Библиотека СОК

Part 3
Outdoor Units

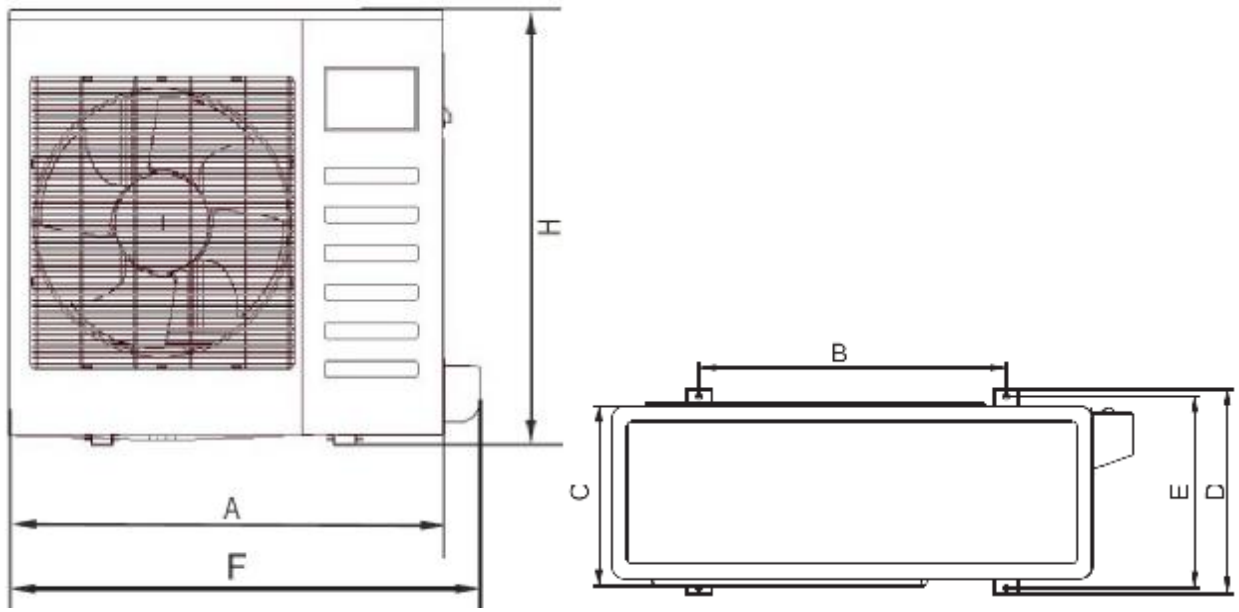
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1. Specification

Sale Model			MDVi- V105W/SN1	MDVi- V140W/SN1	MDVi -V160W/SN1
Power supply		V-Ph-Hz	380~415-3-50	380~415-3-50	380~415-3-50
Cooling	Capacity	KW	10.5	14	16
	Input	KW	3.38	4.08	4.6
	Rated current	A	6.1	8.3	8.7
Heating	Capacity	KW	12.0	15.5	17.8
	Input	KW	3.61	4.12	4.83
	Rated current	A	6.8	8	8.3
EER/COP	Cooling/Heating	w/w	3.10/3.32	3.43/3.76	3.45/3.68
Max. input consumption		W	6100	6600	7200
Max. current		A	8.9	9.52	10.4
Compressor	Model		E405AHD-36D2		
	Type		SCROLL		
	Brand		HITACHI		
	Supplier		Guangzhou HITACHI		
	Capacity	kBtu/h	11880		
	Input	W	3665		
	Rated current(RLA)	A	9.62		
	Thermal protector		INNER		
	Capacitor	uF	60uF/450V		
	Refrigerant oil	ml	FVC68D/500ml		
Outdoor fan motor	Model		YDK250-6E	YDK100-6A x2	YDK100-6A x2
	Brand		Welling		
	Input	W	307/104	(158/140) x2	(158/140) x2
	Capacitor	uF	10uF±5% 450V	3.5UF/450V x2	3.5UF/450V x2
	Speed	r/min	740/530	890/590	890/590
Outdoor coil	Number of rows		2	2	2
	Tube pitch(a)x row pitch(b)	mm	25.4 x 22	25.4 x 22	25.4 x 22
	Fin spacing	mm	1.7	1.8	1.8
	Fin type (code)		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ9.53	Φ9.53	Φ9.53
			Inner groove tube		
	Coil L x H x W	mm	888 x 915 x 44	1186 x 1220 x 44	1186 x 1220 x 44
	Number of circuits		9	4	4
Outdoor air flow		m^3/h	5400/3900	6500/4300	6500/4300
Sound level（sound pressure）		dB(A)	58/56	57/56	57/56
Outdoor unit	Dimension (WxDxH)	mm	990x 966x 396	940x 1245x 400	940x 1245x 400
	Packing (WxDxH)	mm	1120x 1100x 440	1058x 1380x 435	1058x 1380x 435
	Net/Gross weight	kg	104/111	124/130	124/130
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	g	4100	4450	4450
Throttle type			Electron expansion valve		
Design pressure		MPa	4.2/2.0	4.2/2.0	4.2/2.0
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.53/Φ16	Φ9.53/Φ16	Φ9.53/Φ16
	Max. refrigerant pipe length	m	100	100	100
	Max. difference in level	m	20	20	20
Connection wiring	Power wiring	mm^2	5 core x 2.5	5 core x 2.5	5 core x 2.5
	Signal wiring	mm^2	3 core shielded wirex0.5		
Ambient temp		℃	（Cooling -15～48）（Heating -15~21）		
Application area		m^2	52.5～70	70～93	80～106

2. Dimensions

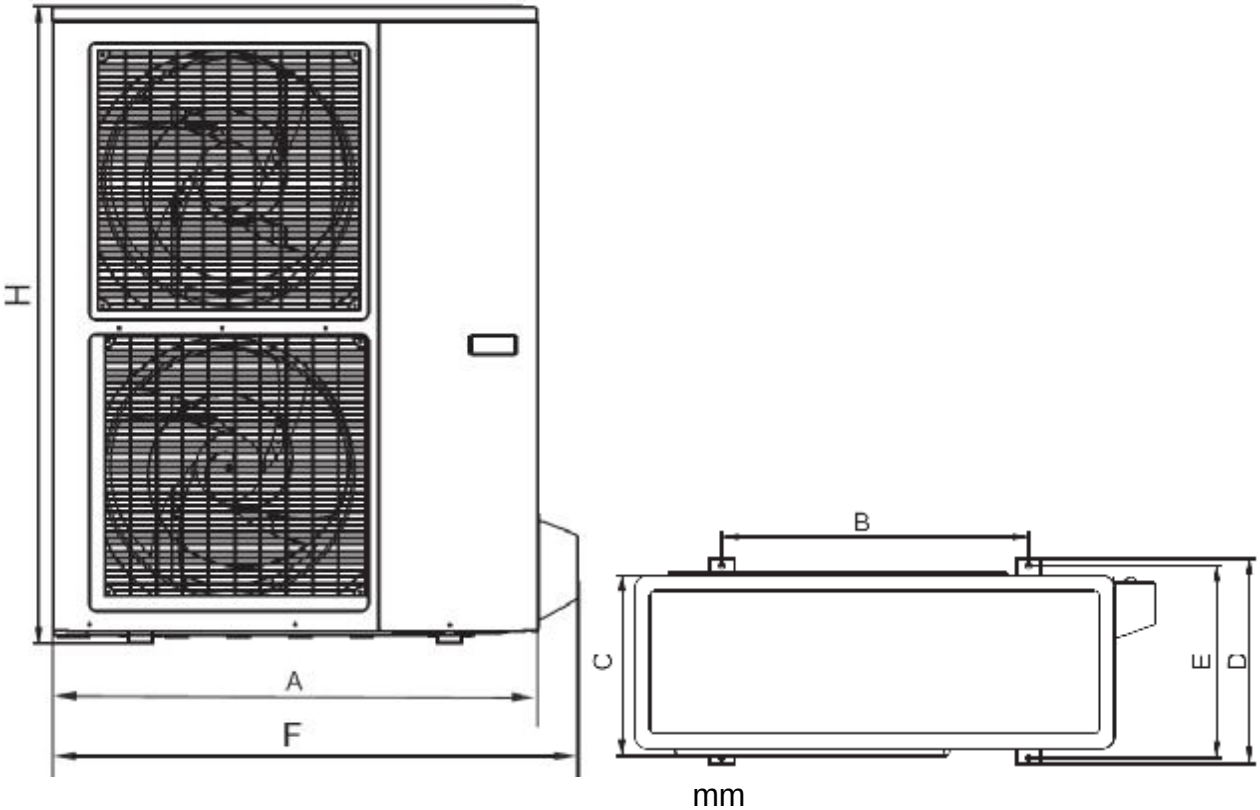
2.1 MDVi - V105W/SN1



mm

MODEL	A	B	C	D	E	F	H
MDVi -V105W/SN1	990	624	354	396	366	1075	966

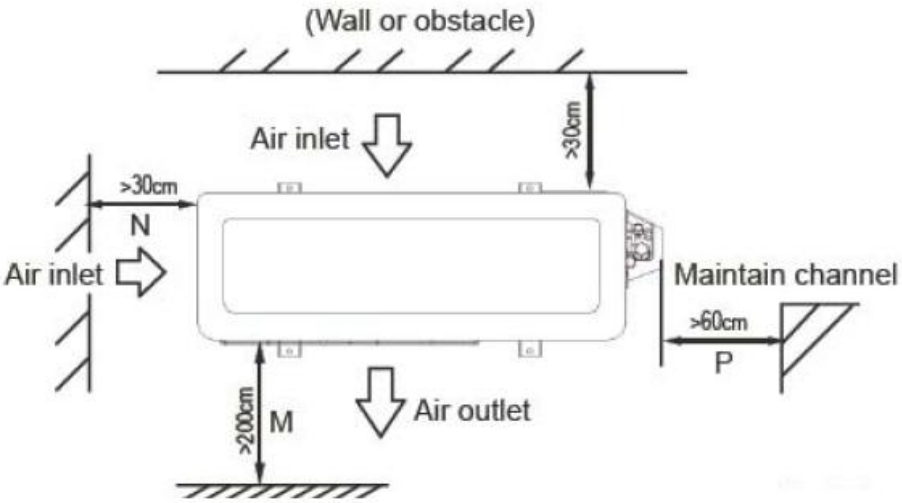
2.2 MDVi -V140W/SN1 MDVi -V160W/SN1

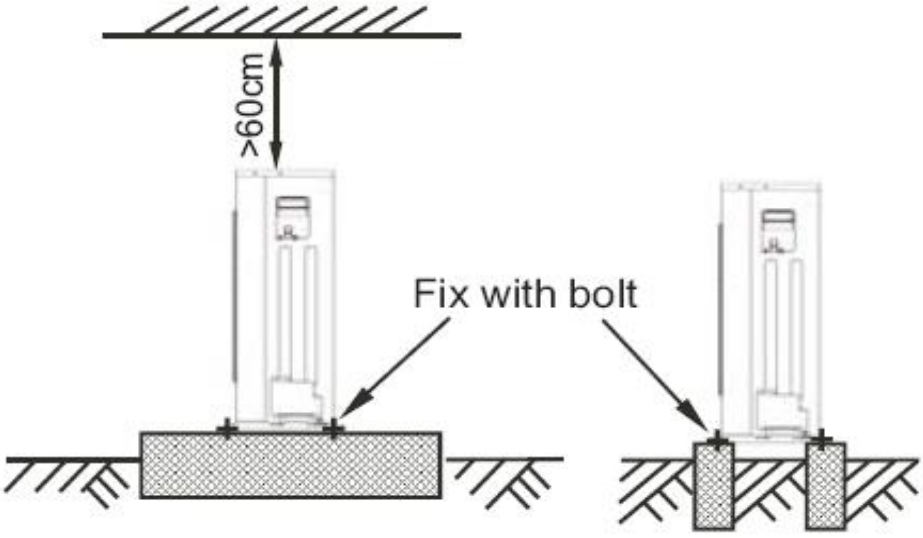


mm

MODEL	A	B	C	D	E	F	H
MDVi -V140W/SN1	940	600	360	400	376	1020	1245
MDVi -V160W/SN1	940	600	360	400	376	1020	1245

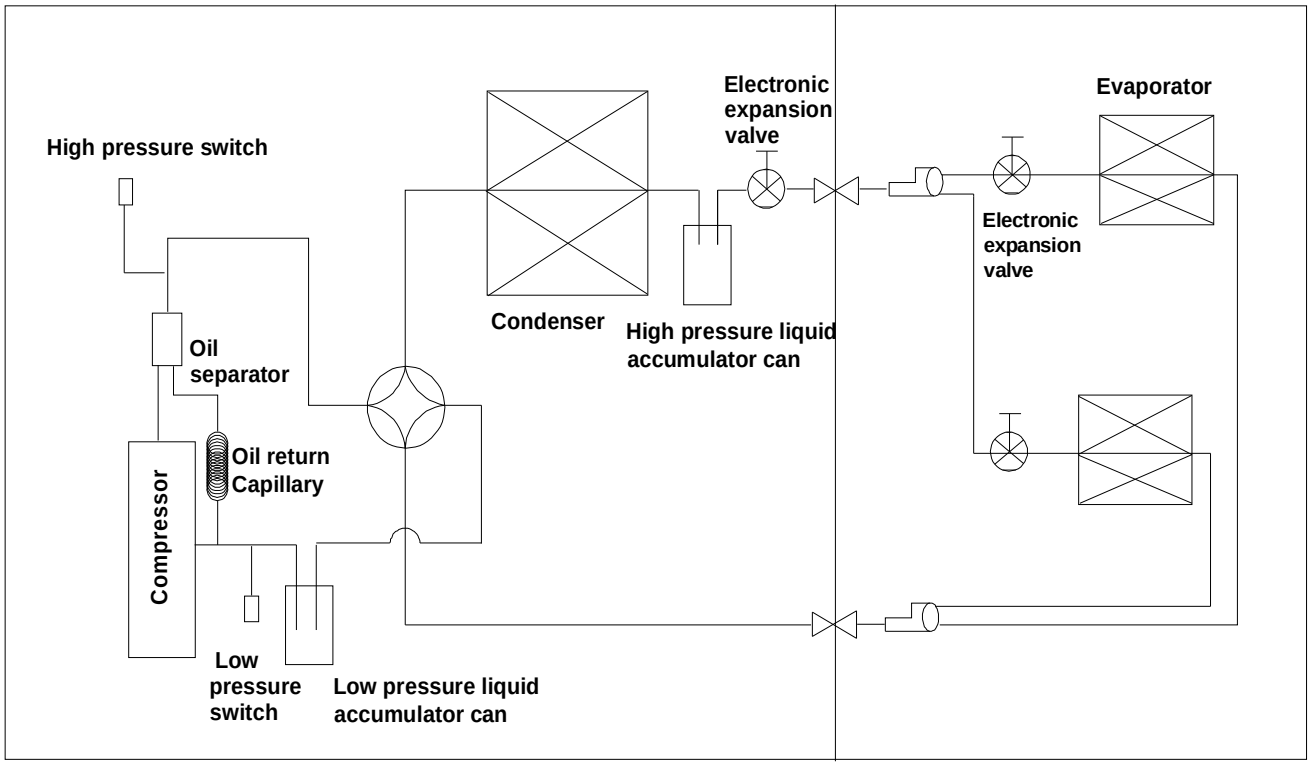
3. Service Space





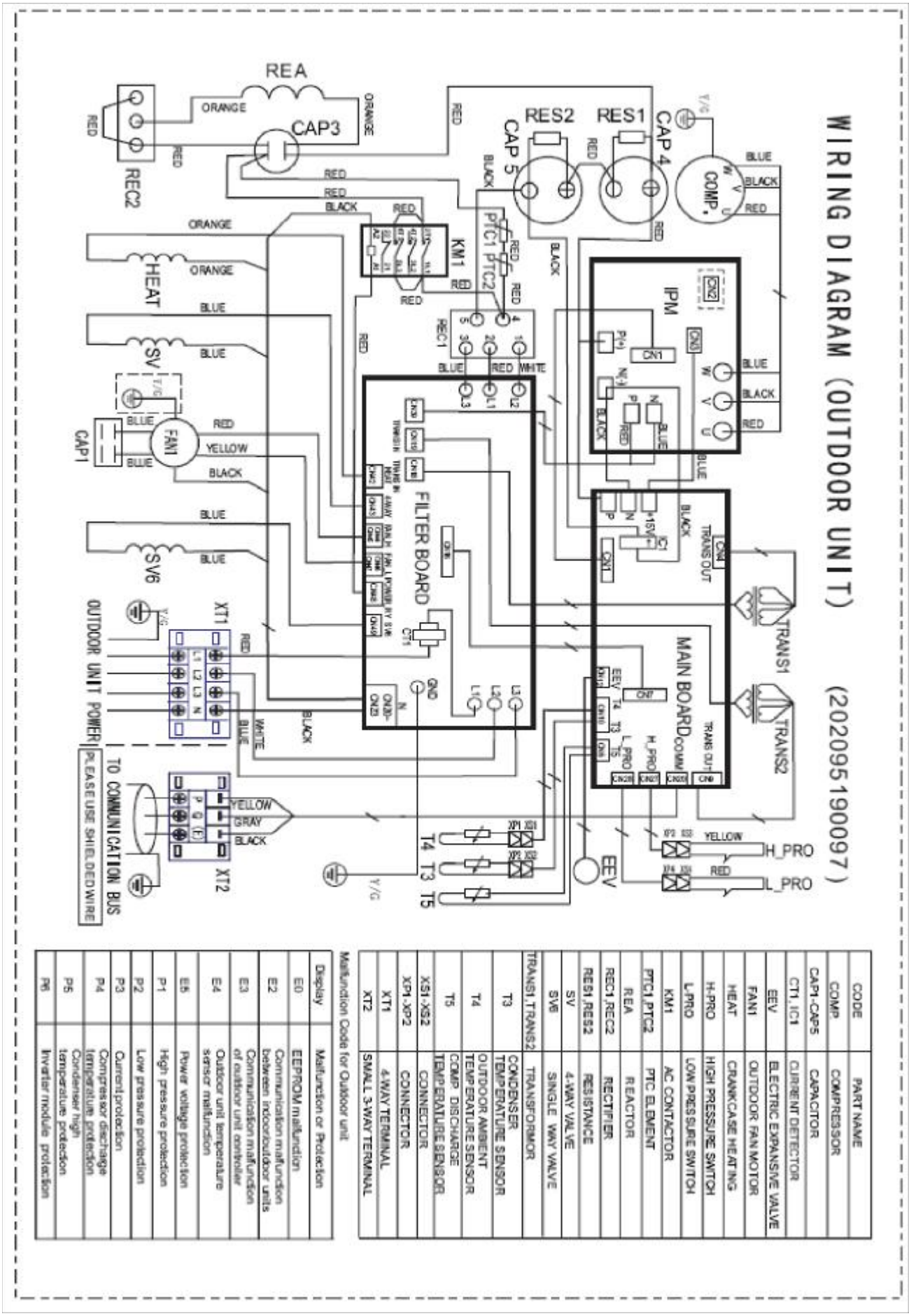
4. Piping Diagrams

MDVi -V105W/SN1 MDVi -V140W/SN1 MDVi -V160W/SN1



5. Wiring Diagrams

5.1 MDVi -V105W/SN1

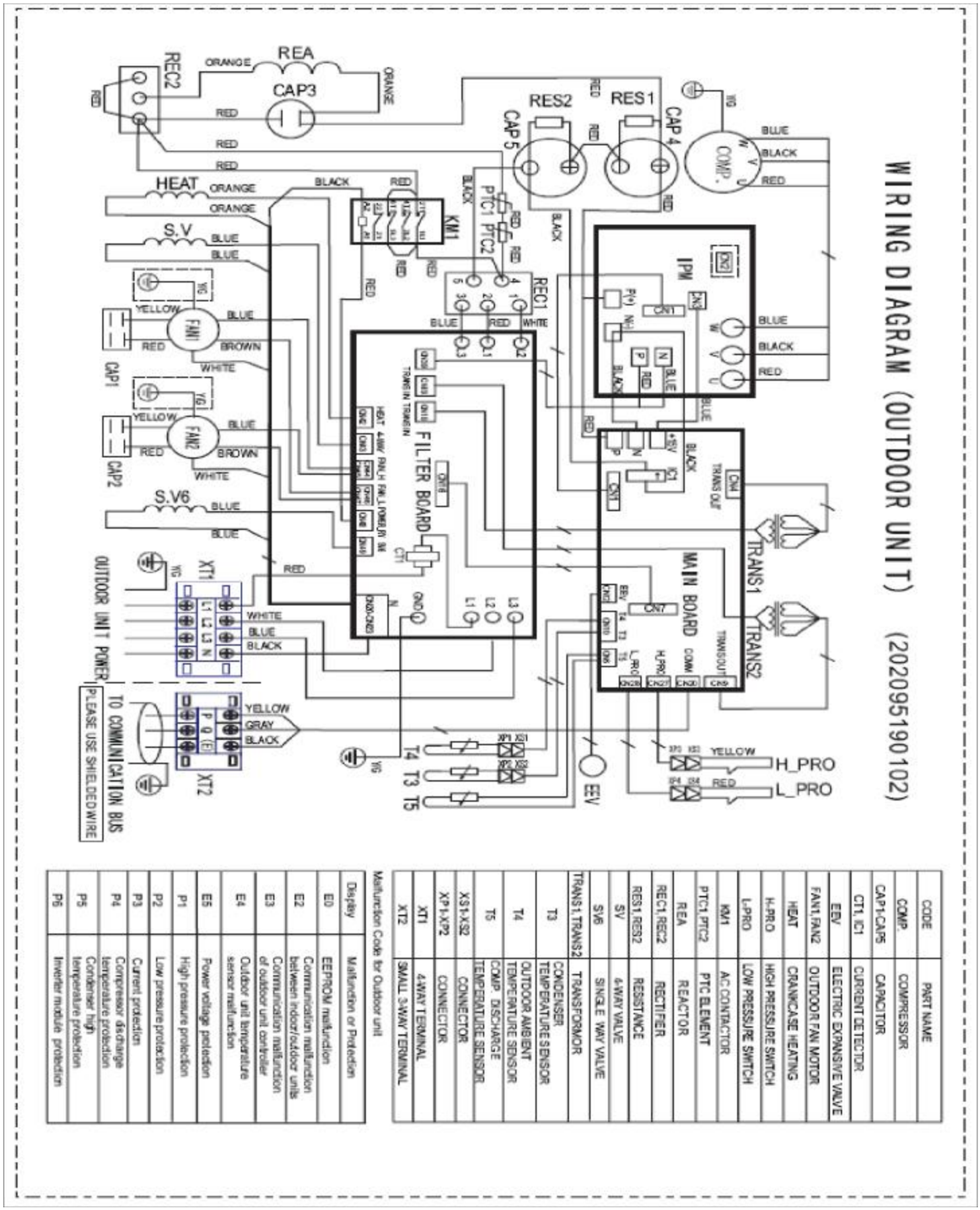


CODE	PART NAME
COMP.	COMPRESSOR
CAP1-CAP5	CAPACITOR
CT1, IC1	CURRENT DETECTOR
EEV	ELECTRIC EXPANSIVE VALVE
FAN1	OUTDOOR FAN MOTOR
HEAT	CRANKCASE HEATING
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
KM1	AC CONTACTOR
PTC1,PTC2	PTC ELEMENT
REA	REACTOR
REC1,REC2	RECTIFIER
RES1,RES2	RESISTANCE
SV	4-WAY VALVE
SV6	SINGLE WAY VALVE
TRANS1,TRANS2	TRANSFORMER
T3	CONDENSER TEMPERATURE SENSOR
T4	OUTDOOR AMBIENT TEMPERATURE SENSOR
T5	COMP. DISCHARGE TEMPERATURE SENSOR
XS1-XS2	CONNECTOR
XP1-XP2	CONNECTOR
XT1	4-WAY TERMINAL
XT2	SMALL 3-WAY TERMINAL

Malfunction Code for Outdoor unit

Display	Malfunction or Protection
E0	EEPROM malfunction
E2	Communication malfunction between indoor/outdoor units
E3	Communication malfunction of outdoor unit controller
E4	Outdoor unit temperature sensor malfunction
E5	Power voltage protection
P1	High pressure protection
P2	Low pressure protection
P3	Current protection
P4	Compressor discharge temperature protection
P5	Condenser high temperature protection
P6	Invertor module protection

