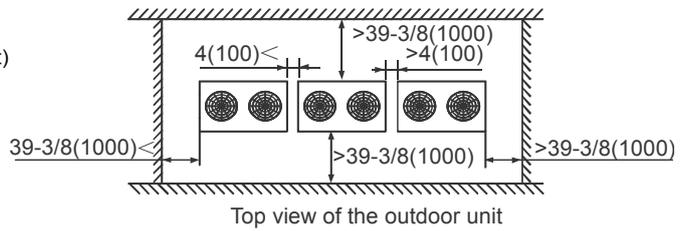
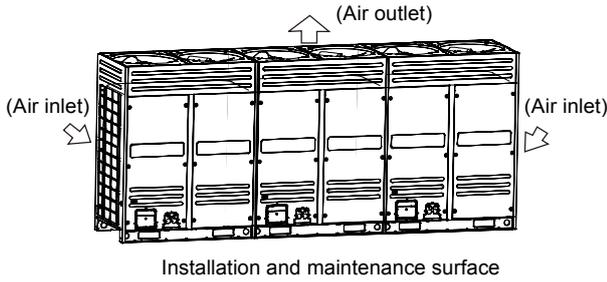
- 1) Place the 16HP at a side of the first branch site.
- 2) Place the unit from the large capacity to small (See the detail placement illustration)
- 3) Set 16HP as the master unit, while the 12HP and the 10HP as slave units.



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.

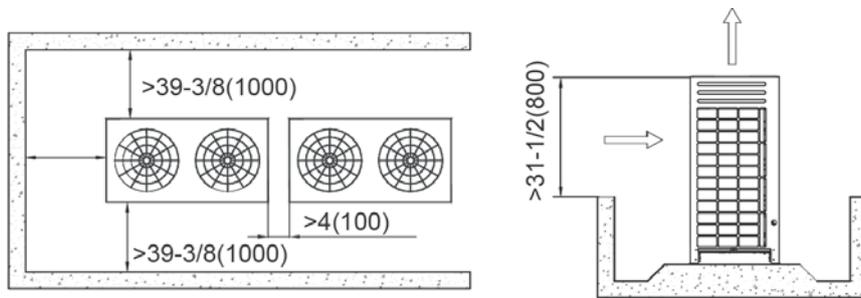
Unit: in.(mm)



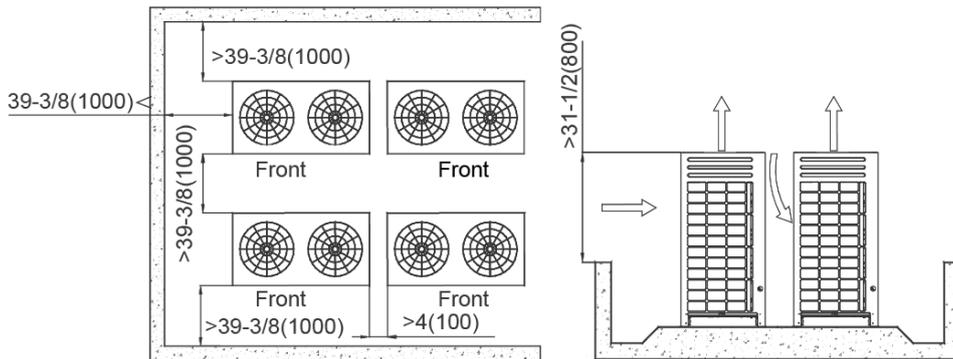
- When the outdoor unit is higher than the surrounding obstacle

Unit: mm

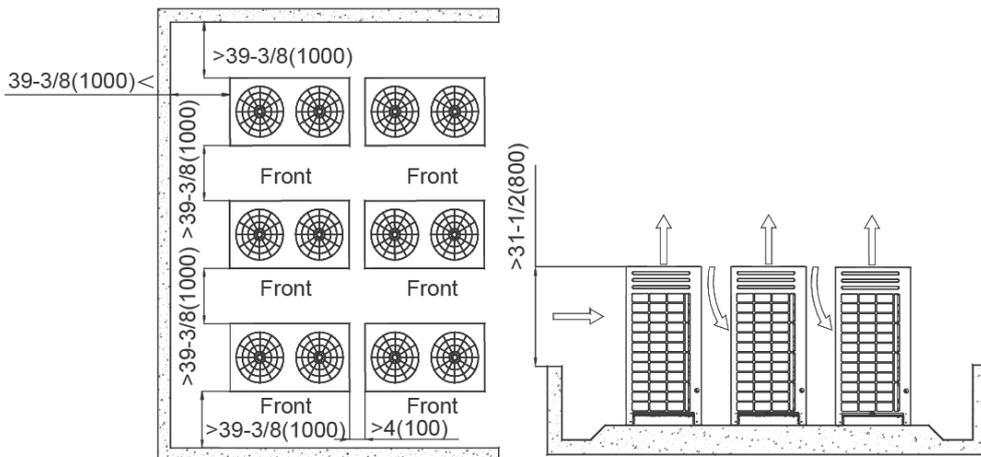
One row



Two rows

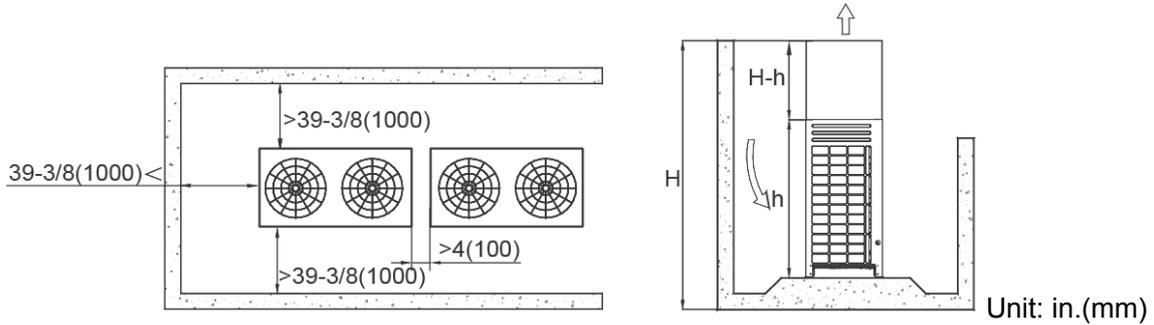


More than two rows

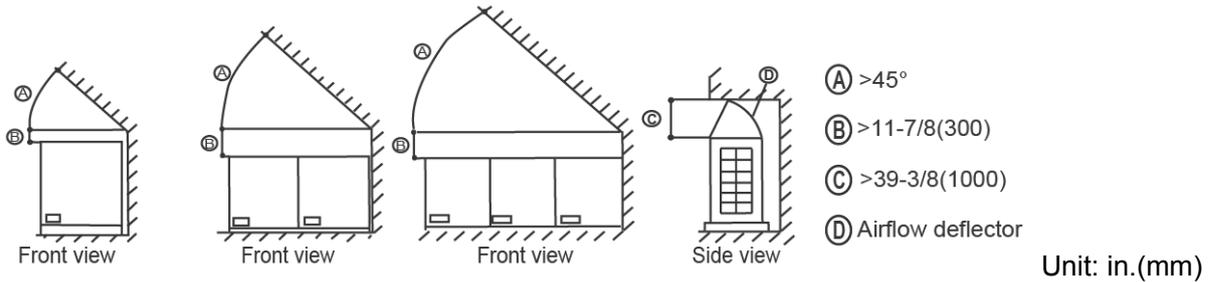


- When the outdoor unit is lower than the surrounding obstacle, to avoid cross connection of the outdoor hot air from affecting the heat exchange effect, please add an air director onto the exhaust hood of the outdoor

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.

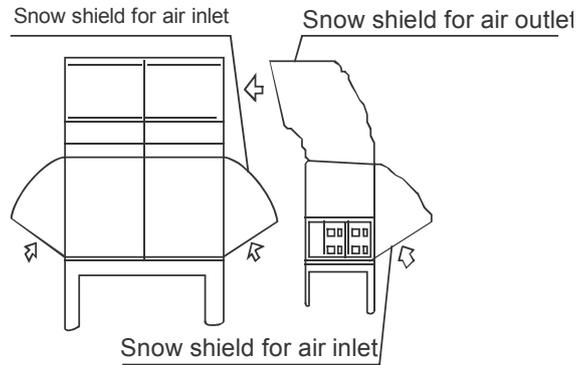


- If miscellaneous articles are piled around the outdoor unit, such articles must be 800mm below the top of the outdoor unit. The articles must be 800mm below the top of the outdoor unit. Otherwise, a mechanic exhaust device must be added.



- 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.

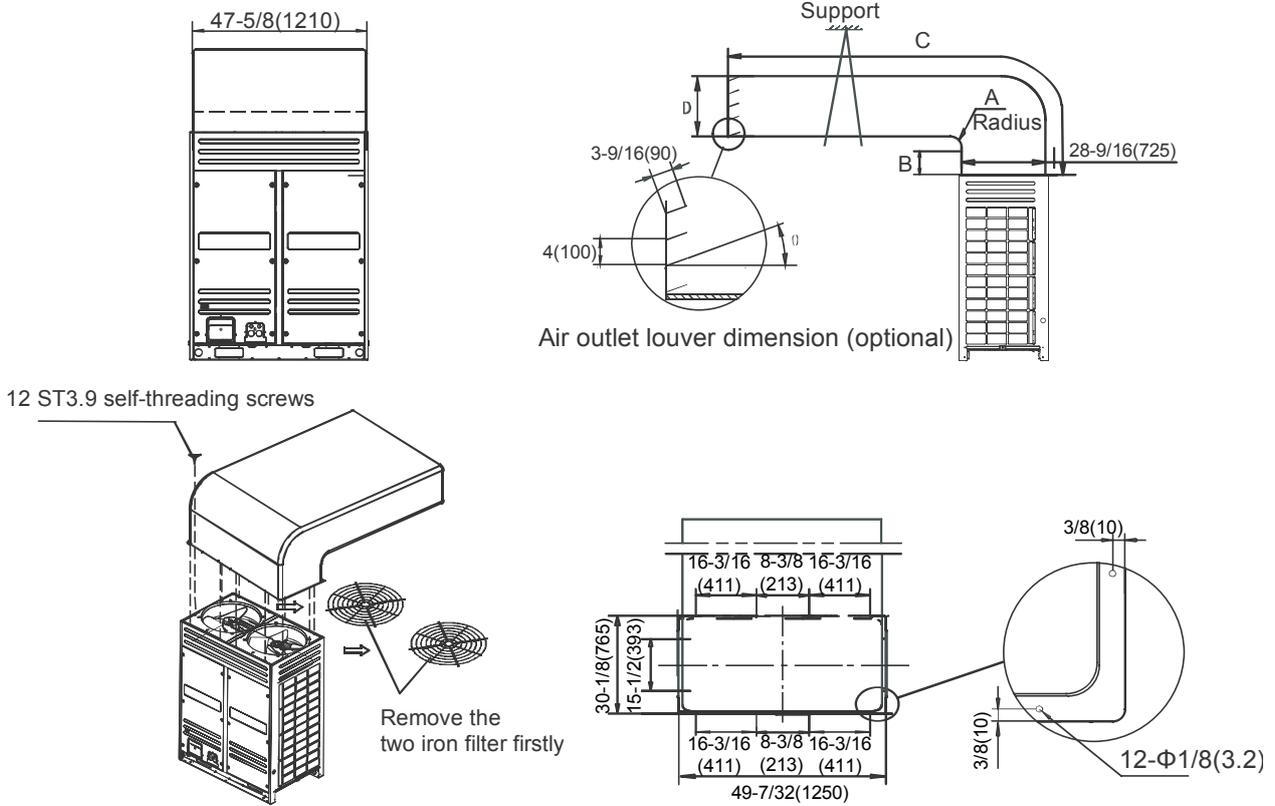


5. Air ventilation assembly installation

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.

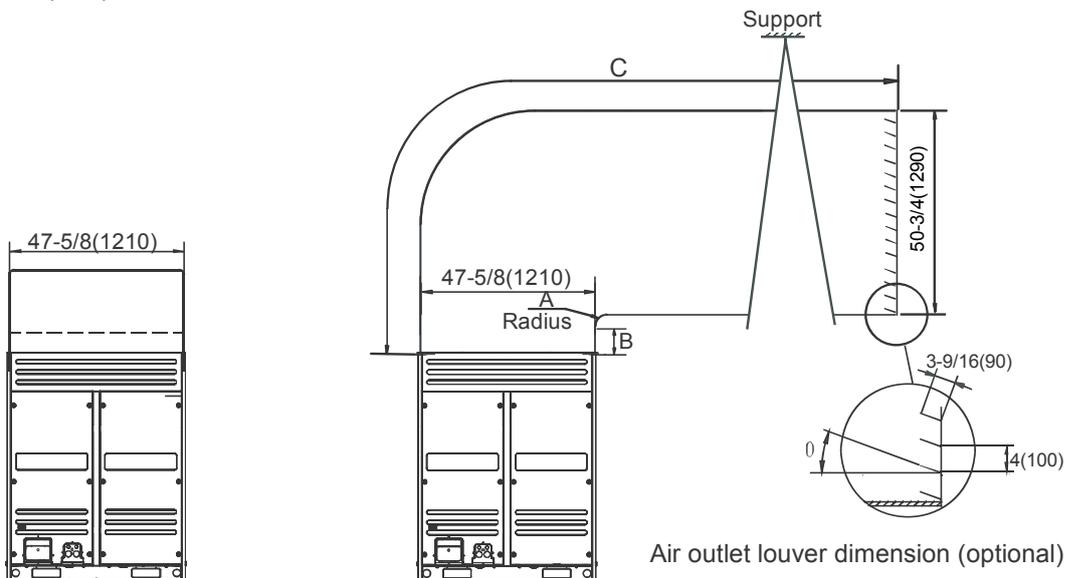
Example A

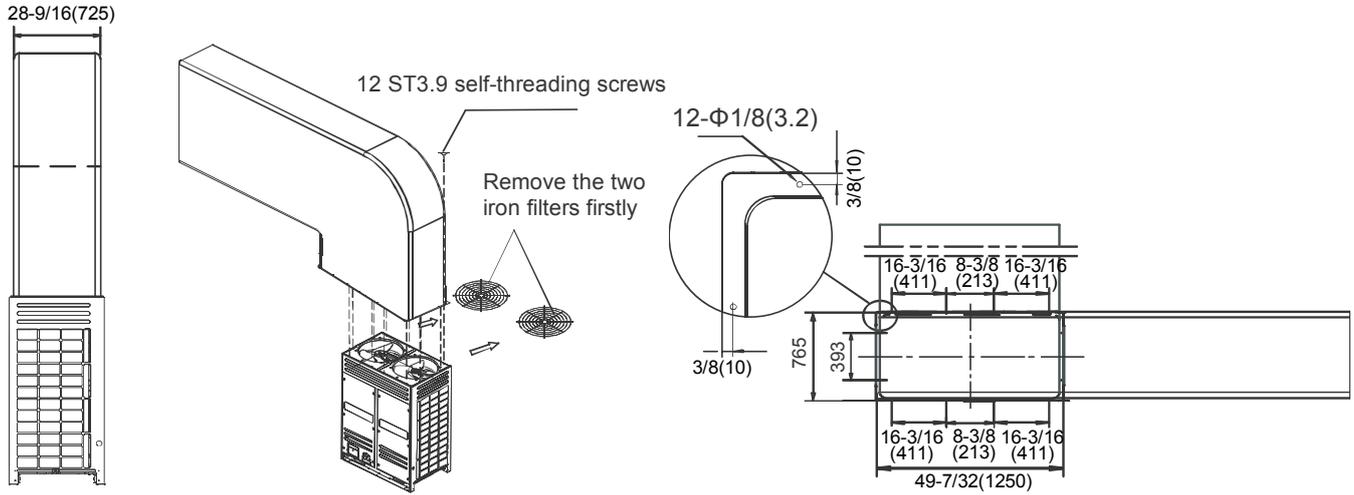
Unit: in.(mm)



Example B

Unit: in.(mm)





Unit: mm

| Example A | |
|-----------|------------------------|
| A | $A \geq 300$ |
| B | $B \geq 250$ |
| C | $C \leq 3000$ |
| D | $725 \leq D \leq 760$ |
| θ | $\theta \leq 15^\circ$ |

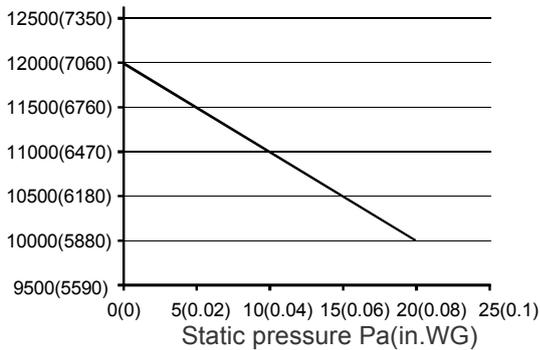
| Example B | |
|-----------|------------------------|
| A | $A \geq 300$ |
| B | $B \geq 250$ |
| C | $C \leq 3000$ |
| θ | $\theta \leq 15^\circ$ |

Outdoor fan performance

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

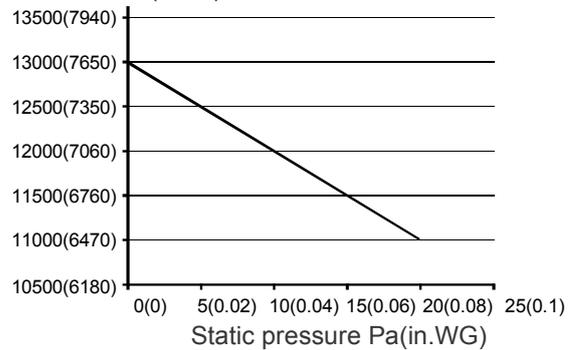
8/10HP

Air volume $m^3/h(CFM)$



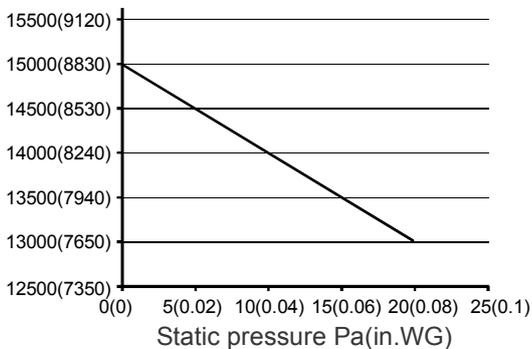
12HP

Air volume $m^3/h(CFM)$



14/16HP

Air volume $m^3/h(CFM)$



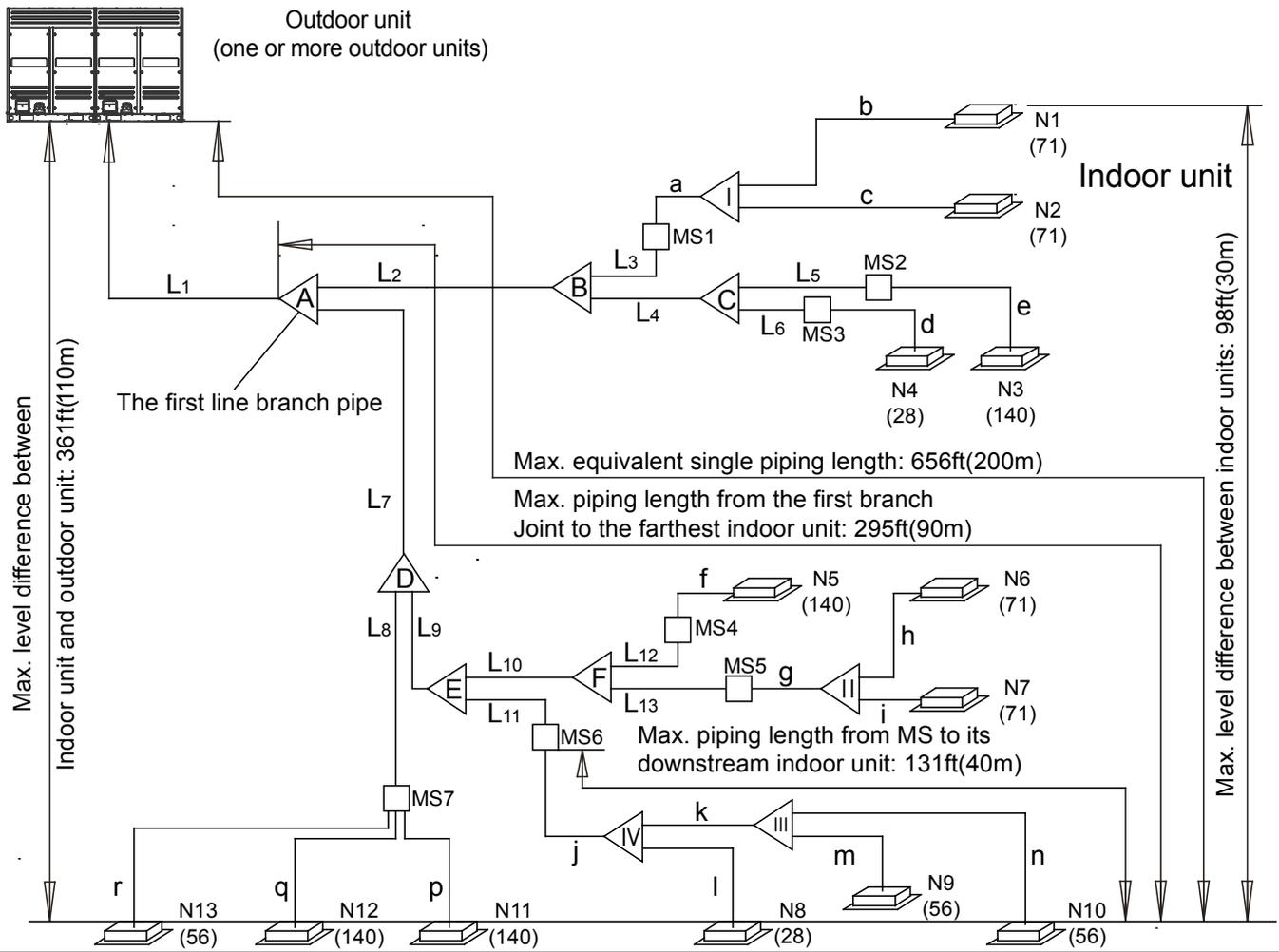
Note:

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 | ≤1000m (refer to note 1) | $L1+(L2+L3+L4+L5+L6+L7+L8+L9+L10+L11+L12+L13) \times 2+a+b+c+d+e+f+g+h+i+j+k+l+m+n$ | |
| | Single piping length | Actual length | ≤175m | |
| | | Equivalent length | ≤200m (refer to note 2) | $L1+L7+L9+L11+j+k+n$ |
| | Piping length from the first branch joint to the farthest indoor unit | | ≤40/90m (refer to note 3) | $L7+L9+L11+j+k+n$ |
| Piping length from MS to the downstream indoor unit of itself | | ≤40m | $j+k+n$ | |
| Level difference | Level difference between indoor unit and outdoor unit | Outdoor unit up | ≤ 70m (refer to note 4) | / |
| | | Outdoor unit down | ≤110m (refer to note 5) | / |
| | Level difference between indoor units | | ≤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 length of the distribution pipes which between the first branch joint and MS should be double:

$$\text{Total piping length} = L1+(L2+L3+L4+L5+L6+L7+L8+L9+L10+L11+L12+L13) \times 2+a+b+c+d+e+f+g+h+i+j+k+l+m+n \leq 1000m$$

2. The equivalent length of each branch pipe is 0.5m.
3. The allowable piping length from the first branch joint to the farthest indoor unit should be equal to or less than 40m, but when the following conditions are all met, the allowable length can be extended to 90m.

- The piping length from each indoor unit to the nearest branch joint or direct connected MS should be less than 40m. (b, c, d, e, f, h, i, l, m, n, p, q, r ≤ 40m)
- The length difference between (the outdoor unit to the farthest indoor unit) and (the outdoor unit to the nearest indoor unit) ≤ 40m.

The farthest indoor unit: N10

The nearest indoor unit: N11

$$(L1+L7+L9+L11+j+k+n)-(L1+L7+L8+p) \leq 40m$$

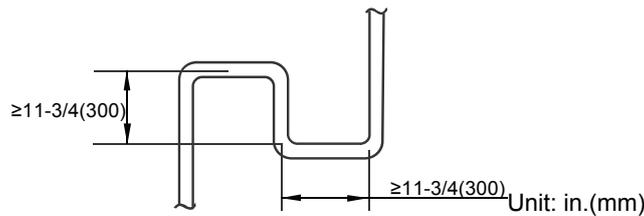
- It needs to increase distribution pipes which between the first branch and MS (L2~L13). (Please change the pipe diameter at field) If the pipe diameter of the main slave pipe is the same as the main pipe, then it is no need to be increased.

When: $40m < L7+L9+L11+j+k+n \leq 90m$ L2~L13 need to increase the pipe diameter.

Increasing size as the following: unit (mm)

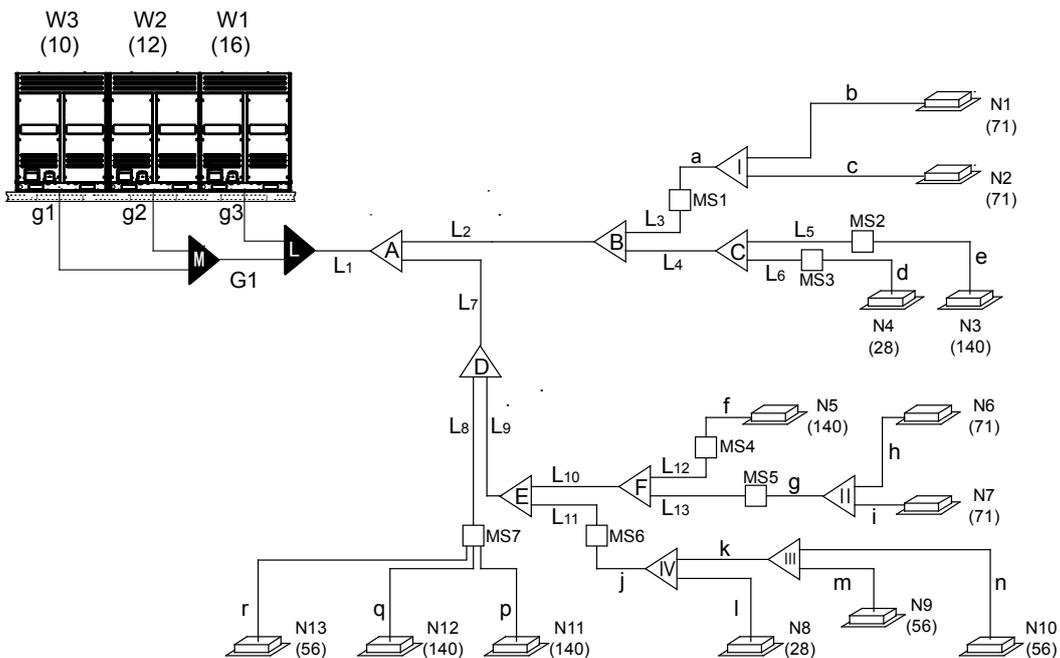
| | | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|
| Φ3/8(9.53)→ Φ1/2(12.7) | Φ1/2(12.7)→ Φ5/8(15.9) | Φ5/8(15.9)→ Φ3/4(19.1) | Φ3/4(19.1)→ Φ7/8(22.2) | Φ7/8(22.2)→ Φ1(25.4) | Φ1(25.4)→ Φ1-1/8(28.6) |
| Φ1-1/8(28.6)→ Φ1-1/4(31.8) | Φ1-1/4(31.8)→ Φ1-1/2(38.1) | Φ1-1/2(38.1)→ Φ1-5/8(41.3) | Φ1-5/8(41.3)→ Φ1-3/4(44.5) | Φ1-3/4(44.5)→ Φ2-1/8(54.0) | |

4. When the outdoor unit is higher than indoor units and the level difference is over 20m, it is recommended to set an oil return bend every 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 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, L10, L11, L12, L13 |
| Indoor unit auxiliary pipe between MS and downstream branch joint | a, g, j, k |
| Indoor unit auxiliary pipe from indoor unit to the nearest branch joint or direct connected MS | b, c, d, e, f, h, i, l, m, n, p, q, r |
| Branch pipe assembly between main pipe and MS | A, B, C, D, E |
| Branch pipe assembly between MS and indoor unit | I, II, III, IV |
| Outdoor unit branch pipe assembly | L, M |
| Outdoor connection pipe | g1, g2, g3, G1 |
| MS equipment | MS1,...MS7 |

➤ Table 1: Indoor unit main pipe selection (L1~L13) Unit: mm

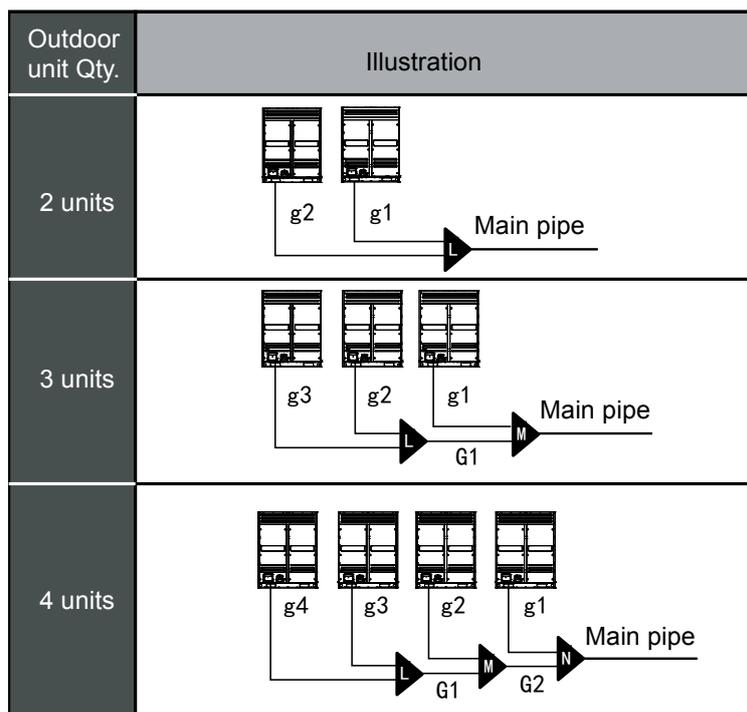
| Capacity of indoor unit kW(kBtu/h) | Indoor unit main pipe mm | | | |
|---------------------------------------|--------------------------|---------------------------|-------------|--------------------------------------|
| | Low pressure gas pipe | High pressure gas pipe | Liquid pipe | Available branching pipe assembly |
| A<5.6 | Φ12.7 | Φ9.53 | Φ6.35 | FQZHN-01SB |
| 5.6≤A<16.6 | Φ19.1 | Φ15.9 | Φ9.53 | FQZHN-01SB |
| 16.6≤A<23 | Φ22.2 | Φ19.1 | Φ9.53 | FQZHN-02SB |
| 23≤A<33 | Φ22.2 | Φ19.1 | Φ12.7 | FQZHN-02SB |
| 33≤A<46 | Φ28.6 | Φ22.2 | Φ12.7 | FQZHN-03SB |
| 46≤A<66 | Φ28.6 | Φ22.2 | Φ15.9 | FQZHN-03SB |
| 66≤A<92 | Φ34.9 | Φ28.6 | Φ19.1 | FQZHN-04SB |
| 92≤A<135 | Φ41.3 | Φ34.9 | Φ19.1 | FQZHN-05SB |
| 135≤A | Φ44.5 | Φ38.1 | Φ22.2 | FQZHN-05SB |

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

| Model | Main pipe mm | | | | | | | |
|---------|--|------------------------------|----------------|---------------------------------------|--|------------------------------|----------------|---------------------------------------|
| | When the equivalent length of all liquid pipes<90m | | | | When the equivalent length of all liquid pipes≥90m | | | |
| | Low pressure gas pipe | High pressure gas pipe | Liquid pipe | The 1 st branching pipe | Low pressure gas pipe | High pressure gas pipe | Liquid pipe | The 1 st branching pipe |
| 8HP | Φ22.2 | Φ19.1 | Φ9.53 | FQZHN-02SB | Φ22.2 | Φ19.1 | Φ12.7 | FQZHN-02SB |
| 10HP | Φ22.2 | Φ19.1 | Φ12.7 | FQZHN-02SB | Φ22.2 | Φ19.1 | Φ12.7 | FQZHN-02SB |
| 12HP | Φ25.4 | Φ19.1 | Φ12.7 | FQZHN-03SB | Φ25.4 | Φ19.1 | Φ15.9 | FQZHN-03SB |
| 14-16HP | Φ28.6 | Φ22.2 | Φ15.9 | FQZHN-03SB | Φ28.6 | Φ22.2 | Φ15.9 | FQZHN-03SB |
| 18-22HP | Φ31.8 | Φ28.6 | Φ15.9 | FQZHN-03SB | Φ31.8 | Φ28.6 | Φ19.1 | FQZHN-03SB |
| 24HP | Φ34.9 | Φ28.6 | Φ15.9 | FQZHN-04SB | Φ34.9 | Φ28.6 | Φ19.1 | FQZHN-04SB |
| 26-32HP | Φ34.9 | Φ28.6 | Φ19.1 | FQZHN-04SB | Φ34.9 | Φ28.6 | Φ22.2 | FQZHN-04SB |
| 34-48HP | Φ41.3 | Φ34.9 | Φ19.1 | FQZHN-05SB | Φ41.3 | Φ34.9 | Φ22.2 | FQZHN-05SB |
| 50-64HP | Φ44.5 | Φ38.1 | Φ22.2 | FQZHN-05SB | Φ44.5 | Φ38.1 | Φ25.4 | FQZHN-05SB |

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: mm

| Pipe | | Low pressure gas pipe | High pressure gas pipe | Liquid pipe |
|-------------|-----------|-----------------------|------------------------|-------------|
| g1,g2,g3,g4 | 8/10/12HP | Φ22.2 | Φ19.1 | Φ12.7 |
| | 14/16HP | Φ28.6 | Φ22.2 | Φ15.9 |
| G1 | | Φ34.9 | Φ28.6 | Φ19.1 |
| G2 | | Φ41.3 | Φ34.9 | Φ22.2 |

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

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

- Indoor unit auxiliary pipe selection

➤ Table 5: Indoor unit auxiliary pipe between MS and downstream branch joint selection (a, g, j, k)

| Capacity of indoor unit kW | Gas pipe (mm) | Liquid pipe (mm) | Available branching pipe |
|----------------------------|---------------|------------------|--------------------------|
| A<16.6 | Φ15.9) | Φ9.53) | FQZHN-01D |

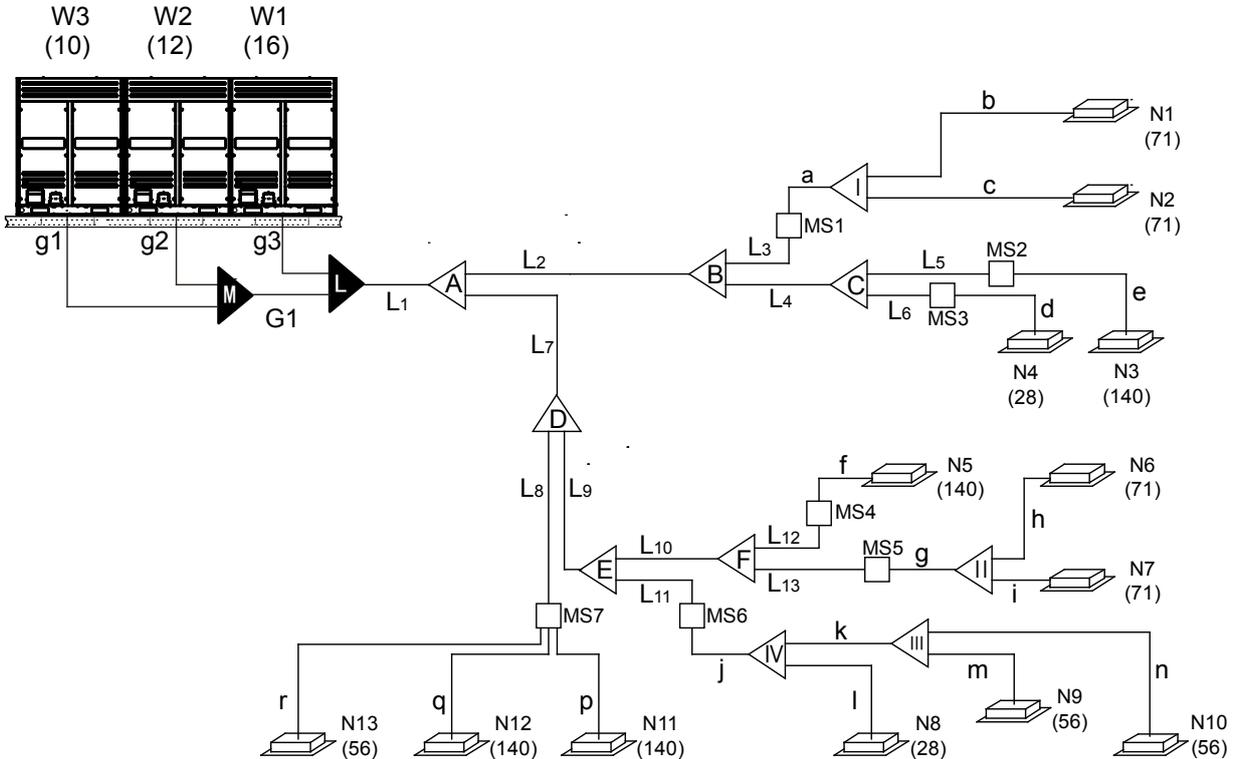
➤ Table 6: Indoor unit auxiliary pipe from indoor unit to the nearest branch joint or direct connected MS selection (b, c, d, e, f, h, i, l, m, n, p, q, r) Unit: mm

| Capacity of indoor unit kW | The pipe length from indoor unit to the nearest branch joint or direct connected MS≤10m | | The pipe length from indoor unit to the nearest branch joint or direct connected MS>10m | |
|----------------------------|---|-------------|---|-------------|
| | Gas pipe | Liquid pipe | Gas pipe | Liquid pipe |
| A<5.6 | Φ12.7 | Φ6.35 | Φ15.9 | Φ9.53 |
| 5.6≤A<16 | Φ15.9 | Φ9.53 | Φ19.1 | Φ12.7 |

6.3 Example

The example is as blow:

Provided that the capacity of outdoor unit is (16+12+10) 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 or direct connected MS is less than 10m.



1. Select indoor unit auxiliary pipes from indoor unit to the nearest branch joint or direct connected MS: b, c, d, e, f, h, i, l, m, n, p, q, r.

Refer to table 6, the pipes of b, c, e, f, h, i, m, n, p, q and r are $\Phi 15.9 / \Phi 9.53$, and the pipes of d and l are $\Phi 12.7 / \Phi 6.35$.

2. Select indoor unit auxiliary pipes between MS and downstream branch joint: a, g, j, k.

Refer to table 5, the pipes of a, g, j and k are $\Phi 15.9 / \Phi 9.53$, the brand pipe assembly I, II, III and IV are FQZHN-01D.

3. Select indoor unit main pipes: L1~L13

- The downstream indoor units of L3 are N1 and N2, which capacity is $7.1 \times 2 = 14.2$ kW. Refer to table 1, the indoor unit main pipe L3 is $\Phi 19.1 / \Phi 15.9 / \Phi 9.53$, select MS02/N1-C for MS1.
- The downstream indoor unit of L5 is N3, which capacity is 14 kW. Refer to table 1, the indoor unit main pipe L5 is $\Phi 19.1 / \Phi 15.9 / \Phi 9.53$, select MS02/N1-C for MS2.
- The downstream indoor unit of L6 is N4, which capacity is 2.8 kW. Refer to table 1, the indoor unit main pipe L6 is $\Phi 12.7 / \Phi 9.53 / \Phi 6.35$, select MS02/N1-C for MS3.
- The downstream indoor units of L4 are N3 and N4, which capacity is $14 + 2.8 = 16.8$ kW. Refer to table 1, the indoor unit main pipe L4 is $\Phi 22.2 / \Phi 19.1 / \Phi 9.53$, the branch pipe assembly C is FQZHN-02SB.
- The downstream indoor units of L2 are N1, N2, N3 and N4, which capacity is $7.1 \times 2 + 14 + 2.8 = 31$ kW. Refer to table 1, the indoor unit main pipe L2 is $\Phi 22.2 / \Phi 19.1 / \Phi 12.7$, the branch pipe assembly B is FQZHN-02SB.
- The downstream indoor unit of L12 is N5, which capacity is 14 kW. Refer to table 1, the indoor unit main pipe L12 is $\Phi 19.1 / \Phi 15.9 / \Phi 9.53$, select MS02/N1-C for MS4.
- The downstream indoor units of L13 are N6 and N7, which capacity is $7.1 \times 2 = 14.2$ kW. Refer to table 1, the indoor unit main pipe L13 is $\Phi 19.1 / \Phi 15.9 / \Phi 9.53$, select MS02/N1-C for MS5.
- The downstream indoor units of L10 are N5, N6 and N7, which capacity is $14 + 7.1 \times 2 = 28.2$ kW. Refer to table 1, the indoor unit main pipe L10 is $\Phi 22.2 / \Phi 19.1 / \Phi 12.7$, the branch pipe assembly F is FQZHN-02SB.

- The downstream indoor units of L11 are N8, N9 and N10, which capacity is $2.8+5.6\times 2=14$ kW. Refer to table 1, the indoor unit main pipe L11 is $\Phi 19.1/ \Phi 15.9 / \Phi 9.53$, select MS02/N1-C for MS6.
- The downstream indoor units of L9 are N5~N10, which capacity is $14+5.6\times 2+7.1\times 2+2.8=42.2$ kW. Refer to table 1, the indoor unit main pipe L9 is $\Phi 28.6/ \Phi 22.2/ \Phi 12.7$, the branch pipe assembly E is FQZHN-03SB.
- The downstream indoor units of L8 are N11~N13, which capacity is $14\times 2+5.6=33.6$ kW. Refer to table 1, the indoor unit main pipe L8 is $\Phi 28.6/ \Phi 22.2/ \Phi 12.7$, select MS04/N1-C for MS7.
- The downstream indoor units of L7 are N5~N13, which capacity is $14\times 3+7.1\times 2+5.6\times 3+2.8=75.8$ kW. Refer to table 1, the indoor unit main pipe L7 is $\Phi 34.9/ \Phi 28.6/ \Phi 19.1$, the branch pipe assembly D is FQZHN-04SB.
- The downstream indoor units of L1 are N1~N13, which capacity is $14\times 4+7.1\times 4+5.6\times 3+2.8\times 2=106.8$ kW. Refer to table 1, the indoor unit main pipe L1 is $\Phi 41.3/ \Phi 34.9/ \Phi 19.1$, the branch pipe assembly A is FQZHN-05SB.

4. Select main pipe: L1

For the capacity of outdoor unit is 38HP, the equivalent length of all pipes in this system is larger than 90m, refer to table 2, the main pipe L1 is $\Phi 41.3/ \Phi 34.9/ \Phi 22.2$, the branch pipe assembly A is FQZHN-05SB.

As the main pipe L1 is selected as $\Phi 41.3/ \Phi 34.9/ \Phi 19.1$ from step 3, and $\Phi 41.3/ \Phi 34.9/ \Phi 22.2$ from step 4, we finally select the larger pipe $\Phi 41.3/ \Phi 34.9/ \Phi 22.2$ as main pipe L1.

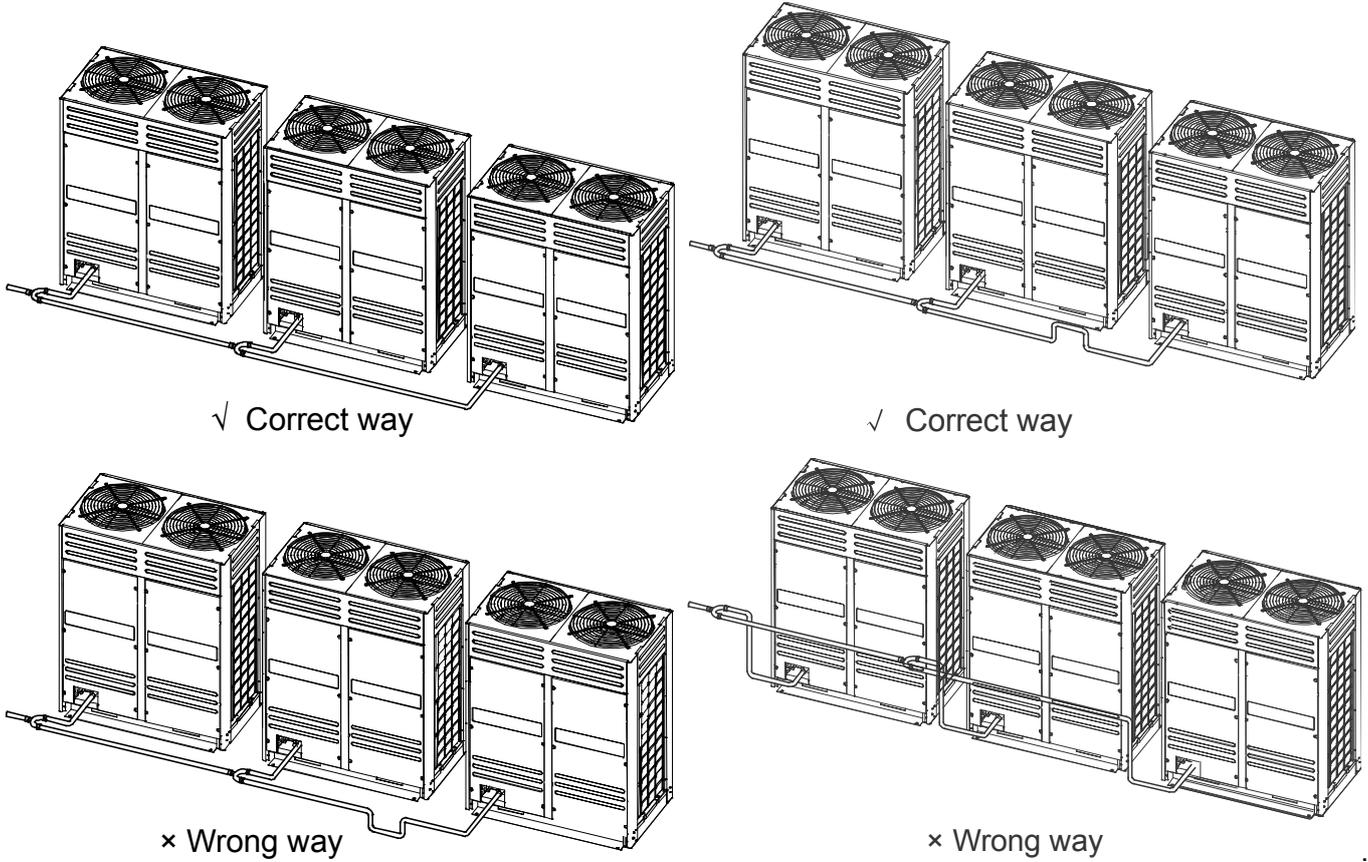
5. Outdoor unit connection pipe (g1, g2, g3, G1,L+M) selection (refer to table3, table 4)

- The pipe g1 is connected to 10HP outdoor unit. Refer to table3, the diameter of g1 is $\Phi 22.2 / \Phi 19.1/ \Phi 12.7$
- The pipe g2 is connected to 12HP outdoor unit. Refer to table3, the diameter of g2 is $\Phi 22.2 / \Phi 19.1 / \Phi 12.7$
- The pipe g3 is connected to 16HP outdoor unit. Refer to table3, the diameter of g3 is $\Phi 28.6/ \Phi 22.2 / \Phi 15.9$
- The upstream outdoor unit quantity of G1 is two. Refer to table3, the diameter of G1 is $\Phi 34.9/ \Phi 28.6/ \Phi 19.1$
- The quantity of combined outdoor units is three. Refer to table4, the outdoor branch assembly is L+M: FQZHW-03SB

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

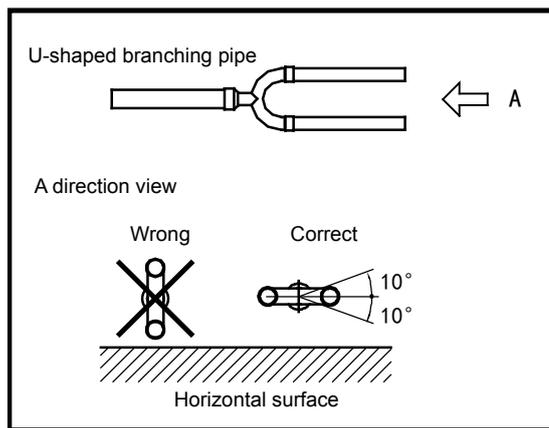
6.4 Piping connection between outdoor units

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.

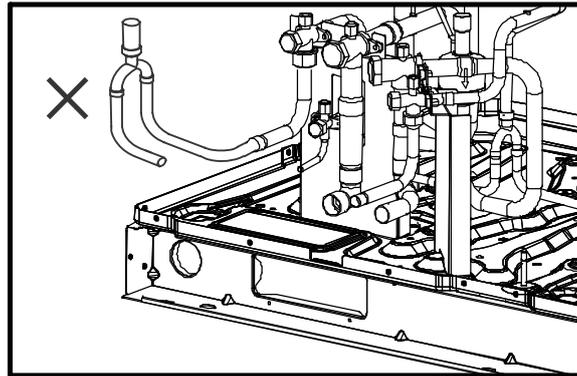
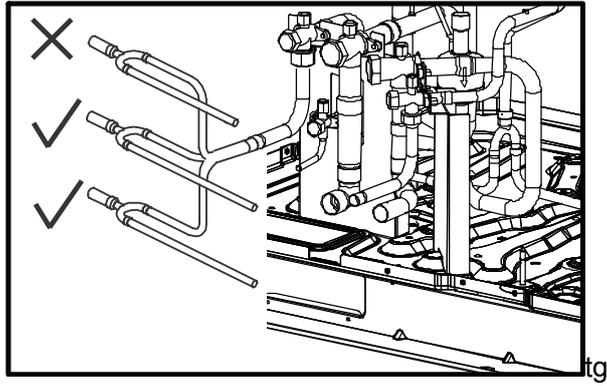


6.5 Branch pipe installation

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.

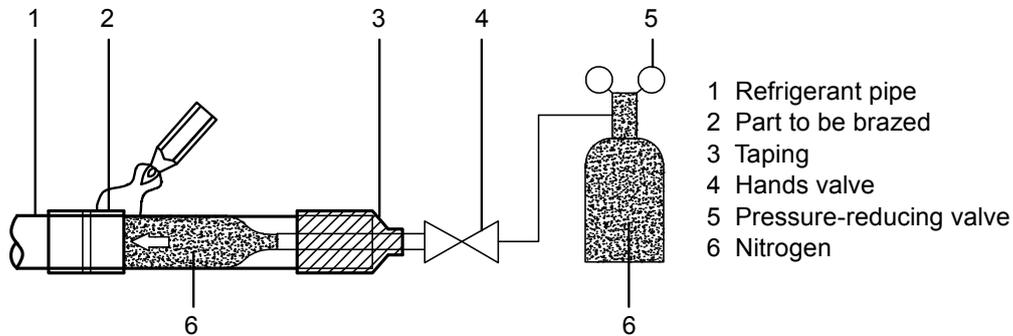


For avoiding oil accumulate at the outdoor unit, please install the branching pipes properly.



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.



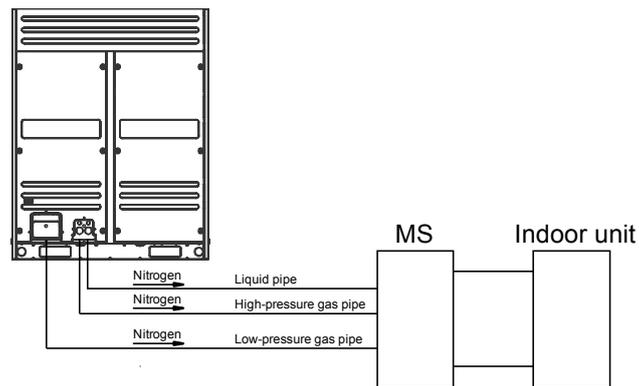
- Do not use anti-oxidants when brazing the pipe joints. Residue can clog pipes and break equipment.
- Do not use flux when brazing copper-to-copper refrigerant piping. Use phosphor copper brazing filler alloy (BCuP) which does not require flux.
- Flux has an extremely harmful influence on refrigerant 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.

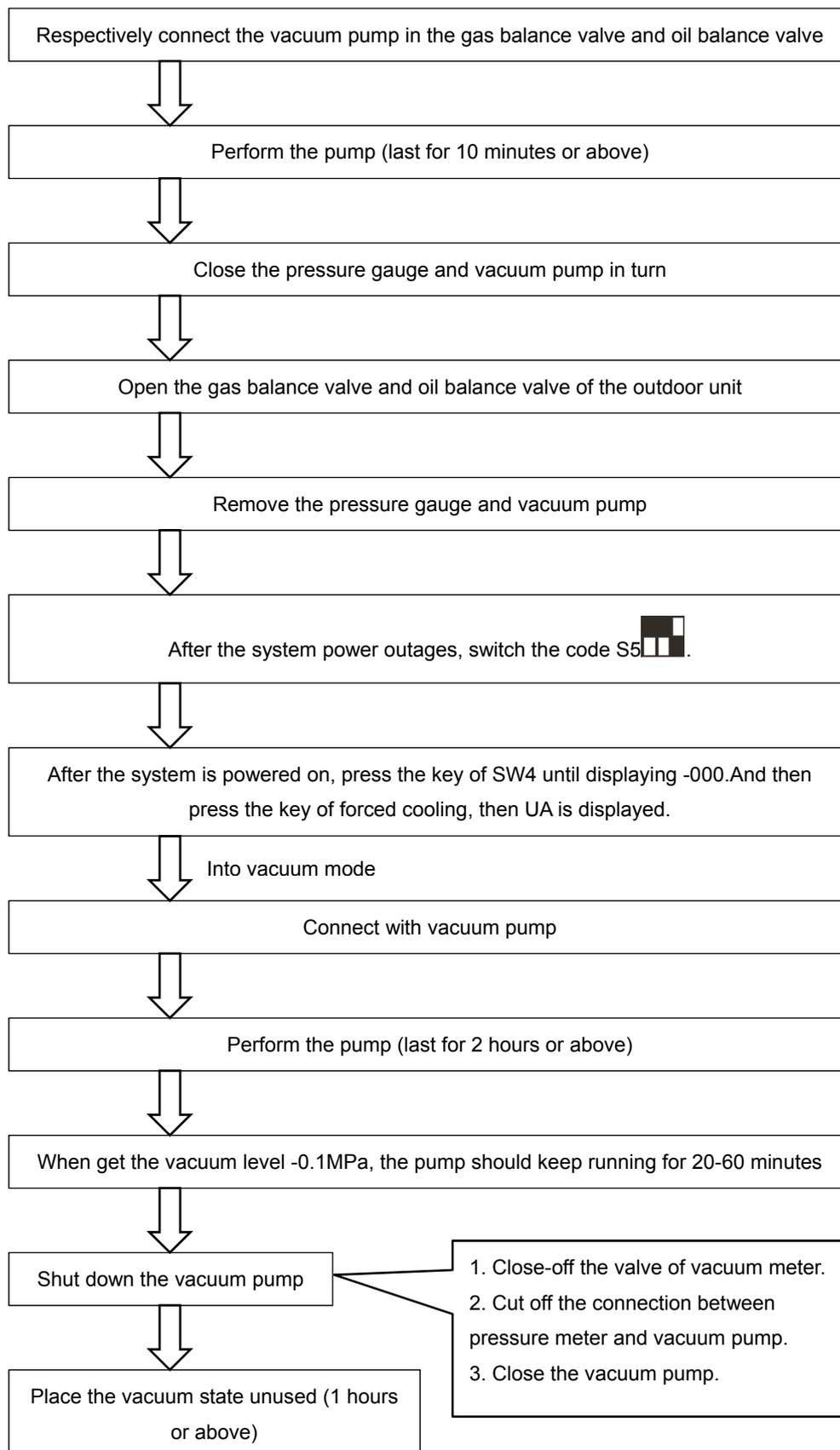


Note:

- 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 be damaged, the pressure maintained time should not last too long.

10. Vacuum

- Use the vacuum pump which vacuum level lower than -0.1MPa and the air discharge capacity above 40L/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 or below after 2 hours or above operation. If the pump operated 3 hours or above could not achieve to -0.1MPa or below, please check whether water mix or gas leak 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, and MS is 1m (for calculation purposes).

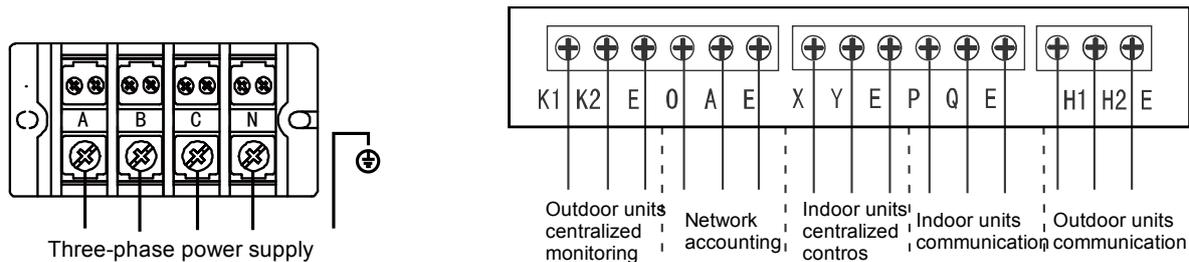
The refrigerant charge of MS02 is 0.3kg/per, MS04/MS06 is 0.5kg/per.

| Pipe size of liquid side (mm) | Additional refrigerant charge per meter (kg) |
|--------------------------------|--|
| Φ6.35 | 0.023 |
| Φ9.53 | 0.060 |
| Φ12.7 | 0.120 |
| Φ15.9 | 0.180 |
| Φ19.1 | 0.270 |
| Φ22.2 | 0.380 |
| Φ25.4 | 0.550 |
| Φ28.6 | (0.710 |

- Charge the additional refrigerant from the low-pressure pipe and liquid pipe.
- Switch the code S5 
- The system will quit from vacuum mode and go to normal running after power on.