5.2 MDVi-V140W/SN1 MDVi -V160W/SN1

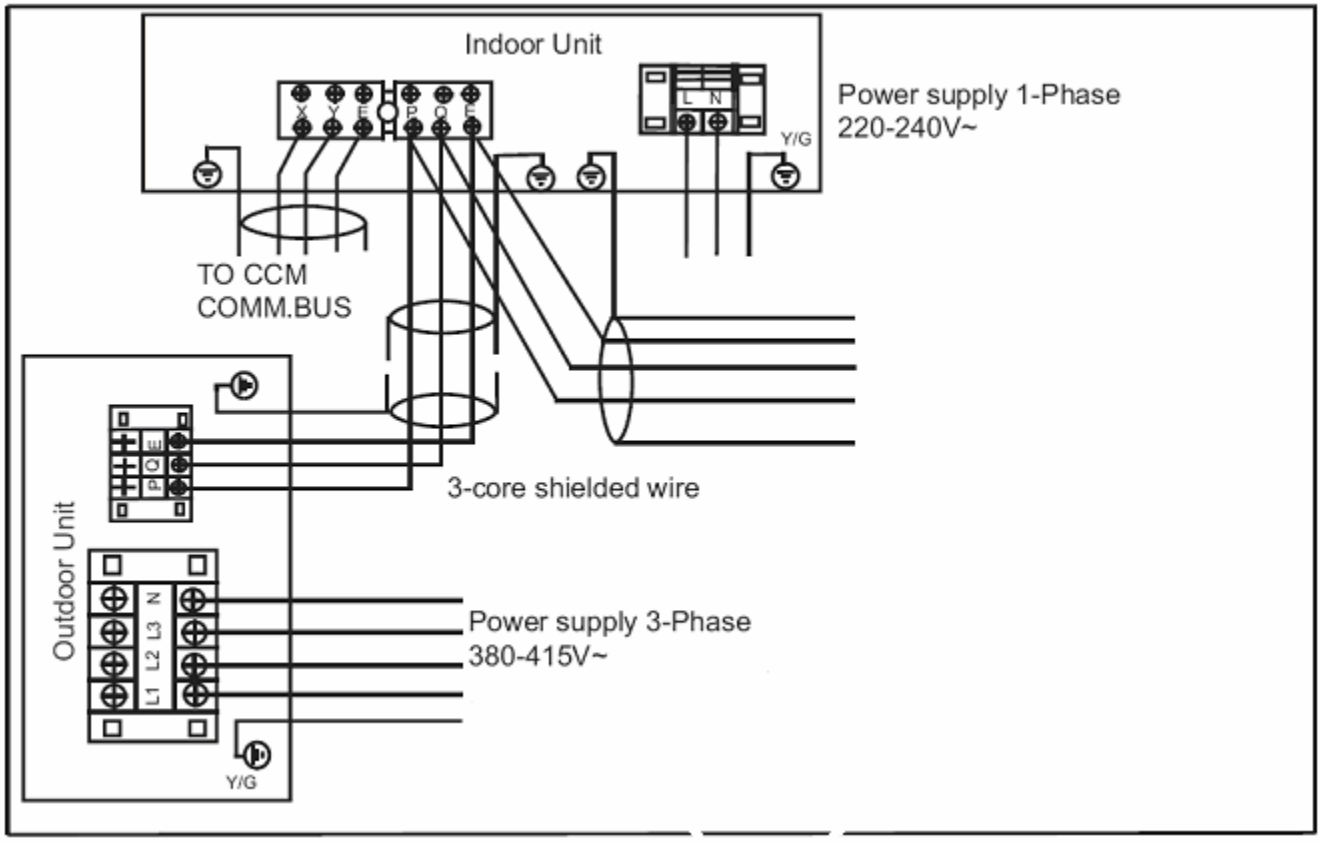


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P2	Low pressure protection
P3	Current protection
P4	Compressor discharge temperature protection
P5	Condenser high temperature protection
P6	Inverter module protection

6. Field Wiring



For 36000-60000Btu/h

7. Capacity Tables

MDVi -V105W/SN1

Cooling

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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%	10.00	7.97	1.23	9.41	1.54	10.85	1.84	11.51	1.99	12.17	2.15	12.44	2.16	12.70	2.18
	12.00	7.97	1.26	9.41	1.56	10.85	1.87	11.51	2.03	12.17	2.19	12.44	2.20	12.70	2.22
	14.00	7.97	1.28	9.41	1.59	10.85	1.91	11.51	2.07	12.17	2.23	12.44	2.24	12.70	2.26
	16.00	7.97	1.30	9.41	1.62	10.85	1.94	11.51	2.10	12.17	2.27	12.44	2.28	12.70	2.30
	18.00	7.97	1.32	9.41	1.65	10.85	1.97	11.51	2.14	12.17	2.31	12.44	2.32	12.70	2.34
	19.00	7.97	1.35	9.41	1.68	10.85	2.01	11.51	2.18	12.17	2.35	12.44	2.36	12.70	2.38
	21.00	7.97	1.44	9.41	1.80	10.85	2.15	11.51	2.34	12.17	2.52	12.44	2.53	12.70	2.55
	23.00	7.97	1.55	9.41	1.93	10.85	2.31	11.51	2.50	12.17	2.70	12.44	2.70	12.70	2.73
	25.00	7.97	1.16	9.41	2.06	10.85	2.47	11.51	2.68	12.17	2.89	12.44	2.89	12.70	2.92
	27.00	7.97	1.77	9.41	2.20	10.85	2.64	11.51	2.86	12.17	3.08	12.44	3.09	12.70	3.12
	29.00	7.97	1.89	9.41	2.35	10.85	2.82	11.51	3.06	12.17	3.29	12.44	3.30	12.70	3.34
	31.00	7.97	2.01	9.41	2.51	10.85	3.00	11.51	3.26	12.17	3.51	12.44	3.52	12.70	3.56
	33.00	7.97	2.14	9.41	2.67	10.85	3.20	11.51	3.47	12.17	3.74	12.44	3.75	12.70	3.79
	35.00	7.97	2.28	9.41	2.84	10.85	3.40	11.51	3.69	12.17	3.98	12.44	3.99	12.70	4.03
	37.00	7.97	2.43	9.41	3.02	10.85	3.62	11.51	3.93	12.17	4.23	12.44	4.25	12.70	4.29
	39.00	7.97	2.44	9.41	3.04	10.85	3.64	11.51	3.94	12.17	4.25	12.44	4.26	12.70	4.31
	41.00	7.97	2.45	9.41	3.05	10.85	3.65	11.51	3.96	12.17	4.27	12.44	4.28	12.70	4.33
	43.00	7.97	2.46	9.41	3.06	10.85	3.67	11.51	3.98	12.17	4.29	12.44	4.30	12.70	4.35
120%	10.00	7.84	1.22	9.26	1.52	10.67	1.82	11.32	1.97	11.98	2.13	12.24	2.14	12.50	2.16
	12.00	7.84	1.24	9.26	1.55	10.67	1.85	11.32	2.01	11.98	2.17	12.24	2.17	12.50	2.20
	14.00	7.84	1.27	9.26	1.58	10.67	1.89	11.32	2.05	11.98	2.21	12.24	2.21	12.50	2.24
	16.00	7.84	1.29	9.26	1.60	10.67	1.92	11.32	2.08	11.98	2.25	12.24	2.25	12.50	2.28
	18.00	7.84	1.31	9.26	1.63	10.67	1.96	11.32	2.12	11.98	2.29	12.24	2.29	12.50	2.32
	19.00	7.84	1.33	9.26	1.66	10.67	1.99	11.32	2.16	11.98	2.33	12.24	2.33	12.50	2.36
	21.00	7.84	1.43	9.26	1.78	10.67	2.13	11.32	2.31	11.98	2.49	12.24	2.50	12.50	2.53
	23.00	7.84	1.53	9.26	1.91	10.67	2.28	11.32	2.48	11.98	2.67	12.24	2.68	12.50	2.70
	25.00	7.84	1.64	9.26	2.04	10.67	2.44	11.32	2.65	11.98	2.86	12.24	2.87	12.50	2.89
	27.00	7.84	1.75	9.26	2.18	10.67	2.61	11.32	2.83	11.98	3.06	12.24	3.06	12.50	3.09
	29.00	7.84	1.87	9.26	2.33	10.67	2.79	11.32	3.03	11.98	3.26	12.24	3.27	12.50	3.30
	31.00	7.84	1.99	9.26	2.48	10.67	2.98	11.32	3.23	11.98	3.48	12.24	3.49	12.50	3.52
	33.00	7.84	2.12	9.26	2.65	10.67	3.17	11.32	3.44	11.98	3.71	12.24	3.72	12.50	3.75
	35.00	7.84	2.26	9.26	2.82	10.67	3.37	11.32	3.66	11.98	3.94	12.24	3.95	12.50	3.99
	37.00	7.84	2.40	9.26	2.99	10.67	3.59	11.32	3.89	11.98	4.19	12.24	4.21	12.50	4.25
	39.00	7.84	2.41	9.26	3.01	10.67	3.60	11.32	3.91	11.98	4.21	12.24	4.22	12.50	4.26
	41.00	7.84	2.42	9.26	3.02	10.67	3.62	11.32	3.92	11.98	4.23	12.24	4.24	12.50	4.28
	43.00	7.84	2.44	9.26	3.04	10.67	3.63	11.32	3.94	11.98	4.25	12.24	4.26	12.50	4.30
110%	10.00	7.71	0.62	9.11	0.77	10.50	0.92	11.14	1.00	11.78	1.08	12.04	1.08	12.29	1.09
	12.00	7.71	0.63	9.11	0.78	10.50	0.94	11.14	1.02	11.78	1.10	12.04	1.10	12.29	1.11
	14.00	7.71	0.64	9.11	0.80	10.50	0.95	11.14	1.04	11.78	1.12	12.04	1.12	12.29	1.13
	16.00	7.71	0.65	9.11	0.81	10.50	0.97	11.14	1.05	11.78	1.14	12.04	1.14	12.29	1.15
	18.00	7.71	0.66	9.11	0.83	10.50	0.99	11.14	1.07	11.78	1.16	12.04	1.16	12.29	1.17
	19.00	7.71	0.67	9.11	0.84	10.50	1.01	11.14	1.09	11.78	1.18	12.04	1.18	12.29	1.19
	21.00	7.71	0.72	9.11	0.90	10.50	1.08	11.14	1.17	11.78	1.26	12.04	1.26	12.29	1.28

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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
	23.00	7.71	0.77	9.11	0.96	10.50	1.15	11.14	1.25	11.78	1.35	12.04	1.35	12.29	1.37
	25.00	7.71	0.83	9.11	1.03	10.50	1.24	11.14	1.34	11.78	1.44	12.04	1.45	12.29	1.46
	27.00	7.71	0.89	9.11	1.10	10.50	1.32	11.14	1.43	11.78	1.54	12.04	1.55	12.29	1.56
	29.00	7.71	0.95	9.11	1.18	10.50	1.41	11.14	1.53	11.78	1.65	12.04	1.65	12.29	1.67
	31.00	7.71	1.01	9.11	1.26	10.50	1.50	11.14	1.63	11.78	1.76	12.04	1.76	12.29	1.78
	33.00	7.71	1.07	9.11	1.34	10.50	1.60	11.14	1.74	11.78	1.87	12.04	1.88	12.29	1.90
	35.00	7.71	1.14	9.11	1.42	10.50	1.70	11.14	1.85	11.78	1.99	12.04	2.00	12.29	2.02
	37.00	7.71	1.22	9.11	1.51	10.50	1.81	11.14	1.97	11.78	2.12	12.04	2.13	12.29	2.15
	39.00	7.71	1.22	9.11	1.52	10.50	1.82	11.14	1.97	11.78	2.13	12.04	2.14	12.29	2.16
	41.00	7.71	1.23	9.11	1.53	10.50	1.83	11.14	1.98	11.78	2.14	12.04	2.15	12.29	2.17
	43.00	7.71	1.23	9.11	1.53	10.50	1.84	11.14	1.99	11.78	2.15	12.04	2.16	12.29	2.18
100%	10.00	7.27	1.13	8.58	1.41	9.90	1.68	10.50	1.83	11.10	1.97	11.35	1.97	11.59	1.99
	12.00	7.27	1.15	8.58	1.43	9.90	1.71	10.50	1.86	11.10	2.00	11.35	2.01	11.59	2.03
	14.00	7.27	1.17	8.58	1.46	9.90	1.75	10.50	1.89	11.10	2.04	11.35	2.05	11.59	2.07
	16.00	7.27	1.19	8.58	1.48	9.90	1.78	10.50	1.93	11.10	2.08	11.35	2.08	11.59	2.10
	18.00	7.27	1.21	8.58	1.51	9.90	1.81	10.50	1.96	11.10	2.11	11.35	2.12	11.59	2.14
	19.00	7.27	1.23	8.58	1.54	9.90	1.84	10.50	1.99	11.10	2.15	11.35	2.16	11.59	2.18
	21.00	7.27	1.32	8.58	1.65	9.90	1.97	10.50	2.14	11.10	2.30	11.35	2.31	11.59	2.33
	23.00	7.27	1.42	8.58	1.76	9.90	2.11	10.50	2.29	11.10	2.47	11.35	2.48	11.59	2.50
	25.00	7.27	1.51	8.58	1.89	9.90	2.26	10.50	2.45	11.10	2.64	11.35	2.65	11.59	2.68
	27.00	7.27	1.62	8.58	2.02	9.90	2.42	10.50	2.62	11.10	2.82	11.35	2.83	11.59	2.86
	29.00	7.27	1.73	8.58	2.15	9.90	2.58	10.50	2.80	11.10	3.02	11.35	3.02	11.59	3.05
	31.00	7.27	1.84	8.58	2.30	9.90	2.75	10.50	2.98	11.10	3.22	11.35	3.23	11.59	3.26
	33.00	7.27	1.96	8.58	2.45	9.90	2.93	10.50	3.18	11.10	3.43	11.35	3.44	11.59	3.47
	35.00	7.27	2.09	8.58	2.60	9.90	3.12	10.50	3.38	11.10	3.64	11.35	3.65	11.59	3.69
	37.00	7.27	2.22	8.58	2.77	9.90	3.31	10.50	3.59	11.10	3.88	11.35	3.89	11.59	3.92
	39.00	7.27	2.23	8.58	2.78	9.90	3.33	10.50	3.61	11.10	3.89	11.35	3.90	11.59	3.94
	41.00	7.27	2.24	8.58	2.79	9.90	3.34	10.50	3.63	11.10	3.91	11.35	3.92	11.59	3.96
	43.00	7.27	2.25	8.58	2.81	9.90	3.36	10.50	3.64	11.10	3.93	11.35	3.94	11.59	3.98
90%	10.00	6.54	0.98	7.73	1.21	8.91	1.45	9.45	1.58	9.99	1.70	10.21	1.71	10.43	1.72
	12.00	6.54	0.99	7.73	1.24	8.91	1.48	9.45	1.61	9.99	1.73	10.21	1.74	10.43	1.75
	14.00	6.54	1.01	7.73	1.26	8.91	1.51	9.45	1.64	9.99	1.76	10.21	1.77	10.43	1.79
	16.00	6.54	1.03	7.73	1.28	8.91	1.54	9.45	1.67	9.99	1.80	10.21	1.80	10.43	1.82
	18.00	6.54	1.05	7.73	1.30	8.91	1.56	9.45	1.69	9.99	1.83	10.21	1.83	10.43	1.85
	19.00	6.54	1.07	7.73	1.33	8.91	1.59	9.45	1.72	9.99	1.86	10.21	1.86	10.43	1.88
	21.00	6.54	1.14	7.73	1.42	8.91	1.70	9.45	1.85	9.99	1.99	10.21	2.00	10.43	2.02
	23.00	6.54	1.22	7.73	1.52	8.91	1.83	9.45	1.98	9.99	2.13	10.21	2.14	10.43	2.16
	25.00	6.54	1.31	7.73	1.63	8.91	1.95	9.45	2.12	9.99	2.28	10.21	2.29	10.43	2.31
	27.00	6.54	1.40	7.73	1.74	8.91	2.09	9.45	2.26	9.99	2.44	10.21	2.45	10.43	2.47
	29.00	6.54	1.49	7.73	1.86	8.91	2.23	9.45	2.42	9.99	2.61	10.21	2.61	10.43	2.64
	31.00	6.54	1.59	7.73	1.99	8.91	2.38	9.45	2.58	9.99	2.78	10.21	2.79	10.43	2.82
	33.00	6.54	1.70	7.73	2.11	8.91	2.53	9.45	2.75	9.99	2.96	10.21	2.97	10.43	3.00
	35.00	6.54	1.81	7.73	2.25	8.91	2.69	9.45	2.92	9.99	3.15	10.21	3.16	10.43	3.19
	37.00	6.54	1.92	7.73	2.39	8.91	2.87	9.45	3.11	9.99	3.35	10.21	3.36	10.43	3.39
	39.00	6.54	1.93	7.73	2.40	8.91	2.88	9.45	3.12	9.99	3.36	10.21	3.38	10.43	3.41
	41.00	6.54	1.94	7.73	2.41	8.91	2.89	9.45	3.14	9.99	3.38	10.21	3.39	10.43	3.42

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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
	27.00	4.36	0.83	5.15	1.04	5.94	1.24	6.30	1.35	6.66	1.45	6.81	1.46	6.95	1.47
	29.00	4.36	0.89	5.15	1.11	5.94	1.33	6.30	1.44	6.66	1.55	6.81	1.56	6.95	1.57
	31.00	4.36	0.95	5.15	1.18	5.94	1.42	6.30	1.54	6.66	1.66	6.81	1.66	6.95	1.68
	33.00	4.36	1.01	5.15	1.26	5.94	1.51	6.30	1.64	6.66	1.76	6.81	1.77	6.95	1.79
	35.00	4.36	1.08	5.15	1.34	5.94	1.60	6.30	1.74	6.66	1.88	6.81	1.88	6.95	1.90
	37.00	4.36	1.14	5.15	1.42	5.94	1.71	6.30	1.85	6.66	1.99	6.81	2.00	6.95	2.02
	39.00	4.36	1.15	5.15	1.43	5.94	1.71	6.30	1.86	6.66	2.00	6.81	2.01	6.95	2.03
	41.00	4.36	1.15	5.15	1.44	5.94	1.72	6.30	1.87	6.66	2.01	6.81	2.02	6.95	2.04
	43.00	4.36	1.16	5.15	1.44	5.94	1.73	6.30	1.88	6.66	2.02	6.81	2.03	6.95	2.05
50%	10.00	3.64	0.47	4.29	0.59	4.95	0.70	5.25	0.76	5.55	0.82	5.67	0.82	5.79	0.83
	12.00	3.64	0.48	4.29	0.60	4.95	0.71	5.25	0.78	5.55	0.84	5.67	0.84	5.79	0.85
	14.00	3.64	0.49	4.29	0.61	4.95	0.73	5.25	0.79	5.55	0.85	5.67	0.85	5.79	0.86
	16.00	3.64	0.50	4.29	0.62	4.95	0.74	5.25	0.80	5.55	0.87	5.67	0.87	5.79	0.88
	18.00	3.64	0.51	4.29	0.63	4.95	0.75	5.25	0.82	5.55	0.88	5.67	0.88	5.79	0.89
	19.00	3.64	0.51	4.29	0.64	4.95	0.77	5.25	0.83	5.55	0.90	5.67	0.90	5.79	0.91
	21.00	3.64	0.55	4.29	0.69	4.95	0.82	5.25	0.89	5.55	0.96	5.67	0.96	5.79	0.97
	23.00	3.64	0.59	4.29	0.74	4.95	0.88	5.25	0.95	5.55	1.03	5.67	1.03	5.79	1.04
	25.00	3.64	0.63	4.29	0.79	4.95	0.94	5.25	1.02	5.55	1.10	5.67	1.10	5.79	1.12
	27.00	3.64	0.68	4.29	0.84	4.95	1.01	5.25	1.09	5.55	1.18	5.67	1.18	5.79	1.19
	29.00	3.64	0.72	4.29	0.90	4.95	1.08	5.25	1.17	5.55	1.26	5.67	1.26	5.79	1.27
	31.00	3.64	0.77	4.29	0.96	4.95	1.15	5.25	1.24	5.55	1.34	5.67	1.34	5.79	1.36
	33.00	3.64	0.82	4.29	1.02	4.95	1.22	5.25	1.32	5.55	1.43	5.67	1.43	5.79	1.45
	35.00	3.64	0.87	4.29	1.09	4.95	1.30	5.25	1.41	5.55	1.52	5.67	1.52	5.79	1.54
	37.00	3.64	0.93	4.29	1.15	4.95	1.38	5.25	1.50	5.55	1.62	5.67	1.62	5.79	1.64
	39.00	3.64	0.93	4.29	1.16	4.95	1.39	5.25	1.51	5.55	1.62	5.67	1.63	5.79	1.64
	41.00	3.64	0.93	4.29	1.16	4.95	1.39	5.25	1.51	5.55	1.63	5.67	1.64	5.79	1.65
	43.00	3.64	0.94	4.29	1.17	4.95	1.40	5.25	1.52	5.55	1.64	5.67	1.64	5.79	1.66

Heating

Combination (Capacity index)	Outdoor air temp.		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
130%	-14.7	-15	8.38	3.17	8.38	3.23	8.38	3.30	8.05	3.16	7.72	3.01	7.05	2.72
	-12.6	-13	8.85	3.22	8.85	3.29	8.85	3.36	8.50	3.21	8.15	3.06	7.44	2.77
	-10.5	-11	9.31	3.27	9.31	3.34	9.31	3.41	8.94	3.26	8.57	3.11	7.84	2.81
	-9.5	-10	9.54	3.29	9.54	3.37	9.54	3.44	9.16	3.28	8.78	3.13	8.02	2.83
	-8.5	-9.1	9.76	3.32	9.76	3.39	9.76	3.46	9.37	3.31	8.98	3.16	8.21	2.85
	-7	-7.6	10.09	3.36	10.09	3.43	10.09	3.50	9.69	3.35	9.29	3.19	8.49	2.89
	-5	-5.6	10.54	3.41	10.54	3.48	10.54	3.55	10.12	3.40	9.70	3.24	8.86	2.93
	-3	-3.7	10.98	3.46	10.98	3.53	10.98	3.60	10.54	3.45	10.11	3.29	9.24	2.97
	0	-0.7	11.65	3.53	11.65	3.61	11.65	3.68	11.18	3.52	10.72	3.36	9.80	3.04
	3	2.2	12.31	3.61	12.31	3.68	12.31	3.76	11.82	3.60	11.33	3.43	10.36	3.10
	5	4.1	12.76	3.66	12.76	3.73	12.76	3.81	12.25	3.64	11.74	3.48	10.73	3.14
	7	6	13.20	3.71	13.20	3.78	13.20	3.86	12.68	3.69	12.15	3.53	11.10	3.19
	9	7.9	13.20	3.58	13.20	3.66	13.20	3.73	12.68	3.57	12.15	3.41	11.10	3.08
	11	9.8	13.20	3.46	13.20	3.53	13.20	3.60	12.68	3.45	12.15	3.29	11.10	2.97
	13	11.8	13.20	3.33	13.20	3.40	13.20	3.47	12.68	3.32	12.15	3.17	11.10	2.87
	15	13.7	13.20	3.21	13.20	3.28	13.20	3.34	12.68	3.20	12.15	3.05	11.10	2.76
120%	-14.7	-15	8.38	3.26	8.38	3.33	8.38	3.40	8.05	3.25	7.72	3.10	7.05	2.80
	-12.6	-13	8.85	3.31	8.85	3.38	8.85	3.45	8.50	3.30	8.15	3.15	7.44	2.85
	-10.5	-11	9.31	3.37	9.31	3.44	9.31	3.51	8.94	3.36	8.57	3.20	7.84	2.89
	-9.5	-10	9.54	3.39	9.54	3.46	9.54	3.54	9.16	3.38	8.78	3.23	8.02	2.92
	-8.5	-9.1	9.76	3.42	9.76	3.49	9.76	3.56	9.37	3.41	8.98	3.25	8.21	2.94
	-7	-7.6	10.09	3.46	10.09	3.53	10.09	3.60	9.69	3.45	9.29	3.29	8.49	2.97
	-5	-5.6	10.54	3.51	10.54	3.58	10.54	3.66	10.12	3.50	9.70	3.34	8.86	3.02
	-3	-3.7	10.98	3.56	10.98	3.63	10.98	3.71	10.54	3.55	10.11	3.39	9.24	3.06
	0	-0.7	11.65	3.64	11.65	3.71	11.65	3.79	11.18	3.62	10.72	3.46	9.80	3.13
	3	2.2	12.31	3.71	12.31	3.79	12.31	3.87	11.82	3.70	11.33	3.53	10.36	3.19
	5	4.1	12.76	3.76	12.76	3.84	12.76	3.92	12.25	3.75	11.74	3.58	10.73	3.24
	7	6	13.20	3.81	13.20	3.90	13.20	3.98	12.68	3.80	12.15	3.63	11.10	3.28
	9	7.9	13.20	3.69	13.20	3.77	13.20	3.84	12.68	3.68	12.15	3.51	11.10	3.17
	11	9.8	13.20	3.56	13.20	3.63	13.20	3.71	12.68	3.55	12.15	3.39	11.10	3.06
	13	11.8	13.20	3.43	13.20	3.50	13.20	3.58	12.68	3.42	12.15	3.26	11.10	2.95
	15	13.7	13.20	3.30	13.20	3.37	13.20	3.44	12.68	3.29	12.15	3.14	11.10	2.84
110%	-14.7	-15	8.38	3.35	8.38	3.42	8.38	3.49	8.05	3.34	7.72	3.19	7.05	2.88
	-12.6	-13	8.85	3.41	8.85	3.48	8.85	3.55	8.50	3.40	8.15	3.24	7.44	2.93
	-10.5	-11	9.31	3.46	9.31	3.54	9.31	3.61	8.94	3.45	8.57	3.29	7.84	2.98
	-9.5	-10	9.54	3.49	9.54	3.56	9.54	3.64	9.16	3.48	8.78	3.32	8.02	3.00
	-8.5	-9.1	9.76	3.52	9.76	3.59	9.76	3.67	9.37	3.50	8.98	3.34	8.21	3.02
	-7	-7.6	10.09	3.55	10.09	3.63	10.09	3.71	9.69	3.54	9.29	3.38	8.49	3.06
	-5	-5.6	10.54	3.61	10.54	3.68	10.54	3.76	10.12	3.60	9.70	3.43	8.86	3.10
	-3	-3.7	10.98	3.66	10.98	3.74	10.98	3.82	10.54	3.65	10.11	3.48	9.24	3.15
	0	-0.7	11.65	3.74	11.65	3.82	11.65	3.90	11.18	3.73	10.72	3.56	9.80	3.22
	3	2.2	12.31	3.82	12.31	3.90	12.31	3.98	11.82	3.81	11.33	3.63	10.36	3.28
	5	4.1	12.76	3.87	12.76	3.95	12.76	4.04	12.25	3.86	11.74	3.68	10.73	3.33
	7	6	13.20	3.92	13.20	4.01	13.20	4.09	12.68	3.91	12.15	3.73	11.10	3.37
	9	7.9	13.20	3.79	13.20	3.87	13.20	3.95	12.68	3.78	12.15	3.61	11.10	3.26