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) |
| MVUR252B-VA3 | 50/60 | 380~415 | 342 | 440 | 18.4 | 20.8 | 25 | - | 17.4 | 0.42 | 3.6 |
| MVUR280B-VA3 | 50/60 | 380~415 | 342 | 440 | 20.6 | 22.1 | 25 | - | 17.4 | 0.42 | 3.6 |
| MVUR335B-VA3 | 50/60 | 380~415 | 342 | 440 | 21.8 | 22.8 | 25 | - | 17.4 | 0.42 | 3.6 |
| MVUR400B-VA3 | 50/60 | 380~415 | 342 | 440 | 27.9 | 31.8 | 35 | - | 17.4+10.5 | 0.71 | 5.9 |
| MVUR450B-VA3 | 50/60 | 380~415 | 342 | 440 | 33.4 | 32.8 | 35 | - | 17.4+10.5 | 0.71 | 5.9 |

The current value of combination unit is the total value of each basic model (refer to Units Combination Table in Part1)

For example: 46HP=16HP+16HP+14HP

Power current: MCA=33.4+33.4+27.9=94.7A

TOCA=32.8+32.8+31.8=97.4A

MFA=35+35+35=105A

Compressor: RLA=(17.4+10.5)+ (17.4+10.5)+ (17.4+10.5)=83.7A

OFM: FLA=5.9+5.9+5.9=17.7A

Notes:

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

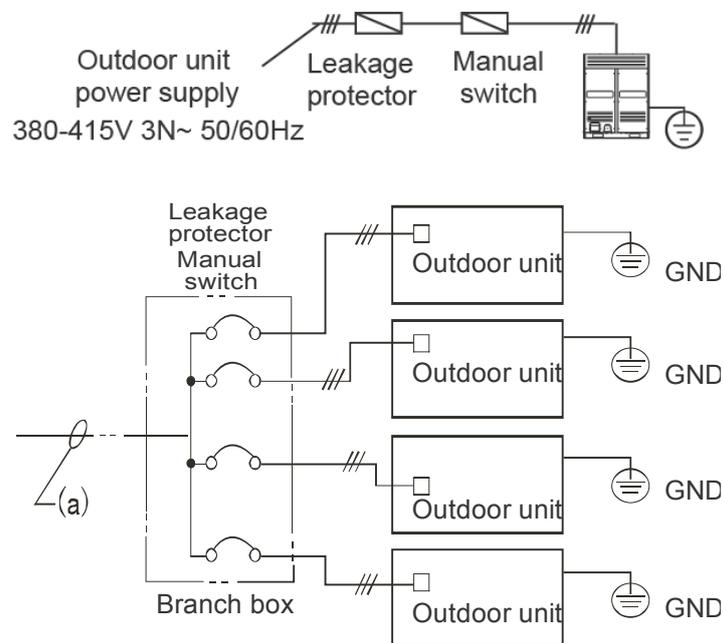
KW: Rated Motor Output (KW)

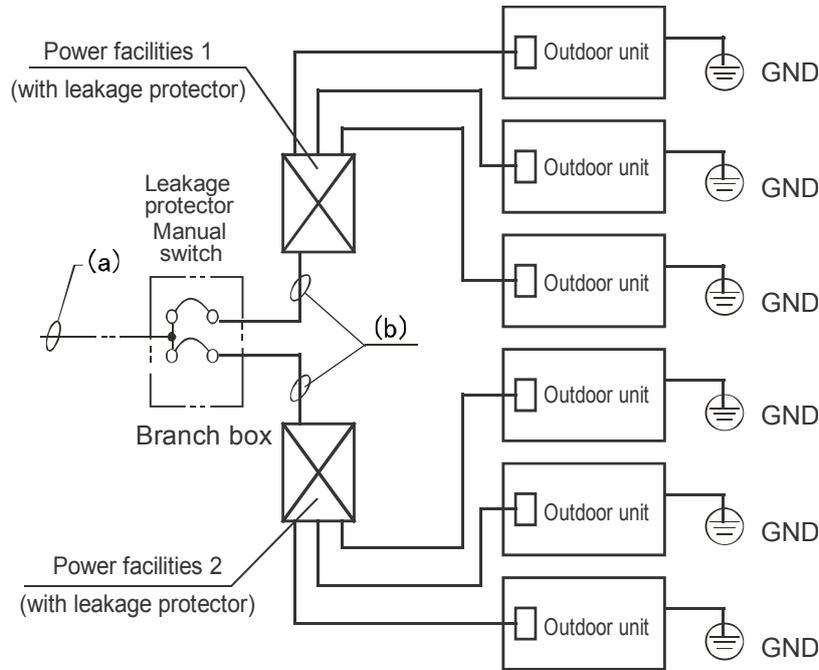
12.3 Electric wiring installation

Note:

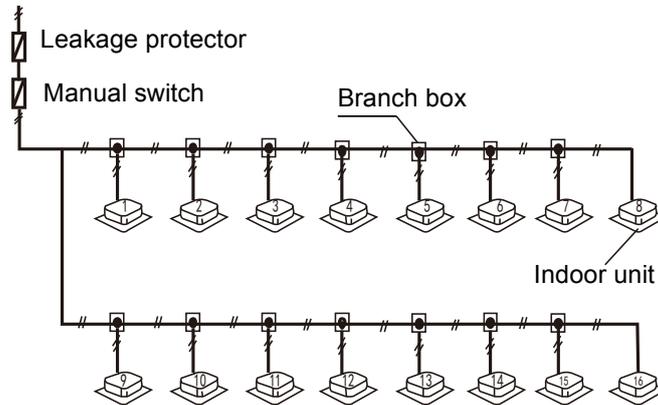
- Please select power supply for indoor unit and outdoor unit separately.
- The power supply should have specified branch circuit with leakage protector and manual switch.
- The power supply, leakage protector and manual of all the indoor units connecting to the same outdoor unit should be universal. (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 300mm, when current capacity of power supply less than 10A, and Keep distance above 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 300mm so as to preventing signal interference.

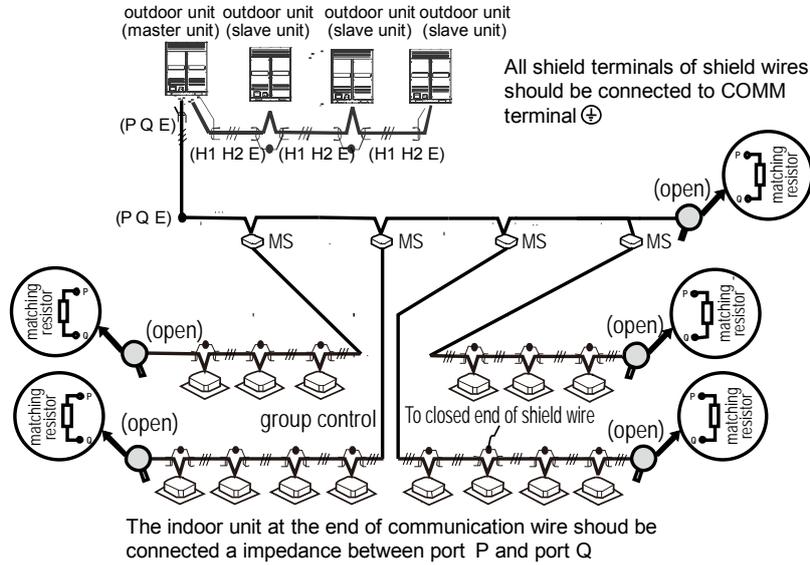
Control wire could not form closed loop.

Control wire has polarity, so be careful when connecting.

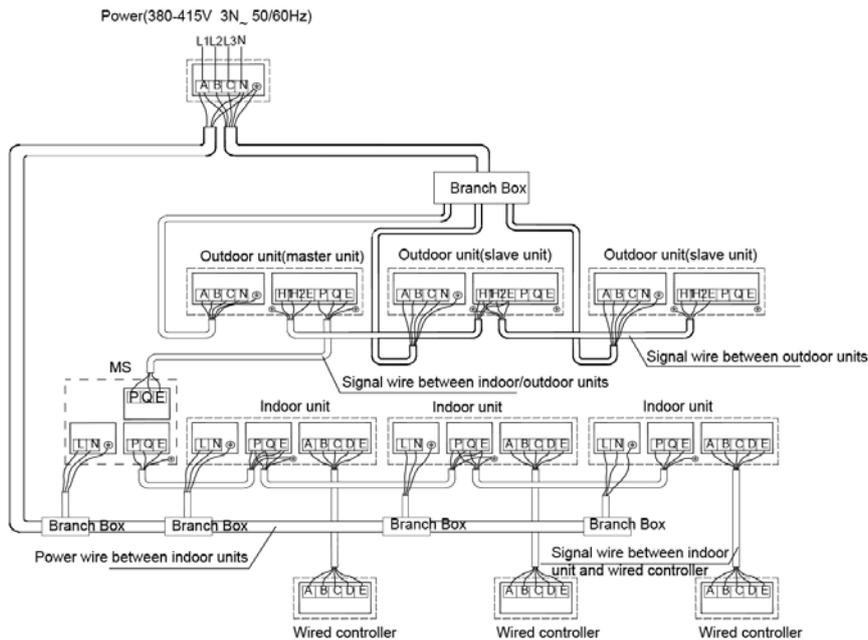
The shield net should be grounded at the wiring terminal of outdoor unit. The inlet and outlet wire net of indoor communication wire should be connected directly and could not be grounded, and form open circuit at the shield net of final indoor unit.

12.4.1 Signal wire between outdoor unit and indoor unit

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



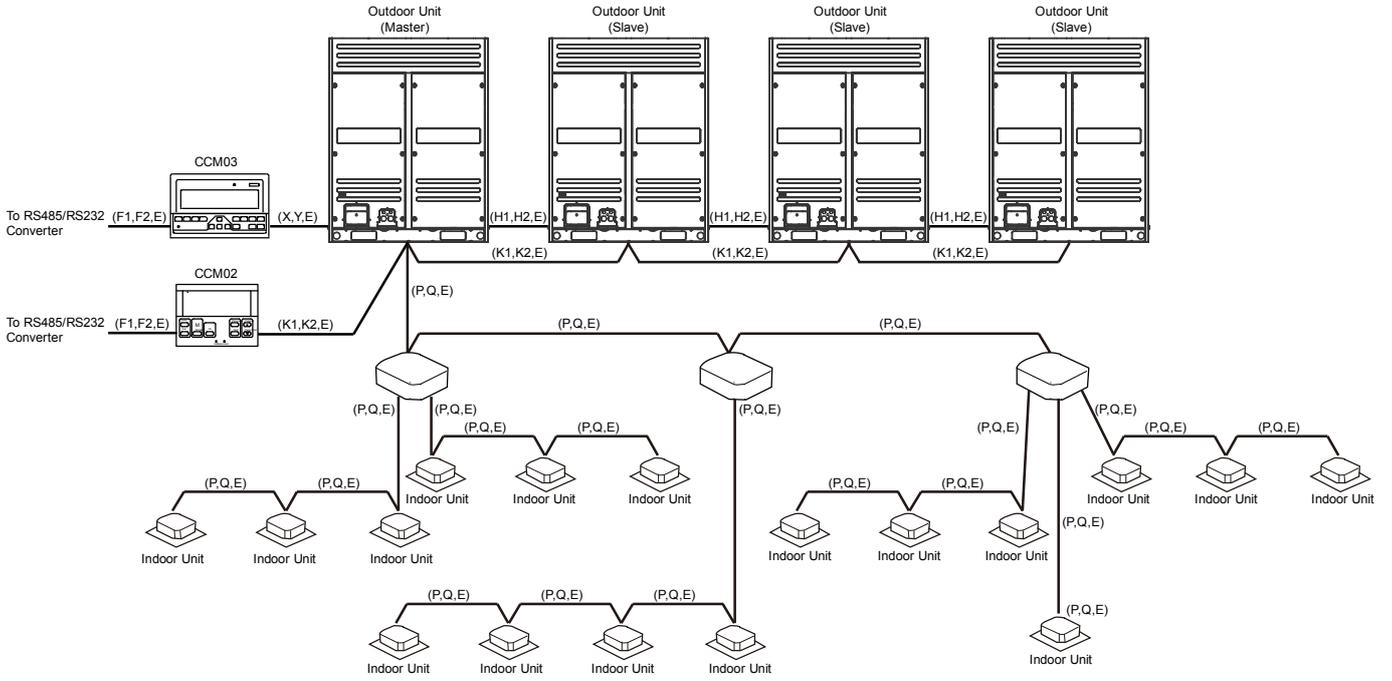
12.4.2 Example connection of wiring



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.**

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) |

ENC3+S12: Indoor unit quantity setting

| | | |
|---|---|--------------------------------------|
|  |  | The quantity of indoor unit is 0-15 |
|  |  | The quantity of indoor unit is 16-31 |
|  |  | The quantity of indoor unit is 32-47 |
|  |  | The quantity of indoor unit is 48-63 |

ENC1: Outdoor unit address setting

| | |
|---|---|
|  | Only 0, 1, 2, 3 are available. 0 is for main unit; 1, 2, 3 are for slave units |
|---|---|

ENC2: Outdoor unit capacity setting

| | |
|---|---|
|  | Only 0, 1, 2, 3, 4 are available. 0: 8HP; 1: 10HP; 2: 12HP; 3: 14HP; 4: 16HP |
| ENC4: Network address setting | |
|  | Only 0, 1, 2, 3, 4, 5, 6, 7 are available. |

13. Running test

13.1 Inspection and confirmation before commissioning

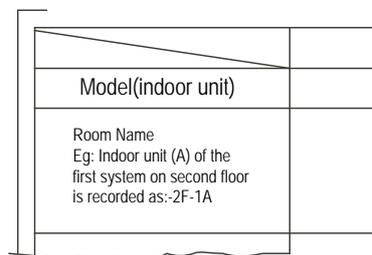
- Check and confirm that refrigeration pipe line and communication wire of indoor and outdoor units have been connected to the same refrigeration system. Otherwise, operation troubles shall happen.
- Power voltage is within $\pm 10\%$ rated voltage.
- Check and confirm that the power wire and control 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: $40\text{kg}/\text{cm}^2$.
- 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.

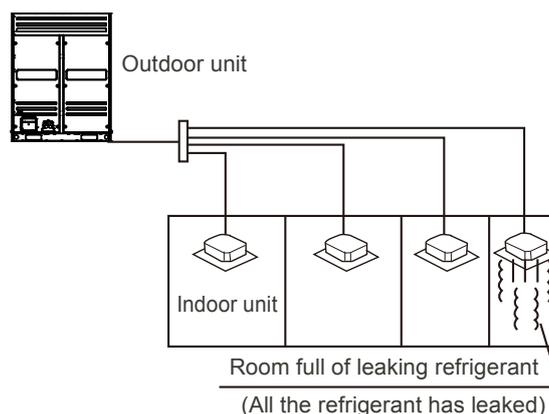
13.3 Fill the name of connected system

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.



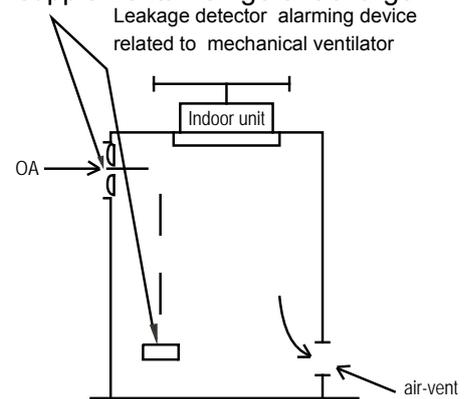
13.4 Caution on refrigerant leakage

- 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: $0.3\text{ kg}/\text{m}^3$, (Critical thickness: the max thickness of Freon without any harm to person)



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

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



Part 5 MS Unit Installation

| | |
|--|------------|
| 1. Select installation position | 133 |
| 2. Installation space..... | 133 |
| 3. Body installation..... | 134 |
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| 5. Refrigerant piping installation..... | 136 |
| 6. Electric wiring installation | 140 |
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| 8. Trial running | 146 |

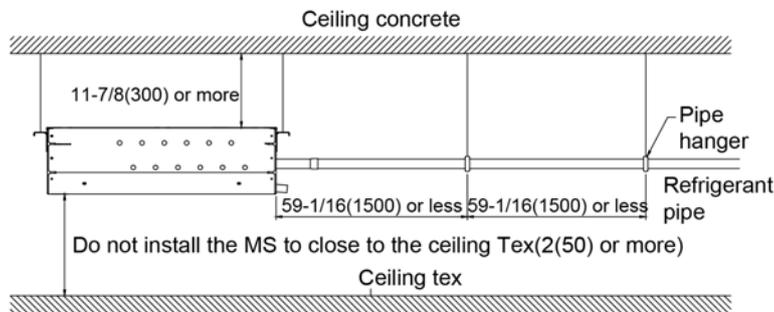
1. Select installation position

1. A place can provide enough installation and maintenance space.
2. Horizontal ceiling and its building construction is able to withstand the set's weight.
3. A place where the connecting pipes and drain pipes can be connected easily.
4. The installation location should consider the length of the refrigerant pipe connected with the outdoor and indoor units; it cannot exceed the limited length range.

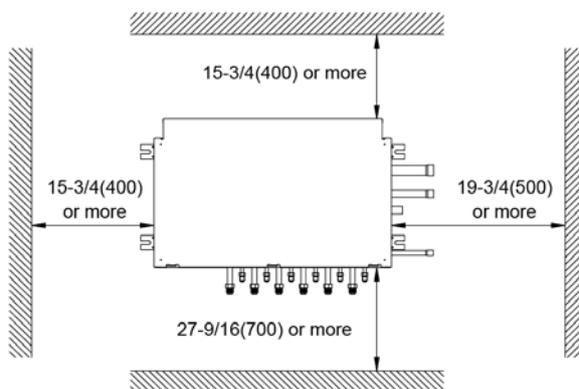
Note:

- ◆ Do not install the MS near the strong electromagnetic interference environment, otherwise will cause the MS communication error.
- ◆ For the MS may produce refrigerant noise, please do not install it at the silent places, such as sleeping room, hospital sickroom, dedicated silent room etc., recommend installing it at the corridor or washing room etc.
- ◆ Be sure to install drain piping in order to ensure proper drainage.
- ◆ Improper drain piping may result in water leakage and bedewing furniture etc.
- ◆ Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks.
- ◆ Do not install the MS at any place where flammable gas may leak out.
- ◆ If the gas leaks out and stays around the MS, a fire may break out.
- ◆ Be sure to install at a strong and firm foundation or ceiling base. If the foundation or ceiling base is not strong and firm enough, the set will drop to cause injury.
- ◆ Connect the electric cable correctly. If wrong connecting the electric cable, then it will damage the electrical components.
- ◆ Expose the unit to the water or other moisture before installation will lead to the short circuit of the electrical components.
- ◆ Don't store the unit in the humid basement or expose to the rain or water. If refrigerant leaks happen during installation, then ventilate the room immediately.
- ◆ After finishing the installation work, be sure to check whether the refrigerant leak or not. If refrigerant leak and is exposed to the fire source such as heater, fire pot or electric cooker etc., then will produce toxic gas.

2. Installation space



Unit: in.(mm)



Unit: in.(mm)

3. Body installation

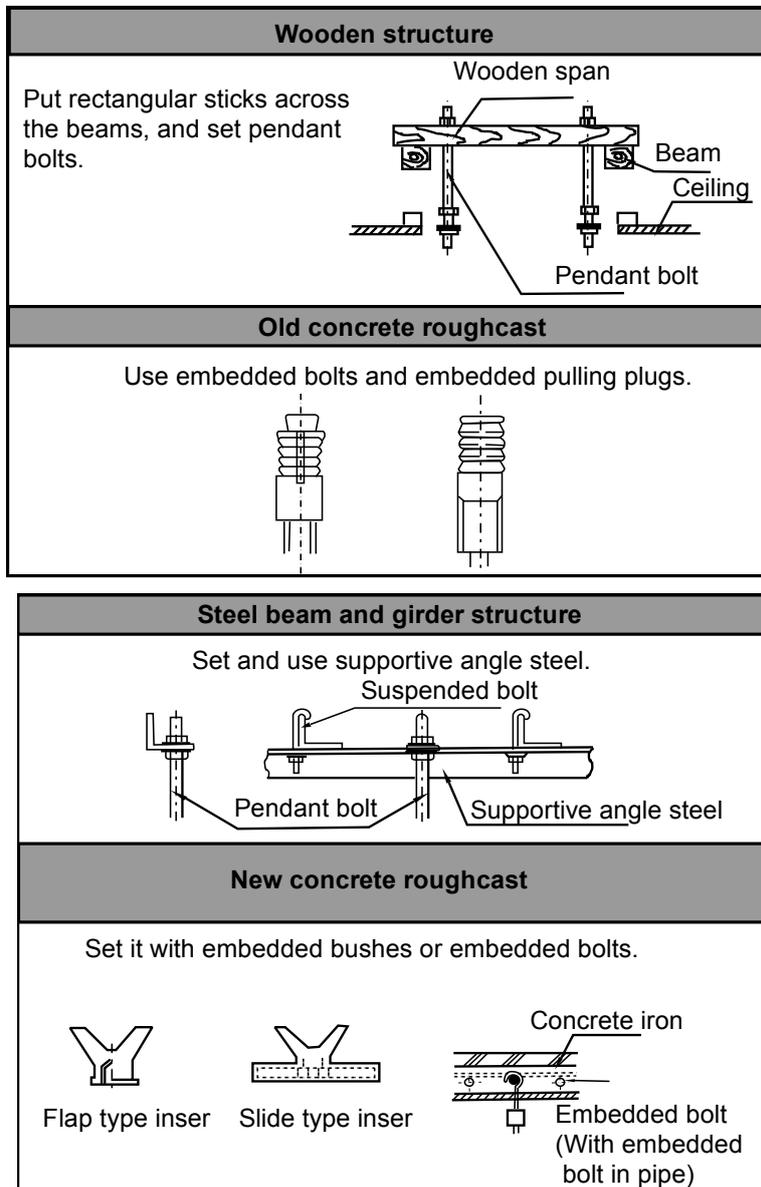
3.1 Install the Φ10mm hoisting screw

1. Please use Φ10mm hoisting screw.
 2. Remove the ceiling: For different architectural structure, details please contact with indoor decoration personnel.
- ◆ Ceiling: For make sure the ceiling level and for avoiding to the ceiling vibration, it must be strengthened the ceilingplate base frame.
 - ◆ Do not cut off the ceiling plate base frame.
 - ◆ Strengthen the base frame on the both sides of the fixed ceiling.
 - ◆ After hoisting install the main body, it should do the piping and wiring work in the ceiling, decide the outlet directions of the pipes after selected the installation location. Especially for the position already has ceiling, please install pipe, drainage pipe, indoor and outdoor units connecting wires and wire controlling wire to the connecting positions before hoisting the unit.

3.2 Install the MS

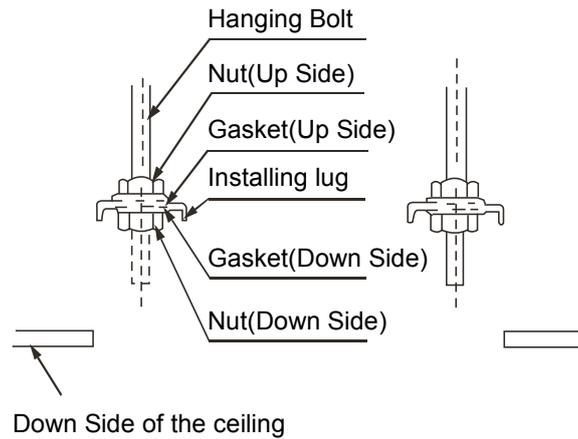
1. Please use the pulley to hoisting install the MS unit on the hoisting bolt.
2. Please use the gradienter to adjust the MS to be horizontal, if not, it may cause water leakage.

3.3 Install the hanging screw bolts

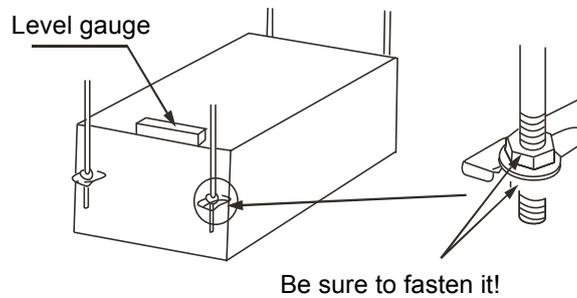


3.4 Hanging the MS

1. Adjust the nut's site, the interval between gasket (Down Side) and the ceiling should according to actual construction.



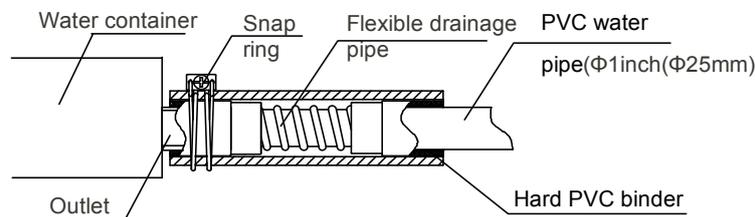
2. Hang the nut of hanging screw bolt into the slotted hole of the installing ear.
3. Use the level gauge to confirm the horizontality of the unit. (Prohibitfalling toward non-drainage side, better to fall a little toward the drainage side)



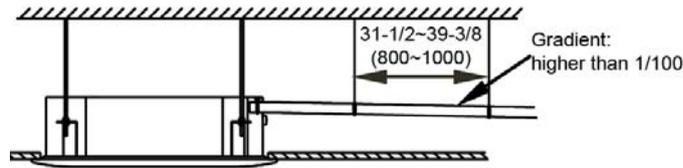
4. Drain pipe installation

4.1 Install the drain pipe

1. Please use the flexible drainage pipe to connect the MS drainage port and the PVC pipes, and use the snap ring for fastening.
2. While connecting other drain pipes please use hard PVC binder and check whether leak or not.
3. The waterspout joints and drain pipes (especially the indoor parts) of the main unit have to wrap up evenly by insulated casing pipes, and tighten up with lacing belt, in order to prevent air admission and cause condensation.

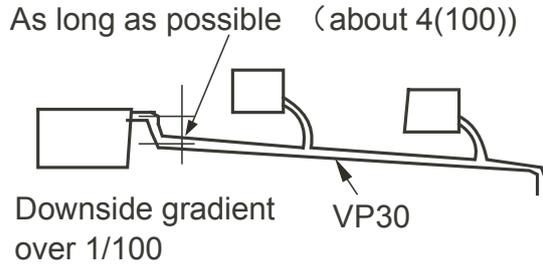


4. For avoiding to the condensate water reflow to the air-conditioner inner, the drain pipes should incline toward the outdoor side (drainage side), the gradient should be over 1/100, and do not turn up defect as prominence and water absorb etc.
5. While connecting the drain pipes, do not pull so hard for avoiding the main unit effect by force. The transverse pull-out of the drain pipes should be within 20m, meanwhile, set a supporting point every 0.8~1.0m, for avoiding the flexure of drain pipes; use hard polyethylene (PE)PE pipes to connect the drain pipes and the connecting pipes, and use the connecting pipes to fasten the drain pipes.



Unit: in.(mm)

6. Central install the drain pipes please follow below diagram to match pipes.



Unit: in.(mm)

7. The end of the drain pipe should leave the ground or the bottom of the drain tank more than 50mm, and should not put into the water. While directly pour the condensate water into foul sewer, must make the sparge pipe bend up to a U-shape water seal, in order to avoid the fetor come into the indoor through the drain pipe.

Note: For avoiding water leakage, every joint of the drainage system must be sealed up.

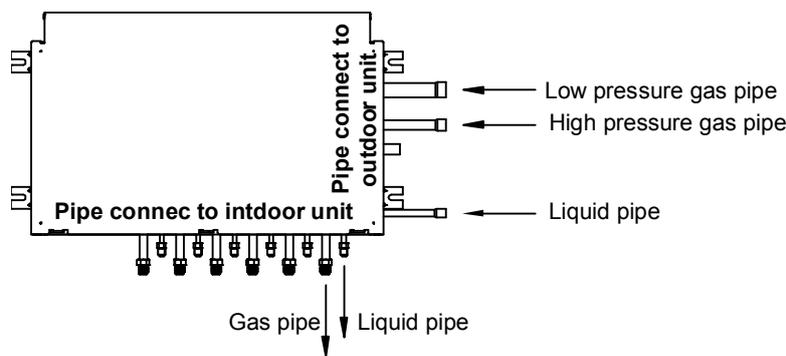
4.2 Drain test

1. It should keep the drainage piping smooth, and check every joint whether sealed up or not before doing drain test.
2. For newly built room, do the drain test before paving the ceiling.
 - ◆ Use a water main to fill the water tank with 500~1000ml water.
 - ◆ Check whether drained water normally and whether has leakage on the connectors.

Refrigerant piping installation

5. Refrigerant piping installation

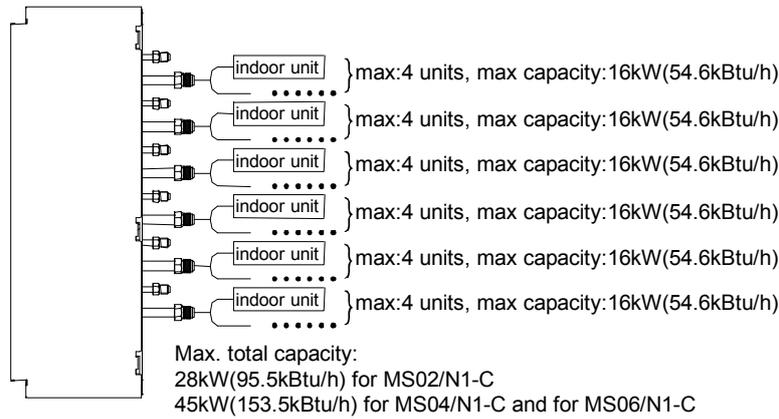
5.1 Connection piping instruction



5.2 Connecting diagram of MS and indoor unit

Connecting diagram 1

“MS02/N1-C”, “MS04/N1-C”, “MS06/N1-C” which can be connected multiple indoor units.