Combination (Capacity index)	Outdoor air temp.		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
	11	9.8	13.20	3.66	13.20	3.74	13.20	3.82	12.68	3.65	12.15	3.48	11.10	3.15
	13	11.8	13.20	3.53	13.20	3.60	13.20	3.68	12.68	3.52	12.15	3.36	11.10	3.03
	15	13.7	13.20	3.40	13.20	3.47	13.20	3.54	12.68	3.39	12.15	3.23	11.10	2.92
100%	-14.7	-15	7.62	2.96	7.62	3.02	7.62	3.08	7.32	2.95	7.01	2.81	6.41	2.54
	-12.6	-13	8.04	3.01	8.04	3.07	8.04	3.13	7.72	3.00	7.40	2.86	6.77	2.59
	-10.5	-11	8.47	3.06	8.47	3.12	8.47	3.19	8.13	3.05	7.79	2.91	7.12	2.63
	-9.5	-10	8.67	3.08	8.67	3.14	8.67	3.21	8.32	3.07	7.98	2.93	7.29	2.65
	-8.5	-9.1	8.87	3.10	8.87	3.17	8.87	3.23	8.52	3.09	8.17	2.95	7.46	2.67
	-7	-7.6	9.17	3.14	9.17	3.20	9.17	3.27	8.81	3.13	8.45	2.98	7.72	2.70
	-5	-5.6	9.58	3.18	9.58	3.25	9.58	3.32	9.20	3.17	8.82	3.03	8.06	2.74
	-3	-3.7	9.98	3.23	9.98	3.30	9.98	3.37	9.59	3.22	9.19	3.07	8.40	2.78
	0	-0.7	10.59	3.30	10.59	3.37	10.59	3.44	10.17	3.29	9.75	3.14	8.91	2.84
	3	2.2	11.19	3.37	11.19	3.44	11.19	3.51	10.75	3.36	10.30	3.21	9.42	2.90
	5	4.1	11.60	3.42	11.60	3.49	11.60	3.56	11.14	3.41	10.68	3.25	9.76	2.94
	7	6	12.00	3.46	12.00	3.54	12.00	3.61	11.52	3.45	11.05	3.29	10.10	2.98
	9	7.9	12.00	3.35	12.00	3.42	12.00	3.49	11.52	3.34	11.05	3.18	10.10	2.88
	11	9.8	12.00	3.23	12.00	3.30	12.00	3.37	11.52	3.22	11.05	3.07	10.10	2.78
	13	11.8	12.00	3.11	12.00	3.18	12.00	3.25	11.52	3.10	11.05	2.96	10.10	2.68
	15	13.7	12.00	3.00	12.00	3.06	12.00	3.13	11.52	2.99	11.05	2.85	10.10	2.58
90%	-14.7	-15	6.86	2.62	6.86	2.68	6.86	2.73	6.59	2.61	6.31	2.49	5.77	2.25
	-12.6	-13	7.24	2.67	7.24	2.72	7.24	2.78	6.95	2.66	6.66	2.54	6.09	2.29
	-10.5	-11	7.62	2.71	7.62	2.77	7.62	2.82	7.32	2.70	7.02	2.58	6.41	2.33
	-9.5	-10	7.80	2.73	7.80	2.79	7.80	2.85	7.49	2.72	7.18	2.60	6.56	2.35
	-8.5	-9.1	7.98	2.75	7.98	2.81	7.98	2.87	7.67	2.74	7.35	2.62	6.72	2.36
	-7	-7.6	8.26	2.78	8.26	2.84	8.26	2.90	7.93	2.77	7.60	2.65	6.95	2.39
	-5	-5.6	8.62	2.82	8.62	2.88	8.62	2.94	8.28	2.81	7.94	2.68	7.25	2.43
	-3	-3.7	8.98	2.86	8.98	2.92	8.98	2.99	8.63	2.85	8.27	2.72	7.56	2.46
	0	-0.7	9.53	2.93	9.53	2.99	9.53	3.05	9.15	2.92	8.77	2.78	8.02	2.52
	3	2.2	10.07	2.99	10.07	3.05	10.07	3.11	9.67	2.98	9.27	2.84	8.47	2.57
	5	4.1	10.44	3.03	10.44	3.09	10.44	3.16	10.02	3.02	9.61	2.88	8.78	2.60
	7	6	10.80	3.07	10.80	3.14	10.80	3.20	10.37	3.06	9.94	2.92	9.09	2.64
	9	7.9	10.80	2.97	10.80	3.03	10.80	3.09	10.37	2.96	9.94	2.82	9.09	2.55
	11	9.8	10.80	2.86	10.80	2.92	10.80	2.99	10.37	2.86	9.94	2.72	9.09	2.46
	13	11.8	10.80	2.76	10.80	2.82	10.80	2.88	10.37	2.75	9.94	2.63	9.09	2.37
	15	13.7	10.80	2.66	10.80	2.71	10.80	2.77	10.37	2.65	9.94	2.53	9.09	2.29
80%	-14.7	-15	6.10	2.30	6.10	2.35	6.10	2.40	5.85	2.30	5.61	2.19	5.13	1.98
	-12.6	-13	6.43	2.34	6.43	2.39	6.43	2.44	6.18	2.33	5.92	2.23	5.41	2.01
	-10.5	-11	6.77	2.38	6.77	2.43	6.77	2.48	6.50	2.37	6.24	2.26	5.70	2.05
	-9.5	-10	6.94	2.40	6.94	2.45	6.94	2.50	6.66	2.39	6.38	2.28	5.83	2.06
	-8.5	-9.1	7.10	2.41	7.10	2.47	7.10	2.52	6.82	2.41	6.53	2.30	5.97	2.08
	-7	-7.6	7.34	2.44	7.34	2.49	7.34	2.55	7.05	2.43	6.76	2.32	6.17	2.10
	-5	-5.6	7.66	2.48	7.66	2.53	7.66	2.58	7.36	2.47	7.05	2.36	6.45	2.13
	-3	-3.7	7.98	2.51	7.98	2.57	7.98	2.62	7.67	2.51	7.35	2.39	6.72	2.16
	0	-0.7	8.47	2.57	8.47	2.62	8.47	2.68	8.13	2.56	7.80	2.44	7.13	2.21
	3	2.2	8.95	2.62	8.95	2.68	8.95	2.74	8.60	2.62	8.24	2.50	7.53	2.26
	5	4.1	9.28	2.66	9.28	2.72	9.28	2.77	8.91	2.65	8.54	2.53	7.80	2.29

Combination (Capacity index)	Outdoor air temp.		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
	7	6	9.60	2.70	9.60	2.75	9.60	2.81	9.22	2.69	8.84	2.56	8.08	2.32
	9	7.9	9.60	2.61	9.60	2.66	9.60	2.72	9.22	2.60	8.84	2.48	8.08	2.24
	11	9.8	9.60	2.51	9.60	2.57	9.60	2.62	9.22	2.51	8.84	2.39	8.08	2.16
	13	11.8	9.60	2.42	9.60	2.48	9.60	2.53	9.22	2.42	8.84	2.31	8.08	2.08
	15	13.7	9.60	2.33	9.60	2.38	9.60	2.43	9.22	2.33	8.84	2.22	8.08	2.01
70%	-14.7	-15	5.33	1.98	5.33	2.03	5.33	2.07	5.12	1.98	4.91	1.89	4.49	1.71
	-12.6	-13	5.63	2.02	5.63	2.06	5.63	2.10	5.41	2.01	5.18	1.92	4.74	1.73
	-10.5	-11	5.93	2.05	5.93	2.09	5.93	2.14	5.69	2.04	5.46	1.95	4.99	1.76
	-9.5	-10	6.07	2.06	6.07	2.11	6.07	2.15	5.83	2.06	5.59	1.96	5.11	1.77
	-8.5	-9.1	6.21	2.08	6.21	2.12	6.21	2.17	5.96	2.07	5.72	1.98	5.22	1.79
	-7	-7.6	6.42	2.10	6.42	2.15	6.42	2.19	6.17	2.10	5.91	2.00	5.40	1.81
	-5	-5.6	6.70	2.13	6.70	2.18	6.70	2.23	6.44	2.13	6.17	2.03	5.64	1.84
	-3	-3.7	6.99	2.17	6.99	2.21	6.99	2.26	6.71	2.16	6.43	2.06	5.88	1.86
	0	-0.7	7.41	2.21	7.41	2.26	7.41	2.31	7.12	2.21	6.82	2.10	6.23	1.90
	3	2.2	7.83	2.26	7.83	2.31	7.83	2.36	7.52	2.25	7.21	2.15	6.59	1.94
	5	4.1	8.12	2.29	8.12	2.34	8.12	2.39	7.80	2.28	7.47	2.18	6.83	1.97
	7	6	8.40	2.32	8.40	2.37	8.40	2.42	8.07	2.31	7.73	2.21	7.07	2.00
	9	7.9	8.40	2.24	8.40	2.29	8.40	2.34	8.07	2.24	7.73	2.13	7.07	1.93
	11	9.8	8.40	2.17	8.40	2.21	8.40	2.26	8.07	2.16	7.73	2.06	7.07	1.86
	13	11.8	8.40	2.09	8.40	2.13	8.40	2.18	8.07	2.08	7.73	1.99	7.07	1.80
	15	13.7	8.40	2.01	8.40	2.05	8.40	2.10	8.07	2.00	7.73	1.91	7.07	1.73
60%	-14.7	-15	4.57	1.66	4.57	1.70	4.57	1.73	4.39	1.66	4.21	1.58	3.85	1.43
	-12.6	-13	4.83	1.69	4.83	1.73	4.83	1.76	4.63	1.69	4.44	1.61	4.06	1.45
	-10.5	-11	5.08	1.72	5.08	1.75	5.08	1.79	4.88	1.71	4.68	1.63	4.27	1.48
	-9.5	-10	5.20	1.73	5.20	1.77	5.20	1.81	4.99	1.73	4.79	1.65	4.38	1.49
	-8.5	-9.1	5.32	1.74	5.32	1.78	5.32	1.82	5.11	1.74	4.90	1.66	4.48	1.50
	-7	-7.6	5.50	1.76	5.50	1.80	5.50	1.84	5.29	1.76	5.07	1.68	4.63	1.52
	-5	-5.6	5.75	1.79	5.75	1.83	5.75	1.87	5.52	1.78	5.29	1.70	4.83	1.54
	-3	-3.7	5.99	1.82	5.99	1.86	5.99	1.89	5.75	1.81	5.51	1.73	5.04	1.56
	0	-0.7	6.35	1.86	6.35	1.90	6.35	1.93	6.10	1.85	5.85	1.77	5.34	1.60
	3	2.2	6.72	1.89	6.72	1.94	6.72	1.98	6.45	1.89	6.18	1.80	5.65	1.63
	5	4.1	6.96	1.92	6.96	1.96	6.96	2.00	6.68	1.92	6.41	1.83	5.85	1.65
	7	6	7.20	1.95	7.20	1.99	7.20	2.03	6.91	1.94	6.63	1.85	6.06	1.67
	9	7.9	7.20	1.88	7.20	1.92	7.20	1.96	6.91	1.88	6.63	1.79	6.06	1.62
	11	9.8	7.20	1.82	7.20	1.86	7.20	1.89	6.91	1.81	6.63	1.73	6.06	1.56
	13	11.8	7.20	1.75	7.20	1.79	7.20	1.83	6.91	1.75	6.63	1.67	6.06	1.51
	15	13.7	7.20	1.69	7.20	1.72	7.20	1.76	6.91	1.68	6.63	1.60	6.06	1.45
50%	-14.7	-15	3.81	1.34	3.81	1.37	3.81	1.40	3.66	1.34	3.51	1.28	3.20	1.16
	-12.6	-13	4.02	1.37	4.02	1.39	4.02	1.42	3.86	1.36	3.70	1.30	3.38	1.17
	-10.5	-11	4.23	1.39	4.23	1.42	4.23	1.45	4.07	1.38	3.90	1.32	3.56	1.19
	-9.5	-10	4.33	1.40	4.33	1.43	4.33	1.46	4.16	1.39	3.99	1.33	3.65	1.20
	-8.5	-9.1	4.44	1.41	4.44	1.44	4.44	1.47	4.26	1.40	4.08	1.34	3.73	1.21
	-7	-7.6	4.59	1.42	4.59	1.46	4.59	1.49	4.40	1.42	4.22	1.36	3.86	1.23
	-5	-5.6	4.79	1.45	4.79	1.48	4.79	1.51	4.60	1.44	4.41	1.38	4.03	1.24
	-3	-3.7	4.99	1.47	4.99	1.50	4.99	1.53	4.79	1.46	4.59	1.40	4.20	1.26
	0	-0.7	5.29	1.50	5.29	1.53	5.29	1.56	5.08	1.49	4.87	1.43	4.45	1.29

Combination (Capacity index)	Outdoor air temp.		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
	3	2.2	5.60	1.53	5.60	1.56	5.60	1.60	5.37	1.53	5.15	1.46	4.71	1.32
	5	4.1	5.80	1.55	5.80	1.58	5.80	1.62	5.57	1.55	5.34	1.48	4.88	1.33
	7	6	6.00	1.57	6.00	1.61	6.00	1.64	5.76	1.57	5.52	1.50	5.05	1.35
	9	7.9	6.00	1.52	6.00	1.55	6.00	1.58	5.76	1.52	5.52	1.45	5.05	1.31
	11	9.8	6.00	1.47	6.00	1.50	6.00	1.53	5.76	1.46	5.52	1.40	5.05	1.26
	13	11.8	6.00	1.41	6.00	1.44	6.00	1.47	5.76	1.41	5.52	1.35	5.05	1.22
	15	13.7	6.00	1.36	6.00	1.39	6.00	1.42	5.76	1.36	5.52	1.30	5.05	1.17

MDVi -V140W/SN1
Cooling

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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%	10.00	10.63	1.49	12.55	1.85	14.47	2.22	15.35	2.41	16.23	2.59	16.59	2.60	16.94	2.63
	12.00	10.63	1.51	12.55	1.89	14.47	2.26	15.35	2.45	16.23	2.64	16.59	2.65	16.94	2.68
	14.00	10.63	1.54	12.55	1.92	14.47	2.30	15.35	2.50	16.23	2.69	16.59	2.70	16.94	2.73
	16.00	10.63	1.57	12.55	1.96	14.47	2.34	15.35	2.54	16.23	2.74	16.59	2.75	16.94	2.77
	18.00	10.63	1.60	12.55	1.99	14.47	2.38	15.35	2.59	16.23	2.79	16.59	2.80	16.94	2.82
	19.00	10.63	1.63	12.55	2.02	14.47	2.42	15.35	2.63	16.23	2.83	16.59	2.84	16.94	2.87
	21.00	10.63	1.74	12.55	2.17	14.47	2.60	15.35	2.82	16.23	3.04	16.59	3.05	16.94	3.08
	23.00	10.63	1.87	12.55	2.33	14.47	2.78	15.35	3.02	16.23	3.26	16.59	3.27	16.94	3.30
	25.00	10.63	1.40	12.55	2.49	14.47	2.98	15.35	3.23	16.23	3.48	16.59	3.49	16.94	3.53
	27.00	10.63	2.13	12.55	2.66	14.47	3.18	15.35	3.45	16.23	3.72	16.59	3.73	16.94	3.77
	29.00	10.63	2.28	12.55	2.84	14.47	3.40	15.35	3.69	16.23	3.98	16.59	3.99	16.94	4.03
	31.00	10.63	2.43	12.55	3.03	14.47	3.63	15.35	3.93	16.23	4.24	16.59	4.25	16.94	4.29
	33.00	10.63	2.59	12.55	3.23	14.47	3.86	15.35	4.19	16.23	4.52	16.59	4.53	16.94	4.57
	35.00	10.63	2.75	12.55	3.43	14.47	4.11	15.35	4.46	16.23	4.80	16.59	4.82	16.94	4.87
	37.00	10.63	2.93	12.55	3.65	14.47	4.37	15.35	4.74	16.23	5.11	16.59	5.13	16.94	5.18
	39.00	10.63	2.94	12.55	3.67	14.47	4.39	15.35	4.76	16.23	5.13	16.59	5.15	16.94	5.20
	41.00	10.63	2.96	12.55	3.68	14.47	4.41	15.35	4.78	16.23	5.16	16.59	5.17	16.94	5.22
	43.00	10.63	2.97	12.55	3.70	14.47	4.43	15.35	4.80	16.23	5.18	16.59	5.20	16.94	5.25
120%	10.00	10.46	1.47	12.34	1.84	14.23	2.20	15.10	2.38	15.97	2.57	16.32	2.58	16.66	2.60
	12.00	10.46	1.50	12.34	1.87	14.23	2.24	15.10	2.43	15.97	2.62	16.32	2.63	16.66	2.65
	14.00	10.46	1.53	12.34	1.90	14.23	2.28	15.10	2.47	15.97	2.66	16.32	2.67	16.66	2.70
	16.00	10.46	1.55	12.34	1.94	14.23	2.32	15.10	2.52	15.97	2.71	16.32	2.72	16.66	2.75
	18.00	10.46	1.58	12.34	1.97	14.23	2.36	15.10	2.56	15.97	2.76	16.32	2.77	16.66	2.80
	19.00	10.46	1.61	12.34	2.01	14.23	2.40	15.10	2.60	15.97	2.81	16.32	2.82	16.66	2.84
	21.00	10.46	1.73	12.34	2.15	14.23	2.57	15.10	2.79	15.97	3.01	16.32	3.02	16.66	3.05
	23.00	10.46	1.85	12.34	2.30	14.23	2.76	15.10	2.99	15.97	3.22	16.32	3.23	16.66	3.27
	25.00	10.46	1.98	12.34	2.46	14.23	2.95	15.10	3.20	15.97	3.45	16.32	3.46	16.66	3.49
	27.00	10.46	2.11	12.34	2.63	14.23	3.15	15.10	3.42	15.97	3.69	16.32	3.70	16.66	3.74
	29.00	10.46	2.26	12.34	2.81	14.23	3.37	15.10	3.65	15.97	3.94	16.32	3.95	16.66	3.99
	31.00	10.46	2.41	12.34	3.00	14.23	3.59	15.10	3.90	15.97	4.20	16.32	4.21	16.66	4.25
	33.00	10.46	2.56	12.34	3.19	14.23	3.83	15.10	4.15	15.97	4.47	16.32	4.49	16.66	4.53
	35.00	10.46	2.73	12.34	3.40	14.23	4.07	15.10	4.41	15.97	4.76	16.32	4.77	16.66	4.82
	37.00	10.46	2.90	12.34	3.62	14.23	4.33	15.10	4.69	15.97	5.06	16.32	5.08	16.66	5.13
	39.00	10.46	2.91	12.34	3.63	14.23	4.35	15.10	4.72	15.97	5.08	16.32	5.10	16.66	5.15
	41.00	10.46	2.93	12.34	3.65	14.23	4.37	15.10	4.74	15.97	5.11	16.32	5.12	16.66	5.17
	43.00	10.46	2.94	12.34	3.66	14.23	4.39	15.10	4.76	15.97	5.13	16.32	5.15	16.66	5.20
110%	10.00	10.29	0.74	12.14	0.93	14.00	1.11	14.85	1.21	15.71	1.30	16.05	1.30	16.39	1.32
	12.00	10.29	0.76	12.14	0.95	14.00	1.13	14.85	1.23	15.71	1.32	16.05	1.33	16.39	1.34
	14.00	10.29	0.77	12.14	0.96	14.00	1.15	14.85	1.25	15.71	1.35	16.05	1.35	16.39	1.36
	16.00	10.29	0.79	12.14	0.98	14.00	1.17	14.85	1.27	15.71	1.37	16.05	1.38	16.39	1.39
	18.00	10.29	0.80	12.14	1.00	14.00	1.19	14.85	1.29	15.71	1.40	16.05	1.40	16.39	1.41
	19.00	10.29	0.81	12.14	1.01	14.00	1.21	14.85	1.32	15.71	1.42	16.05	1.42	16.39	1.44
	21.00	10.29	0.87	12.14	1.09	14.00	1.30	14.85	1.41	15.71	1.52	16.05	1.53	16.39	1.54
	23.00	10.29	0.93	12.14	1.16	14.00	1.39	14.85	1.51	15.71	1.63	16.05	1.63	16.39	1.65
	25.00	10.29	1.00	12.14	1.25	14.00	1.49	14.85	1.62	15.71	1.74	16.05	1.75	16.39	1.77
	27.00	10.29	1.07	12.14	1.33	14.00	1.59	14.85	1.73	15.71	1.86	16.05	1.87	16.39	1.89
	29.00	10.29	1.14	12.14	1.42	14.00	1.70	14.85	1.85	15.71	1.99	16.05	2.00	16.39	2.02
	31.00	10.29	1.22	12.14	1.52	14.00	1.82	14.85	1.97	15.71	2.12	16.05	2.13	16.39	2.15
	33.00	10.29	1.30	12.14	1.62	14.00	1.93	14.85	2.10	15.71	2.26	16.05	2.27	16.39	2.29
	35.00	10.29	1.38	12.14	1.72	14.00	2.06	14.85	2.23	15.71	2.41	16.05	2.41	16.39	2.44
	37.00	10.29	1.47	12.14	1.83	14.00	2.19	14.85	2.37	15.71	2.56	16.05	2.57	16.39	2.59
	39.00	10.29	1.47	12.14	1.84	14.00	2.20	14.85	2.38	15.71	2.57	16.05	2.58	16.39	2.60
	41.00	10.29	1.48	12.14	1.84	14.00	2.21	14.85	2.39	15.71	2.58	16.05	2.59	16.39	2.61