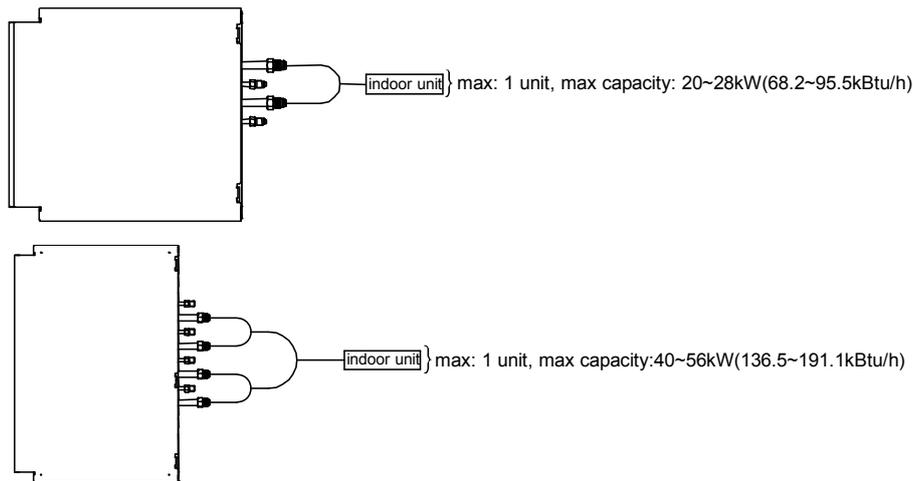


Note:

- The maximum number of each group indoor units should be less than 4, and the maximum capacity of each group indoor units should be less than 16kW.
- If the indoor units do not have auto mode function, then each group of MS can be connected with four indoor units at most for one time; otherwise, it can be connected with only one indoor unit at most.
- Indoor units in the same group of MS cannot be operated in cooling or heating mode at the same time, or operated in heating and air supplying mode at the same time; otherwise it will be mode conflict.

Connecting diagram 2

“MS02E/N1-C” and “MS04E/N1-C” which can be connected only one indoor unit.

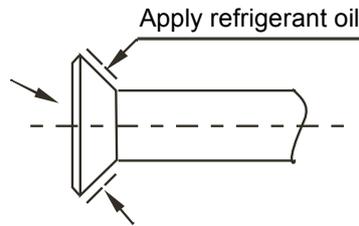


Caution:

- Do not let air, dust, or other impurities fall in the pipe system during the time of installation.
- The connecting pipe should not be installed until the indoor and outdoor units have been fixed already.
- Keep the connecting pipe dry, and do not let moisture in during installation.
- The connecting copper pipes should be wrapped up by insulated materials (more than 10mm thick).

5.3 The procedure of connecting pipes

1. Connect the indoor unit first, and then connect the outdoor unit.
 - a) The pipe bend should be handled carefully, without damaging the pipe and insulation layer.
 - b) Before screwing up the flared nut, apply refrigerant oil at the outer surface of the pipeline flare and the taper surface of the connection nut. Screw up the nut for 3~4 circles beforehand.



- c) When connecting or disconnecting the pipe, be sure to use two spanners concurrently.
 - d) Do not rest the weight of the connective pipe on the adapter of the indoor unit. Too heavy load on the adapter of the indoor unit may deform the pipe and thus affect the cooling/heating effect.
2. The valve of the outdoor unit should be closed completely (as in the factory status). Every time when connecting the pipe, screw off the nut at the valve, and connect the flared pipe (within 5 minutes). If the nut is put away for a long time after being screwed off the valve, dust and other foreign substance may intrude into the pipeline system and lead to fault.
 3. After the refrigerant pipe is connected to the indoor and outdoor units, expel air as instructed in the “Expel air” section. After expelling the air, screw up the nut at the maintenance orifice.
- a) Precautions for the flexible part of the pipeline
 - ◆ The bend angle shall not exceed 90°.

Use a thumb to bend the pipe



Minimum radius 100mm

- ◆ The bend shall be preferably in the middle of the pipe length, and higher bend radiuses are preferred.
 - ◆ Do not bend the flexible pipe for over 3 times.
- b) Bend the thin-wall connective pipe



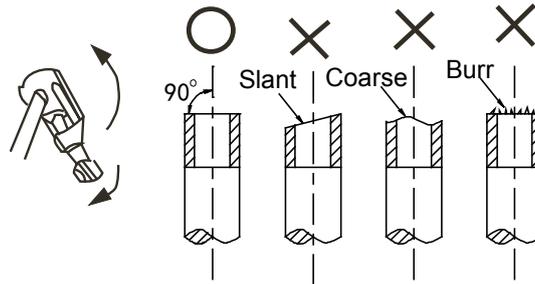
→ Method of unleashing the spooled pipe
Straighten the pipe end

- ◆ When bending the pipe, cut out a notch of the desired size at the bend of the adiabatic pipe, and then expose the pipe (wrap the pipe with the wrapping tape after bending it).
 - ◆ The radio of the elbow pipe should be as large as possible to prevent flattening or crush.
 - ◆ Use the pipe bender to make close elbow pipe.
4. Deploy the pipelines
 - ◆ Drill a porthole on the wall, and put the hole sheath and hole cover through the wall.
 - ◆ Place the connective pipe together with the indoor & outdoor connection wires. Use wrapping tape to tie them tight. Do not let air penetrate into it lest condensation and drips of moist.
 - ◆ Pull the connective wrapped connective pipe from outdoor through the sheath, which gets through the wall, and lead it into the room.
 5. Make a vacuum of connective pipeline.
 6. After the above steps are completed, the spool of the valve of the outdoor unit should be completely open, and the refrigerant pipeline of the indoor unit and the outdoor unit should be smooth.
 7. Use leak detector or soap water detect leak carefully to prevent leakage.
 8. Put on an adiabatic envelope (accessory) at connective pipe adapter of the indoor unit, and wrap it tight with the wrapping tape lest condensate and leakage.

5.4 Pipe connection

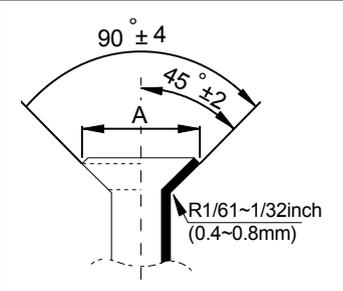
1. Flare

- Use a pipe cutter to cut off the pipe.



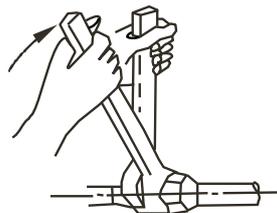
- Pull the pipe into the rear flare of the connective nut.

| Outer diameter mm | A mm | |
|----------------------|------|------|
| | Max. | Min. |
| Φ6.35 | 8.7 | 8.3 |
| Φ9.53 | 12.4 | 12.0 |
| Φ12.7 | 15.8 | 15.4 |
| Φ15.9 | 19.0 | 18.6 |
| Φ19.1 | 23.3 | 22.9 |



2. Tighten the nut

Align with the connective pipe, screw up the connection pipe nut manually, and use a spanner to tighten it.



According to the installation conditions, too large torque will damage the flaring, and too small torque will lead to looseness and leakage. Determine the tightening torque by reference to below table.

Liquid and gas pipes without connecting must be tightened with copper tube sealing piece.

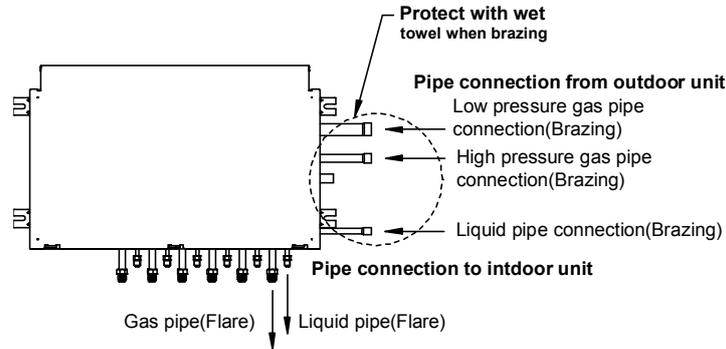
| Pipe size mm | Tightening torque N.M |
|--------------|-----------------------|
| Φ6.35 | 14.2~17.2 |
| Φ9.53 | 32.7~39.9 |
| Φ12.7 | 49.5~60.3 |
| Φ15.9 | 61.8~75.4 |
| Φ19.1 | 97.2~118.6 |

5.5 Welding the copper pipe

Use braze-welding for the low pressure gas pipe, high pressure gas pipe, liquid pipe which connected with MS and the outdoor unit.

During welding, use wet cloth to pack the copper pipe which near the MS.

During welding, use nitrogen gas to protect welding.



5.6 Airtight test

The refrigerant pipe after installation and before connect to the outdoor unit, it must undergo the airtight test with 3.92 MPa nitrogen for 24 hours from the low pressure gas pipe, high pressure gas pipe and liquid pipe.

5.7 Air purging

Connect the refrigerant pipe with the low pressure gas pipe, high pressure gas pipe, and liquid pipe of the outdoor unit. Use a vacuum pump, to vacuum from the low pressure gas pipe, high pressure gas pipe, and liquid pipe of the outdoor unit.

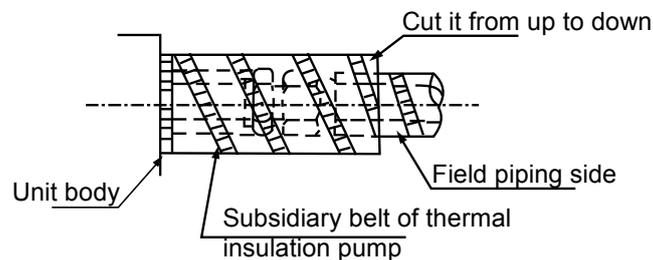
5.8 Open/close the valves

Open/Close the spools or the valves of outdoor unit with a hexagon spanner.

5.9 Thermal insulation

To process the thermal insulation for air side and liquid side piping. Please insulated the air side and liquid side piping completely, in the reason of during operate cooling mode the ambient temperature is very low.

- ◆ Thermal insulation at least 120°C material shall be applied for air side piping.
- ◆ Apply attached thermal insulation material to wrap the connective part of indoor piping tightly without gap.



6. Electric wiring installation

Note:

- ◆ Special power shall be applied within rated voltage range. External circuit of this air conditioner must be grounded that means power cable of outdoor unit shall be jointed with external grounding wire reliable.
- ◆ Electric wiring must be done by professionals, and wiring according to the wiring label.
- ◆ Fixing circuit must be wired with an a11-poledisconnection device at least 3mm switching distance of contact.
- ◆ Setting the electrical leakage device according to national regulation.
- ◆ Power cables and signal wires shall be arranged orderly and be wired rational without mutual interfere, and connective pipes and body of valves without mutual contact among them.
- ◆ The attached connective wire is 10m, provided that the length were not long enough, you must replace it by an appropriate length connective wire in the same specification. In a normal circumstance, it is not allowed to overlapping the two wires, but welded fix and wrapped by insulation adhesive band is except.
- ◆ All electric wiring is finished, you could input power as long as confirm that all wires connect are correct and fix tightly.

6.1 Power supply specifications

The power supply cable specifications are as follows. In case power capacity is too low may result in over-heating of piping that would be burned out the unit.

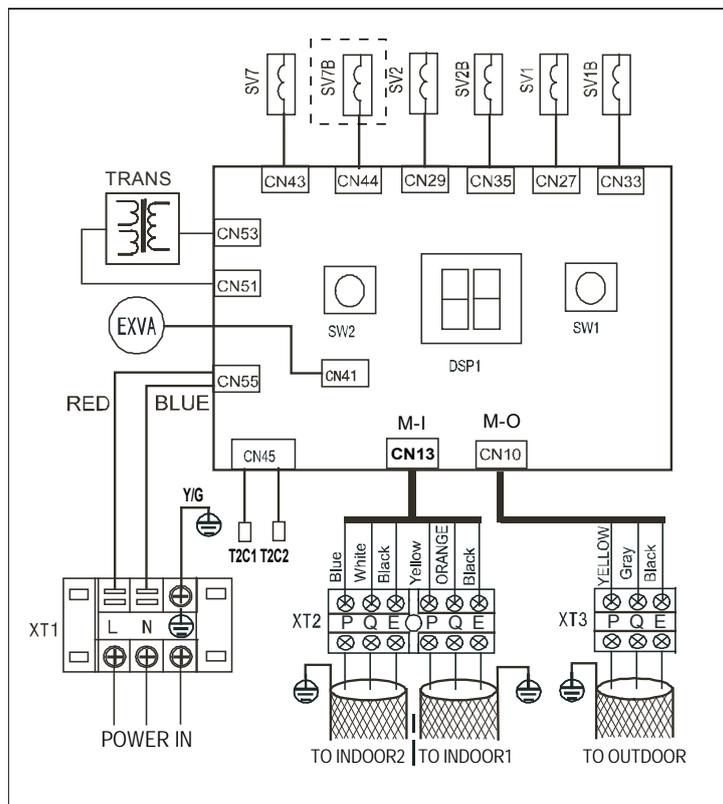
| Model \ Item | Power supply (V/Ph/Hz) | Power switch | | Power supply cable | | Signal wire |
|--------------|------------------------|--------------|-----------------|--------------------|-------------|----------------------------|
| | | Capacity (A) | Safety fuse (A) | Power wire | Ground wire | |
| MS02/N1-C | 220-240/1/50~60 | 5 | 5 | 2×14AWG | 1×14AWG | 3-core shielded wire 20AWG |
| MS04/N1-C | 220-240/1/50~60 | 5 | 5 | 2×14AWG | 1×14AWG | 3-core shielded wire 20AWG |
| MS06/N1-C | 220-240/1/50~60 | 5 | 5 | 2×14AWG | 1×14AWG | 3-core shielded wire 20AWG |
| MS02E/N1-C | 220-240/1/50~60 | 5 | 5 | 2×14AWG | 1×14AWG | 3-core shielded wire 20AWG |
| MS04E/N1-C | 220-240/1/50~60 | 5 | 5 | 2×14AWG | 1×14AWG | 3-core shielded wire 20AWG |

6.2 Wiring for the MS power wire and signal wire

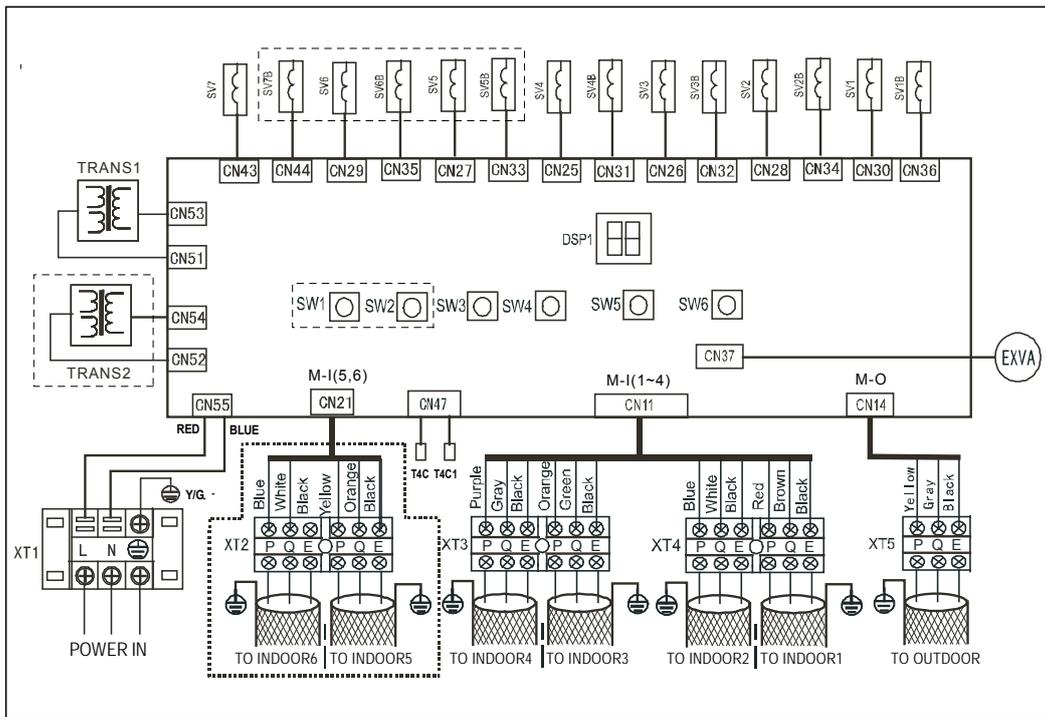
1. Please use dedicated power supply different from the outdoor unit for the MS power.
2. The power, electrical leakage protectors and operation switches for each indoor unit connected to the same outdoor unit and the MS should be in common use.
3. The MS power wire should be connected to the terminals with the label “L, N”, and the MS signal wire should be connected to the terminals with the label “P, Q, E” and correspond to the “P, Q, E” wiring terminals for the outdoor and indoor units, which cannot be wrong connected. Please refer to the following figures.

Wiring diagrams

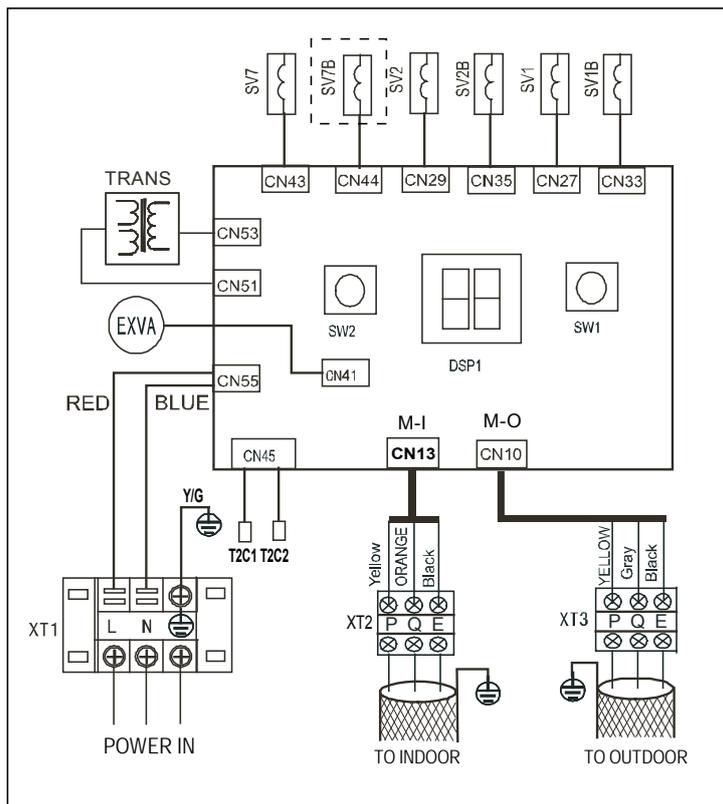
MS02/N1-C



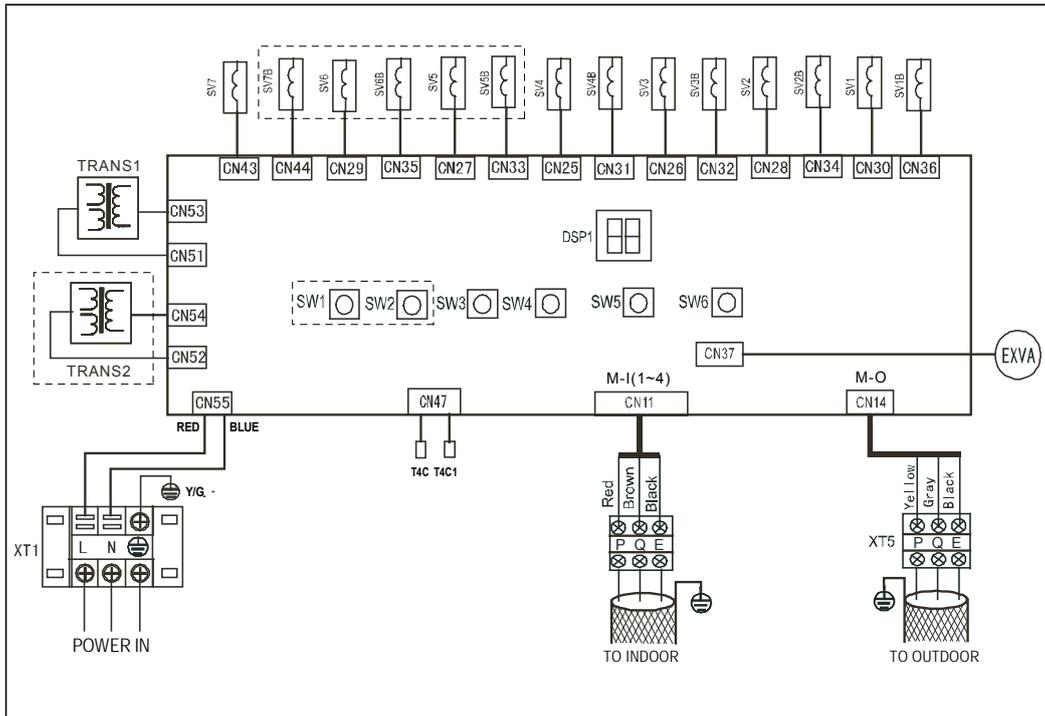
MS02/N1-C, MS02/N1-C



MS02E/N1-C

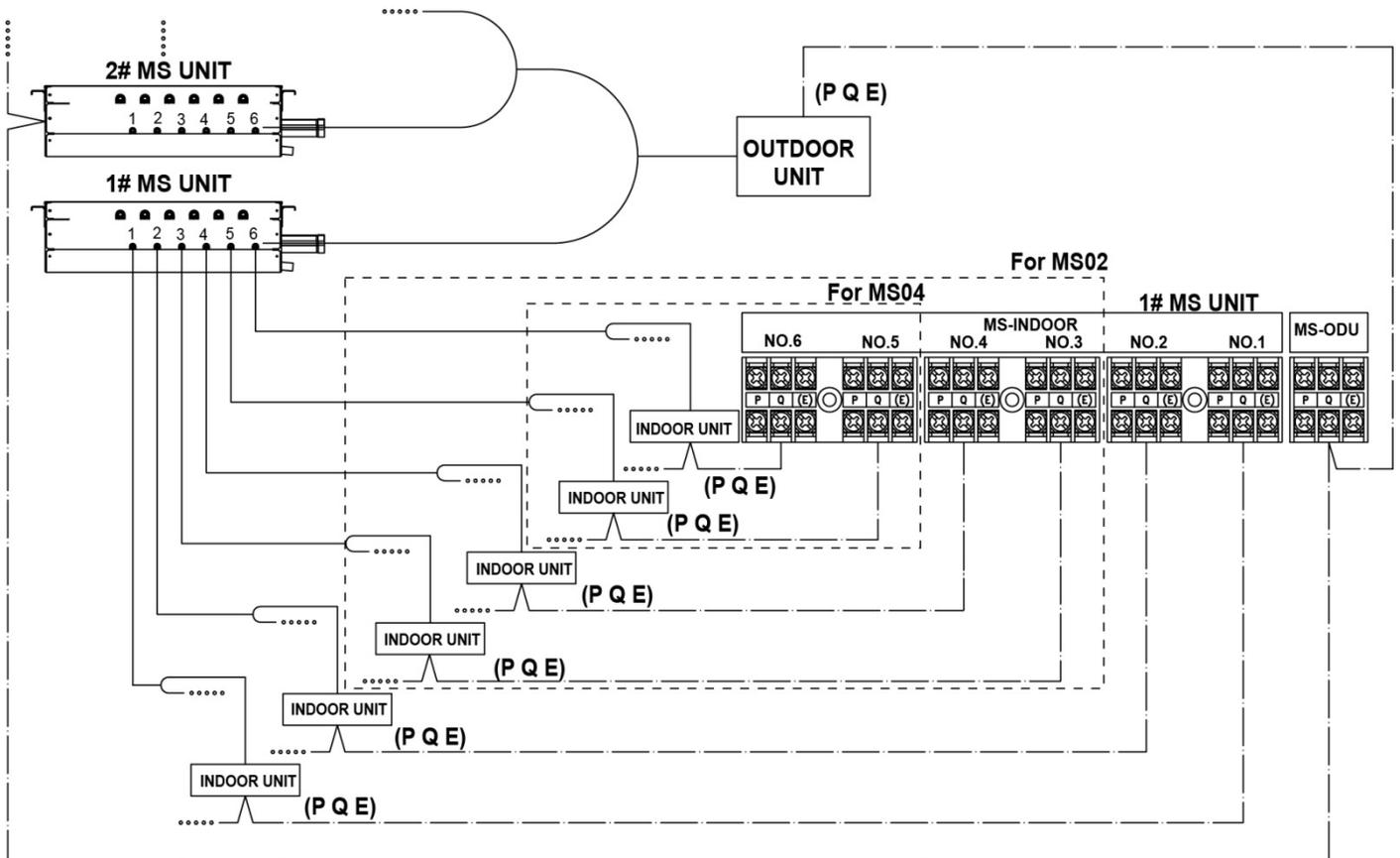


MS04E/N1-C



System wiring diagrams

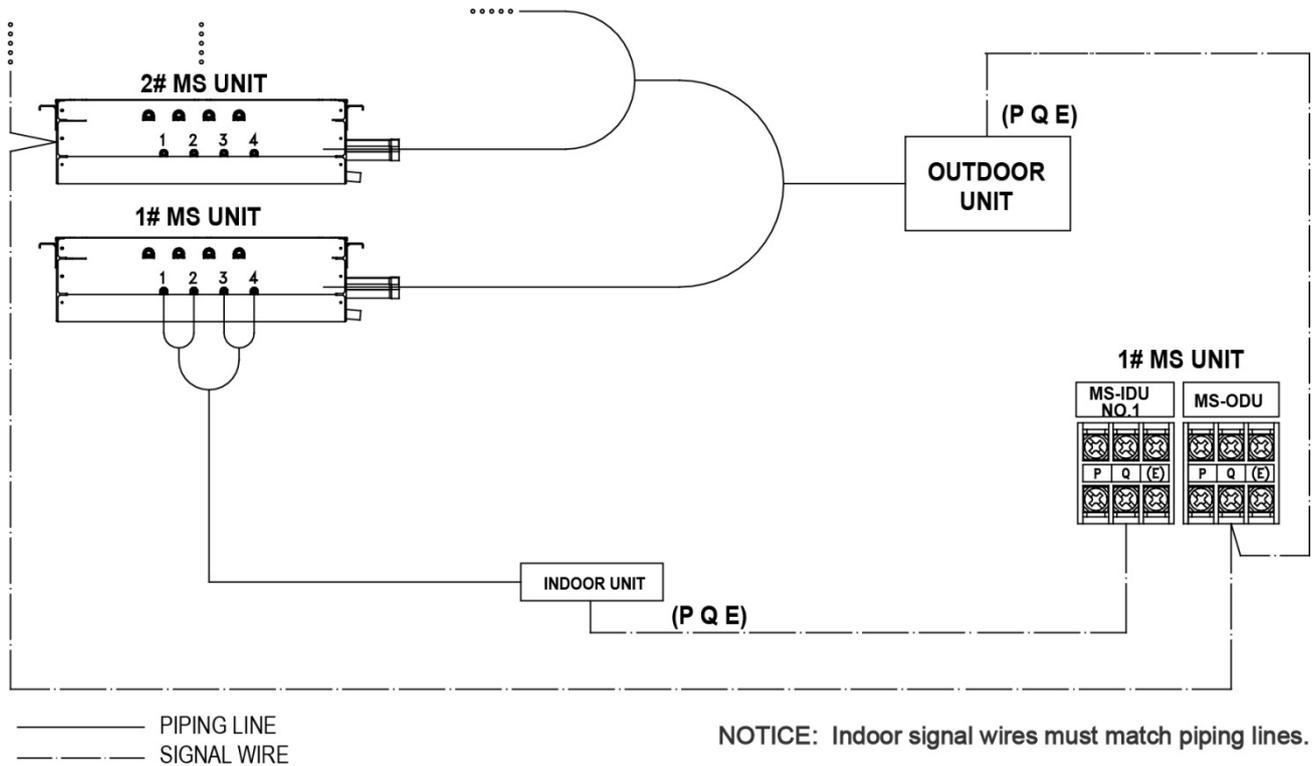
MS02/N1-C, MS04/N1-C, MS06/N1-C



—— PIPING LINE
 - - - - SIGNAL WIRE

NOTICE: Indoor signal wires must match piping lines.

MS02E/N1-C, MS04E/N1-C



Note:

1. The signal wire must use shielding wire. User other wires might cause signal interference and lead to malfunction.
2. All the shielding wires network should be interconnected, and finally connected together to the metal plate grounding.
3. Do not tie up the signal wire together with the refrigerant pipes and power wires etc. When parallel layout the power wire and signal wire, the distance should be over 300mm.
4. The signal wire cannot be a close loop.
5. The signal wire has polarity, please be careful during wiring.
6. Please use 3-core shielding wire for MS, indoor unit and outdoor unit signal wires (greater than or equal to 0.75mm^2). The signal wire has polarity, it needs correct connection. The MS and outdoor signal wires only can be led out from the outdoor main unit.

6.3 Check whether the MS and indoor unit signal wire is wired correctly or not.

Spot check:

1. Only power on the MS and indoor units which belong to No. n system;
2. Long press the MS spot check key which is correspond to No. n system for 6s, then No. n system will enter to spot check mode (MS02, MS04, MS06 has 2, 4, 6 spot check keys separately);
3. After enter spot check mode, the display panel will display "CH", when No. n system of MS detects the indoor unit communication signal, the No. n system will immediately operate the solenoid valve under this system as the following sequence: "SV(n)" ON 10s → "SV(n)-B" ON 10s → repeat the above steps for 3 times → "SV(n)" and "SV(n)-B" OFF;
4. If the valve didn't follow step 3 operation then means the No. n system communication has error, please check the signal wire connection between No. n system and indoor unit, and then repeat the step 1~3 to check the No. n system; if the valve followed step 3 operation then means the No. n system communication is normal, and then can repeat the step 1~3 to check other systems;

Exit spot check:

1. No indoor unit signal is detected in 10 minutes;
2. MS power off;
3. Finish spot check operation.

6.4 Spot check instruction

MS Spot check keys SW1-SW6 are separately corresponded to No.1-6 system

| No. | Content |
|-----|--|
| 1 | The quantity of downstream indoor units of this MS |
| 2 | The operation mode of this MS |
| 3 | Subcooling inlet temperature (T1C2) |
| 4 | Subcooling outlet temperature (T1C1) |
| 5 | Total T2(B) average value back from outdoor unit |
| 6 | Indoor unit T2(B) value under this MS |
| 7 | The quantity of opened outdoor unit |
| 8 | The operation mode* of outdoor unit |
| 9 | Subcooling PMV opening degree |
| 10 | The quantity of opened indoor units of this MS |
| 11 | Chip version number |
| 12 | -- |

Operation mode:

0: OFF; 2: Cooling mode; 3: Heating mode; 4: Force cooling mode; 5: Main cooling mode; 6: Main heating mode.