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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
	43.00	10.29	1.49	12.14	1.85	14.00	2.22	14.85	2.41	15.71	2.59	16.05	2.60	16.39	2.63
100%	10.00	9.70	1.36	11.45	1.70	13.20	2.03	14.00	2.20	14.81	2.38	15.13	2.38	15.45	2.41
	12.00	9.70	1.39	11.45	1.73	13.20	2.07	14.00	2.24	14.81	2.42	15.13	2.43	15.45	2.45
	14.00	9.70	1.41	11.45	1.76	13.20	2.11	14.00	2.28	14.81	2.46	15.13	2.47	15.45	2.49
	16.00	9.70	1.44	11.45	1.79	13.20	2.14	14.00	2.33	14.81	2.51	15.13	2.51	15.45	2.54
	18.00	9.70	1.46	11.45	1.82	13.20	2.18	14.00	2.37	14.81	2.55	15.13	2.56	15.45	2.58
	19.00	9.70	1.49	11.45	1.85	13.20	2.22	14.00	2.41	14.81	2.59	15.13	2.60	15.45	2.63
	21.00	9.70	1.59	11.45	1.99	13.20	2.38	14.00	2.58	14.81	2.78	15.13	2.79	15.45	2.82
	23.00	9.70	1.71	11.45	2.13	13.20	2.55	14.00	2.76	14.81	2.98	15.13	2.99	15.45	3.02
	25.00	9.70	1.83	11.45	2.28	13.20	2.73	14.00	2.96	14.81	3.19	15.13	3.20	15.45	3.23
	27.00	9.70	1.95	11.45	2.43	13.20	2.92	14.00	3.16	14.81	3.41	15.13	3.42	15.45	3.45
	29.00	9.70	2.09	11.45	2.60	13.20	3.11	14.00	3.38	14.81	3.64	15.13	3.65	15.45	3.69
	31.00	9.70	2.23	11.45	2.77	13.20	3.32	14.00	3.60	14.81	3.88	15.13	3.89	15.45	3.93
	33.00	9.70	2.37	11.45	2.95	13.20	3.54	14.00	3.84	14.81	4.13	15.13	4.15	15.45	4.19
	35.00	9.70	2.52	11.45	3.14	13.20	3.76	14.00	4.08	14.81	4.40	15.13	4.41	15.45	4.45
	37.00	9.70	2.68	11.45	3.34	13.20	4.00	14.00	4.34	14.81	4.68	15.13	4.69	15.45	4.74
	39.00	9.70	2.69	11.45	3.36	13.20	4.02	14.00	4.36	14.81	4.70	15.13	4.71	15.45	4.76
	41.00	9.70	2.71	11.45	3.37	13.20	4.04	14.00	4.38	14.81	4.72	15.13	4.73	15.45	4.78
	43.00	9.70	2.72	11.45	3.39	13.20	4.06	14.00	4.40	14.81	4.74	15.13	4.76	15.45	4.80
90%	10.00	8.73	1.18	10.30	1.47	11.88	1.76	12.60	1.90	13.32	2.05	13.61	2.06	13.90	2.08
	12.00	8.73	1.20	10.30	1.49	11.88	1.79	12.60	1.94	13.32	2.09	13.61	2.10	13.90	2.12
	14.00	8.73	1.22	10.30	1.52	11.88	1.82	12.60	1.98	13.32	2.13	13.61	2.14	13.90	2.16
	16.00	8.73	1.24	10.30	1.55	11.88	1.85	12.60	2.01	13.32	2.17	13.61	2.17	13.90	2.20
	18.00	8.73	1.26	10.30	1.58	11.88	1.89	12.60	2.05	13.32	2.21	13.61	2.21	13.90	2.23
	19.00	8.73	1.29	10.30	1.60	11.88	1.92	12.60	2.08	13.32	2.24	13.61	2.25	13.90	2.27
	21.00	8.73	1.38	10.30	1.72	11.88	2.06	12.60	2.23	13.32	2.40	13.61	2.41	13.90	2.44
	23.00	8.73	1.48	10.30	1.84	11.88	2.20	12.60	2.39	13.32	2.58	13.61	2.58	13.90	2.61
	25.00	8.73	1.58	10.30	1.97	11.88	2.36	12.60	2.56	13.32	2.76	13.61	2.77	13.90	2.79
	27.00	8.73	1.69	10.30	2.10	11.88	2.52	12.60	2.73	13.32	2.95	13.61	2.96	13.90	2.98
	29.00	8.73	1.80	10.30	2.25	11.88	2.69	12.60	2.92	13.32	3.15	13.61	3.16	13.90	3.19
	31.00	8.73	1.92	10.30	2.40	11.88	2.87	12.60	3.11	13.32	3.36	13.61	3.37	13.90	3.40
	33.00	8.73	2.05	10.30	2.55	11.88	3.06	12.60	3.32	13.32	3.57	13.61	3.59	13.90	3.62
	35.00	8.73	2.18	10.30	2.72	11.88	3.25	12.60	3.53	13.32	3.80	13.61	3.81	13.90	3.85
	37.00	8.73	2.32	10.30	2.89	11.88	3.46	12.60	3.75	13.32	4.04	13.61	4.06	13.90	4.10
	39.00	8.73	2.33	10.30	2.90	11.88	3.47	12.60	3.77	13.32	4.06	13.61	4.07	13.90	4.11
	41.00	8.73	2.34	10.30	2.91	11.88	3.49	12.60	3.78	13.32	4.08	13.61	4.09	13.90	4.13
	43.00	8.73	2.35	10.30	2.93	11.88	3.51	12.60	3.80	13.32	4.10	13.61	4.11	13.90	4.15
80%	10.00	7.76	1.01	9.16	1.25	10.56	1.50	11.20	1.63	11.84	1.75	12.10	1.76	12.36	1.78
	12.00	7.76	1.02	9.16	1.28	10.56	1.53	11.20	1.66	11.84	1.79	12.10	1.79	12.36	1.81
	14.00	7.76	1.04	9.16	1.30	10.56	1.56	11.20	1.69	11.84	1.82	12.10	1.82	12.36	1.84
	16.00	7.76	1.06	9.16	1.32	10.56	1.58	11.20	1.72	11.84	1.85	12.10	1.86	12.36	1.87
	18.00	7.76	1.08	9.16	1.35	10.56	1.61	11.20	1.75	11.84	1.88	12.10	1.89	12.36	1.91
	19.00	7.76	1.10	9.16	1.37	10.56	1.64	11.20	1.78	11.84	1.92	12.10	1.92	12.36	1.94
	21.00	7.76	1.18	9.16	1.47	10.56	1.76	11.20	1.91	11.84	2.05	12.10	2.06	12.36	2.08
	23.00	7.76	1.26	9.16	1.57	10.56	1.88	11.20	2.04	11.84	2.20	12.10	2.21	12.36	2.23
	25.00	7.76	1.35	9.16	1.68	10.56	2.01	11.20	2.18	11.84	2.35	12.10	2.36	12.36	2.38
	27.00	7.76	1.44	9.16	1.80	10.56	2.15	11.20	2.33	11.84	2.52	12.10	2.52	12.36	2.55
	29.00	7.76	1.54	9.16	1.92	10.56	2.30	11.20	2.49	11.84	2.69	12.10	2.70	12.36	2.72
	31.00	7.76	1.64	9.16	2.05	10.56	2.45	11.20	2.66	11.84	2.87	12.10	2.88	12.36	2.90
	33.00	7.76	1.75	9.16	2.18	10.56	2.61	11.20	2.83	11.84	3.05	12.10	3.06	12.36	3.09
	35.00	7.76	1.86	9.16	2.32	10.56	2.78	11.20	3.01	11.84	3.25	12.10	3.26	12.36	3.29
	37.00	7.76	1.98	9.16	2.47	10.56	2.95	11.20	3.20	11.84	3.45	12.10	3.47	12.36	3.50
	39.00	7.76	1.99	9.16	2.48	10.56	2.97	11.20	3.22	11.84	3.47	12.10	3.48	12.36	3.51
	41.00	7.76	2.00	9.16	2.49	10.56	2.98	11.20	3.23	11.84	3.48	12.10	3.50	12.36	3.53
	43.00	7.76	2.01	9.16	2.50	10.56	2.99	11.20	3.25	11.84	3.50	12.10	3.51	12.36	3.55

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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%	10.00	6.79	0.85	8.01	1.05	9.24	1.26	9.80	1.37	10.36	1.48	10.59	1.48	10.81	1.50
	12.00	6.79	0.86	8.01	1.07	9.24	1.29	9.80	1.40	10.36	1.50	10.59	1.51	10.81	1.52
	14.00	6.79	0.88	8.01	1.09	9.24	1.31	9.80	1.42	10.36	1.53	10.59	1.54	10.81	1.55
	16.00	6.79	0.89	8.01	1.11	9.24	1.33	9.80	1.45	10.36	1.56	10.59	1.56	10.81	1.58
	18.00	6.79	0.91	8.01	1.13	9.24	1.36	9.80	1.47	10.36	1.59	10.59	1.59	10.81	1.61
	19.00	6.79	0.93	8.01	1.15	9.24	1.38	9.80	1.50	10.36	1.61	10.59	1.62	10.81	1.63
	21.00	6.79	0.99	8.01	1.24	9.24	1.48	9.80	1.60	10.36	1.73	10.59	1.74	10.81	1.75
	23.00	6.79	1.06	8.01	1.32	9.24	1.58	9.80	1.72	10.36	1.85	10.59	1.86	10.81	1.88
	25.00	6.79	1.14	8.01	1.42	9.24	1.70	9.80	1.84	10.36	1.98	10.59	1.99	10.81	2.01
	27.00	6.79	1.22	8.01	1.51	9.24	1.81	9.80	1.97	10.36	2.12	10.59	2.13	10.81	2.15
	29.00	6.79	1.30	8.01	1.62	9.24	1.94	9.80	2.10	10.36	2.26	10.59	2.27	10.81	2.29
	31.00	6.79	1.38	8.01	1.72	9.24	2.06	9.80	2.24	10.36	2.41	10.59	2.42	10.81	2.44
	33.00	6.79	1.47	8.01	1.84	9.24	2.20	9.80	2.38	10.36	2.57	10.59	2.58	10.81	2.60
	35.00	6.79	1.57	8.01	1.95	9.24	2.34	9.80	2.54	10.36	2.74	10.59	2.74	10.81	2.77
	37.00	6.79	1.67	8.01	2.08	9.24	2.49	9.80	2.70	10.36	2.91	10.59	2.92	10.81	2.95
	39.00	6.79	1.67	8.01	2.09	9.24	2.50	9.80	2.71	10.36	2.92	10.59	2.93	10.81	2.96
	41.00	6.79	1.68	8.01	2.10	9.24	2.51	9.80	2.72	10.36	2.93	10.59	2.94	10.81	2.97
	43.00	6.79	1.69	8.01	2.11	9.24	2.52	9.80	2.74	10.36	2.95	10.59	2.96	10.81	2.99
60%	10.00	5.82	0.70	6.87	0.87	7.92	1.05	8.40	1.13	8.88	1.22	9.08	1.23	9.27	1.24
	12.00	5.82	0.71	6.87	0.89	7.92	1.06	8.40	1.15	8.88	1.25	9.08	1.25	9.27	1.26
	14.00	5.82	0.73	6.87	0.91	7.92	1.08	8.40	1.18	8.88	1.27	9.08	1.27	9.27	1.28
	16.00	5.82	0.74	6.87	0.92	7.92	1.10	8.40	1.20	8.88	1.29	9.08	1.29	9.27	1.31
	18.00	5.82	0.75	6.87	0.94	7.92	1.12	8.40	1.22	8.88	1.31	9.08	1.32	9.27	1.33
	19.00	5.82	0.77	6.87	0.95	7.92	1.14	8.40	1.24	8.88	1.34	9.08	1.34	9.27	1.35
	21.00	5.82	0.82	6.87	1.02	7.92	1.22	8.40	1.33	8.88	1.43	9.08	1.44	9.27	1.45
	23.00	5.82	0.88	6.87	1.10	7.92	1.31	8.40	1.42	8.88	1.53	9.08	1.54	9.27	1.55
	25.00	5.82	0.94	6.87	1.17	7.92	1.40	8.40	1.52	8.88	1.64	9.08	1.65	9.27	1.66
	27.00	5.82	1.01	6.87	1.25	7.92	1.50	8.40	1.63	8.88	1.75	9.08	1.76	9.27	1.78
	29.00	5.82	1.07	6.87	1.34	7.92	1.60	8.40	1.74	8.88	1.87	9.08	1.88	9.27	1.90
	31.00	5.82	1.15	6.87	1.43	7.92	1.71	8.40	1.85	8.88	2.00	9.08	2.00	9.27	2.02
	33.00	5.82	1.22	6.87	1.52	7.92	1.82	8.40	1.97	8.88	2.13	9.08	2.13	9.27	2.16
	35.00	5.82	1.30	6.87	1.62	7.92	1.94	8.40	2.10	8.88	2.26	9.08	2.27	9.27	2.29
	37.00	5.82	1.38	6.87	1.72	7.92	2.06	8.40	2.23	8.88	2.41	9.08	2.42	9.27	2.44
	39.00	5.82	1.39	6.87	1.73	7.92	2.07	8.40	2.24	8.88	2.42	9.08	2.43	9.27	2.45
	41.00	5.82	1.39	6.87	1.74	7.92	2.08	8.40	2.25	8.88	2.43	9.08	2.44	9.27	2.46
	43.00	5.82	1.40	6.87	1.74	7.92	2.09	8.40	2.26	8.88	2.44	9.08	2.45	9.27	2.47
50%	10.00	4.85	0.57	5.72	0.71	6.60	0.85	7.00	0.92	7.40	0.99	7.56	0.99	7.72	1.00
	12.00	4.85	0.58	5.72	0.72	6.60	0.86	7.00	0.94	7.40	1.01	7.56	1.01	7.72	1.02
	14.00	4.85	0.59	5.72	0.73	6.60	0.88	7.00	0.95	7.40	1.03	7.56	1.03	7.72	1.04
	16.00	4.85	0.60	5.72	0.75	6.60	0.89	7.00	0.97	7.40	1.05	7.56	1.05	7.72	1.06
	18.00	4.85	0.61	5.72	0.76	6.60	0.91	7.00	0.99	7.40	1.06	7.56	1.07	7.72	1.08
	19.00	4.85	0.62	5.72	0.77	6.60	0.93	7.00	1.00	7.40	1.08	7.56	1.09	7.72	1.10
	21.00	4.85	0.67	5.72	0.83	6.60	0.99	7.00	1.08	7.40	1.16	7.56	1.16	7.72	1.17
	23.00	4.85	0.71	5.72	0.89	6.60	1.06	7.00	1.15	7.40	1.24	7.56	1.25	7.72	1.26
	25.00	4.85	0.76	5.72	0.95	6.60	1.14	7.00	1.23	7.40	1.33	7.56	1.33	7.72	1.35
	27.00	4.85	0.81	5.72	1.02	6.60	1.22	7.00	1.32	7.40	1.42	7.56	1.43	7.72	1.44
	29.00	4.85	0.87	5.72	1.08	6.60	1.30	7.00	1.41	7.40	1.52	7.56	1.52	7.72	1.54
	31.00	4.85	0.93	5.72	1.16	6.60	1.38	7.00	1.50	7.40	1.62	7.56	1.62	7.72	1.64
	33.00	4.85	0.99	5.72	1.23	6.60	1.47	7.00	1.60	7.40	1.72	7.56	1.73	7.72	1.75
	35.00	4.85	1.05	5.72	1.31	6.60	1.57	7.00	1.70	7.40	1.83	7.56	1.84	7.72	1.86
	37.00	4.85	1.12	5.72	1.39	6.60	1.67	7.00	1.81	7.40	1.95	7.56	1.96	7.72	1.98
	39.00	4.85	1.12	5.72	1.40	6.60	1.68	7.00	1.82	7.40	1.96	7.56	1.97	7.72	1.98
	41.00	4.85	1.13	5.72	1.41	6.60	1.68	7.00	1.83	7.40	1.97	7.56	1.97	7.72	1.99
	43.00	4.85	1.13	5.72	1.41	6.60	1.69	7.00	1.83	7.40	1.98	7.56	1.98	7.72	2.00

Heating

Combination (Capacity index)	Outdoor air temp.		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
130%	-14.7	-15	10.83	3.61	10.83	3.69	10.83	3.77	10.40	3.60	9.97	3.44	9.11	3.11
	-12.6	-13	11.43	3.67	11.43	3.75	11.43	3.83	10.97	3.66	10.52	3.49	9.61	3.16
	-10.5	-11	12.03	3.73	12.03	3.81	12.03	3.89	11.55	3.72	11.08	3.55	10.12	3.21
	-9.5	-10	12.32	3.76	12.32	3.84	12.32	3.92	11.83	3.75	11.34	3.58	10.36	3.23
	-8.5	-9.1	12.60	3.79	12.60	3.87	12.60	3.95	12.10	3.78	11.60	3.60	10.60	3.26
	-7	-7.6	13.03	3.83	13.03	3.91	13.03	3.99	12.52	3.82	12.00	3.64	10.97	3.29
	-5	-5.6	13.61	3.89	13.61	3.97	13.61	4.05	13.07	3.88	12.53	3.70	11.45	3.34
	-3	-3.7	14.18	3.95	14.18	4.03	14.18	4.11	13.62	3.93	13.06	3.75	11.93	3.39
	0	-0.7	15.04	4.03	15.04	4.12	15.04	4.20	14.45	4.02	13.85	3.83	12.65	3.47
	3	2.2	15.90	4.12	15.90	4.20	15.90	4.29	15.27	4.10	14.64	3.92	13.38	3.54
	5	4.1	16.48	4.17	16.48	4.26	16.48	4.35	15.82	4.16	15.17	3.97	13.86	3.59
	7	6	17.05	4.23	17.05	4.32	17.05	4.41	16.37	4.22	15.70	4.02	14.34	3.64
	9	7.9	17.05	4.09	17.05	4.17	17.05	4.26	16.37	4.08	15.70	3.89	14.34	3.51
	11	9.8	17.05	3.95	17.05	4.03	17.05	4.11	16.37	3.93	15.70	3.75	14.34	3.39
	13	11.8	17.05	3.80	17.05	3.88	17.05	3.97	16.37	3.79	15.70	3.62	14.34	3.27
	15	13.7	17.05	3.66	17.05	3.74	17.05	3.82	16.37	3.65	15.70	3.48	14.34	3.15
120%	-14.7	-15	10.83	3.72	10.83	3.80	10.83	3.88	10.40	3.71	9.97	3.54	9.11	3.20
	-12.6	-13	11.43	3.78	11.43	3.86	11.43	3.94	10.97	3.77	10.52	3.60	9.61	3.25
	-10.5	-11	12.03	3.84	12.03	3.92	12.03	4.01	11.55	3.83	11.08	3.65	10.12	3.30
	-9.5	-10	12.32	3.87	12.32	3.95	12.32	4.04	11.83	3.86	11.34	3.68	10.36	3.33
	-8.5	-9.1	12.60	3.90	12.60	3.98	12.60	4.07	12.10	3.89	11.60	3.71	10.60	3.35
	-7	-7.6	13.03	3.94	13.03	4.03	13.03	4.11	12.52	3.93	12.00	3.75	10.97	3.39
	-5	-5.6	13.61	4.00	13.61	4.09	13.61	4.17	13.07	3.99	12.53	3.81	11.45	3.44
	-3	-3.7	14.18	4.06	14.18	4.15	14.18	4.23	13.62	4.05	13.06	3.86	11.93	3.49
	0	-0.7	15.04	4.15	15.04	4.24	15.04	4.33	14.45	4.14	13.85	3.95	12.65	3.57
	3	2.2	15.90	4.24	15.90	4.33	15.90	4.42	15.27	4.22	14.64	4.03	13.38	3.64
	5	4.1	16.48	4.30	16.48	4.39	16.48	4.48	15.82	4.28	15.17	4.09	13.86	3.69
	7	6	17.05	4.35	17.05	4.45	17.05	4.54	16.37	4.34	15.70	4.14	14.34	3.74
	9	7.9	17.05	4.21	17.05	4.30	17.05	4.39	16.37	4.19	15.70	4.00	14.34	3.62
	11	9.8	17.05	4.06	17.05	4.15	17.05	4.23	16.37	4.05	15.70	3.86	14.34	3.49
	13	11.8	17.05	3.92	17.05	4.00	17.05	4.08	16.37	3.90	15.70	3.72	14.34	3.37
	15	13.7	17.05	3.77	17.05	3.85	17.05	3.93	16.37	3.76	15.70	3.59	14.34	3.24
110%	-14.7	-15	10.83	3.83	10.83	3.91	10.83	3.99	10.40	3.81	9.97	3.64	9.11	3.29
	-12.6	-13	11.43	3.89	11.43	3.97	11.43	4.05	10.97	3.88	10.52	3.70	9.61	3.34
	-10.5	-11	12.03	3.95	12.03	4.04	12.03	4.12	11.55	3.94	11.08	3.76	10.12	3.40
	-9.5	-10	12.32	3.98	12.32	4.07	12.32	4.15	11.83	3.97	11.34	3.79	10.36	3.42
	-8.5	-9.1	12.60	4.01	12.60	4.10	12.60	4.18	12.10	4.00	11.60	3.82	10.60	3.45
	-7	-7.6	13.03	4.06	13.03	4.14	13.03	4.23	12.52	4.04	12.00	3.86	10.97	3.49
	-5	-5.6	13.61	4.12	13.61	4.20	13.61	4.29	13.07	4.10	12.53	3.92	11.45	3.54
	-3	-3.7	14.18	4.18	14.18	4.27	14.18	4.36	13.62	4.16	13.06	3.97	11.93	3.59
	0	-0.7	15.04	4.27	15.04	4.36	15.04	4.45	14.45	4.25	13.85	4.06	12.65	3.67
	3	2.2	15.90	4.36	15.90	4.45	15.90	4.54	15.27	4.34	14.64	4.15	13.38	3.75
	5	4.1	16.48	4.42	16.48	4.51	16.48	4.61	15.82	4.40	15.17	4.20	13.86	3.80
	7	6	17.05	4.48	17.05	4.57	17.05	4.67	16.37	4.46	15.70	4.26	14.34	3.85
	9	7.9	17.05	4.33	17.05	4.42	17.05	4.51	16.37	4.31	15.70	4.12	14.34	3.72

Combination (Capacity index)	Outdoor air temp.		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
	11	9.8	17.05	4.18	17.05	4.27	17.05	4.36	16.37	4.16	15.70	3.97	14.34	3.59
	13	11.8	17.05	4.03	17.05	4.11	17.05	4.20	16.37	4.01	15.70	3.83	14.34	3.46
	15	13.7	17.05	3.88	17.05	3.96	17.05	4.04	16.37	3.86	15.70	3.69	14.34	3.33
100%	-14.7	-15	9.84	3.38	9.84	3.45	9.84	3.52	9.45	3.37	9.06	3.21	8.28	2.90
	-12.6	-13	10.39	3.43	10.39	3.50	10.39	3.58	9.98	3.42	9.56	3.26	8.74	2.95
	-10.5	-11	10.94	3.49	10.94	3.56	10.94	3.64	10.50	3.48	10.07	3.32	9.20	3.00
	-9.5	-10	11.20	3.51	11.20	3.59	11.20	3.66	10.75	3.50	10.31	3.34	9.42	3.02
	-8.5	-9.1	11.46	3.54	11.46	3.62	11.46	3.69	11.00	3.53	10.55	3.37	9.64	3.04
	-7	-7.6	11.85	3.58	11.85	3.66	11.85	3.73	11.38	3.57	10.91	3.41	9.97	3.08
	-5	-5.6	12.37	3.63	12.37	3.71	12.37	3.79	11.88	3.62	11.39	3.46	10.41	3.12
	-3	-3.7	12.89	3.69	12.89	3.76	12.89	3.84	12.38	3.67	11.87	3.51	10.85	3.17
	0	-0.7	13.67	3.77	13.67	3.85	13.67	3.93	13.13	3.75	12.59	3.58	11.50	3.24
	3	2.2	14.46	3.85	14.46	3.93	14.46	4.01	13.88	3.83	13.31	3.66	12.16	3.31
	5	4.1	14.98	3.90	14.98	3.98	14.98	4.06	14.38	3.89	13.79	3.71	12.60	3.35
	7	6	15.50	3.95	15.50	4.04	15.50	4.12	14.88	3.94	14.27	3.76	13.04	3.40
	9	7.9	15.50	3.82	15.50	3.90	15.50	3.98	14.88	3.81	14.27	3.63	13.04	3.28
	11	9.8	15.50	3.69	15.50	3.76	15.50	3.84	14.88	3.67	14.27	3.51	13.04	3.17
	13	11.8	15.50	3.55	15.50	3.63	15.50	3.70	14.88	3.54	14.27	3.38	13.04	3.06
	15	13.7	15.50	3.42	15.50	3.49	15.50	3.57	14.88	3.41	14.27	3.25	13.04	2.94
90%	-14.7	-15	8.86	2.99	8.86	3.06	8.86	3.12	8.51	2.98	8.15	2.85	7.45	2.57
	-12.6	-13	9.35	3.04	9.35	3.11	9.35	3.17	8.98	3.03	8.61	2.89	7.87	2.62
	-10.5	-11	9.84	3.09	9.84	3.16	9.84	3.22	9.45	3.08	9.06	2.94	8.28	2.66
	-9.5	-10	10.08	3.12	10.08	3.18	10.08	3.25	9.68	3.11	9.28	2.96	8.48	2.68
	-8.5	-9.1	10.31	3.14	10.31	3.21	10.31	3.27	9.90	3.13	9.49	2.99	8.68	2.70
	-7	-7.6	10.66	3.17	10.66	3.24	10.66	3.31	10.24	3.16	9.82	3.02	8.97	2.73
	-5	-5.6	11.13	3.22	11.13	3.29	11.13	3.36	10.69	3.21	10.25	3.06	9.37	2.77
	-3	-3.7	11.60	3.27	11.60	3.34	11.60	3.41	11.14	3.26	10.68	3.11	9.76	2.81
	0	-0.7	12.31	3.34	12.31	3.41	12.31	3.48	11.82	3.33	11.33	3.18	10.35	2.87
	3	2.2	13.01	3.41	13.01	3.48	13.01	3.55	12.49	3.40	11.98	3.24	10.95	2.93
	5	4.1	13.48	3.46	13.48	3.53	13.48	3.60	12.95	3.45	12.41	3.29	11.34	2.97
	7	6	13.95	3.50	13.95	3.58	13.95	3.65	13.40	3.49	12.84	3.33	11.74	3.01
	9	7.9	13.95	3.39	13.95	3.46	13.95	3.53	13.40	3.38	12.84	3.22	11.74	2.91
	11	9.8	13.95	3.27	13.95	3.34	13.95	3.41	13.40	3.26	12.84	3.11	11.74	2.81
	13	11.8	13.95	3.15	13.95	3.22	13.95	3.29	13.40	3.14	12.84	3.00	11.74	2.71
	15	13.7	13.95	3.03	13.95	3.10	13.95	3.16	13.40	3.02	12.84	2.89	11.74	2.61
80%	-14.7	-15	7.87	2.63	7.87	2.68	7.87	2.74	7.56	2.62	7.25	2.50	6.62	2.26
	-12.6	-13	8.31	2.67	8.31	2.73	8.31	2.79	7.98	2.66	7.65	2.54	6.99	2.30
	-10.5	-11	8.75	2.71	8.75	2.77	8.75	2.83	8.40	2.71	8.05	2.58	7.36	2.33
	-9.5	-10	8.96	2.74	8.96	2.79	8.96	2.85	8.60	2.73	8.25	2.60	7.54	2.35
	-8.5	-9.1	9.17	2.76	9.17	2.81	9.17	2.87	8.80	2.75	8.44	2.62	7.71	2.37
	-7	-7.6	9.48	2.79	9.48	2.85	9.48	2.91	9.10	2.78	8.73	2.65	7.97	2.40
	-5	-5.6	9.90	2.83	9.90	2.89	9.90	2.95	9.50	2.82	9.11	2.69	8.33	2.43
	-3	-3.7	10.31	2.87	10.31	2.93	10.31	2.99	9.90	2.86	9.50	2.73	8.68	2.47
	0	-0.7	10.94	2.93	10.94	2.99	10.94	3.06	10.51	2.92	10.07	2.79	9.20	2.52
	3	2.2	11.57	2.99	11.57	3.06	11.57	3.12	11.11	2.98	10.65	2.85	9.73	2.57
	5	4.1	11.98	3.04	11.98	3.10	11.98	3.16	11.51	3.03	11.03	2.89	10.08	2.61