6.5 LED lamp instruction

| Phenomenon LED lamp | Normally ON | Slow flash | Flash |
|------------------------|---------------------------|----------------------------|----------------------------------|
| LED 1 | Outdoor unit ON | Outdoor unit standby | Outdoor unit communication error |
| LED 2 | Indoor unit ON of this MS | Indoor unit OFF of this MS | Indoor unit communication error |

7. Running test

7.1 Confirm the following insure before operation

- 1) Whether the MS, indoor unit and outdoor unit are installed correctly;
- 2) Whether the tubing and wiring are correctly completed;
- 3) Whether check the leakage of refrigeration piping system;
- 4) Whether the drainage is unimpeded;
- 5) Whether the heating insulation works well;
- 6) Whether the ground wiring is connected correctly;
- 7) Whether recorded the pipe length and the refrigerant added amount;
- 8) Whether the power voltage fits the rated voltage of the unit;
- 9) Whether there is no obstacle at the air outlet and inlet;
- 10) Open the stop valves of low pressure gas pipe, high pressure gas pipe, and liquid pipe, air balance pipe and oil balance pipe;
- 11) Power on, pre-heat the unit;
- 12) Whether the connected indoor unit quantity is the same with the actual quantity under the spot check MS situation;
- 13) Whether the connected outdoor unit quantity is the same with the actual quantity.

8. Trial running

Use the wired controller to control the operation of the unit, check the following items according to the instruction. If there is error, check the error according to the instruction and solve them.

8.1 Indoor unit

- 1) Check whether the switch of the wired/remote controller is normal;
- 2) Check whether the functional keys of the wired/remote controller are normal;
- 3) Check whether the indoor temperature adjusts normally;
- 4) Check whether the indication lamp is normal;
- 5) Check whether the manual operation button is normal.
- 6) Check whether water draining normally;
- 7) Check whether has excessively noise and vibration during operation;

8.2 MS unit

- 1) Check whether water draining normally;
- 2) Check whether has excessively noise and vibration during operation and mode shifting;

8.3 Outdoor unit

- 1) Check whether has excessively noise and vibration during operation;
- 2) Check whether the wind, noise and condensed water affect neighbors;
- 3) Check whether refrigerant leakage.

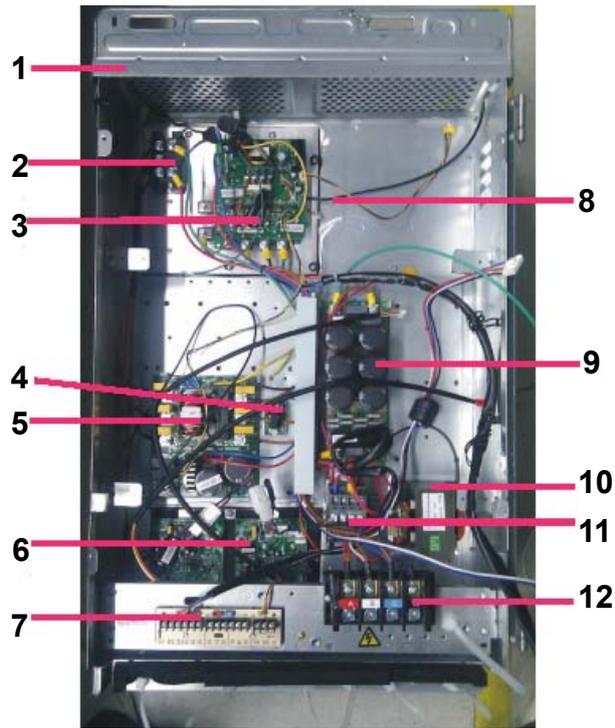
Part 6 Troubleshooting

| | |
|--|------------|
| 1. Outdoor electric control box assembly instructions | 148 |
| 2. Outdoor main control board instructions | 150 |
| 3. Error code table | 157 |
| 4. Troubleshooting..... | 159 |

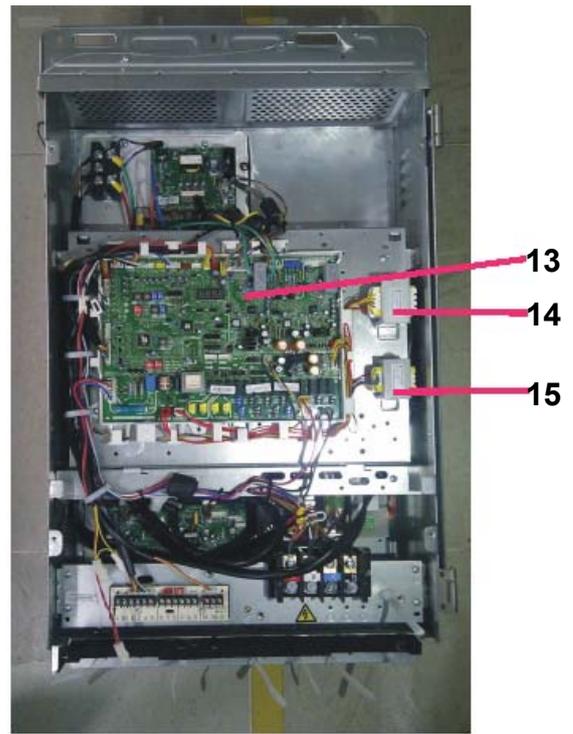
1. Outdoor electric control box assembly instructions

8/10/12HP

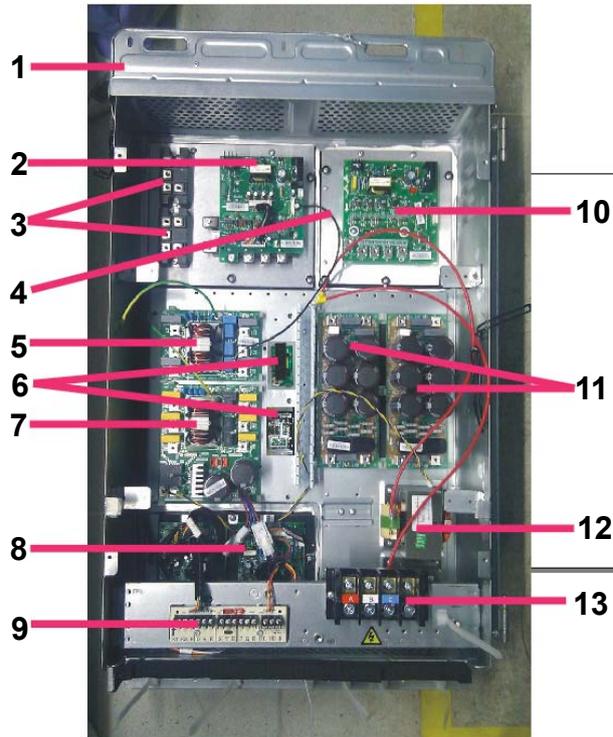
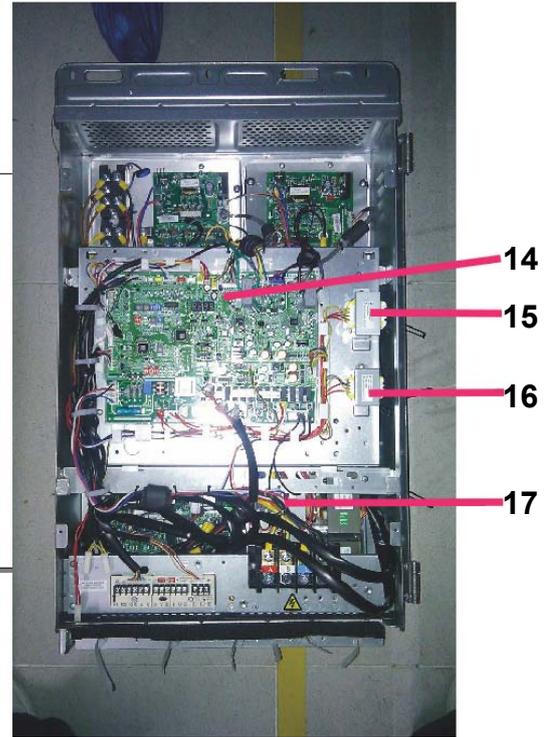
Bottom layer of electric control box



Top layer of electric control box



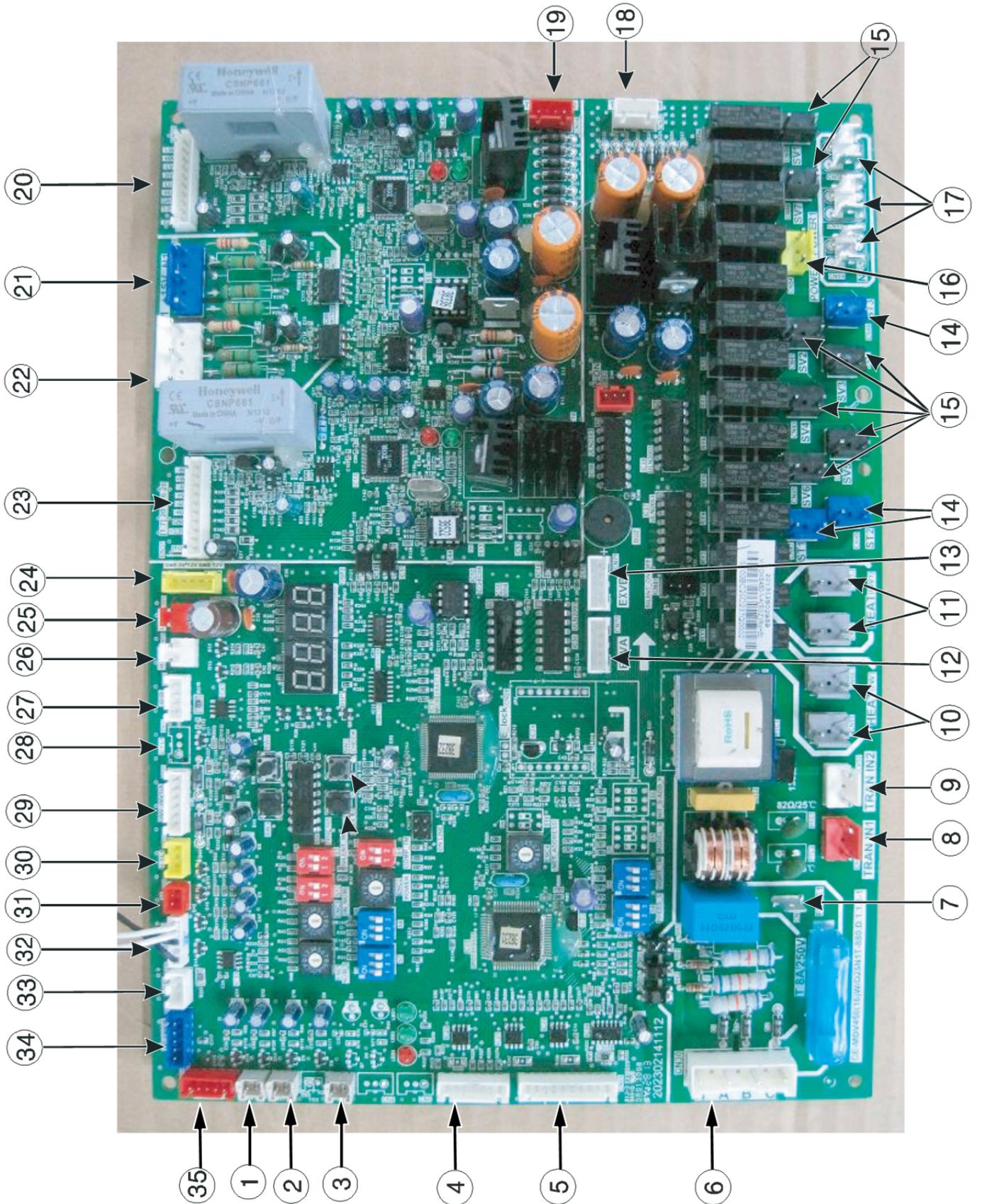
| No. | Content |
|-----|---------------------------------|
| 1 | Electric control box assembly |
| 2 | Three phase bridge |
| 3 | Inverter module |
| 4 | Outdoor current detection board |
| 5 | Outdoor power supply board |
| 6 | DC fan module |
| 7 | Intermediate adapter board |
| 8 | Temperature sensor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

14/16HP**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 |
| 4 | Temperature sensor |
| 5 | Outdoor power supply board |
| 6 | Outdoor current detection board |
| 7 | Outdoor power supply board |
| 8 | DC fan module |
| 9 | Intermediate adapter board |
| 10 | Inverter module |
| 11 | Filter board |
| 12 | Reactor |
| 13 | Terminal block, 4P |
| 14 | Main PCB |
| 15 | Power transformer |
| 16 | Power transformer |
| 17 | Contactor |

2. Outdoor main control board instructions

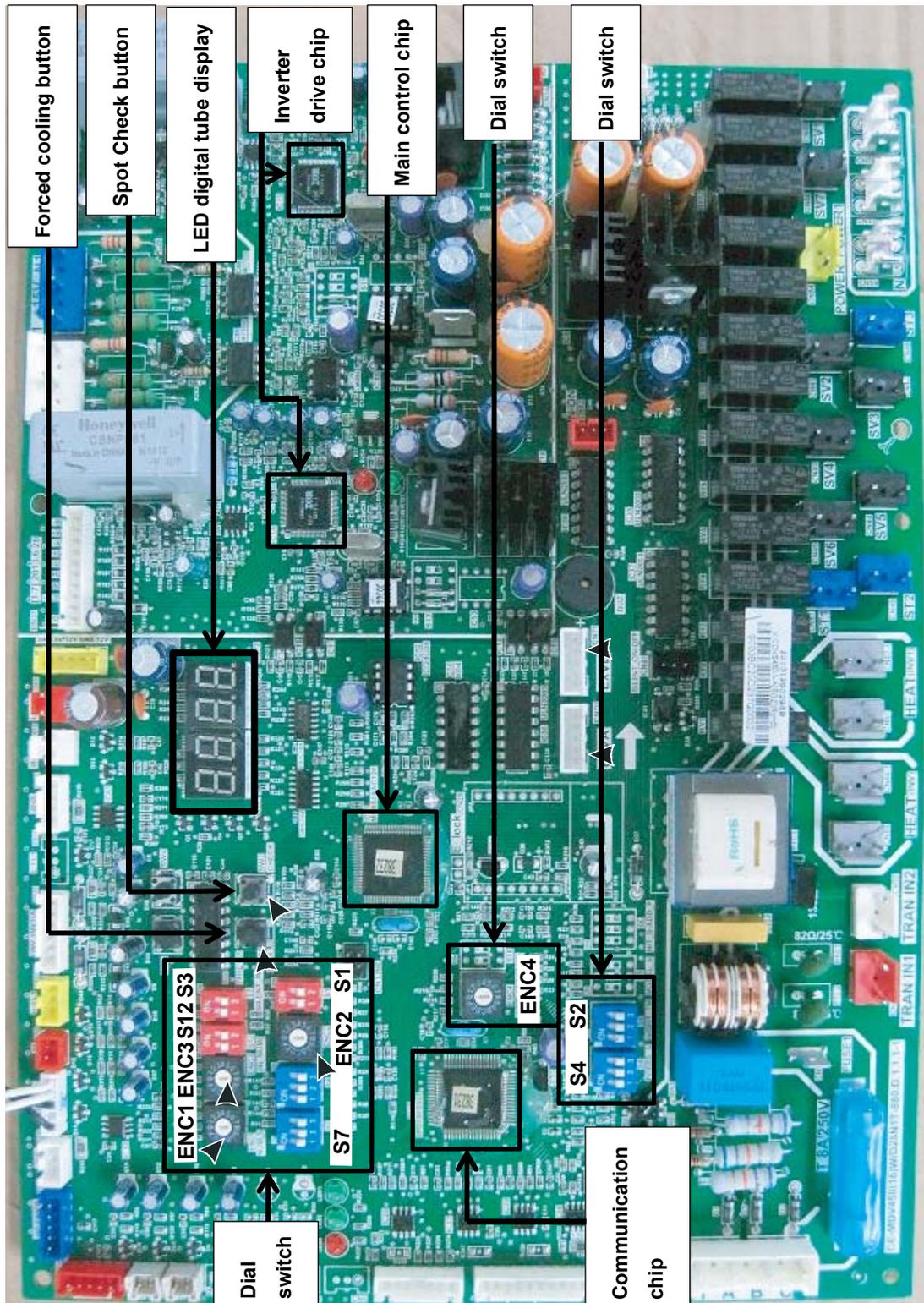
2.1 Main PCB ports instructions



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 B | DC 0~5V (in dynamic change) |
| 3 | CN4 | Inverter module temperature detection port | 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 | Driver port of EXV A | The first pin on left: DC 12V |
| 13 | CN71 | Driver 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 | Right condenser temperature detection port | DC 0~5V (in dynamic change) |
| 32 | CN1 | Outdoor ambient temperature and left 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 Spot check content instructions

| No. | Normal display | Content (present frequency) | Note |
|-----|----------------|--|---|
| 1 | 0 -- | Outdoor unit address | 0, 1, 2, 3 |
| 2 | 1 -- | Outdoor unit capacity setting | Refer to note 1 |
| 3 | 2 -- | Outdoor unit quantity | Available for main outdoor unit |
| 4 | 3 -- | Running mode | Refer to note 2 |
| 5 | 4 -- | Total capacity of outdoor units | Capacity requirement |
| 6 | 5 -- | Cooling capacity | Slave unit only display capacity of main mode |
| 7 | 6 -- | Heating capacity | Slave unit only display capacity of main mode |
| 8 | 7 -- | Ambient temperature revision of cooling capacity | Capacity requirements |
| 9 | 8 -- | Ambient temperature revision of heating capacity | Capacity requirements |
| 10 | 9 -- | Actual running capacity of this outdoor unit | Capacity requirement |
| 11 | 10 -- | Fan A speed | Refer to note 3 |
| 12 | 11 -- | Fan B speed | Refer to note 3 |
| 13 | 12 -- | T2 average temperature | Actual value=display value |
| 14 | 13 -- | T2B average temperature | Actual value=display value |
| 15 | 14 -- | T3 left pipe temperature | Actual value=display value |
| 16 | 15 -- | T5 right pipe temperature | Actual value=display value |
| 17 | 16 -- | T4 ambient temperature | Actual value=display value |
| 18 | 17 -- | Discharge temperature of inverter compressor A | Actual value=display value |
| 19 | 18 -- | Discharge temperature of inverter compressor B | Actual value=display value |
| 20 | 19 -- | Inverter module temperature | Actual value=display value |
| 21 | 20 -- | Discharge pressure corresponding to the saturation temperature | Actual value=display value-30 |
| 22 | 21 -- | The minimum overheating temperature of discharge | Actual value=display value |
| 23 | 22 -- | Current of inverter compressor A | Actual value=display value |
| 24 | 23 -- | Current of inverter compressor B | Actual value=display value |
| 25 | 24 -- | State of the outdoor heat exchanger | Refer to note 4 |
| 26 | 25 -- | EXVA opening degree | Pulsed value=display value×8 |
| 27 | 26 -- | EXVB opening degree | Pulsed value=display value×8 |
| 28 | 27 -- | Discharge pressure value | Actual value=display value×0.1MPa |
| 29 | 28 -- | Indoor units quantity | Actual value=display value |
| 30 | 29 -- | Cooling indoor units quantity | Cooling indoor units quantity |
| 31 | 30 -- | Heating indoor units quantity | Cooling indoor units quantity |
| 32 | 31 -- | Reserved | / |
| 33 | 32 -- | Silent mode | Refer to note 5 |
| 34 | 33 -- | Static pressure mode | Refer to note 6 |
| 35 | 34 -- | DC voltage A | Actual value=display value×10 |
| 36 | 35 -- | DC voltage B | Actual value=display value×10 |
| 37 | 36 -- | Reserved | / |
| 38 | 37 -- | Reserved | / |
| 39 | 38 -- | The last error or protection code | Display 000 if it has no error or protection |
| 40 | 39 -- | -- | Over |

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
2. Running mode: 0—closed; 2—cooling mode; 3—heating mode; 4—forced cooling mode.
3. Fan speed: 0—closed; 1~15—fan speed increase in sequence.
4. State of the outdoor heat exchanger: 0-close/condenser; 1-All evaporator; 2-Left evaporator/right condenser; 3-Left evaporator/close.
5. Silent mode: 0—nighttime silent mode; 1—silent mode; 2—super silent mode; 3—no silent mode.
6. Static pressure mode: 0—no static pressure; 1—low static pressure; 2—medium static pressure; 3—high static pressure.

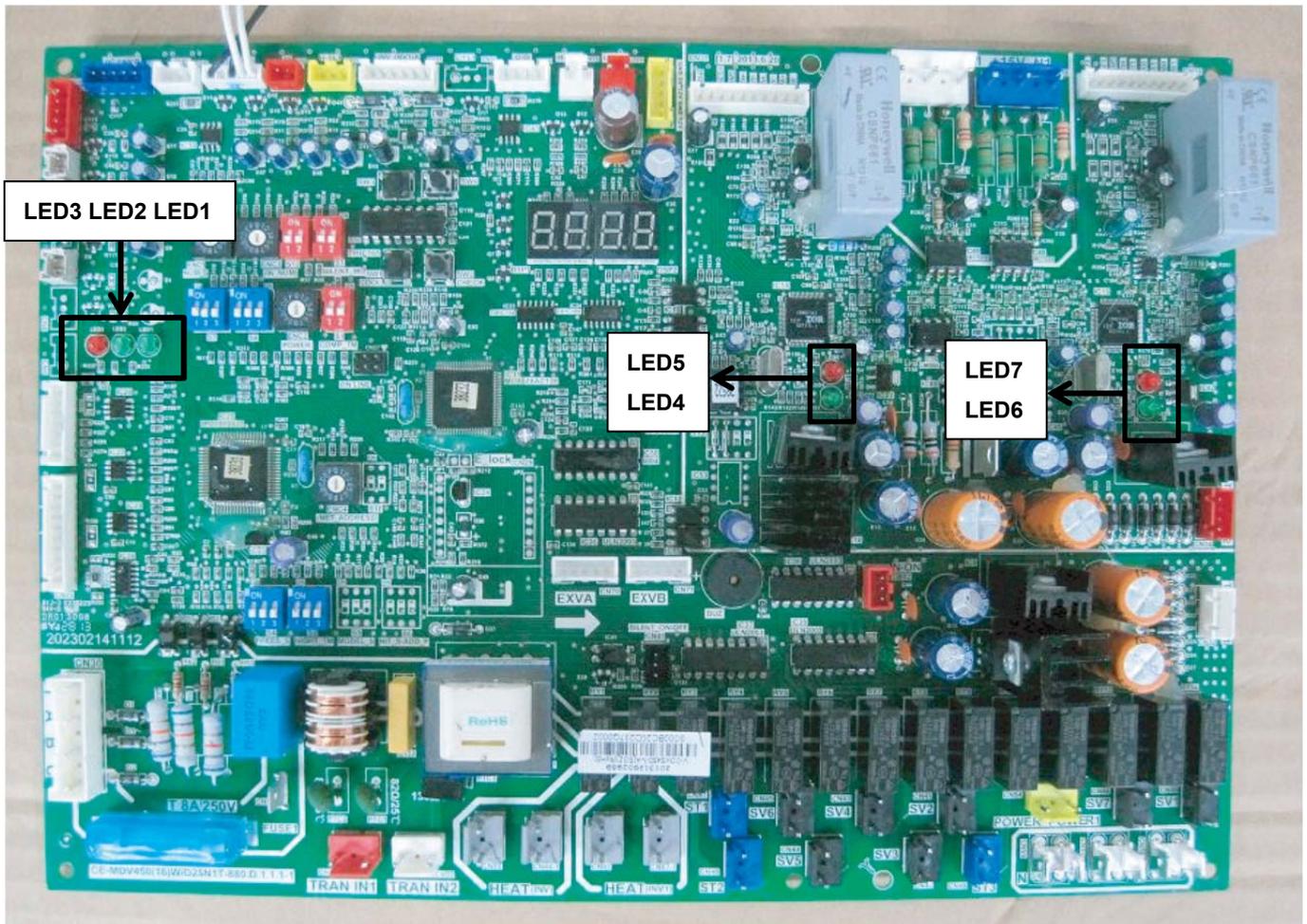
2.2.2 Dial switch setting

| 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) |

Dial switch setting

| ENC3+S12: Indoor unit quantity setting | | |
|---|---|---|
|  |  | The quantity of indoor unit is 0-15 |
|  |  | The quantity of indoor unit is 16-31 |
|  |  | The quantity of indoor unit is 32-47 |
|  |  | The quantity of indoor unit is 48-63 |
| ENC1: Outdoor unit address setting | | |
|  | | Only 0, 1, 2, 3 are available. 0 is for main unit; 1, 2, 3 are for slave units |
| ENC2: Outdoor unit capacity setting | | |
|  | | Only 0, 1, 2, 3, 4 are available. 0: 8HP; 1: 10HP; 2: 12HP; 3: 14HP; 4: 16HP |
| 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 in three-phase phase sequence protection.

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

LED5: Malfunction indicator lamp of inverter module. The lamp will flash if the inverter module is faulty and the error code will display on digital tube.

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

LED7: Malfunction indicator lamp of inverter module. The lamp will flash if the inverter module is faulty and the error code will display on digital tube.

3. Error code table

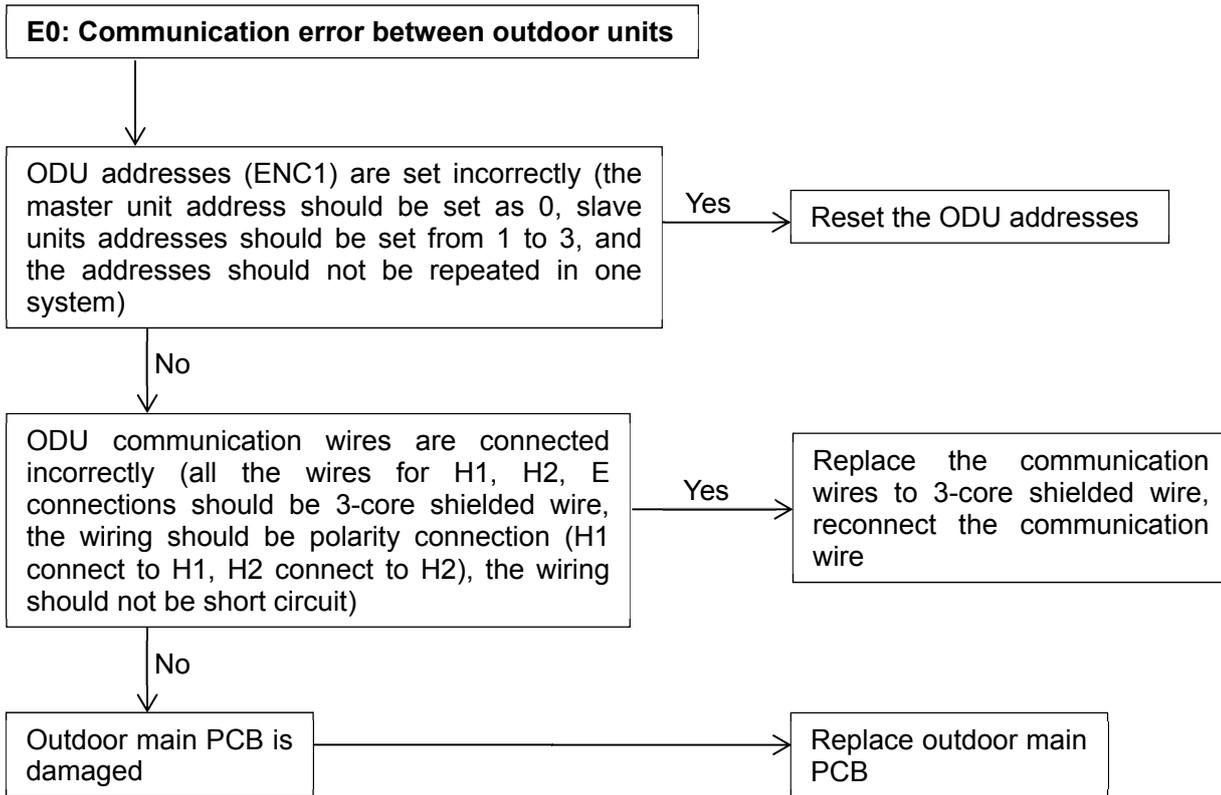
| Error code | Content | Note |
|------------|---|---|
| E0 | Communication error between outdoor units | Only display on the faulty slave unit, all the ODUs are in standby. |
| E1 | Phase sequence error | Display on the faulty unit, all the ODUs are in standby. |
| E2 | Communication error between indoors and the master unit. | Only display on the master unit, all the ODUs are in standby. |
| E4 | Outdoor ambient temperature sensor (T4) and condenser pipe temperature sensor (T3/T5) 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. |
| E7 | Discharge temp sensor error | Display on the faulty unit, all the ODUs are in standby. |
| E8 | Outdoor unit address is wrong | Only display on the faulty slave unit, all the ODUs are in standby. |
| XE9 | Driver model is mismatching | When X is 1, it means A system; 2 means B system |
| H0 | Communication error between main control chip and inverter driver chip | Display on the faulty unit, all the ODUs are in standby. |
| H1 | Communication error between main control chip and communication chip | Display on the faulty unit, all the ODUs are in standby. |
| H2 | Quantity of outdoor unit decreased | Only display on the master unit, all the ODUs are in standby. |
| H3 | Quantity of outdoor unit increased | Only display on the master unit, all the ODUs are in standby. |
| H4 | 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 | Only display on the master unit, all the ODUs are in standby. |
| H8 | High pressure sensor error | The discharge pressure $P_c \leq 0.3\text{MPa}$ |
| H9 | P9 protection appears three times in 60 minutes | Display on the faulty unit, all the ODUs are in standby. Cannot be recovered until being power on again. |
| xHd | Slave units malfunction | X stands for corresponding slave unit |
| 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. |
| 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 inverter compressor | Display on the faulty unit, all the ODUs are in standby. |
| P4 | Compressor discharge temp 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 main inverter module | |
| L0 | Inverter module error | Display after P6 displaying for one minute |

| | | |
|----|---|--|
| L1 | DC generatrix low voltage error | Display after P6 displaying for one minute |
| L2 | DC generatrix high voltage error | Display after P6 displaying for one minute |
| L3 | Reserved | - |
| L4 | MCE error/ synchronization/ closed loop | Display after P6 displaying for one minute |
| L5 | Zero speed protection | Display after P6 displaying for one minute |
| L6 | Reserved | - |
| L7 | Phase sequence error | Display after P6 displaying for one minute |
| L8 | Frequency difference in one second more than 15Hz protection | Display after P6 displaying for one minute |
| L9 | 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

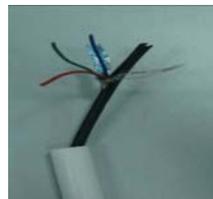
The error only display on faulty slave unit, all the ODU will be standby.



2-core shielded wire (×)

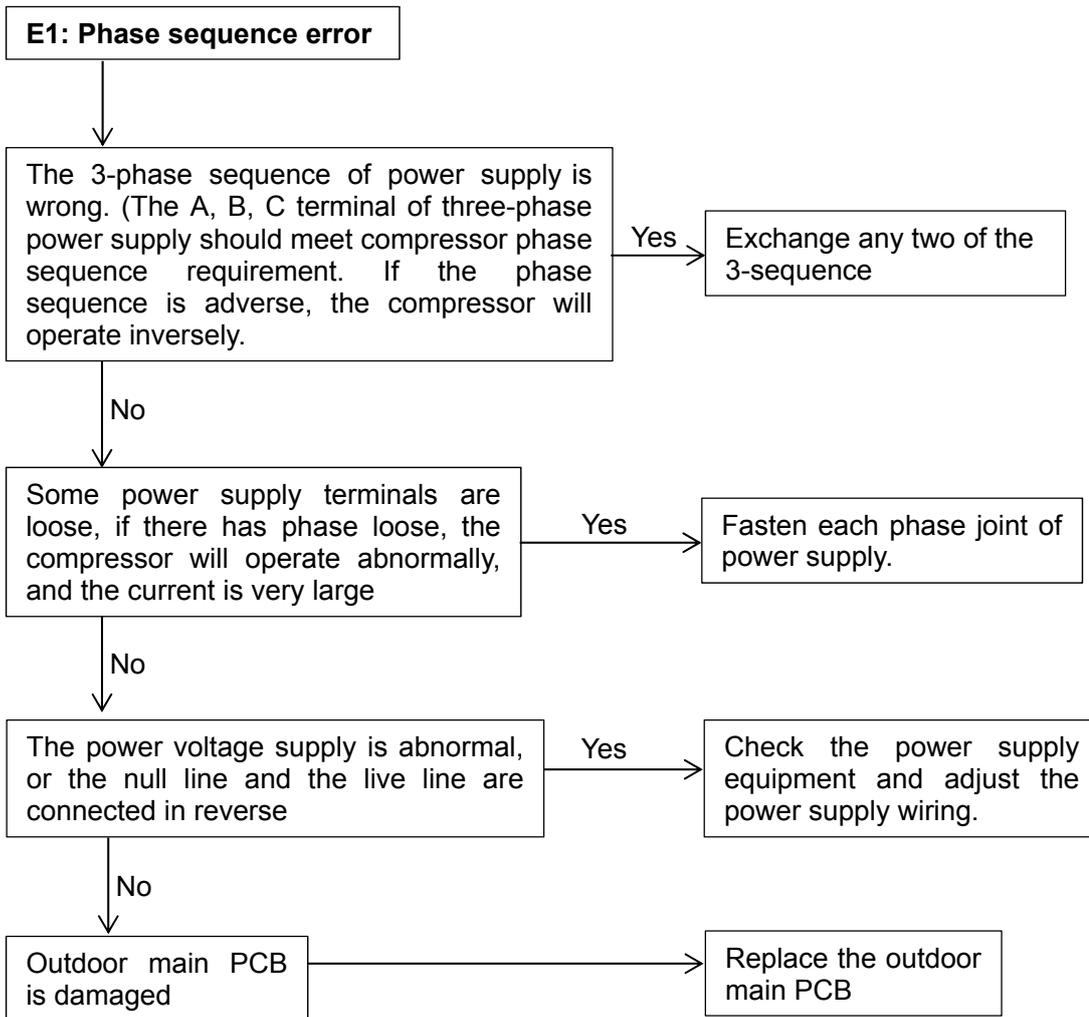


3-core shielded wire (✓)



4.2 E1: Phase sequence error

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

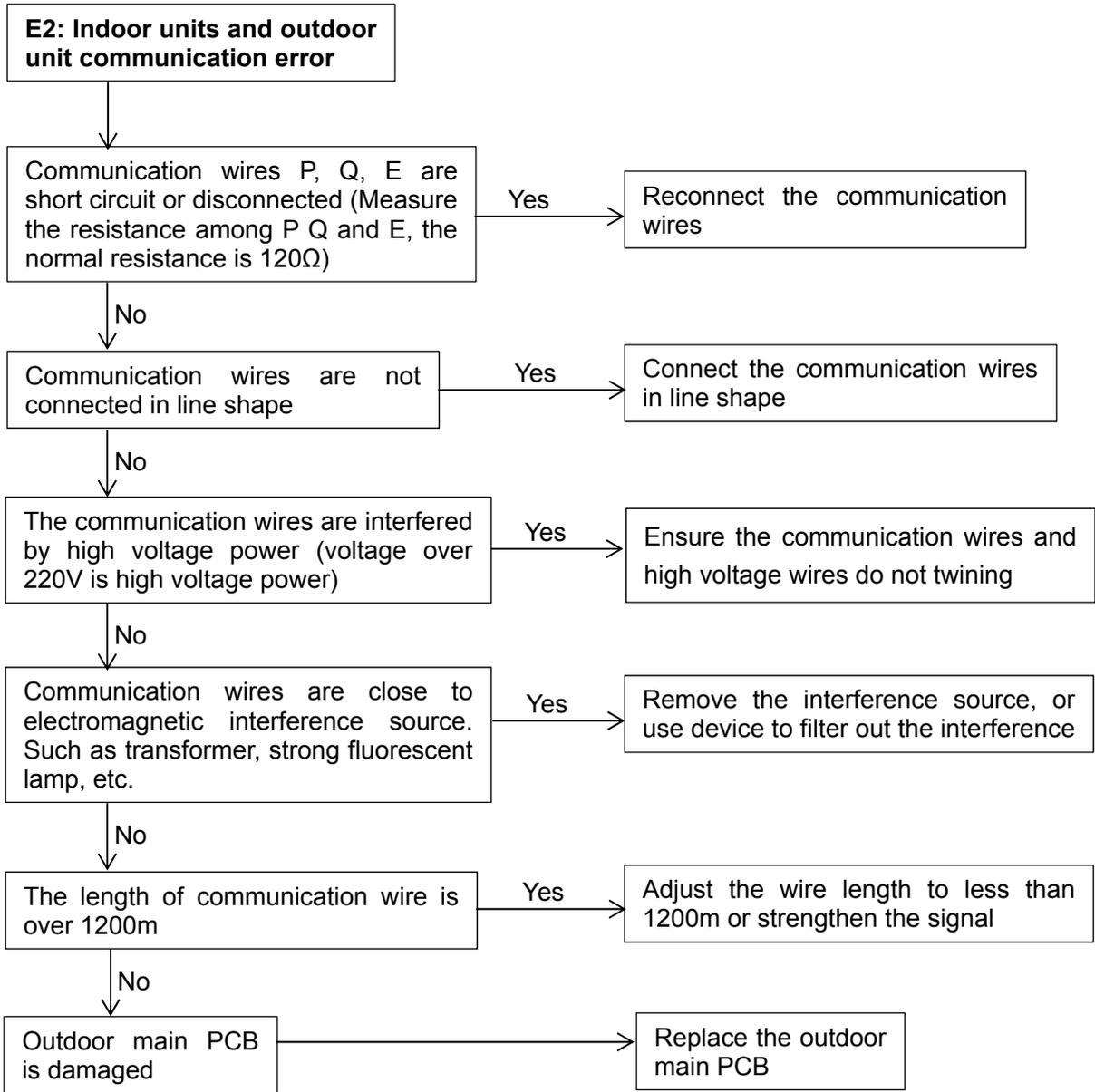


Note:

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 indoors 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 | Running | 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

Pressing continued the manual button for 10 seconds:

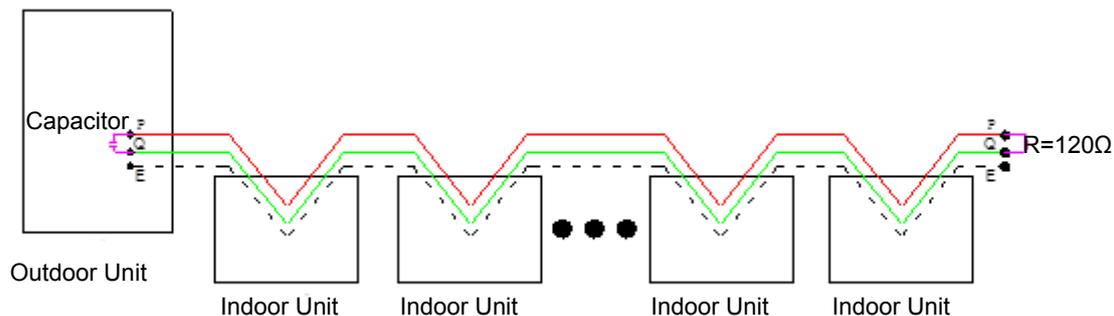
- If all the LED lights turn off, that means the capacity code is 0 and the capacity of indoor units is $22 \times 100\text{W}$ (7510Btu/h);
- If the “Timer” and “Alarm” lights are normally on, that means the capacity code is $5=(4+1)$ and the capacity of indoor unit is $71 \times 100\text{W}$ (24230Btu/h);
- 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 $140 \times 100\text{W}$ (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 $160 \times 100\text{W}$ (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 $112 \times 100\text{W}$ (38210Btu/h), then add the value of two PCB, so the capacity of indoor unit is $200 \times 100\text{W}$ (68240Btu/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 $140 \times 100\text{W}$ (47770Btu/h), then add the value of two PCB, so the capacity of indoor unit is $280 \times 100\text{W}$ (95540Btu/h);
- The “Operation” light is normally on, that means the capacity code is 8 and the achievable capacity of single PCB is $112 \times 100\text{W}$ (38210Btu/h), then add the value of four PCB, so the capacity of indoor unit is $450 \times 100\text{W}$ (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 $140 \times 100\text{W}$ (47770Btu/h), then add the value of four PCB, so the capacity of indoor unit is $560 \times 100\text{W}$ (191070Btu/h).

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



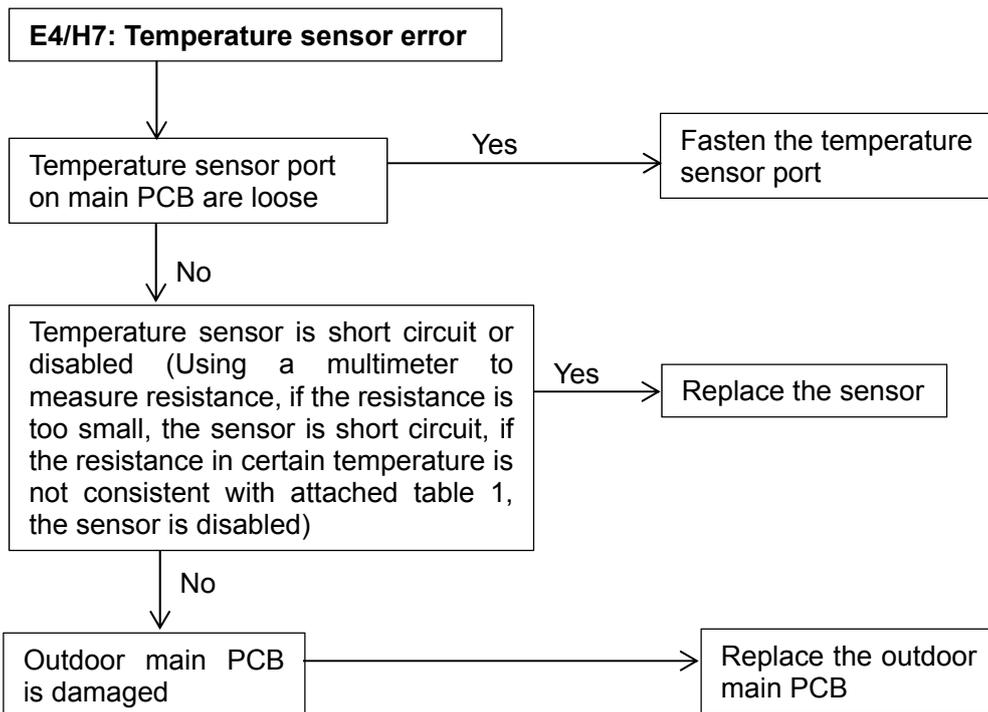
Note:

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

4.4 E4: Temperature sensor (ambient temperature sensor T4, pipe temperature sensor T3/T5)

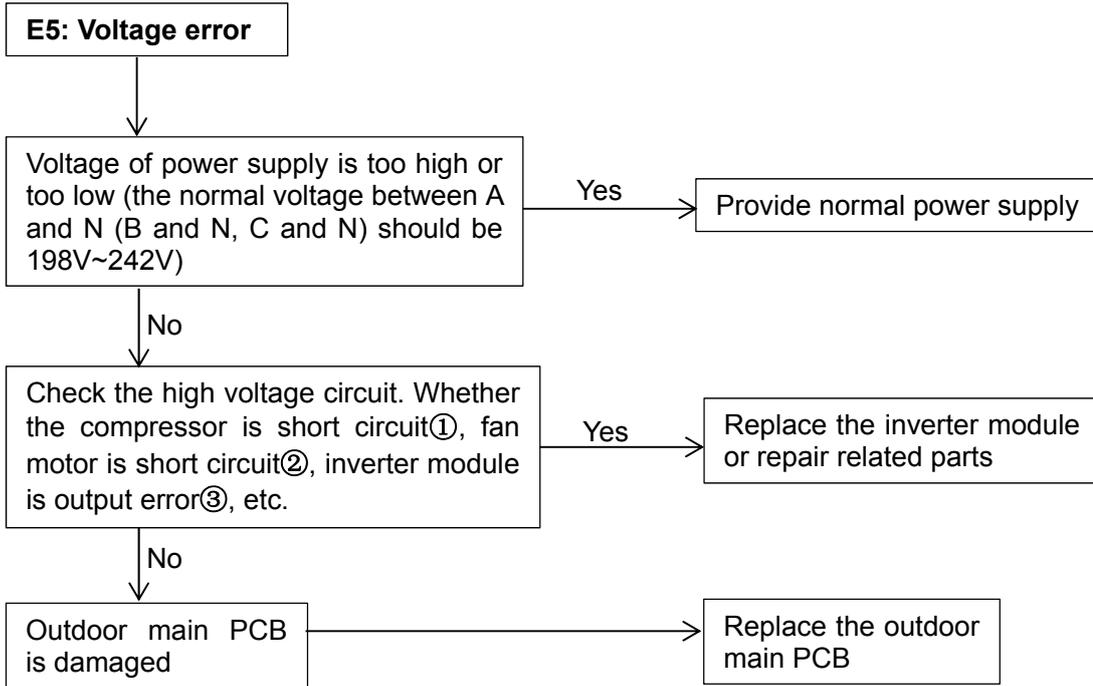
E7: Discharge temperature sensor error

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



4.5 E5: 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:

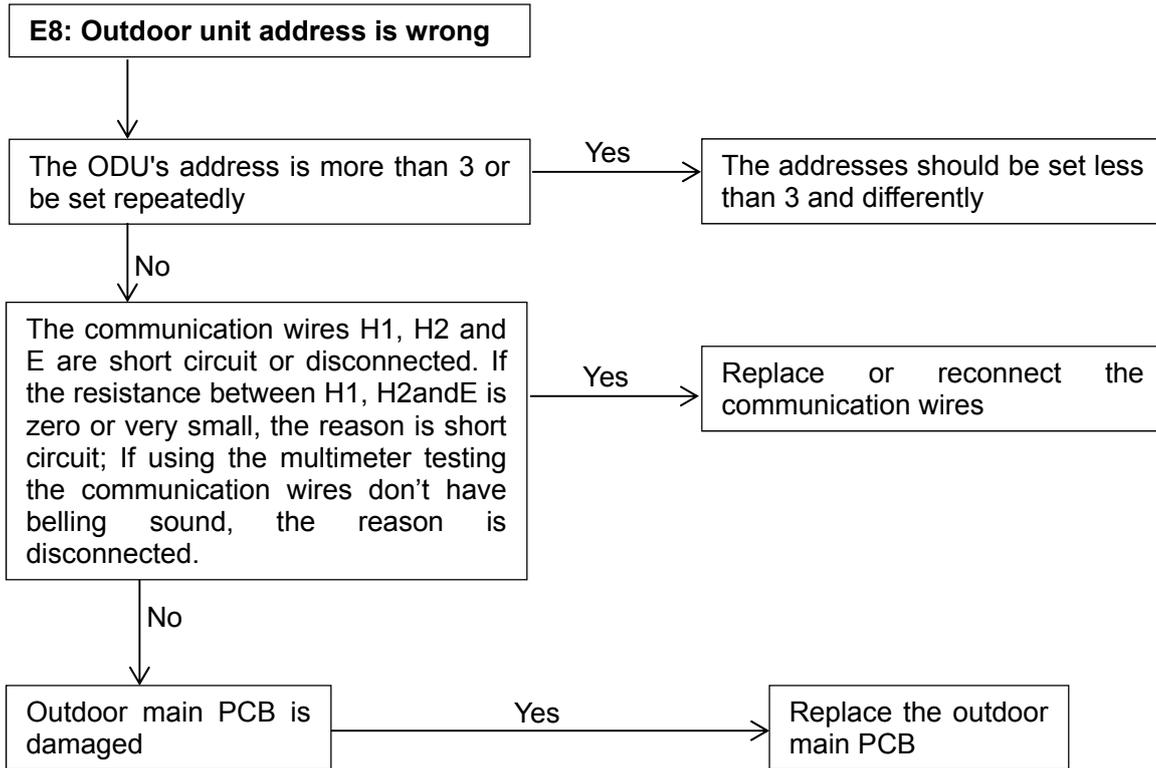
The normal value of DC fan motor coil among U V W is less than 10Ω, and the value of AC fan motor coil is from a few ohm to hundreds of ohm for different fan motor model. If the measured value is 0Ω, the fan motor is short circuit.

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

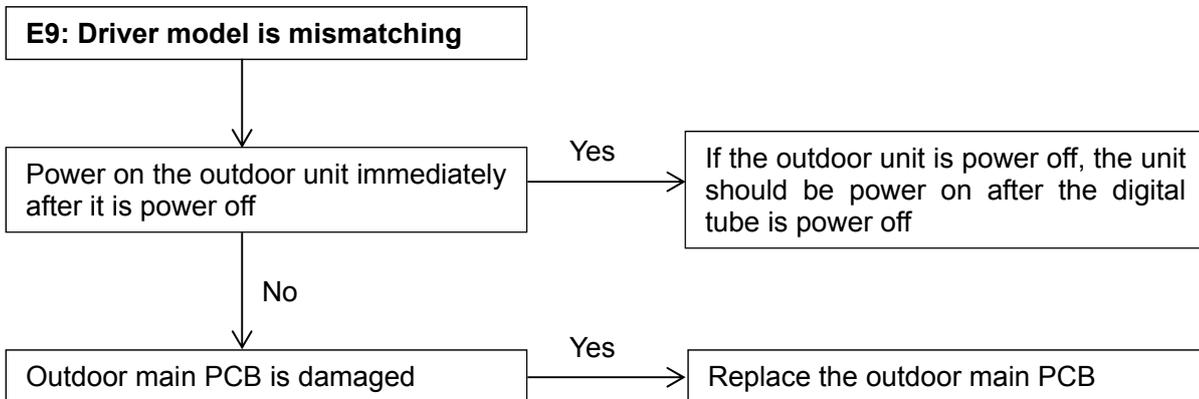
Let PN and U V W of inverter module short circuit, then dial multimeter to buzzer file, if the multimeter is ring, the inverter module is output error.

4.6 E8: Outdoor unit address is wrong

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



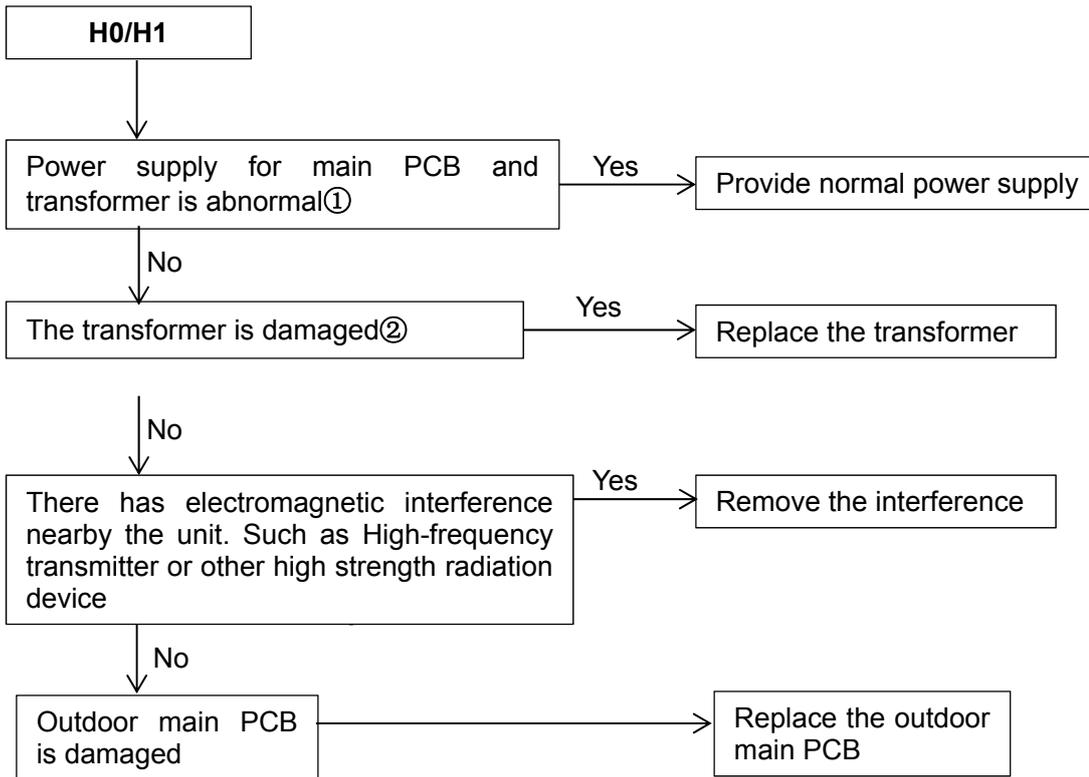
4.7 XE9: Driver model is mismatching (When X is 1, it means A system; 2 means B system)



4.8 H0: Communication error between main control chip and inverter driver chip

H1: Communication error between main control chip and communication chip

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



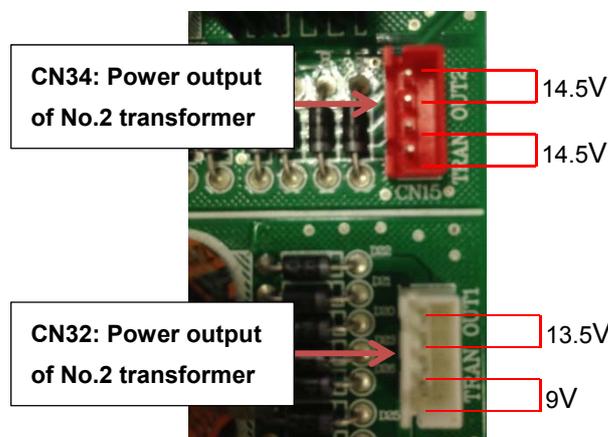
Note:

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 “12” of 24(CN35) terminal should be 12. If the voltage is out of the range, the power supply for main PCB and transformer is abnormal.

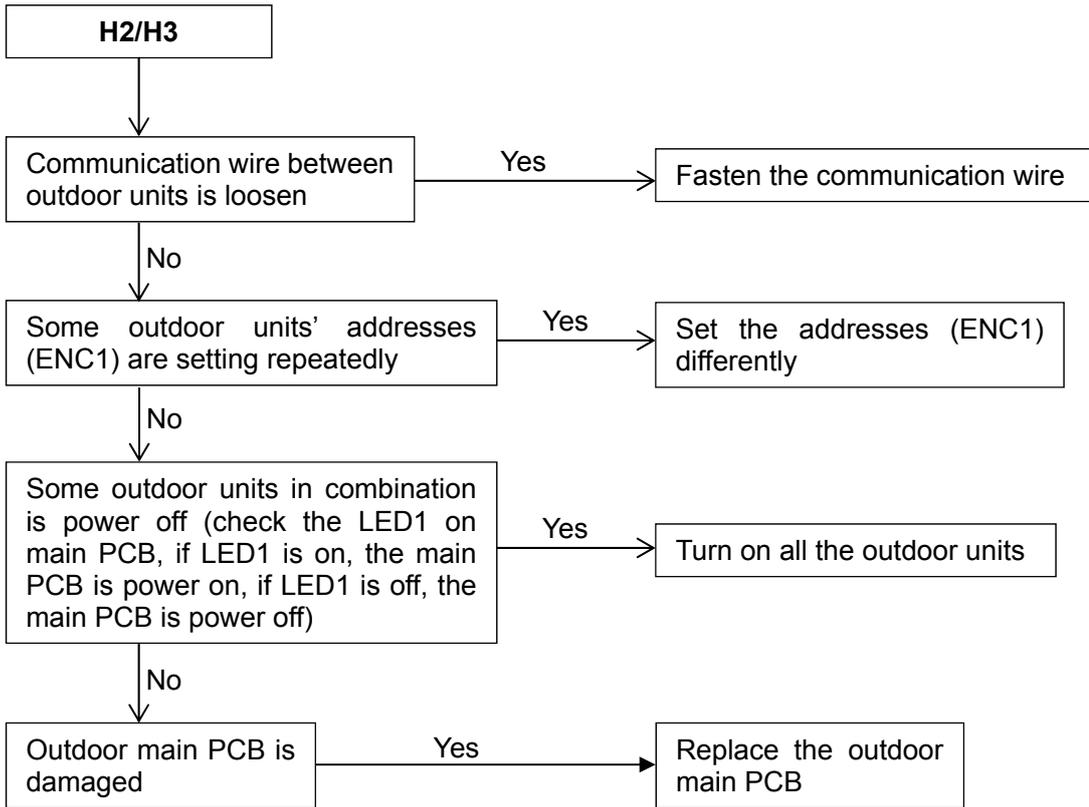
2. How to check whether the transformer is disabled②

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

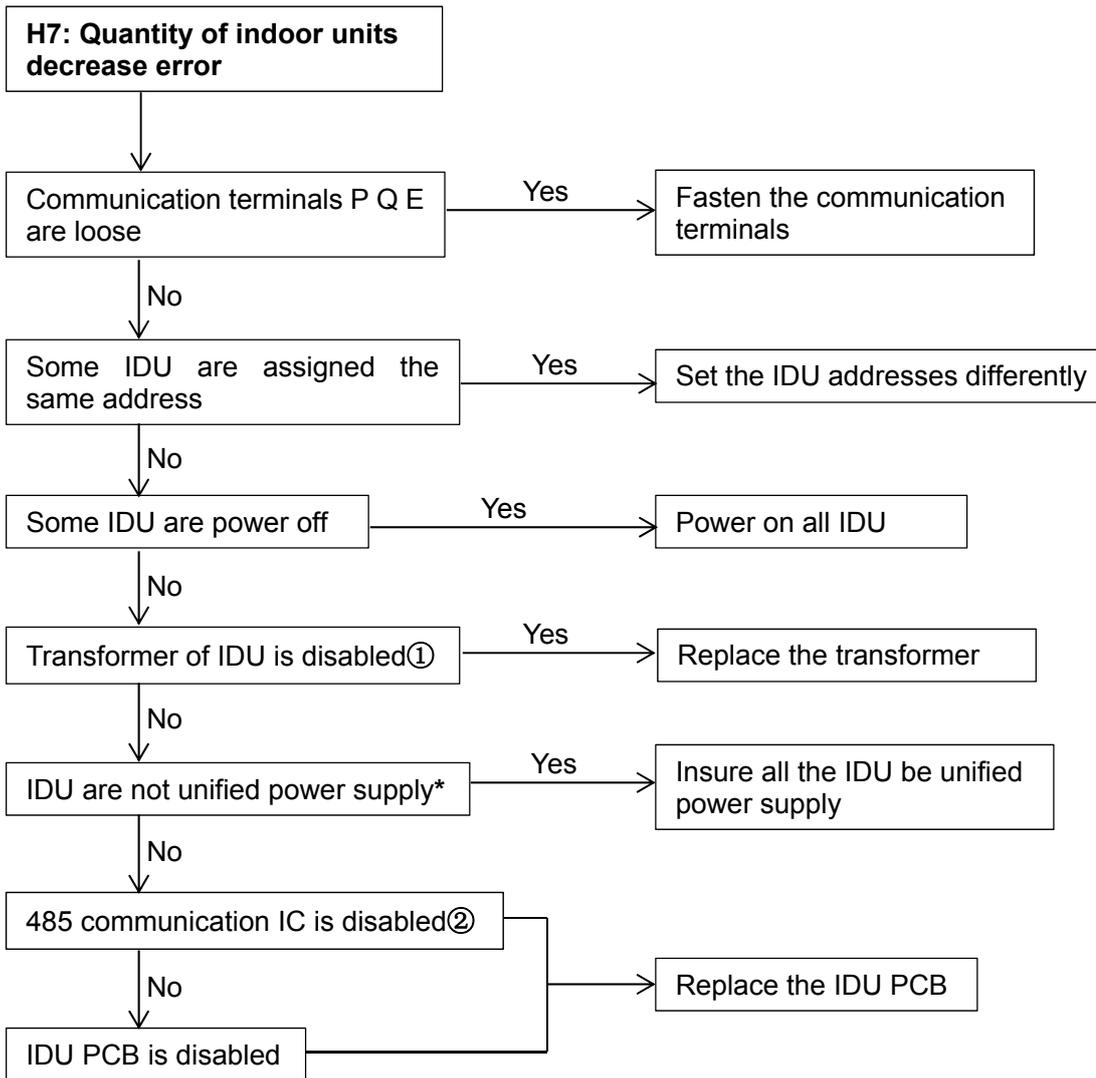
The error only display on master unit, all the ODU will be standby.