Combination (Capacity index)	Outdoor air temp.		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
	7	6	12.40	3.08	12.40	3.14	12.40	3.21	11.91	3.07	11.42	2.93	10.43	2.65
	9	7.9	12.40	2.97	12.40	3.04	12.40	3.10	11.91	2.96	11.42	2.83	10.43	2.56
	11	9.8	12.40	2.87	12.40	2.93	12.40	2.99	11.91	2.86	11.42	2.73	10.43	2.47
	13	11.8	12.40	2.77	12.40	2.83	12.40	2.88	11.91	2.76	11.42	2.63	10.43	2.38
	15	13.7	12.40	2.66	12.40	2.72	12.40	2.78	11.91	2.66	11.42	2.53	10.43	2.29
70%	-14.7	-15	6.89	2.26	6.89	2.31	6.89	2.36	6.62	2.26	6.34	2.15	5.80	1.95
	-12.6	-13	7.27	2.30	7.27	2.35	7.27	2.40	6.98	2.29	6.70	2.19	6.12	1.98
	-10.5	-11	7.66	2.34	7.66	2.39	7.66	2.44	7.35	2.33	7.05	2.22	6.44	2.01
	-9.5	-10	7.84	2.36	7.84	2.41	7.84	2.46	7.53	2.35	7.22	2.24	6.59	2.03
	-8.5	-9.1	8.02	2.37	8.02	2.42	8.02	2.47	7.70	2.37	7.38	2.26	6.75	2.04
	-7	-7.6	8.29	2.40	8.29	2.45	8.29	2.50	7.97	2.39	7.64	2.28	6.98	2.06
	-5	-5.6	8.66	2.44	8.66	2.49	8.66	2.54	8.32	2.43	7.97	2.32	7.29	2.09
	-3	-3.7	9.02	2.47	9.02	2.52	9.02	2.58	8.67	2.46	8.31	2.35	7.59	2.13
	0	-0.7	9.57	2.52	9.57	2.58	9.57	2.63	9.19	2.52	8.81	2.40	8.05	2.17
	3	2.2	10.12	2.58	10.12	2.63	10.12	2.69	9.72	2.57	9.32	2.45	8.51	2.22
	5	4.1	10.48	2.61	10.48	2.67	10.48	2.73	10.07	2.61	9.65	2.49	8.82	2.25
	7	6	10.85	2.65	10.85	2.71	10.85	2.76	10.42	2.64	9.99	2.52	9.13	2.28
	9	7.9	10.85	2.56	10.85	2.62	10.85	2.67	10.42	2.55	9.99	2.44	9.13	2.20
	11	9.8	10.85	2.47	10.85	2.52	10.85	2.58	10.42	2.46	9.99	2.35	9.13	2.13
	13	11.8	10.85	2.38	10.85	2.43	10.85	2.48	10.42	2.38	9.99	2.27	9.13	2.05
	15	13.7	10.85	2.29	10.85	2.34	10.85	2.39	10.42	2.29	9.99	2.18	9.13	1.97
60%	-14.7	-15	5.90	1.90	5.90	1.94	5.90	1.98	5.67	1.89	5.44	1.81	4.97	1.63
	-12.6	-13	6.23	1.93	6.23	1.97	6.23	2.01	5.99	1.92	5.74	1.84	5.24	1.66
	-10.5	-11	6.56	1.96	6.56	2.00	6.56	2.04	6.30	1.96	6.04	1.87	5.52	1.69
	-9.5	-10	6.72	1.98	6.72	2.02	6.72	2.06	6.45	1.97	6.19	1.88	5.65	1.70
	-8.5	-9.1	6.87	1.99	6.87	2.03	6.87	2.08	6.60	1.98	6.33	1.89	5.78	1.71
	-7	-7.6	7.11	2.01	7.11	2.06	7.11	2.10	6.83	2.01	6.55	1.92	5.98	1.73
	-5	-5.6	7.42	2.04	7.42	2.09	7.42	2.13	7.13	2.04	6.83	1.94	6.24	1.76
	-3	-3.7	7.74	2.07	7.74	2.12	7.74	2.16	7.43	2.07	7.12	1.97	6.51	1.78
	0	-0.7	8.20	2.12	8.20	2.16	8.20	2.21	7.88	2.11	7.55	2.01	6.90	1.82
	3	2.2	8.67	2.16	8.67	2.21	8.67	2.25	8.33	2.16	7.99	2.06	7.30	1.86
	5	4.1	8.99	2.19	8.99	2.24	8.99	2.29	8.63	2.19	8.27	2.09	7.56	1.89
	7	6	9.30	2.22	9.30	2.27	9.30	2.32	8.93	2.22	8.56	2.11	7.82	1.91
	9	7.9	9.30	2.15	9.30	2.19	9.30	2.24	8.93	2.14	8.56	2.04	7.82	1.85
	11	9.8	9.30	2.07	9.30	2.12	9.30	2.16	8.93	2.07	8.56	1.97	7.82	1.78
	13	11.8	9.30	2.00	9.30	2.04	9.30	2.08	8.93	1.99	8.56	1.90	7.82	1.72
	15	13.7	9.30	1.92	9.30	1.96	9.30	2.01	8.93	1.92	8.56	1.83	7.82	1.65
50%	-14.7	-15	4.92	1.53	4.92	1.57	4.92	1.60	4.73	1.53	4.53	1.46	4.14	1.32
	-12.6	-13	5.19	1.56	5.19	1.59	5.19	1.63	4.99	1.55	4.78	1.48	4.37	1.34
	-10.5	-11	5.47	1.58	5.47	1.62	5.47	1.65	5.25	1.58	5.03	1.51	4.60	1.36
	-9.5	-10	5.60	1.60	5.60	1.63	5.60	1.66	5.38	1.59	5.15	1.52	4.71	1.37
	-8.5	-9.1	5.73	1.61	5.73	1.64	5.73	1.68	5.50	1.60	5.27	1.53	4.82	1.38
	-7	-7.6	5.92	1.63	5.92	1.66	5.92	1.70	5.69	1.62	5.45	1.55	4.98	1.40
	-5	-5.6	6.19	1.65	6.19	1.69	6.19	1.72	5.94	1.65	5.69	1.57	5.20	1.42
	-3	-3.7	6.45	1.67	6.45	1.71	6.45	1.75	6.19	1.67	5.93	1.59	5.42	1.44
	0	-0.7	6.84	1.71	6.84	1.75	6.84	1.78	6.57	1.71	6.29	1.63	5.75	1.47

Combination (Capacity index)	Outdoor air temp.		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
	3	2.2	7.23	1.75	7.23	1.78	7.23	1.82	6.94	1.74	6.65	1.66	6.08	1.50
	5	4.1	7.49	1.77	7.49	1.81	7.49	1.85	7.19	1.77	6.89	1.68	6.30	1.52
	7	6	7.75	1.80	7.75	1.83	7.75	1.87	7.44	1.79	7.13	1.71	6.52	1.54
	9	7.9	7.75	1.73	7.75	1.77	7.75	1.81	7.44	1.73	7.13	1.65	6.52	1.49
	11	9.8	7.75	1.67	7.75	1.71	7.75	1.75	7.44	1.67	7.13	1.59	6.52	1.44
	13	11.8	7.75	1.61	7.75	1.65	7.75	1.68	7.44	1.61	7.13	1.54	6.52	1.39
	15	13.7	7.75	1.55	7.75	1.59	7.75	1.62	7.44	1.55	7.13	1.48	6.52	1.34

MDVi -V160W/SN1
Cooling

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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%	10.00	12.15	1.68	14.34	2.09	16.53	2.50	17.54	2.71	18.55	2.93	18.95	2.93	19.36	2.96
	12.00	12.15	1.71	14.34	2.13	16.53	2.55	17.54	2.76	18.55	2.98	18.95	2.99	19.36	3.02
	14.00	12.15	1.74	14.34	2.17	16.53	2.59	17.54	2.81	18.55	3.03	18.95	3.04	19.36	3.07
	16.00	12.15	1.77	14.34	2.21	16.53	2.64	17.54	2.86	18.55	3.09	18.95	3.10	19.36	3.13
	18.00	12.15	1.80	14.34	2.24	16.53	2.69	17.54	2.91	18.55	3.14	18.95	3.15	19.36	3.18
	19.00	12.15	1.83	14.34	2.28	16.53	2.73	17.54	2.96	18.55	3.20	18.95	3.21	19.36	3.24
	21.00	12.15	1.96	14.34	2.45	16.53	2.93	17.54	3.18	18.55	3.43	18.95	3.44	19.36	3.47
	23.00	12.15	2.10	14.34	2.62	16.53	3.14	17.54	3.40	18.55	3.67	18.95	3.68	19.36	3.72
	25.00	12.15	1.58	14.34	2.81	16.53	3.36	17.54	3.64	18.55	3.93	18.95	3.94	19.36	3.98
	27.00	12.15	2.41	14.34	3.00	16.53	3.59	17.54	3.89	18.55	4.20	18.95	4.21	19.36	4.25
	29.00	12.15	2.57	14.34	3.20	16.53	3.83	17.54	4.16	18.55	4.48	18.95	4.50	19.36	4.54
	31.00	12.15	2.74	14.34	3.41	16.53	4.09	17.54	4.43	18.55	4.78	18.95	4.80	19.36	4.84
	33.00	12.15	2.92	14.34	3.64	16.53	4.36	17.54	4.72	18.55	5.09	18.95	5.11	19.36	5.16
	35.00	12.15	3.11	14.34	3.87	16.53	4.63	17.54	5.03	18.55	5.42	18.95	5.43	19.36	5.49
	37.00	12.15	3.30	14.34	4.12	16.53	4.93	17.54	5.34	18.55	5.76	18.95	5.78	19.36	5.84
	39.00	12.15	3.32	14.34	4.13	16.53	4.95	17.54	5.37	18.55	5.79	18.95	5.80	19.36	5.86
	41.00	12.15	3.33	14.34	4.15	16.53	4.97	17.54	5.39	18.55	5.81	18.95	5.83	19.36	5.89
	43.00	12.15	3.35	14.34	4.17	16.53	4.99	17.54	5.42	18.55	5.84	18.95	5.86	19.36	5.91
120%	10.00	11.95	1.66	14.11	2.07	16.26	2.48	17.26	2.69	18.25	2.90	18.65	2.91	19.04	2.93
	12.00	11.95	1.69	14.11	2.11	16.26	2.52	17.26	2.74	18.25	2.95	18.65	2.96	19.04	2.99
	14.00	11.95	1.72	14.11	2.15	16.26	2.57	17.26	2.79	18.25	3.00	18.65	3.01	19.04	3.04
	16.00	11.95	1.75	14.11	2.18	16.26	2.62	17.26	2.84	18.25	3.06	18.65	3.07	19.04	3.10
	18.00	11.95	1.78	14.11	2.22	16.26	2.66	17.26	2.89	18.25	3.11	18.65	3.12	19.04	3.15
	19.00	11.95	1.81	14.11	2.26	16.26	2.71	17.26	2.94	18.25	3.17	18.65	3.17	19.04	3.21
	21.00	11.95	1.95	14.11	2.42	16.26	2.90	17.26	3.15	18.25	3.39	18.65	3.40	19.04	3.44
	23.00	11.95	2.08	14.11	2.60	16.26	3.11	17.26	3.37	18.25	3.63	18.65	3.65	19.04	3.68
	25.00	11.95	2.23	14.11	2.78	16.26	3.33	17.26	3.61	18.25	3.89	18.65	3.90	19.04	3.94
	27.00	11.95	2.38	14.11	2.97	16.26	3.56	17.26	3.86	18.25	4.16	18.65	4.17	19.04	4.21
	29.00	11.95	2.55	14.11	3.17	16.26	3.80	17.26	4.12	18.25	4.44	18.65	4.45	19.04	4.50
	31.00	11.95	2.71	14.11	3.38	16.26	4.05	17.26	4.39	18.25	4.73	18.65	4.75	19.04	4.80
	33.00	11.95	2.89	14.11	3.60	16.26	4.31	17.26	4.68	18.25	5.04	18.65	5.06	19.04	5.11
	35.00	11.95	3.08	14.11	3.83	16.26	4.59	17.26	4.98	18.25	5.36	18.65	5.38	19.04	5.43
	37.00	11.95	3.27	14.11	4.08	16.26	4.88	17.26	5.29	18.25	5.71	18.65	5.72	19.04	5.78
	39.00	11.95	3.29	14.11	4.09	16.26	4.90	17.26	5.32	18.25	5.73	18.65	5.75	19.04	5.80
	41.00	11.95	3.30	14.11	4.11	16.26	4.92	17.26	5.34	18.25	5.76	18.65	5.77	19.04	5.83
	43.00	11.95	3.32	14.11	4.13	16.26	4.95	17.26	5.36	18.25	5.78	18.65	5.80	19.04	5.86
110%	10.00	11.76	0.84	13.88	1.05	16.00	1.25	16.98	1.36	17.95	1.46	18.34	1.47	18.73	1.48
	12.00	11.76	0.86	13.88	1.07	16.00	1.28	16.98	1.38	17.95	1.49	18.34	1.50	18.73	1.51
	14.00	11.76	0.87	13.88	1.08	16.00	1.30	16.98	1.41	17.95	1.52	18.34	1.52	18.73	1.54
	16.00	11.76	0.89	13.88	1.10	16.00	1.32	16.98	1.43	17.95	1.55	18.34	1.55	18.73	1.57
	18.00	11.76	0.90	13.88	1.12	16.00	1.35	16.98	1.46	17.95	1.57	18.34	1.58	18.73	1.59
	19.00	11.76	0.92	13.88	1.14	16.00	1.37	16.98	1.48	17.95	1.60	18.34	1.61	18.73	1.62
	21.00	11.76	0.98	13.88	1.23	16.00	1.47	16.98	1.59	17.95	1.72	18.34	1.72	18.73	1.74
	23.00	11.76	1.05	13.88	1.31	16.00	1.57	16.98	1.70	17.95	1.84	18.34	1.84	18.73	1.86
	25.00	11.76	1.13	13.88	1.40	16.00	1.68	16.98	1.82	17.95	1.97	18.34	1.97	18.73	1.99

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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
	27.00	11.76	1.21	13.88	1.50	16.00	1.80	16.98	1.95	17.95	2.10	18.34	2.11	18.73	2.13
	29.00	11.76	1.29	13.88	1.60	16.00	1.92	16.98	2.08	17.95	2.24	18.34	2.25	18.73	2.27
	31.00	11.76	1.37	13.88	1.71	16.00	2.05	16.98	2.22	17.95	2.39	18.34	2.40	18.73	2.42
	33.00	11.76	1.46	13.88	1.82	16.00	2.18	16.98	2.37	17.95	2.55	18.34	2.56	18.73	2.58
	35.00	11.76	1.56	13.88	1.94	16.00	2.32	16.98	2.52	17.95	2.71	18.34	2.72	18.73	2.75
	37.00	11.76	1.65	13.88	2.06	16.00	2.47	16.98	2.68	17.95	2.88	18.34	2.89	18.73	2.92
	39.00	11.76	1.66	13.88	2.07	16.00	2.48	16.98	2.69	17.95	2.90	18.34	2.91	18.73	2.93
	41.00	11.76	1.67	13.88	2.08	16.00	2.49	16.98	2.70	17.95	2.91	18.34	2.92	18.73	2.95
	43.00	11.76	1.68	13.88	2.09	16.00	2.50	16.98	2.71	17.95	2.92	18.34	2.93	18.73	2.96
100%	10.00	11.08	1.54	13.08	1.91	15.08	2.29	16.00	2.48	16.92	2.68	17.29	2.69	17.66	2.71
	12.00	11.08	1.56	13.08	1.95	15.08	2.33	16.00	2.53	16.92	2.73	17.29	2.74	17.66	2.76
	14.00	11.08	1.59	13.08	1.98	15.08	2.38	16.00	2.58	16.92	2.78	17.29	2.79	17.66	2.81
	16.00	11.08	1.62	13.08	2.02	15.08	2.42	16.00	2.62	16.92	2.83	17.29	2.84	17.66	2.86
	18.00	11.08	1.65	13.08	2.05	15.08	2.46	16.00	2.67	16.92	2.88	17.29	2.88	17.66	2.91
	19.00	11.08	1.68	13.08	2.09	15.08	2.50	16.00	2.71	16.92	2.93	17.29	2.93	17.66	2.96
	21.00	11.08	1.80	13.08	2.24	15.08	2.68	16.00	2.91	16.92	3.14	17.29	3.15	17.66	3.18
	23.00	11.08	1.93	13.08	2.40	15.08	2.87	16.00	3.12	16.92	3.36	17.29	3.37	17.66	3.40
	25.00	11.08	2.06	13.08	2.57	15.08	3.07	16.00	3.34	16.92	3.60	17.29	3.61	17.66	3.64
	27.00	11.08	2.20	13.08	2.75	15.08	3.29	16.00	3.57	16.92	3.84	17.29	3.85	17.66	3.89
	29.00	11.08	2.35	13.08	2.93	15.08	3.51	16.00	3.81	16.92	4.10	17.29	4.12	17.66	4.16
	31.00	11.08	2.51	13.08	3.13	15.08	3.74	16.00	4.06	16.92	4.38	17.29	4.39	17.66	4.43
	33.00	11.08	2.67	13.08	3.33	15.08	3.99	16.00	4.32	16.92	4.66	17.29	4.68	17.66	4.72
	35.00	11.08	2.84	13.08	3.54	15.08	4.24	16.00	4.60	16.92	4.96	17.29	4.97	17.66	5.02
	37.00	11.08	3.02	13.08	3.77	15.08	4.51	16.00	4.89	16.92	5.27	17.29	5.29	17.66	5.34
	39.00	11.08	3.04	13.08	3.78	15.08	4.53	16.00	4.91	16.92	5.30	17.29	5.31	17.66	5.36
	41.00	11.08	3.05	13.08	3.80	15.08	4.55	16.00	4.94	16.92	5.32	17.29	5.34	17.66	5.39
	43.00	11.08	3.06	13.08	3.82	15.08	4.57	16.00	4.96	16.92	5.35	17.29	5.36	17.66	5.41
90%	10.00	9.97	1.33	11.77	1.65	13.57	1.98	14.40	2.15	15.23	2.31	15.56	2.32	15.89	2.34
	12.00	9.97	1.35	11.77	1.68	13.57	2.02	14.40	2.19	15.23	2.36	15.56	2.37	15.89	2.39
	14.00	9.97	1.38	11.77	1.71	13.57	2.05	14.40	2.23	15.23	2.40	15.56	2.41	15.89	2.43
	16.00	9.97	1.40	11.77	1.75	13.57	2.09	14.40	2.27	15.23	2.44	15.56	2.45	15.89	2.47
	18.00	9.97	1.43	11.77	1.78	13.57	2.13	14.40	2.31	15.23	2.49	15.56	2.49	15.89	2.52
	19.00	9.97	1.45	11.77	1.81	13.57	2.16	14.40	2.35	15.23	2.53	15.56	2.54	15.89	2.56
	21.00	9.97	1.55	11.77	1.94	13.57	2.32	14.40	2.52	15.23	2.71	15.56	2.72	15.89	2.75
	23.00	9.97	1.67	11.77	2.07	13.57	2.48	14.40	2.69	15.23	2.90	15.56	2.91	15.89	2.94
	25.00	9.97	1.78	11.77	2.22	13.57	2.66	14.40	2.88	15.23	3.11	15.56	3.12	15.89	3.15
	27.00	9.97	1.90	11.77	2.37	13.57	2.84	14.40	3.08	15.23	3.32	15.56	3.33	15.89	3.36
	29.00	9.97	2.03	11.77	2.53	13.57	3.03	14.40	3.29	15.23	3.55	15.56	3.56	15.89	3.59
	31.00	9.97	2.17	11.77	2.70	13.57	3.24	14.40	3.51	15.23	3.78	15.56	3.79	15.89	3.83
	33.00	9.97	2.31	11.77	2.88	13.57	3.45	14.40	3.74	15.23	4.03	15.56	4.04	15.89	4.08
	35.00	9.97	2.46	11.77	3.06	13.57	3.67	14.40	3.98	15.23	4.29	15.56	4.30	15.89	4.34
	37.00	9.97	2.61	11.77	3.26	13.57	3.90	14.40	4.23	15.23	4.56	15.56	4.57	15.89	4.62
	39.00	9.97	2.63	11.77	3.27	13.57	3.92	14.40	4.25	15.23	4.58	15.56	4.59	15.89	4.64
	41.00	9.97	2.64	11.77	3.29	13.57	3.93	14.40	4.27	15.23	4.60	15.56	4.61	15.89	4.66
	43.00	9.97	2.65	11.77	3.30	13.57	3.95	14.40	4.29	15.23	4.62	15.56	4.64	15.89	4.68
80%	10.00	8.86	1.13	10.46	1.41	12.06	1.69	12.80	1.83	13.54	1.98	13.83	1.98	14.12	2.00