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.



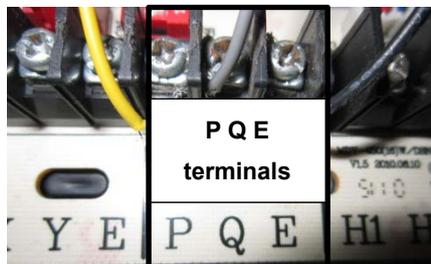
Note:

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

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

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

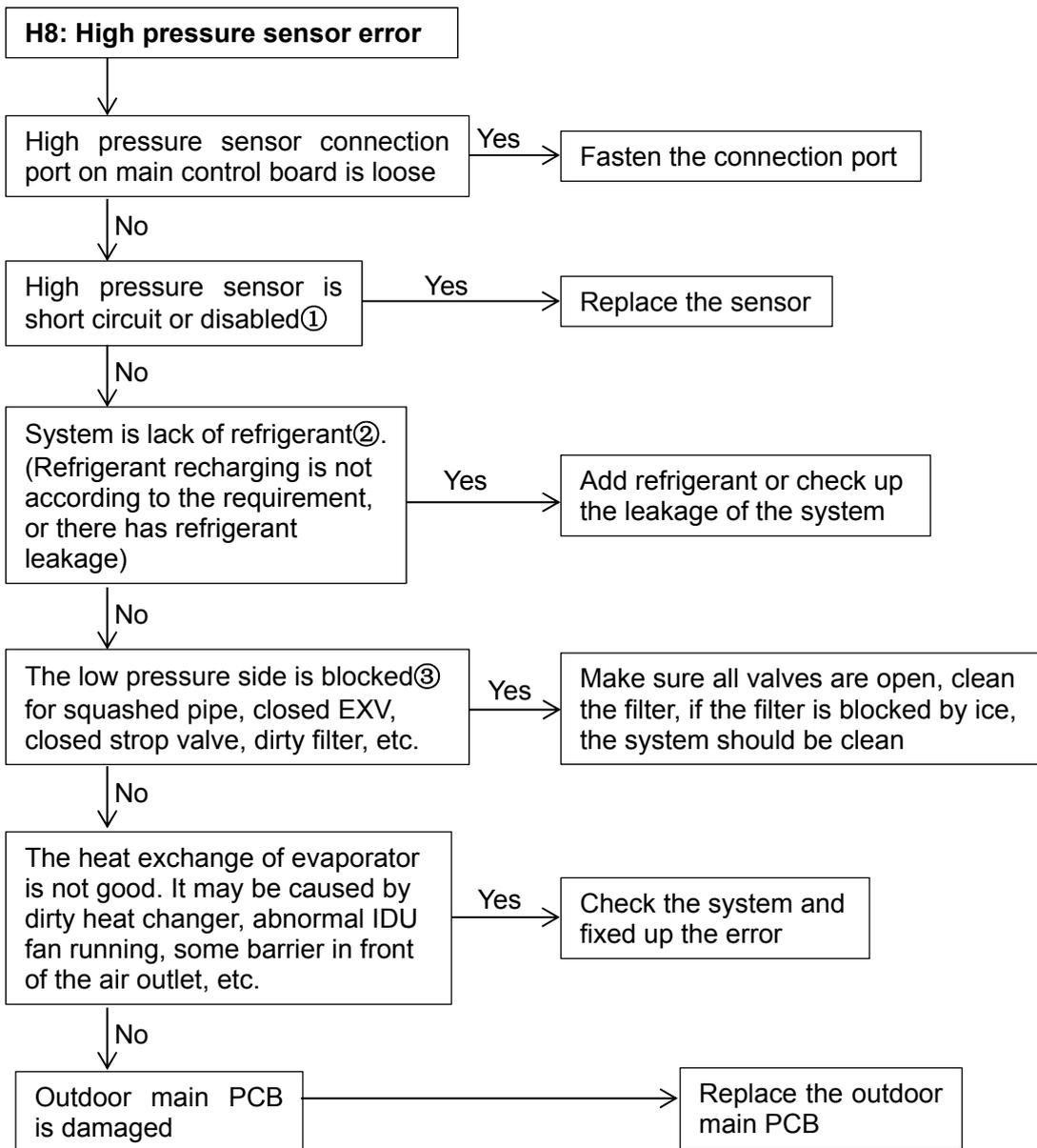
The normal voltage between “P” and “GND” is DC2.5~2.7V, between “Q” and “GND” is DC2.5~2.7V. If the voltage is out of the normal range, the 485 communication IC is disabled.



* 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, 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.

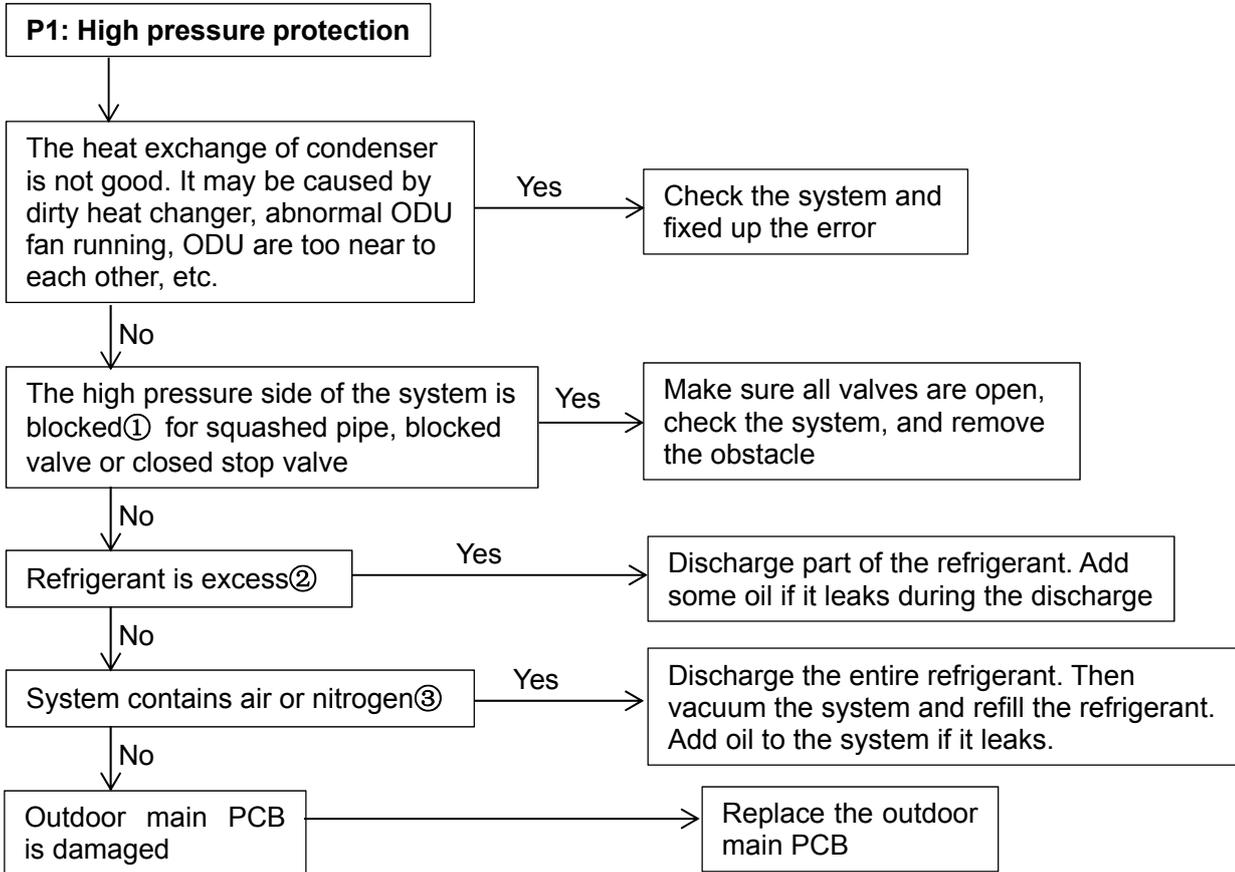
*The normal system running parameters please refer to attached table 3.

4.12 XHd: Slave units malfunction (X stands for corresponding slave unit)

XHd is only displayed on master unit. X stands for corresponding slave unit. If X is 1, it means no.1 slave unit has problem, then you should check no.1 slave unit.

4.13 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.

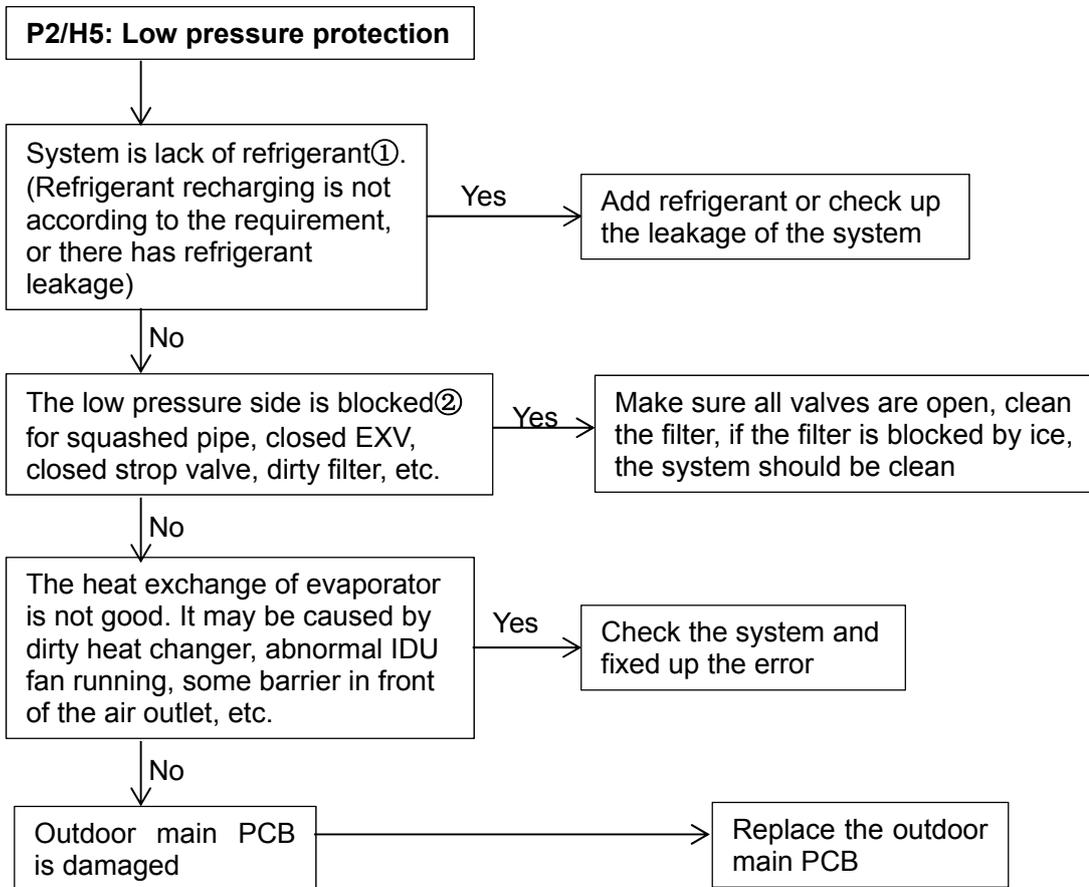
*If the system install three-phase protector, and the three-phase protector connect with high pressure switch in series connection, the system will display P1 protection when fist power on, and P1 protection will disappear after system is steady.

*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.

4.14 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.

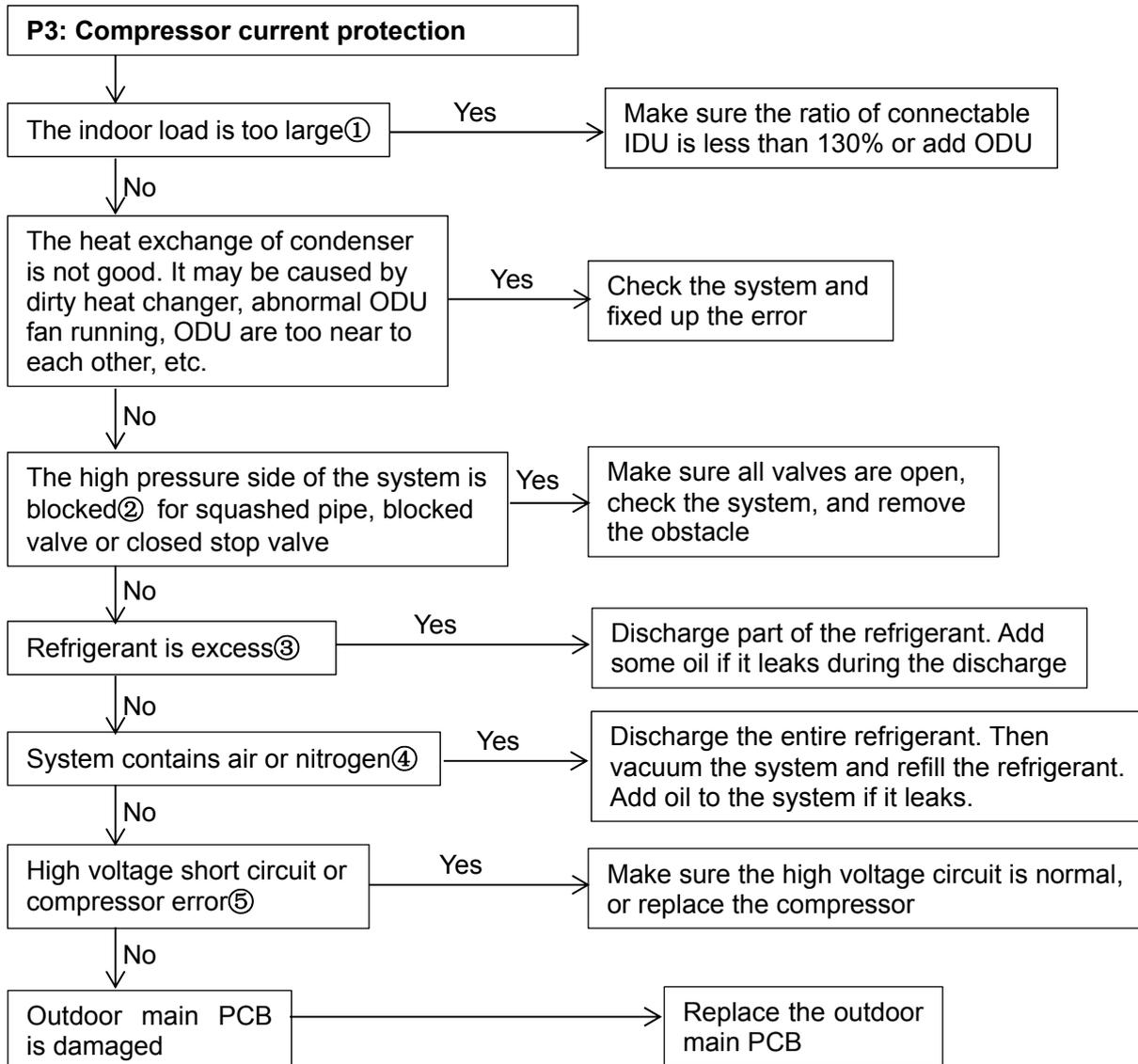
*The normal system running parameters please refer to attached table 3.

*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.

4.15 XP3: Current protection of inverter compressor (When X is 1, it means A compressor; 2 means B compressor)

P3: 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 large ①:

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

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

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 excess ③:

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 nitrogen ④:

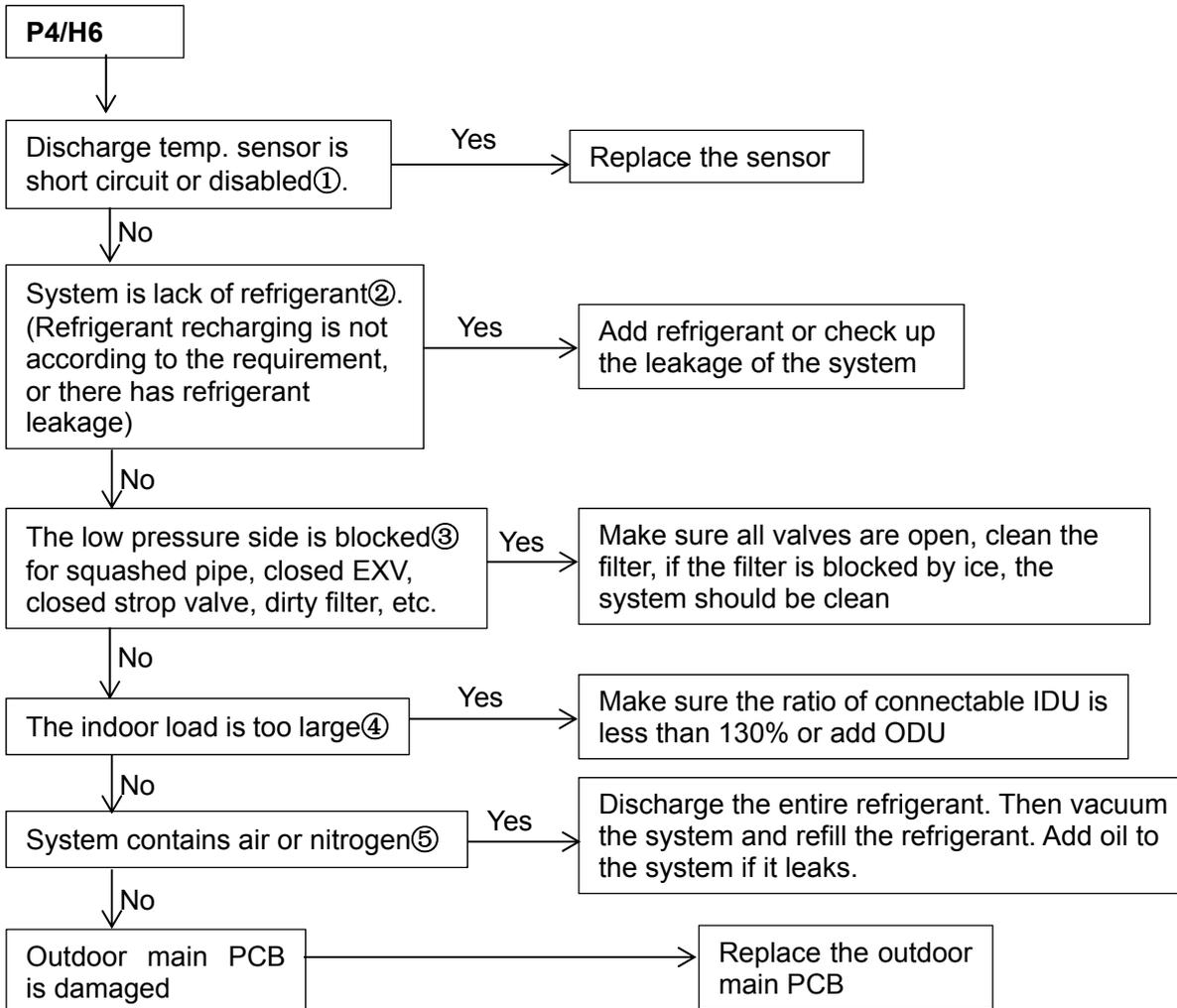
The high pressure is higher than normal value, current is larger than normal value, discharge temperature is higher than normal value, compressor makes noise, pressure meter do not display steady.

5. How to check whether compressor is error ⑤:

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.

4.16 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 multimeter 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.

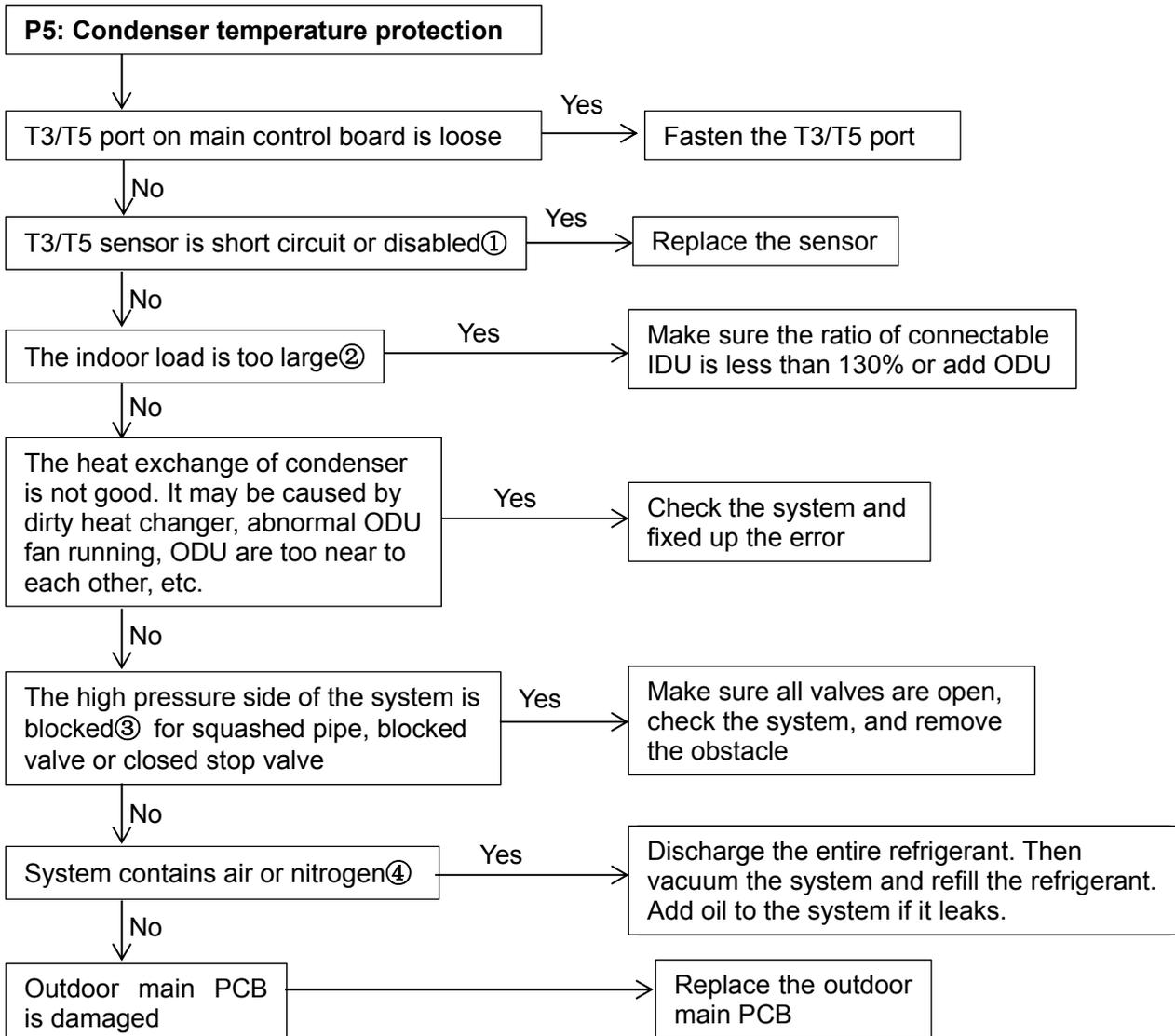
5. The phenomenon of the system contains air or nitrogen⑤:

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.

4.17 P5: Condenser temperature protection

When condenser temperature is over 65°C, 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 multimeter 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.

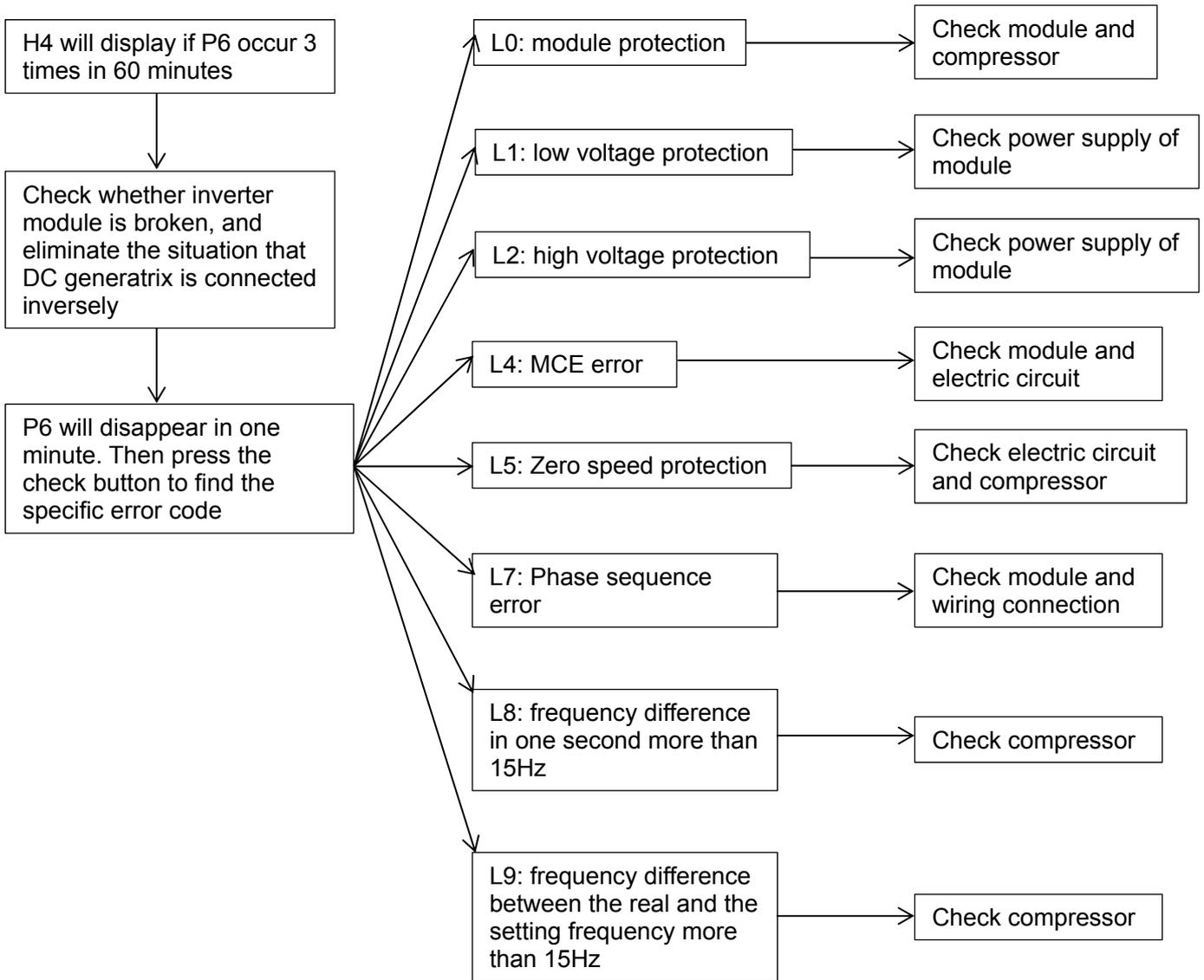
4. The phenomenon of the system contains air or nitrogen④:

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)

H4: 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

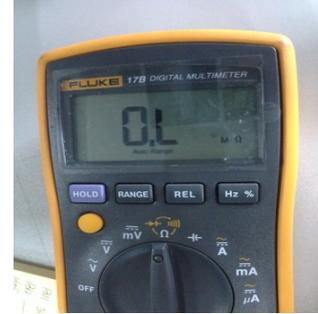
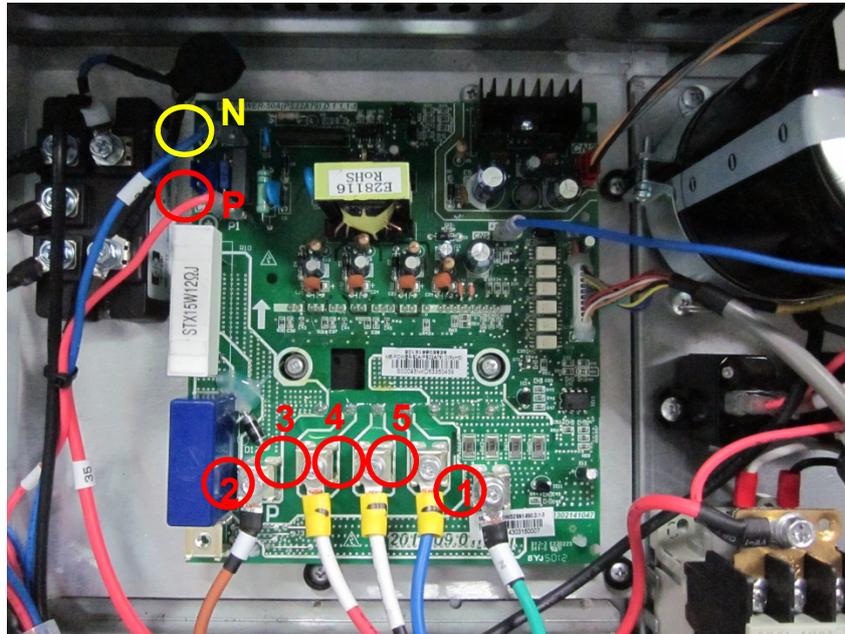


Fig.D

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

Step 2: Module check

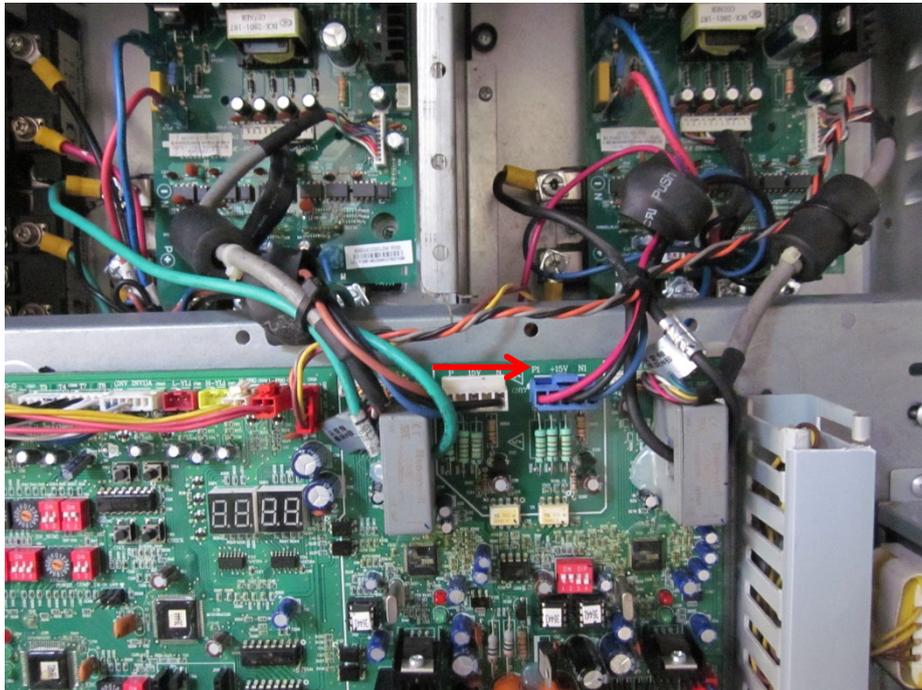


- 1) DC voltage between terminal P and terminal N should be 1.41 times of the local power supply voltage.
- 2) DC voltage between terminal 1 and 2 should be 510V~580V.
- 3) Disconnect the terminal 3, 4, and 5 from inverter compressor. Measure the resistance between any two terminals among terminal 1, 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 step3.

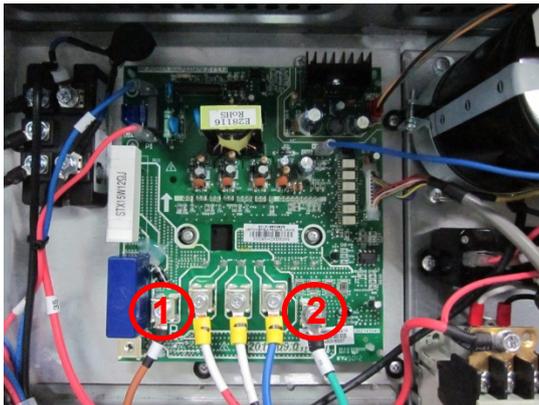
Step 3: DC generatrix check

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

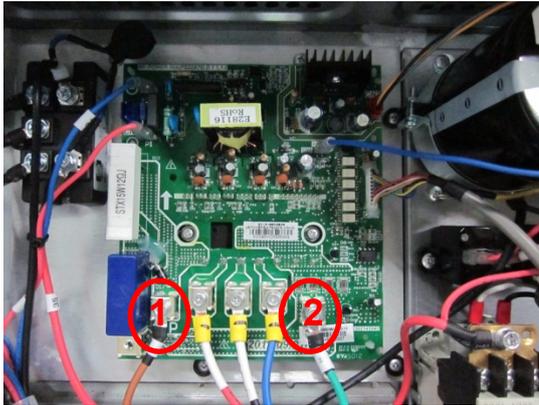
Step 1: Check the DC voltage between 1 and 2 terminal, the normal value should be 510V~580V, if the voltage is lower than 510V, go to step 2.



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

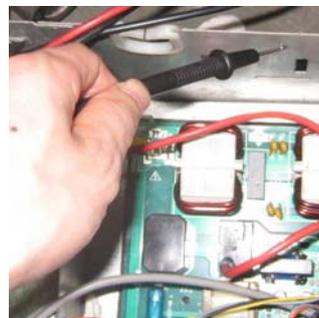


Fig. C

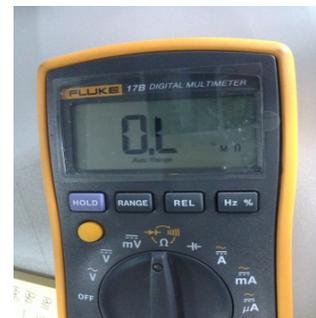


Fig. D

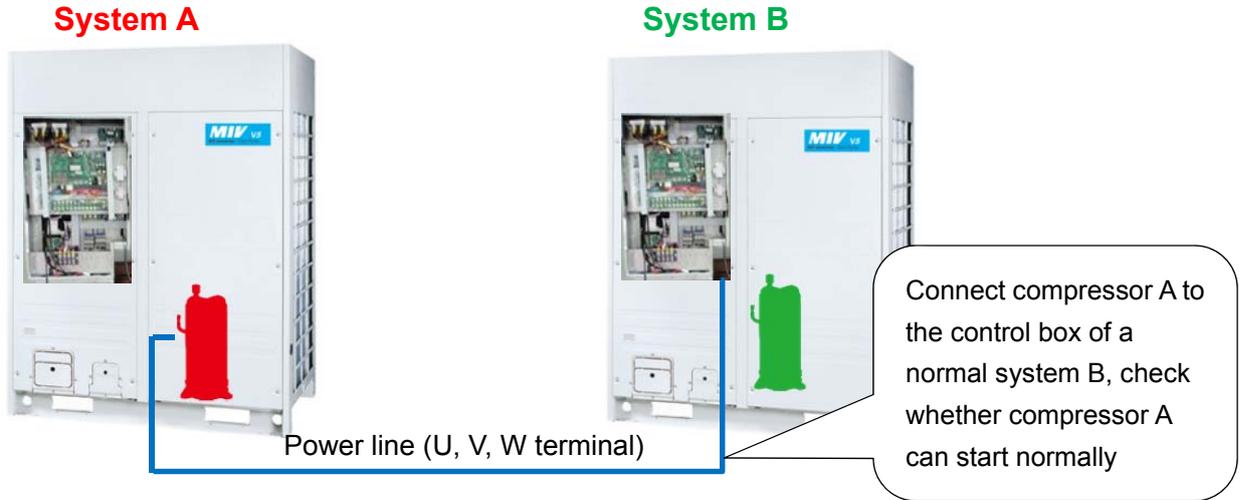
If the resistance value are normal, then go to step 2.

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 not a 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 faulted 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

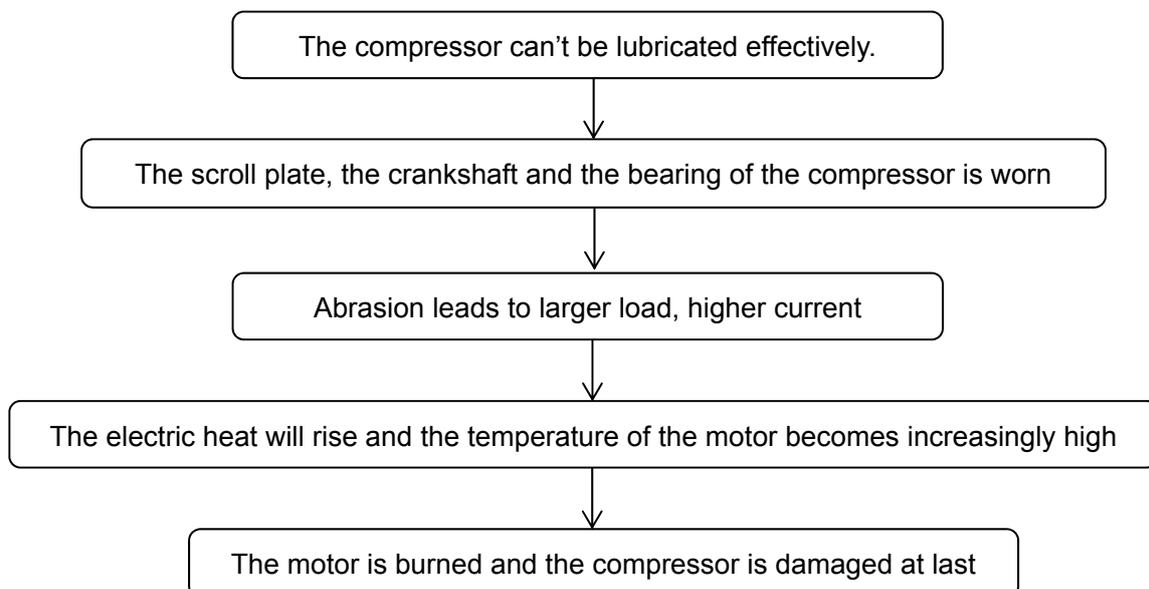


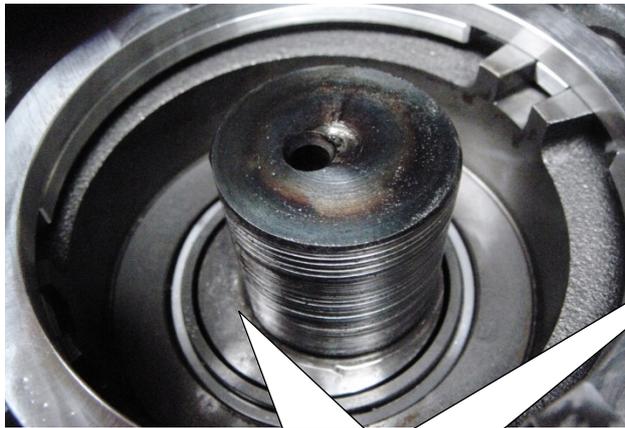
The oil becomes cloudy and gray

The oil contains a lot of copper scrap



If the oil has gone bad:





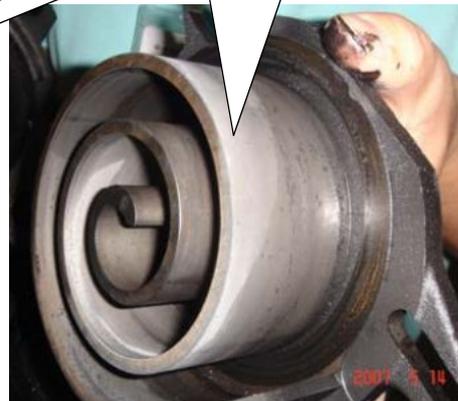
The crankshaft is worn.



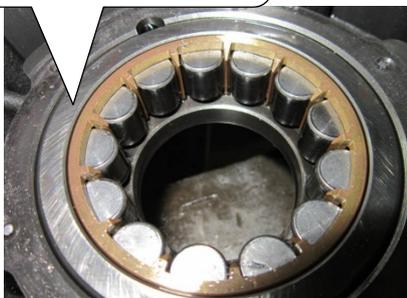
The scroll plate is worn.



A normal bearing of the compressor



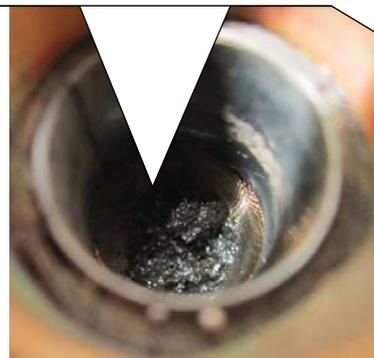
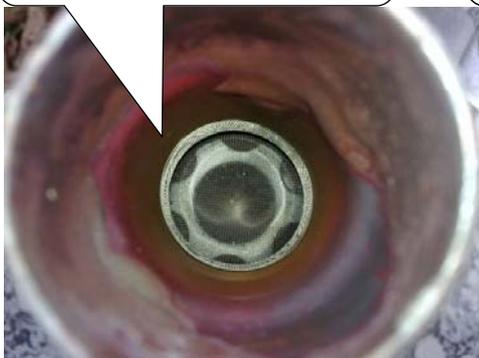
The bearing is worn seriously, it is damaged completely

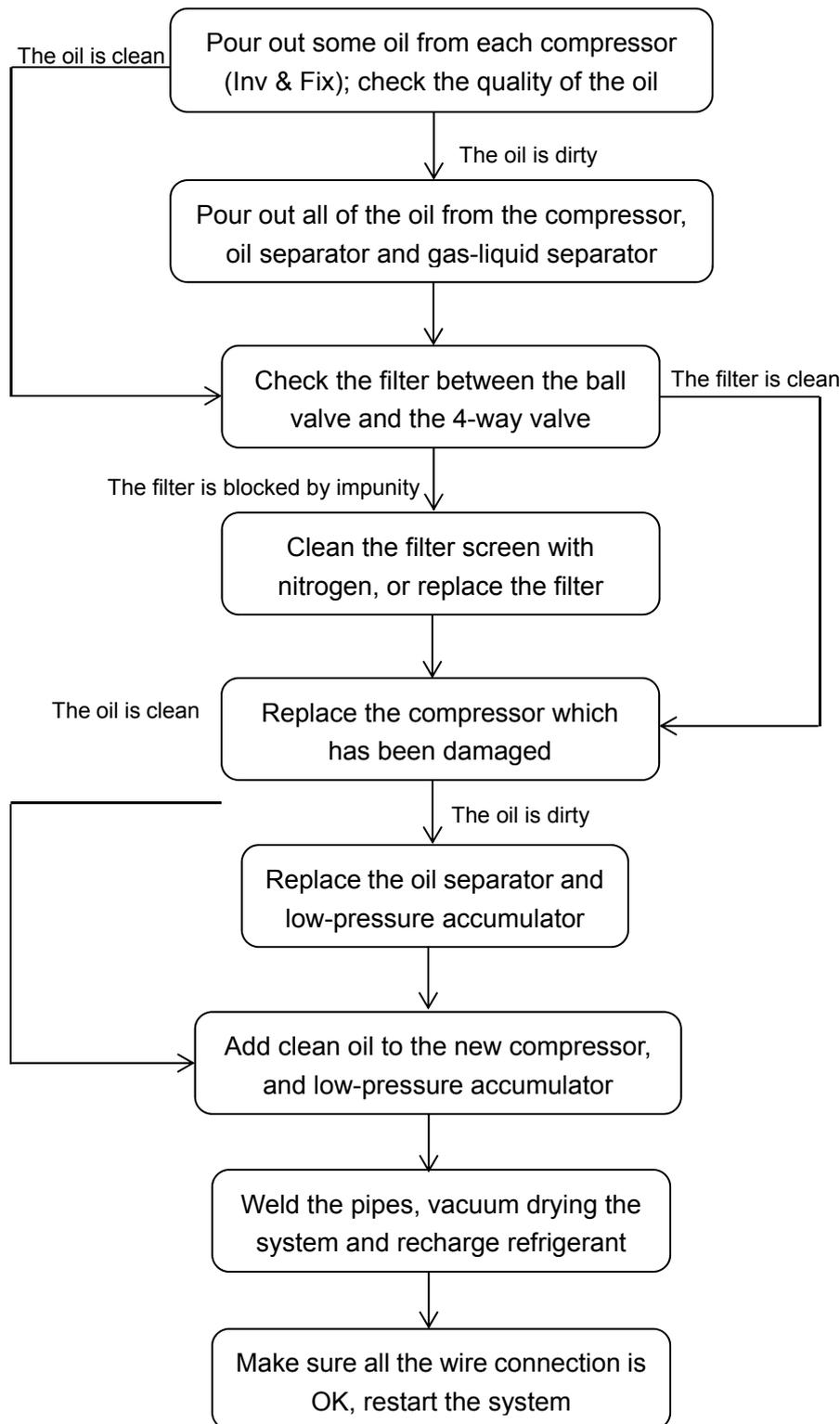


A clean filter (on the suction pipe of the system)



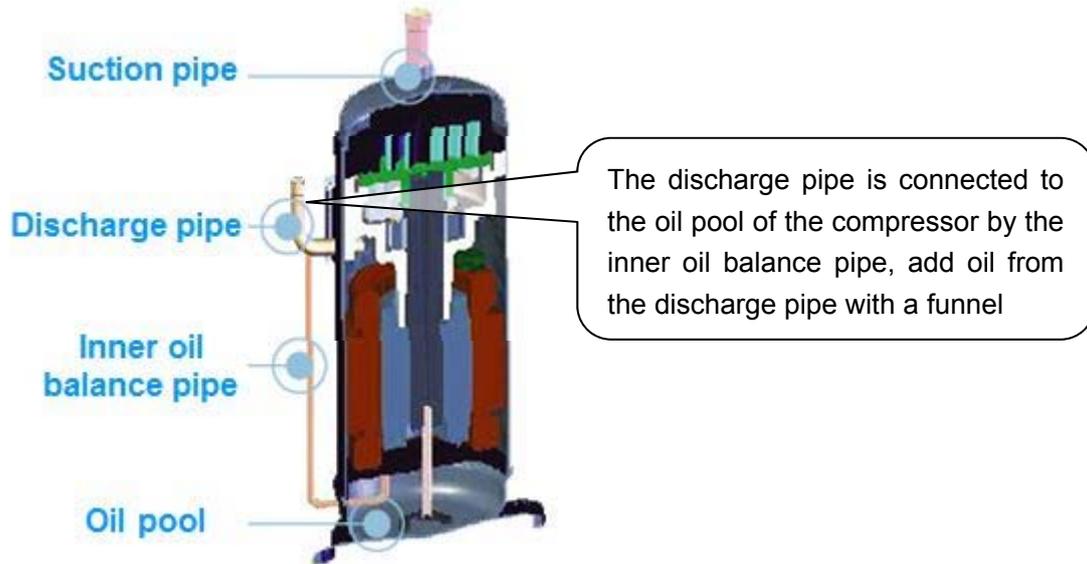
The filter is blocked by impurity, the suction of the compressor will be abnormal



Step 3: Replace the compressor**Note:**

1. Before dumping 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 the inverter compressor is clean, there's no need to check the oil of fixed compressors. If the oil of the inverter compressor has gone bad, check the oil of fixed compressors 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 low-pressure accumulator.

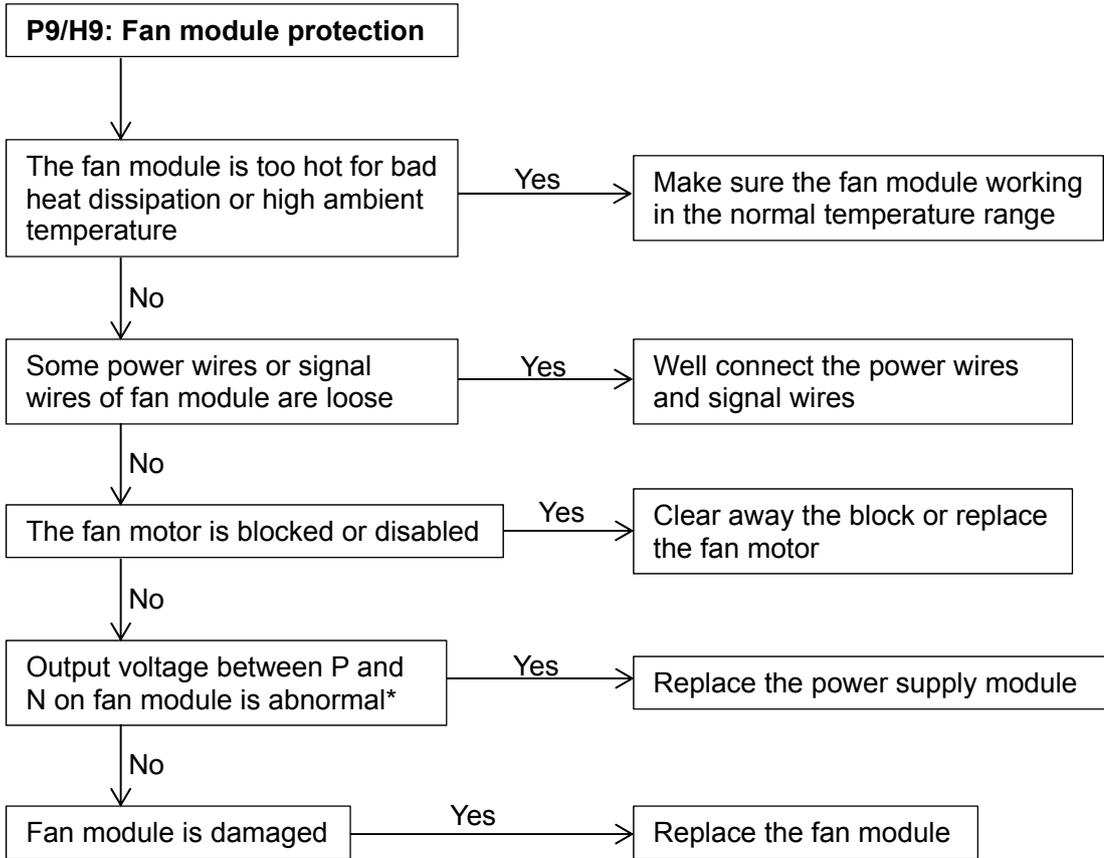
3. Add oil to the compressor from the **discharge pipe**.



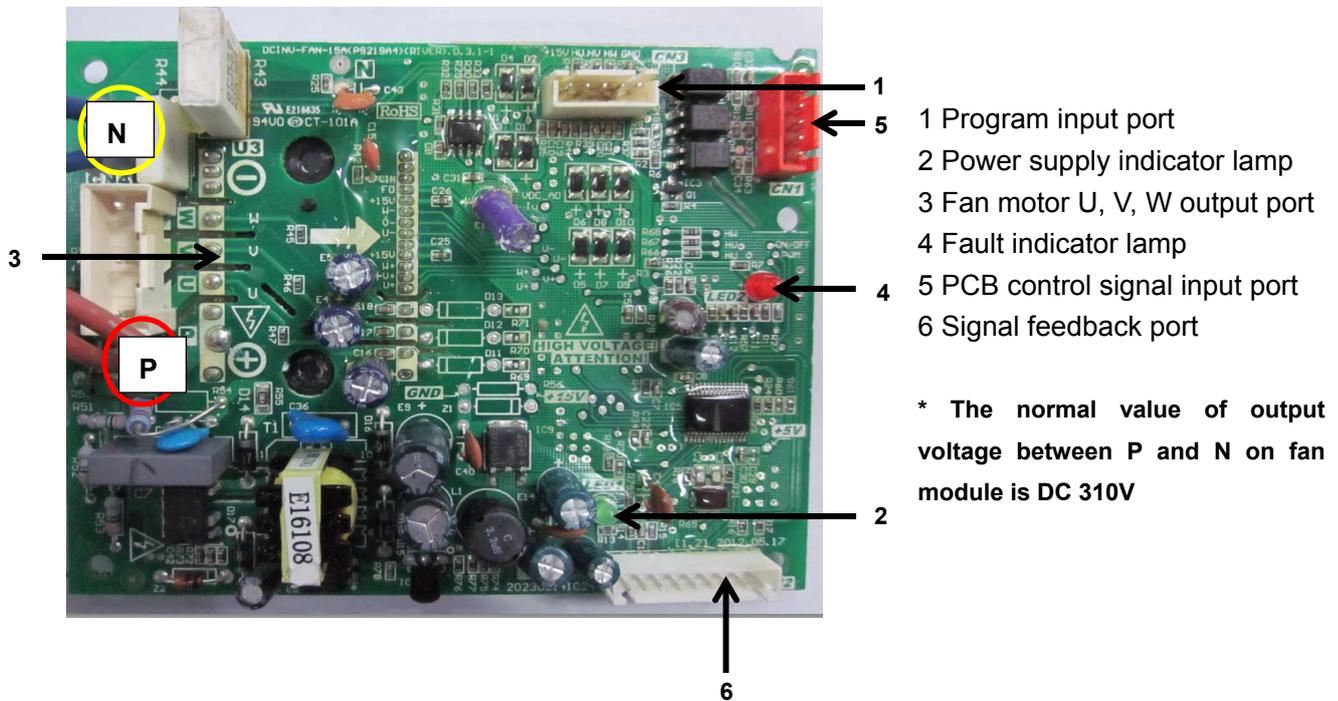
4. The type of the oil is FVC-68D, make sure the type of the oil is right because different compressor need different type of oil, if the type is wrong there will be various kinds of problems.

4.19 P9/H9: DC 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

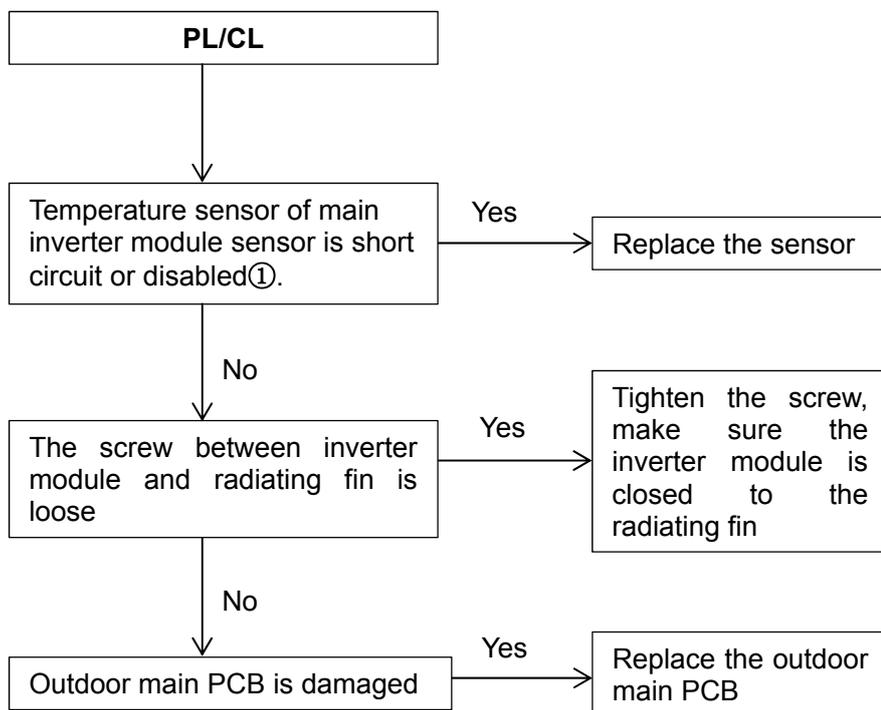
| Conditions | Fault indicator lamp of fan module | Power supply indicator lamp of fan module | Digital tube display | Malfunction analysis |
|-----------------------------------|---|---|------------------------|---|
| Power on | Off | Off | Quantity of IDU or "0" | Check the power supply circuit for 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 | Flicker | 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 flicker | 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 spot check 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 multimeter 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

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

| 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) |
|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|
| -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. When ambient temperature is low, operate the system in heating mode and set the temperature 30°C. 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 |
| Discharge pressure (spot check) | MPa | 2.1-2.3 | 2.8-3.1 | 3.3-3.5 | 3.7-3.9 |
| Pressure of high pressure valve | MPa | 1.8-2.0 | 2.4-2.7 | 2.8-3.0 | 3.2-3.5 |
| Pressure of low pressure valve | MPa | 0.7-0.9 | 0.8-1.0 | 1.0-1.2 | 1.2-1.4 |
| Discharge temperature (spot check) | °C | 50-65 | 70-85 | 70-90 | 80-90 |
| DC inverter compressor current (spot check) | A | 4-5 | 6-7 | 7~8 | 9-11 |
| Average temperature of evaporator outlet T2B | °C | 8-9 | 12-15 | 16-17 | 20 |

Outdoor unit heating parameters table

| | | | | | |
|---|-----|---------|---------|---------|---------|
| Ambient temperature (T4) | °C | -15--5 | -5-5 | 5-12 | 12-18 |
| Discharge pressure (spot check) | MPa | 2.0-2.2 | 2.2-2.7 | 3.0-3.1 | 2.6-2.7 |
| Pressure of high pressure valve | MPa | 1.7-1.8 | 1.8-2.4 | 2.6-2.8 | 2.1-2.4 |
| Pressure of low pressure valve | MPa | 2.0-2.2 | 2.2-2.6 | 3.0-3.1 | 2.5-2.7 |
| Discharge temperature (spot check) | °C | 50-70 | 60-70 | 60-85 | 60-70 |
| DC inverter compressor current (spot check) | A | 5 | 5-6 | 6-8 | 5-6 |
| Average temperature of condenser outlet T2 | °C | 33 | 33-40 | 46-50 | 39-41 |