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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
	12.00	8.86	1.15	10.46	1.44	12.06	1.72	12.80	1.87	13.54	2.01	13.83	2.02	14.12	2.04
	14.00	8.86	1.18	10.46	1.46	12.06	1.75	12.80	1.90	13.54	2.05	13.83	2.06	14.12	2.08
	16.00	8.86	1.20	10.46	1.49	12.06	1.79	12.80	1.94	13.54	2.09	13.83	2.09	14.12	2.11
	18.00	8.86	1.22	10.46	1.52	12.06	1.82	12.80	1.97	13.54	2.12	13.83	2.13	14.12	2.15
	19.00	8.86	1.24	10.46	1.54	12.06	1.85	12.80	2.00	13.54	2.16	13.83	2.17	14.12	2.19
	21.00	8.86	1.33	10.46	1.65	12.06	1.98	12.80	2.15	13.54	2.32	13.83	2.32	14.12	2.35
	23.00	8.86	1.42	10.46	1.77	12.06	2.12	12.80	2.30	13.54	2.48	13.83	2.49	14.12	2.51
	25.00	8.86	1.52	10.46	1.90	12.06	2.27	12.80	2.46	13.54	2.65	13.83	2.66	14.12	2.69
	27.00	8.86	1.63	10.46	2.03	12.06	2.43	12.80	2.63	13.54	2.84	13.83	2.85	14.12	2.87
	29.00	8.86	1.74	10.46	2.16	12.06	2.59	12.80	2.81	13.54	3.03	13.83	3.04	14.12	3.07
	31.00	8.86	1.85	10.46	2.31	12.06	2.76	12.80	3.00	13.54	3.23	13.83	3.24	14.12	3.27
	33.00	8.86	1.97	10.46	2.46	12.06	2.94	12.80	3.19	13.54	3.44	13.83	3.45	14.12	3.49
	35.00	8.86	2.10	10.46	2.62	12.06	3.13	12.80	3.40	13.54	3.66	13.83	3.67	14.12	3.71
	37.00	8.86	2.23	10.46	2.78	12.06	3.33	12.80	3.61	13.54	3.89	13.83	3.91	14.12	3.94
	39.00	8.86	2.24	10.46	2.79	12.06	3.35	12.80	3.63	13.54	3.91	13.83	3.92	14.12	3.96
	41.00	8.86	2.25	10.46	2.81	12.06	3.36	12.80	3.64	13.54	3.93	13.83	3.94	14.12	3.98
	43.00	8.86	2.26	10.46	2.82	12.06	3.38	12.80	3.66	13.54	3.95	13.83	3.96	14.12	4.00
70%	10.00	7.76	0.95	9.16	1.19	10.56	1.42	11.20	1.54	11.84	1.67	12.10	1.67	12.36	1.69
	12.00	7.76	0.97	9.16	1.21	10.56	1.45	11.20	1.57	11.84	1.70	12.10	1.70	12.36	1.72
	14.00	7.76	0.99	9.16	1.23	10.56	1.48	11.20	1.60	11.84	1.73	12.10	1.73	12.36	1.75
	16.00	7.76	1.01	9.16	1.26	10.56	1.50	11.20	1.63	11.84	1.76	12.10	1.76	12.36	1.78
	18.00	7.76	1.03	9.16	1.28	10.56	1.53	11.20	1.66	11.84	1.79	12.10	1.79	12.36	1.81
	19.00	7.76	1.04	9.16	1.30	10.56	1.56	11.20	1.69	11.84	1.82	12.10	1.82	12.36	1.84
	21.00	7.76	1.12	9.16	1.39	10.56	1.67	11.20	1.81	11.84	1.95	12.10	1.96	12.36	1.98
	23.00	7.76	1.20	9.16	1.49	10.56	1.79	11.20	1.94	11.84	2.09	12.10	2.10	12.36	2.12
	25.00	7.76	1.28	9.16	1.60	10.56	1.91	11.20	2.07	11.84	2.24	12.10	2.24	12.36	2.26
	27.00	7.76	1.37	9.16	1.71	10.56	2.04	11.20	2.22	11.84	2.39	12.10	2.40	12.36	2.42
	29.00	7.76	1.46	9.16	1.82	10.56	2.18	11.20	2.37	11.84	2.55	12.10	2.56	12.36	2.58
	31.00	7.76	1.56	9.16	1.94	10.56	2.33	11.20	2.52	11.84	2.72	12.10	2.73	12.36	2.76
	33.00	7.76	1.66	9.16	2.07	10.56	2.48	11.20	2.69	11.84	2.90	12.10	2.91	12.36	2.94
	35.00	7.76	1.77	9.16	2.20	10.56	2.64	11.20	2.86	11.84	3.08	12.10	3.09	12.36	3.12
	37.00	7.76	1.88	9.16	2.34	10.56	2.81	11.20	3.04	11.84	3.28	12.10	3.29	12.36	3.32
	39.00	7.76	1.89	9.16	2.35	10.56	2.82	11.20	3.06	11.84	3.29	12.10	3.30	12.36	3.34
	41.00	7.76	1.90	9.16	2.36	10.56	2.83	11.20	3.07	11.84	3.31	12.10	3.32	12.36	3.35
	43.00	7.76	1.91	9.16	2.37	10.56	2.84	11.20	3.08	11.84	3.32	12.10	3.33	12.36	3.37
60%	10.00	6.65	0.79	7.85	0.98	9.05	1.18	9.60	1.28	10.15	1.38	10.37	1.38	10.59	1.40
	12.00	6.65	0.80	7.85	1.00	9.05	1.20	9.60	1.30	10.15	1.40	10.37	1.41	10.59	1.42
	14.00	6.65	0.82	7.85	1.02	9.05	1.22	9.60	1.33	10.15	1.43	10.37	1.43	10.59	1.45
	16.00	6.65	0.83	7.85	1.04	9.05	1.24	9.60	1.35	10.15	1.45	10.37	1.46	10.59	1.47
	18.00	6.65	0.85	7.85	1.06	9.05	1.27	9.60	1.37	10.15	1.48	10.37	1.48	10.59	1.50
	19.00	6.65	0.86	7.85	1.08	9.05	1.29	9.60	1.40	10.15	1.51	10.37	1.51	10.59	1.53
	21.00	6.65	0.93	7.85	1.15	9.05	1.38	9.60	1.50	10.15	1.61	10.37	1.62	10.59	1.63
	23.00	6.65	0.99	7.85	1.24	9.05	1.48	9.60	1.60	10.15	1.73	10.37	1.73	10.59	1.75
	25.00	6.65	1.06	7.85	1.32	9.05	1.58	9.60	1.72	10.15	1.85	10.37	1.86	10.59	1.87
	27.00	6.65	1.13	7.85	1.41	9.05	1.69	9.60	1.83	10.15	1.98	10.37	1.98	10.59	2.00
	29.00	6.65	1.21	7.85	1.51	9.05	1.81	9.60	1.96	10.15	2.11	10.37	2.12	10.59	2.14

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		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
	31.00	6.65	1.29	7.85	1.61	9.05	1.93	9.60	2.09	10.15	2.25	10.37	2.26	10.59	2.28
	33.00	6.65	1.38	7.85	1.71	9.05	2.05	9.60	2.23	10.15	2.40	10.37	2.41	10.59	2.43
	35.00	6.65	1.46	7.85	1.82	9.05	2.18	9.60	2.37	10.15	2.55	10.37	2.56	10.59	2.58
	37.00	6.65	1.56	7.85	1.94	9.05	2.32	9.60	2.52	10.15	2.71	10.37	2.72	10.59	2.75
	39.00	6.65	1.56	7.85	1.95	9.05	2.33	9.60	2.53	10.15	2.73	10.37	2.73	10.59	2.76
	41.00	6.65	1.57	7.85	1.96	9.05	2.34	9.60	2.54	10.15	2.74	10.37	2.75	10.59	2.77
	43.00	6.65	1.58	7.85	1.97	9.05	2.35	9.60	2.55	10.15	2.75	10.37	2.76	10.59	2.79
50%	10.00	5.54	0.64	6.54	0.80	7.54	0.96	8.00	1.04	8.46	1.12	8.64	1.12	8.83	1.13
	12.00	5.54	0.65	6.54	0.81	7.54	0.97	8.00	1.06	8.46	1.14	8.64	1.14	8.83	1.15
	14.00	5.54	0.66	6.54	0.83	7.54	0.99	8.00	1.07	8.46	1.16	8.64	1.16	8.83	1.17
	16.00	5.54	0.68	6.54	0.84	7.54	1.01	8.00	1.09	8.46	1.18	8.64	1.18	8.83	1.19
	18.00	5.54	0.69	6.54	0.86	7.54	1.03	8.00	1.11	8.46	1.20	8.64	1.20	8.83	1.21
	19.00	5.54	0.70	6.54	0.87	7.54	1.04	8.00	1.13	8.46	1.22	8.64	1.22	8.83	1.24
	21.00	5.54	0.75	6.54	0.93	7.54	1.12	8.00	1.21	8.46	1.31	8.64	1.31	8.83	1.32
	23.00	5.54	0.80	6.54	1.00	7.54	1.20	8.00	1.30	8.46	1.40	8.64	1.41	8.83	1.42
	25.00	5.54	0.86	6.54	1.07	7.54	1.28	8.00	1.39	8.46	1.50	8.64	1.50	8.83	1.52
	27.00	5.54	0.92	6.54	1.14	7.54	1.37	8.00	1.49	8.46	1.60	8.64	1.61	8.83	1.62
	29.00	5.54	0.98	6.54	1.22	7.54	1.46	8.00	1.59	8.46	1.71	8.64	1.72	8.83	1.73
	31.00	5.54	1.05	6.54	1.30	7.54	1.56	8.00	1.69	8.46	1.82	8.64	1.83	8.83	1.85
	33.00	5.54	1.11	6.54	1.39	7.54	1.66	8.00	1.80	8.46	1.94	8.64	1.95	8.83	1.97
	35.00	5.54	1.19	6.54	1.48	7.54	1.77	8.00	1.92	8.46	2.07	8.64	2.07	8.83	2.09
	37.00	5.54	1.26	6.54	1.57	7.54	1.88	8.00	2.04	8.46	2.20	8.64	2.21	8.83	2.23
	39.00	5.54	1.27	6.54	1.58	7.54	1.89	8.00	2.05	8.46	2.21	8.64	2.22	8.83	2.24
	41.00	5.54	1.27	6.54	1.58	7.54	1.90	8.00	2.06	8.46	2.22	8.64	2.23	8.83	2.25
	43.00	5.54	1.28	6.54	1.59	7.54	1.91	8.00	2.07	8.46	2.23	8.64	2.24	8.83	2.26

Heating

Combination (Capacity index)	Outdoor air temp.		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
130%	-14.7	-15	11.30	4.24	11.30	4.33	11.30	4.42	10.85	4.22	10.40	4.03	9.51	3.64
	-12.6	-13	11.93	4.31	11.93	4.40	11.93	4.49	11.46	4.29	10.98	4.10	10.04	3.70
	-10.5	-11	12.56	4.38	12.56	4.47	12.56	4.56	12.06	4.36	11.56	4.16	10.57	3.76
	-9.5	-10	12.86	4.41	12.86	4.50	12.86	4.60	12.35	4.40	11.84	4.19	10.82	3.79
	-8.5	-9.1	13.16	4.44	13.16	4.54	13.16	4.63	12.64	4.43	12.11	4.23	11.07	3.82
	-7	-7.6	13.61	4.49	13.61	4.59	13.61	4.68	13.07	4.48	12.53	4.27	11.45	3.86
	-5	-5.6	14.21	4.56	14.21	4.66	14.21	4.75	13.64	4.54	13.08	4.34	11.95	3.92
	-3	-3.7	14.81	4.63	14.81	4.72	14.81	4.82	14.22	4.61	13.63	4.40	12.46	3.98
	0	-0.7	15.70	4.72	15.70	4.83	15.70	4.93	15.08	4.71	14.46	4.49	13.21	4.06
	3	2.2	16.60	4.82	16.60	4.93	16.60	5.03	15.94	4.81	15.28	4.59	13.97	4.15
	5	4.1	17.20	4.89	17.20	5.00	17.20	5.10	16.52	4.88	15.84	4.65	14.47	4.21
	7	6	17.80	4.96	17.80	5.06	17.80	5.17	17.09	4.94	16.39	4.72	14.97	4.26
	9	7.9	17.80	4.79	17.80	4.89	17.80	5.00	17.09	4.78	16.39	4.56	14.97	4.12
	11	9.8	17.80	4.63	17.80	4.72	17.80	4.82	17.09	4.61	16.39	4.40	14.97	3.98
	13	11.8	17.80	4.46	17.80	4.55	17.80	4.65	17.09	4.45	16.39	4.24	14.97	3.83
	15	13.7	17.80	4.29	17.80	4.38	17.80	4.48	17.09	4.28	16.39	4.08	14.97	3.69
120%	-14.7	-15	11.30	4.36	11.30	4.45	11.30	4.55	10.85	4.35	10.40	4.15	9.51	3.75
	-12.6	-13	11.93	4.43	11.93	4.53	11.93	4.62	11.46	4.42	10.98	4.22	10.04	3.81
	-10.5	-11	12.56	4.50	12.56	4.60	12.56	4.70	12.06	4.49	11.56	4.28	10.57	3.87
	-9.5	-10	12.86	4.54	12.86	4.63	12.86	4.73	12.35	4.52	11.84	4.32	10.82	3.90
	-8.5	-9.1	13.16	4.57	13.16	4.67	13.16	4.77	12.64	4.56	12.11	4.35	11.07	3.93
	-7	-7.6	13.61	4.62	13.61	4.72	13.61	4.82	13.07	4.61	12.53	4.40	11.45	3.98
	-5	-5.6	14.21	4.69	14.21	4.79	14.21	4.89	13.64	4.68	13.08	4.46	11.95	4.04
	-3	-3.7	14.81	4.76	14.81	4.86	14.81	4.96	14.22	4.75	13.63	4.53	12.46	4.09
	0	-0.7	15.70	4.86	15.70	4.97	15.70	5.07	15.08	4.85	14.46	4.63	13.21	4.18
	3	2.2	16.60	4.97	16.60	5.07	16.60	5.18	15.94	4.95	15.28	4.72	13.97	4.27
	5	4.1	17.20	5.04	17.20	5.14	17.20	5.25	16.52	5.02	15.84	4.79	14.47	4.33
	7	6	17.80	5.10	17.80	5.21	17.80	5.32	17.09	5.09	16.39	4.86	14.97	4.39
	9	7.9	17.80	4.93	17.80	5.04	17.80	5.14	17.09	4.92	16.39	4.69	14.97	4.24
	11	9.8	17.80	4.76	17.80	4.86	17.80	4.96	17.09	4.75	16.39	4.53	14.97	4.09
	13	11.8	17.80	4.59	17.80	4.69	17.80	4.79	17.09	4.58	16.39	4.37	14.97	3.95
	15	13.7	17.80	4.42	17.80	4.51	17.80	4.61	17.09	4.41	16.39	4.20	14.97	3.80
110%	-14.7	-15	11.30	3.96	11.30	4.04	11.30	4.13	10.85	3.94	10.40	3.76	9.51	3.40
	-12.6	-13	11.93	4.02	11.93	4.11	11.93	4.19	11.46	4.01	10.98	3.83	10.04	3.46
	-10.5	-11	12.56	4.09	12.56	4.17	12.56	4.26	12.06	4.08	11.56	3.89	10.57	3.52
	-9.5	-10	12.86	4.12	12.86	4.21	12.86	4.29	12.35	4.11	11.84	3.92	10.82	3.54
	-8.5	-9.1	13.16	4.15	13.16	4.24	13.16	4.33	12.64	4.14	12.11	3.95	11.07	3.57
	-7	-7.6	13.61	4.20	13.61	4.29	13.61	4.38	13.07	4.18	12.53	3.99	11.45	3.61
	-5	-5.6	14.21	4.26	14.21	4.35	14.21	4.44	13.64	4.25	13.08	4.05	11.95	3.66
	-3	-3.7	14.81	4.32	14.81	4.41	14.81	4.51	14.22	4.31	13.63	4.11	12.46	3.72
	0	-0.7	15.70	4.41	15.70	4.51	15.70	4.60	15.08	4.40	14.46	4.20	13.21	3.80
	3	2.2	16.60	4.51	16.60	4.60	16.60	4.70	15.94	4.49	15.28	4.29	13.97	3.88
	5	4.1	17.20	4.57	17.20	4.67	17.20	4.77	16.52	4.56	15.84	4.35	14.47	3.93
	7	6	17.80	4.63	17.80	4.73	17.80	4.83	17.09	4.62	16.39	4.41	14.97	3.98
	9	7.9	17.80	4.48	17.80	4.57	17.80	4.67	17.09	4.46	16.39	4.26	14.97	3.85

Combination (Capacity index)	Outdoor air temp.		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
	11	9.8	17.80	4.32	17.80	4.41	17.80	4.51	17.09	4.31	16.39	4.11	14.97	3.72
	13	11.8	17.80	4.17	17.80	4.25	17.80	4.34	17.09	4.15	16.39	3.96	14.97	3.58
	15	13.7	17.80	4.01	17.80	4.10	17.80	4.18	17.09	4.00	16.39	3.81	14.97	3.45
100%	-14.7	-15	11.30	3.96	11.30	4.04	11.30	4.13	10.85	3.94	10.40	3.76	9.51	3.40
	-12.6	-13	11.93	4.02	11.93	4.11	11.93	4.19	11.46	4.01	10.98	3.83	10.04	3.46
	-10.5	-11	12.56	4.09	12.56	4.17	12.56	4.26	12.06	4.08	11.56	3.89	10.57	3.52
	-9.5	-10	12.86	4.12	12.86	4.21	12.86	4.29	12.35	4.11	11.84	3.92	10.82	3.54
	-8.5	-9.1	13.16	4.15	13.16	4.24	13.16	4.33	12.64	4.14	12.11	3.95	11.07	3.57
	-7	-7.6	13.61	4.20	13.61	4.29	13.61	4.38	13.07	4.18	12.53	3.99	11.45	3.61
	-5	-5.6	14.21	4.26	14.21	4.35	14.21	4.44	13.64	4.25	13.08	4.05	11.95	3.66
	-3	-3.7	14.81	4.32	14.81	4.41	14.81	4.51	14.22	4.31	13.63	4.11	12.46	3.72
	0	-0.7	15.70	4.41	15.70	4.51	15.70	4.60	15.08	4.40	14.46	4.20	13.21	3.80
	3	2.2	16.60	4.51	16.60	4.60	16.60	4.70	15.94	4.49	15.28	4.29	13.97	3.88
	5	4.1	17.20	4.57	17.20	4.67	17.20	4.77	16.52	4.56	15.84	4.35	14.47	3.93
	7	6	17.80	4.63	17.80	4.73	17.80	4.83	17.09	4.62	16.39	4.41	14.97	3.98
	9	7.9	17.80	4.48	17.80	4.57	17.80	4.67	17.09	4.46	16.39	4.26	14.97	3.85
	11	9.8	17.80	4.32	17.80	4.41	17.80	4.51	17.09	4.31	16.39	4.11	14.97	3.72
	13	11.8	17.80	4.17	17.80	4.25	17.80	4.34	17.09	4.15	16.39	3.96	14.97	3.58
	15	13.7	17.80	4.01	17.80	4.10	17.80	4.18	17.09	4.00	16.39	3.81	14.97	3.45
90%	-14.7	-15	10.17	3.51	10.17	3.58	10.17	3.66	9.77	3.50	9.36	3.34	8.56	3.02
	-12.6	-13	10.74	3.57	10.74	3.64	10.74	3.72	10.31	3.56	9.89	3.39	9.03	3.07
	-10.5	-11	11.30	3.62	11.30	3.70	11.30	3.78	10.85	3.61	10.41	3.45	9.51	3.12
	-9.5	-10	11.57	3.65	11.57	3.73	11.57	3.81	11.11	3.64	10.65	3.47	9.74	3.14
	-8.5	-9.1	11.84	3.68	11.84	3.76	11.84	3.84	11.37	3.67	10.90	3.50	9.96	3.16
	-7	-7.6	12.25	3.72	12.25	3.80	12.25	3.88	11.76	3.71	11.27	3.54	10.30	3.20
	-5	-5.6	12.79	3.78	12.79	3.86	12.79	3.94	12.28	3.76	11.77	3.59	10.76	3.25
	-3	-3.7	13.32	3.83	13.32	3.91	13.32	3.99	12.80	3.82	12.27	3.64	11.21	3.29
	0	-0.7	14.13	3.91	14.13	4.00	14.13	4.08	13.57	3.90	13.01	3.72	11.89	3.37
	3	2.2	14.94	4.00	14.94	4.08	14.94	4.17	14.35	3.98	13.76	3.80	12.57	3.44
	5	4.1	15.48	4.05	15.48	4.14	15.48	4.23	14.87	4.04	14.25	3.85	13.02	3.48
	7	6	16.02	4.11	16.02	4.19	16.02	4.28	15.38	4.09	14.75	3.91	13.48	3.53
	9	7.9	16.02	3.97	16.02	4.05	16.02	4.14	15.38	3.96	14.75	3.78	13.48	3.41
	11	9.8	16.02	3.83	16.02	3.91	16.02	4.00	15.38	3.82	14.75	3.64	13.48	3.29
	13	11.8	16.02	3.69	16.02	3.77	16.02	3.85	15.38	3.68	14.75	3.51	13.48	3.18
	15	13.7	16.02	3.56	16.02	3.63	16.02	3.71	15.38	3.54	14.75	3.38	13.48	3.06
80%	-14.7	-15	9.04	3.08	9.04	3.15	9.04	3.21	8.68	3.07	8.32	2.93	7.61	2.65
	-12.6	-13	9.54	3.13	9.54	3.20	9.54	3.27	9.17	3.12	8.79	2.98	8.03	2.69
	-10.5	-11	10.05	3.18	10.05	3.25	10.05	3.32	9.65	3.17	9.25	3.03	8.45	2.74
	-9.5	-10	10.29	3.21	10.29	3.28	10.29	3.34	9.88	3.20	9.47	3.05	8.65	2.76
	-8.5	-9.1	10.53	3.23	10.53	3.30	10.53	3.37	10.11	3.22	9.69	3.07	8.86	2.78
	-7	-7.6	10.89	3.27	10.89	3.34	10.89	3.41	10.45	3.26	10.02	3.11	9.16	2.81
	-5	-5.6	11.37	3.32	11.37	3.39	11.37	3.46	10.91	3.31	10.46	3.15	9.56	2.85
	-3	-3.7	11.84	3.36	11.84	3.44	11.84	3.51	11.37	3.35	10.90	3.20	9.96	2.89
	0	-0.7	12.56	3.44	12.56	3.51	12.56	3.58	12.06	3.43	11.57	3.27	10.57	2.96
	3	2.2	13.28	3.51	13.28	3.58	13.28	3.66	12.75	3.50	12.23	3.34	11.17	3.02

Combination (Capacity index)	Outdoor air temp.		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
	5	4.1	13.76	3.56	13.76	3.63	13.76	3.71	13.21	3.55	12.67	3.38	11.58	3.06
	7	6	14.24	3.61	14.24	3.68	14.24	3.76	13.67	3.60	13.11	3.43	11.98	3.10
	9	7.9	14.24	3.49	14.24	3.56	14.24	3.63	13.67	3.48	13.11	3.32	11.98	3.00
	11	9.8	14.24	3.36	14.24	3.44	14.24	3.51	13.67	3.35	13.11	3.20	11.98	2.89
	13	11.8	14.24	3.24	14.24	3.31	14.24	3.38	13.67	3.23	13.11	3.09	11.98	2.79
	15	13.7	14.24	3.12	14.24	3.19	14.24	3.26	13.67	3.11	13.11	2.97	11.98	2.68
70%	-14.7	-15	7.91	2.65	7.91	2.71	7.91	2.77	7.60	2.65	7.28	2.52	6.66	2.28
	-12.6	-13	8.35	2.70	8.35	2.75	8.35	2.81	8.02	2.69	7.69	2.57	7.03	2.32
	-10.5	-11	8.79	2.74	8.79	2.80	8.79	2.86	8.44	2.73	8.09	2.61	7.40	2.36
	-9.5	-10	9.00	2.76	9.00	2.82	9.00	2.88	8.64	2.75	8.29	2.63	7.57	2.37
	-8.5	-9.1	9.21	2.78	9.21	2.84	9.21	2.90	8.85	2.77	8.48	2.65	7.75	2.39
	-7	-7.6	9.53	2.81	9.53	2.87	9.53	2.93	9.15	2.81	8.77	2.68	8.01	2.42
	-5	-5.6	9.94	2.86	9.94	2.92	9.94	2.98	9.55	2.85	9.16	2.72	8.37	2.46
	-3	-3.7	10.36	2.90	10.36	2.96	10.36	3.02	9.95	2.89	9.54	2.76	8.72	2.49
	0	-0.7	10.99	2.96	10.99	3.02	10.99	3.09	10.56	2.95	10.12	2.82	9.25	2.55
	3	2.2	11.62	3.02	11.62	3.09	11.62	3.15	11.16	3.01	10.70	2.88	9.78	2.60
	5	4.1	12.04	3.06	12.04	3.13	12.04	3.19	11.56	3.05	11.09	2.92	10.13	2.64
	7	6	12.46	3.11	12.46	3.17	12.46	3.24	11.97	3.10	11.47	2.95	10.48	2.67
	9	7.9	12.46	3.00	12.46	3.07	12.46	3.13	11.97	2.99	11.47	2.86	10.48	2.58
	11	9.8	12.46	2.90	12.46	2.96	12.46	3.02	11.97	2.89	11.47	2.76	10.48	2.49
	13	11.8	12.46	2.79	12.46	2.85	12.46	2.91	11.97	2.78	11.47	2.66	10.48	2.40
	15	13.7	12.46	2.69	12.46	2.75	12.46	2.80	11.97	2.68	11.47	2.56	10.48	2.31
60%	-14.7	-15	6.78	2.23	6.78	2.27	6.78	2.32	6.51	2.22	6.24	2.12	5.70	1.91
	-12.6	-13	7.16	2.26	7.16	2.31	7.16	2.36	6.87	2.26	6.59	2.15	6.02	1.95
	-10.5	-11	7.54	2.30	7.54	2.35	7.54	2.40	7.24	2.29	6.94	2.19	6.34	1.98
	-9.5	-10	7.72	2.32	7.72	2.37	7.72	2.42	7.41	2.31	7.10	2.20	6.49	1.99
	-8.5	-9.1	7.89	2.33	7.89	2.38	7.89	2.43	7.58	2.33	7.27	2.22	6.64	2.01
	-7	-7.6	8.16	2.36	8.16	2.41	8.16	2.46	7.84	2.35	7.52	2.25	6.87	2.03
	-5	-5.6	8.52	2.40	8.52	2.45	8.52	2.50	8.19	2.39	7.85	2.28	7.17	2.06
	-3	-3.7	8.88	2.43	8.88	2.48	8.88	2.53	8.53	2.42	8.18	2.31	7.47	2.09
	0	-0.7	9.42	2.48	9.42	2.54	9.42	2.59	9.05	2.48	8.67	2.36	7.93	2.13
	3	2.2	9.96	2.54	9.96	2.59	9.96	2.64	9.57	2.53	9.17	2.41	8.38	2.18
	5	4.1	10.32	2.57	10.32	2.63	10.32	2.68	9.91	2.56	9.50	2.45	8.68	2.21
	7	6	10.68	2.61	10.68	2.66	10.68	2.72	10.26	2.60	9.83	2.48	8.98	2.24
	9	7.9	10.68	2.52	10.68	2.57	10.68	2.63	10.26	2.51	9.83	2.40	8.98	2.17
	11	9.8	10.68	2.43	10.68	2.48	10.68	2.53	10.26	2.42	9.83	2.31	8.98	2.09
	13	11.8	10.68	2.34	10.68	2.39	10.68	2.44	10.26	2.34	9.83	2.23	8.98	2.01
	15	13.7	10.68	2.26	10.68	2.30	10.68	2.35	10.26	2.25	9.83	2.15	8.98	1.94
50%	-14.7	-15	5.65	1.80	5.65	1.84	5.65	1.87	5.43	1.79	5.20	1.71	4.75	1.55
	-12.6	-13	5.97	1.83	5.97	1.87	5.97	1.91	5.73	1.82	5.49	1.74	5.02	1.57
	-10.5	-11	6.28	1.86	6.28	1.90	6.28	1.94	6.03	1.85	5.78	1.77	5.28	1.60
	-9.5	-10	6.43	1.87	6.43	1.91	6.43	1.95	6.17	1.87	5.92	1.78	5.41	1.61
	-8.5	-9.1	6.58	1.89	6.58	1.93	6.58	1.97	6.32	1.88	6.06	1.79	5.53	1.62
	-7	-7.6	6.80	1.91	6.80	1.95	6.80	1.99	6.53	1.90	6.26	1.81	5.72	1.64
	-5	-5.6	7.10	1.93	7.10	1.98	7.10	2.02	6.82	1.93	6.54	1.84	5.98	1.66

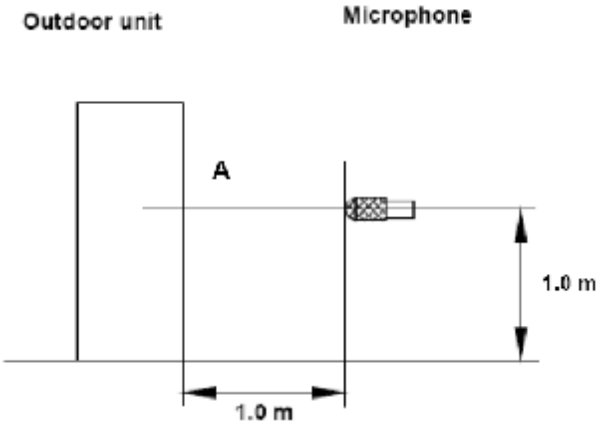
Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	°C DB	°C WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	-3	-3.7	7.40	1.96	7.40	2.00	7.40	2.05	7.11	1.96	6.82	1.87	6.23	1.69
	0	-0.7	7.85	2.01	7.85	2.05	7.85	2.09	7.54	2.00	7.23	1.91	6.61	1.72
	3	2.2	8.30	2.05	8.30	2.09	8.30	2.14	7.97	2.04	7.64	1.95	6.98	1.76
	5	4.1	8.60	2.08	8.60	2.12	8.60	2.16	8.26	2.07	7.92	1.98	7.24	1.79
	7	6	8.90	2.10	8.90	2.15	8.90	2.19	8.55	2.10	8.19	2.00	7.49	1.81
	9	7.9	8.90	2.03	8.90	2.08	8.90	2.12	8.55	2.03	8.19	1.93	7.49	1.75
	11	9.8	8.90	1.96	8.90	2.01	8.90	2.05	8.55	1.96	8.19	1.87	7.49	1.69
	13	11.8	8.90	1.89	8.90	1.93	8.90	1.97	8.55	1.89	8.19	1.80	7.49	1.63
	15	13.7	8.90	1.82	8.90	1.86	8.90	1.90	8.55	1.82	8.19	1.73	7.49	1.57

8. Electric Characteristics

Model	Outdoor Unit				Power Supply		Compressor	OFM	
	Hz	Voltage	Min.	Max.	TOCA	MFA	RLA	kW	FLA
MDVi -V105W/SN1	50	380-415V	342V	440V	20	25A	9.62	0.2	1.4
MDVi -V140W/SN1	50	380-415V	342V	440V	20	25A	9.62	0.1	0.751 x 2
MDVi -V160W/SN1	50	380-415V	342V	440V	20	25A	9.62	0.1	0.751 x 2

Remark:
TOCA: Total Over-current Amps. (A)
MFA: Max. Fuse Amps. (A)
RLA: Rated Locked Amps. (A)
OFM: Outdoor Fan Motor.
FLA: Full Load Amps. (A)
KW: Rated Motor Output (KW)

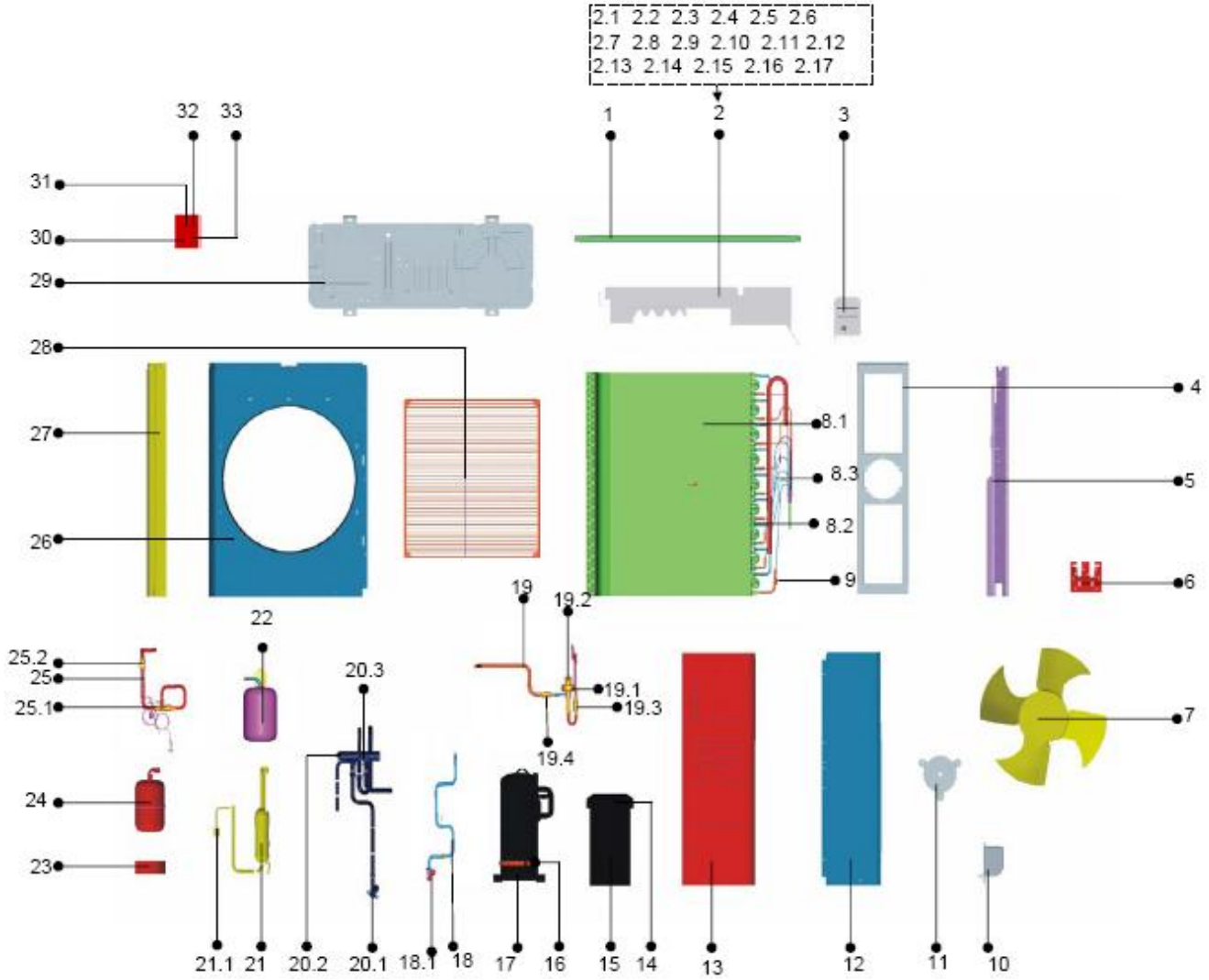
9. Sound Levels



Model	Noise level dB(A)	
	High speed	Low speed
MDVi -V105W/SN1	58	56
MDVi -V140W/SN1	57	56
MDVi -V160W/SN1	57	56

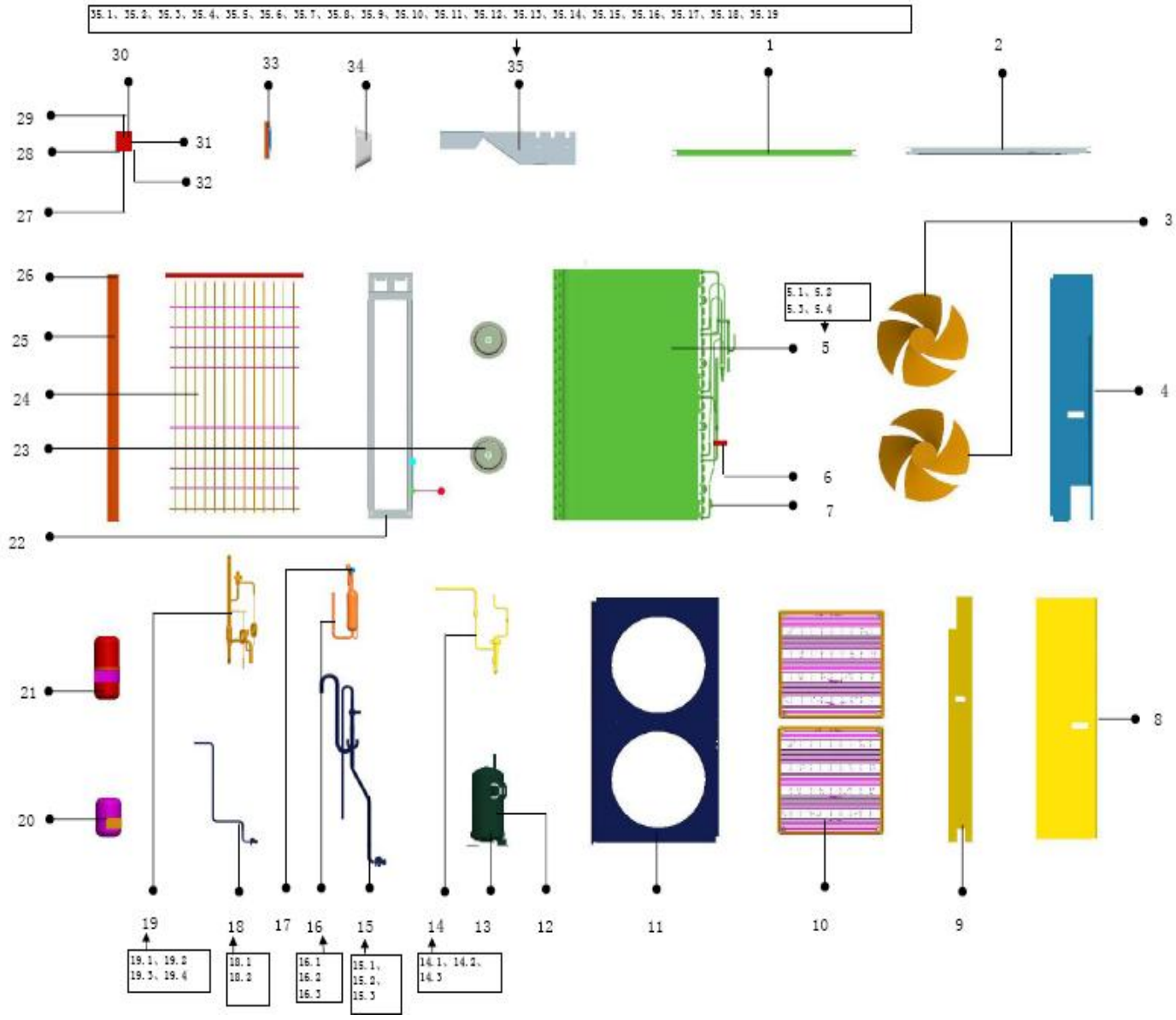
10. Exploded View

MDVi -V105W/SN1



No.	Part Name	Quantity		No.	Part Name	Quantity
1	Top cover ass'y	1		13	Front right clapboard ass'y	1
2	E-part box ass'y	1		14	Sponge	1
2.1	E-part box	1		15	Sponge	1
2.2	Contactor	1		16	Compressor electric heater	1
2.3	Compressor capacitor	1		17	Compressor	1
2.4	Inverter module	1		18	High Pressure Valve Ass'y	1
2.5	Main control board ass'y	1		18.1	High pressure valve	1
2.6	Filter board ass'y	1		19	Electronic expansion valve ass'y	1
2.7	Capacitor	1		19.1	EEV solenoid	1
2.8	Three phase bridge	1		19.2	Electronic expansion valve	1
2.9	Single-phase bridge	1		19.3	Strainer	1
2.10	Transformer	1		19.4	Strainer	1
2.11	Transformer	1		20	4-way valve ass'y	1
2.12	Resistor	1		20.1	Low pressure valve	1
2.13	Resistance	1		20.2	4-way valve	1
2.14	Wire joint	1		20.3	Solenoid	1
2.15	Wire joint	1		21	Discharge pipe ass'y	1
2.16	Surge suppresser	1		21.1	Pressure controller	1
2.17	Radiator	1		22	Accumulator tank	1
3	Big handle	1		23	Fixing ring	1
4	Motor bracket ass'y	1		24	Accumulator cylinder	1
5	Partition board ass'y	1		25	Suction pipe ass'y	1
6	Valve plate	1		25.1	Pressure controller	1
7	Axial flow fan	1		25.2	Strainer	1
8	Condenser ass'y	1		26	Front panel	1
8.1	Condenser	1		27	Left holder	1
8.2	Fluted pipe ass'y	1		28	Grille	1
8.3	Capillary ass'y	1		29	Base	1
9	Discharge temp sensor ass'y	1		30	Inductance Holder	1
10	Drainage pan	1		31	Inductance cover	1
11	Motor	1		32	Electrical inductance	1
12	Rear right clapboard ass'y	1		33	Board	1

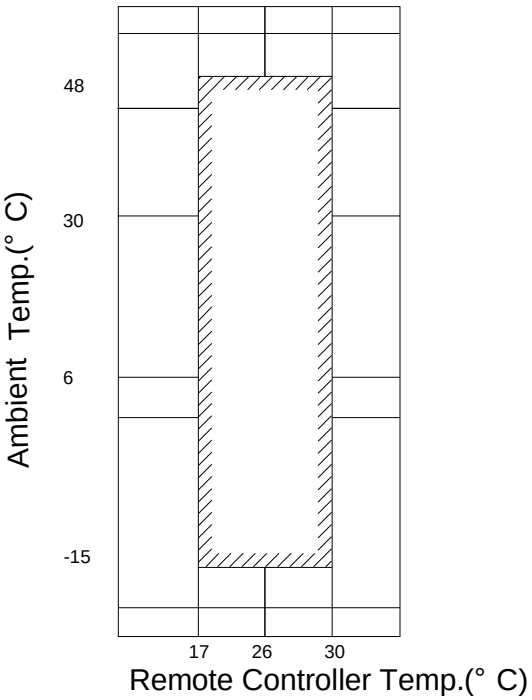
MDVi-V140W/SN1、MDVi-V160W/SN1



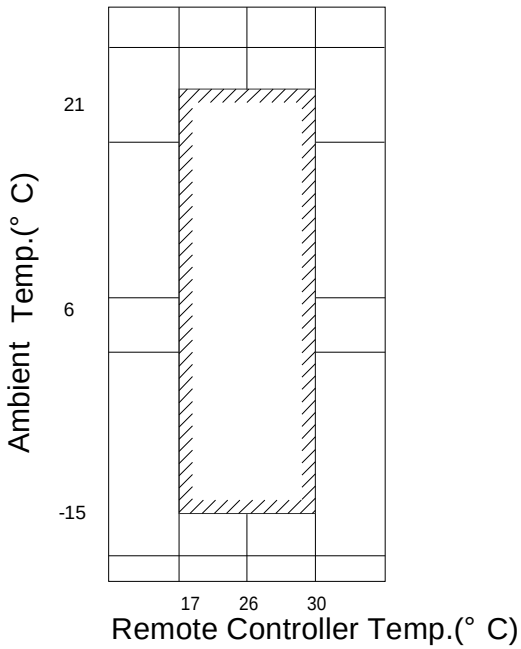
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Top cover ass'y	1	19.4	Strainer	1
2	Base	1	20	Accumulator cylinder	1
3	Axial flow fan	2	21	Accumulator cylinder	1
4	Rear clapboard ass'y	1	22	Motor bracket ass'y	1
5	Condenser ass'y	1	23	Motor	2
5.1	Condenser	1	24	Rear net	1
5.2	Capillary ass'y	1	25	Rear support board	1
5.3	Input pipe ass'y	1	26	Rear support board	1
5.4	Input pipe ass'y	1	27	Inductance Holder	1
6	Rubber gasket	1	28	Inductance cover	1
7	Discharge temp sensor ass'y	1	29	Electrical inductance	1
8	Front clapboard ass'y	1	30	Board	1
9	Partition board ass'y	1	31	Inductance compound damper I	2
10	Grille	1	32	Inductance compound damper II	1
11	Front panel ass'y	1	33	Valve plate	1
12	Compressor electric heater	1	34	Drainage pan	1
13	Compressor	1	35	E-part box ass'y	1
14	Electronic expansion valve ass'y	1	35.1	Filter board ass'y	1
14.1	Electronic expansion valve	1	35.2	Main control board ass'y	1
14.2	EEV solenoid	1	35.3	Inverter module	1
14.3	Strainer	2	35.4	Surge suppresser	2
15	4-way valve ass'y	1	35.5	RS485 communication connect wire	1
15.1	Low pressure valve	1	35.6	Transformer	1
15.2	4-way valve	1	35.7	Transformer	1
15.3	Solenoid	1	35.8	Motor capacitor	2
16	Discharge pipe ass'y		35.9	Switch Protection wiring	1
16.1	Oil separator	1	35.10	Aluminum electro analysis capacitor	2
16.2	Pressure controller	1	35.11	Resistor	2
16.3	Strainer	1	35.12	Resistance	2
17	Colloid	1	35.13	Single-phase bridge	1
18	High pressure valve ass'y	1	35.14	Contactor	1
18.1	High pressure valve	1	35.15	Wire joint	1
18.2	Take-over	1	35.16	Wire joint	1
19	Suction pipe ass'y	1	35.17	Radiator	1
19.1	Pressure controller	1	35.18	Compressor capacitor	1
19.2	Solenoid valve	1	35.19	Three phase bridge	1
19.3	Solenoid valve winding	1			

11. Operation Limits

Cooling



Heating



12. Troubleshooting

12.1 Troubles and causes of air conditioner

If one of the following malfunctions occur, stop operation, shut off the power, and contact with your dealer.

■ The operation lamp is flashing rapidly (twice every second) This lamp is still flashing rapidly after turn off the power and turn on again.

■ Remote controller receives malfunction or the button does not work well.

■ A safety device such as a fuse, a breaker frequently actuates.

■ Obstacles and water enter the unit.

■ Water leaks from indoor unit.

■ Other malfunctions.

If the system does not properly operate except the above mentioned cases or the above mentioned malfunctions is evident, investigate the system according to the following procedures.

Symptoms	Causes	Solution
Unit does not start	l Power failure. l Power switch is off. l Fuse of power switch may have burned. l Batteries of remote controller exhausted or other problem of controller.	l Wait for the comeback of power.. l Switch on the power. l Relocation. l Replace the batteries or check the controller.
Air flowing normally but completely can it cooling	l Temperature is not set correctly. l Be in 3 minutes protection of compressor	l Set the temperature properly. l Wait.
Units start or stop frequently	l Refrigerant is too little or too much. l Air or no concreting gas in the refrigerating circuit. l Compressor is malfunction. l Voltage is too high or too low. l System circuit is blocked.	l Check leakage, and rightly recharge refrigerant. l Vacuum and recharge refrigerant. l Maintenance or change compressor. l Install manostat. l Find reasons and solution.
Low cooling effect	l Outdoor unit and indoor unit heat exchanger is dirty. l The air filter is dirty. l Inlet/outlet of indoor/outdoor units is blocked. l Doors and windows are open. l Sunlight directly shine. l Too much heat resource. l Outdoor temp. is too high. l Leakage of refrigerant or lack of refrigerant.	l Clean the heat exchanger. l Clean the air filter. l Eliminate all dirties and make air smooth. l Close doors and windows. l Make curtains in order to shelter from sunshine. l Reduce heat source. l AC cooling capacity reduces normal). l Check leakage and rightly recharge Refrigerant.
Low heating effect	l Outdoor temperature is lower than 7 C l Doors and windows not completely closed. l Leakage of refrigerant or lack of refrigerant.	l ●Use heating device. l ●Close doors and windows. l ●Check leakage and rightly recharge refrigerant.

12.2 Troubles and causes of remote controller

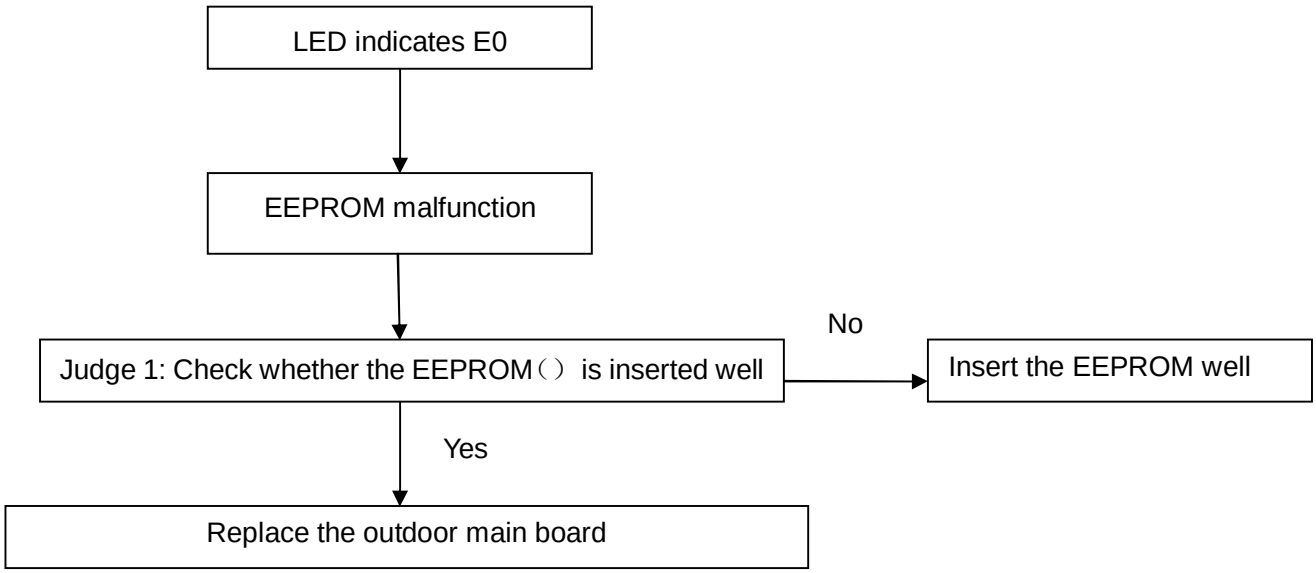
Before asking for serving or repairing, check the following points.

Symptoms	Causes	Solution
The fan speed can not be changed.	l Check whether the MODE indicated on the display is "AUTO"	When the automatic mode is selected, the air conditioner will automatically change the fan speed.
	l Check whether the MODE indicated on the display is "DRY"	When dry operation is selected，the air conditioner automatically change the fan speed. The fan speed can be selected during "COOL" , "FAN ONLY", and "HEAT"
The remote controller signal is not transmitted even when the ON/OFF button is pushed.	l Check whether the batteries in the remote controller are exhausted.	The power supply is off.
The TEMP .Indicator does not come on.	l Check whether the MODE indicated on the display is FAN ONLY	The temperature cannot be set during FAN mode.
The indication on the display disappears after a lapse of time.	l Check whether the timer operation has come to an end when the TIMER OFF is indicated on the display.	The air conditioner operation will stop up to the set time
The TIMER ON indicator goes off after a lapse of certain time.	l Check whether the timer operation is started when the TIMER ON is indicated on the display.	Up to the set time, the air conditioner will automatically start and the appropriate indicator will go off.
No receiving tone sounds from the indoor unit even when the ON/OFF button is pressed.	l Check whether the signal transmitter of the remote controller is properly directed to the infrared signal receiver of the indoor unit when the ON/OFF button is pressed.	Directly transmit the signal transmitter of the remote controller to the infrared signal receiver of the indoor unit, and then repeatly push the ON/OFF button twice.

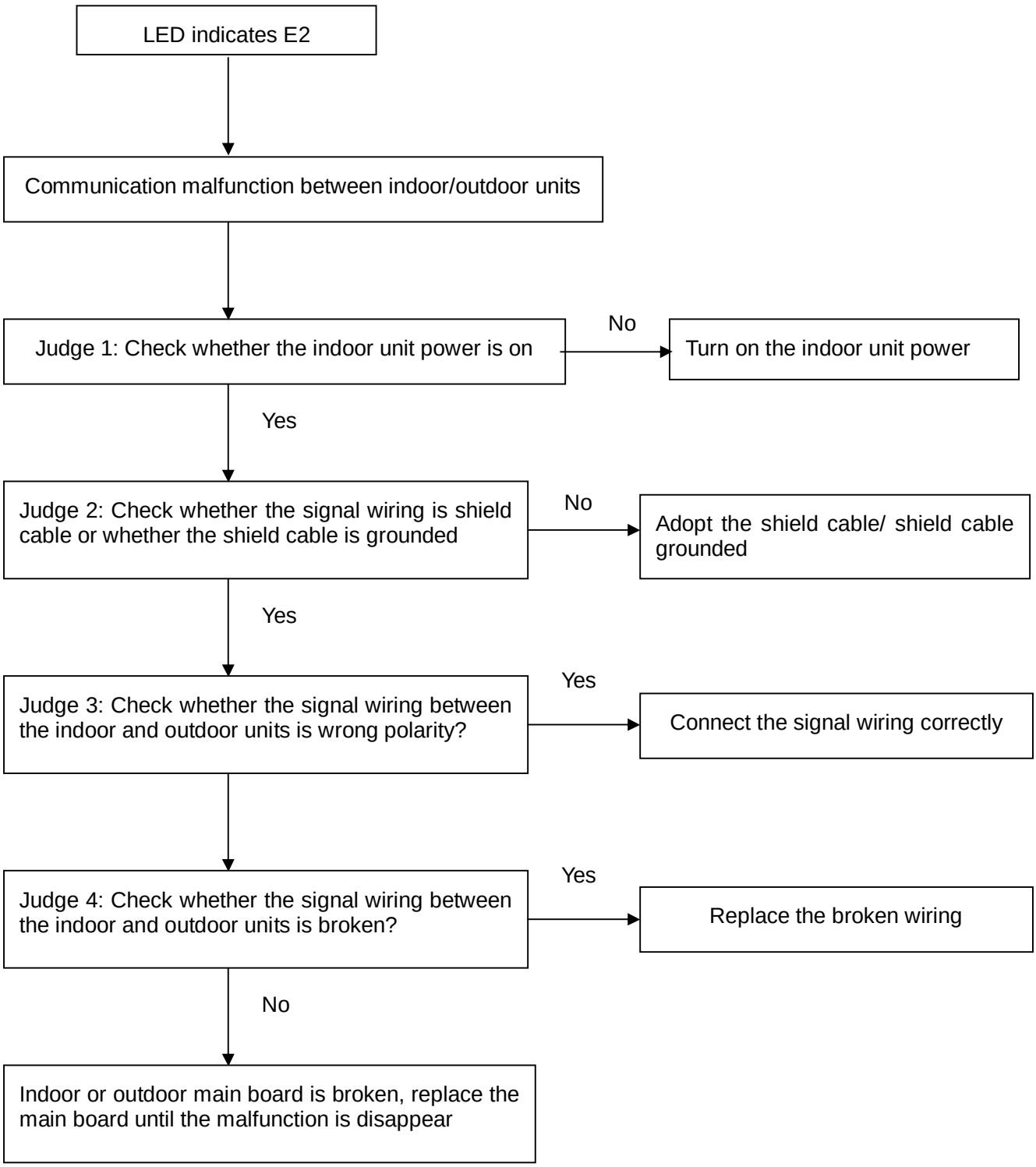
12.3 Malfunction Code of Indoor unit

No.	Type	Contents	LED Lamp flash	Remarks
1	Malfunction	The evaporator sensor check point is abnormal, or room temp. sensor is abnormal.	Operation lamp flashes at 2.5Hz.	After the malfunctions disappear, it restores automatically.
2	Malfunction	Indoor/outdoor unit communication is abnormal.	The timer lamp flashes at 2.5Hz.	After the malfunctions disappear, it restores automatically.
3	Malfunction	Condenser sensor check point is abnormal or outdoor unit is abnormal.	All the indoor alarm lamps flash at 0.5Hz.	After the malfunctions disappear, it restores automatically.

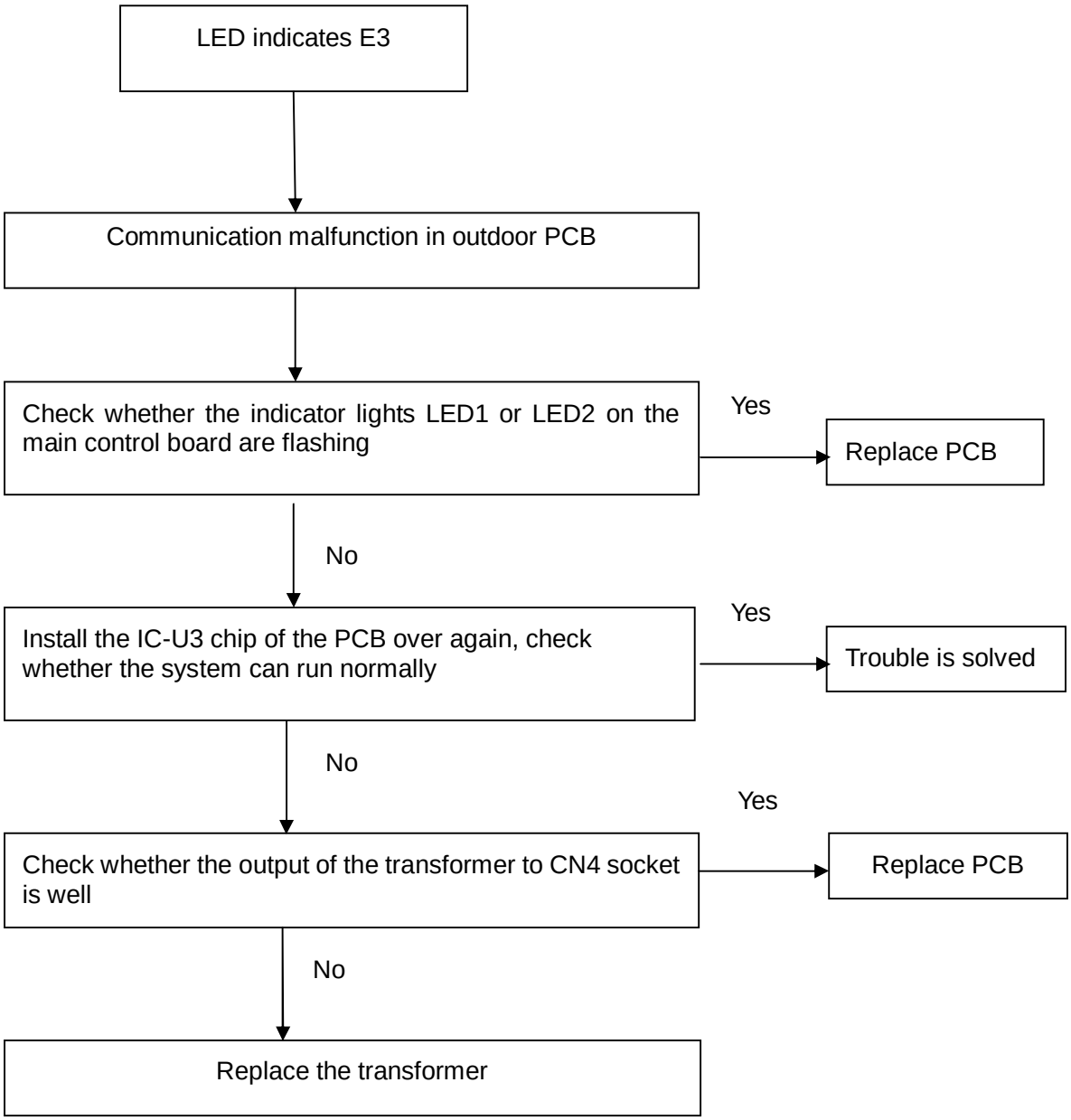
1. E0 malfunction



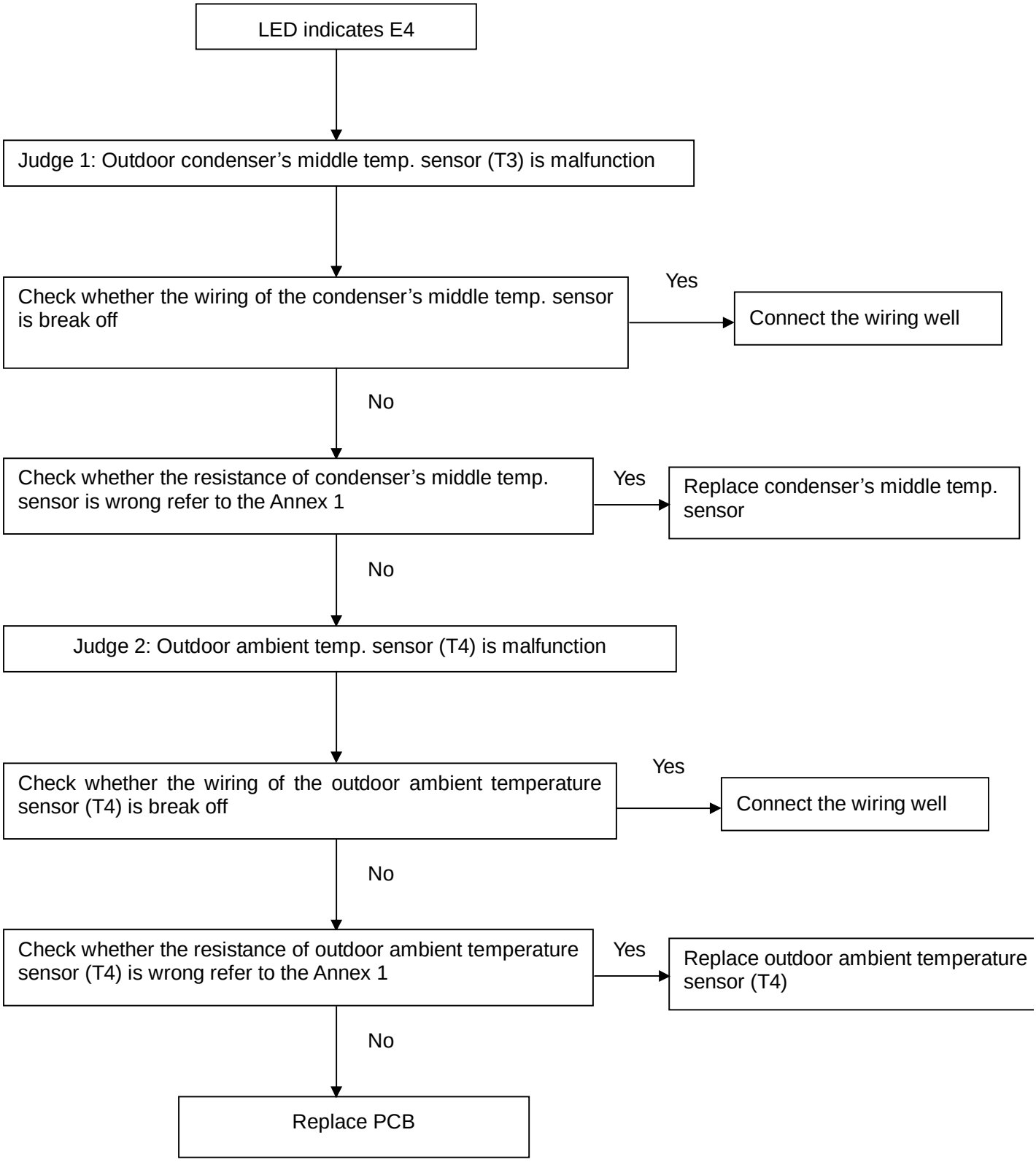
2. E2 malfunction



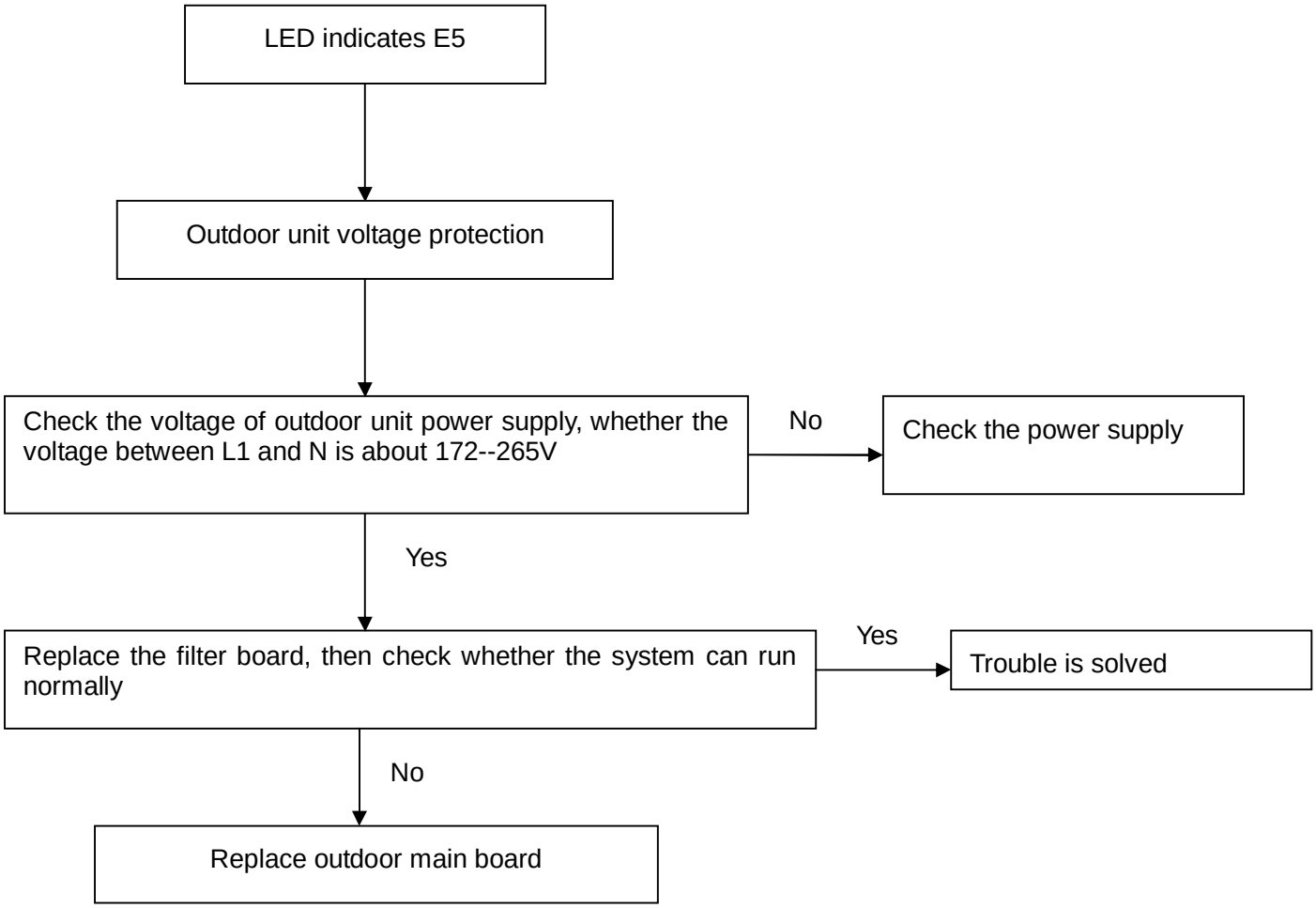
3. E3 malfunction



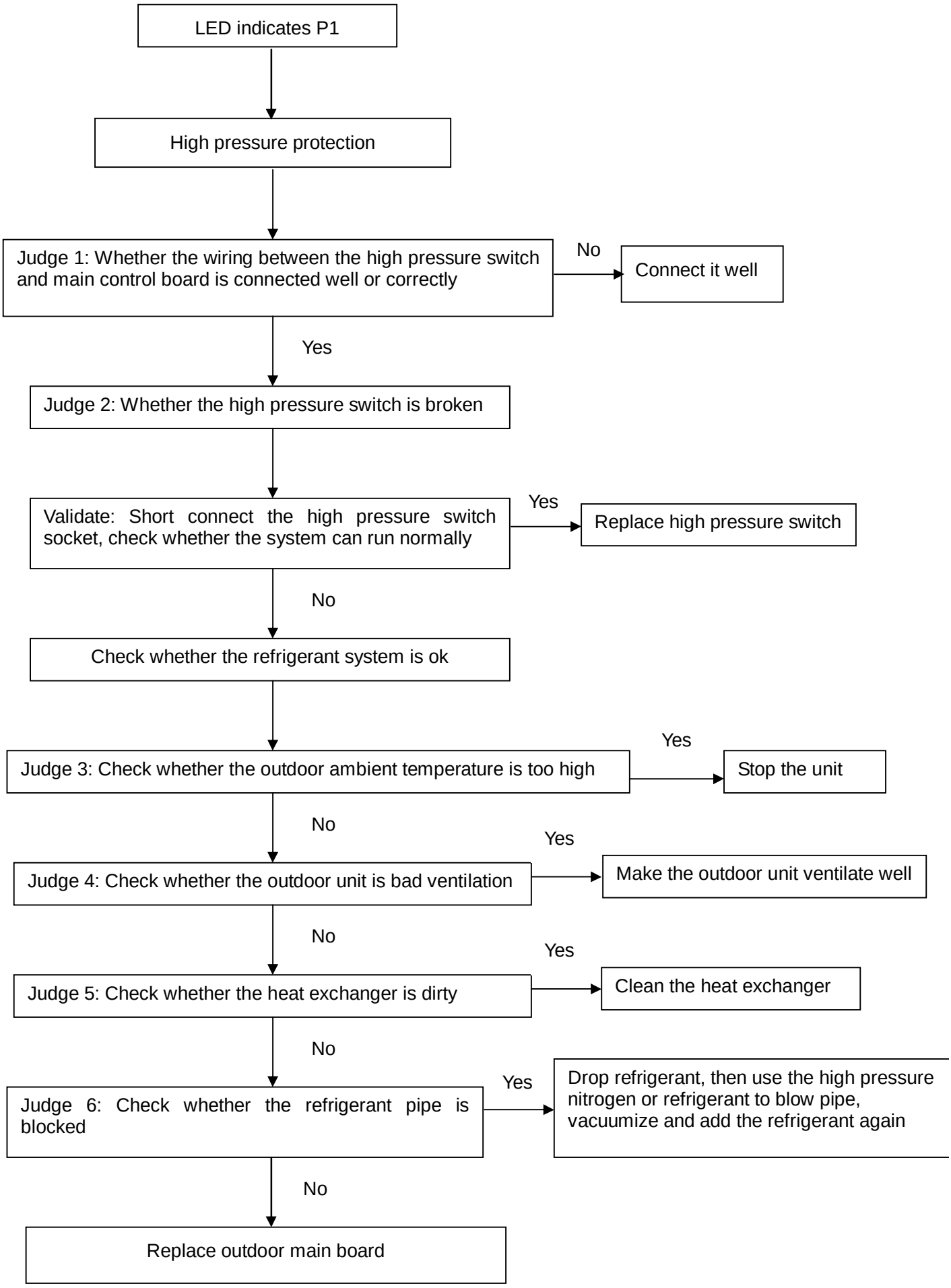
4. E4 malfunction



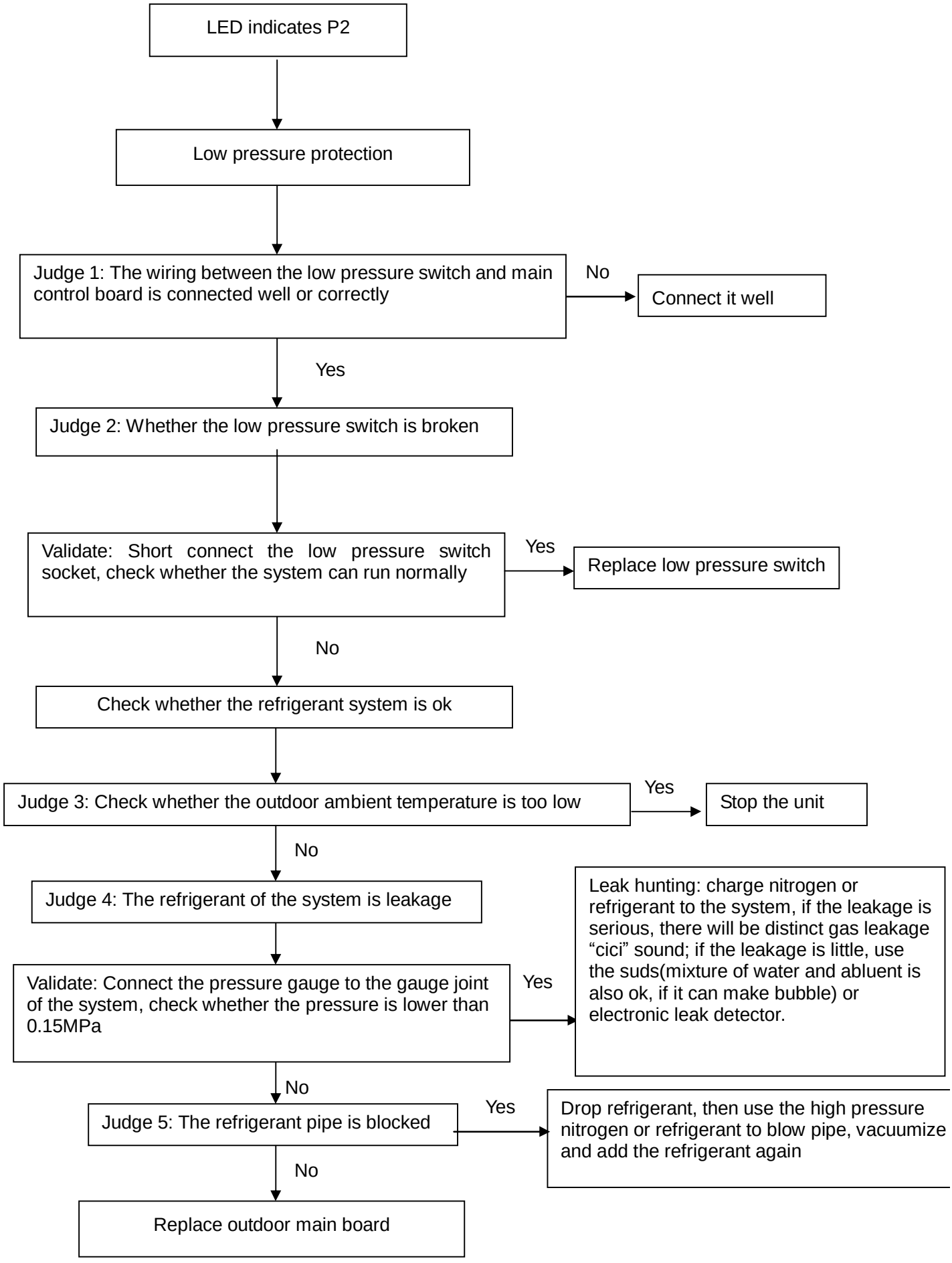
5. E5 malfunction



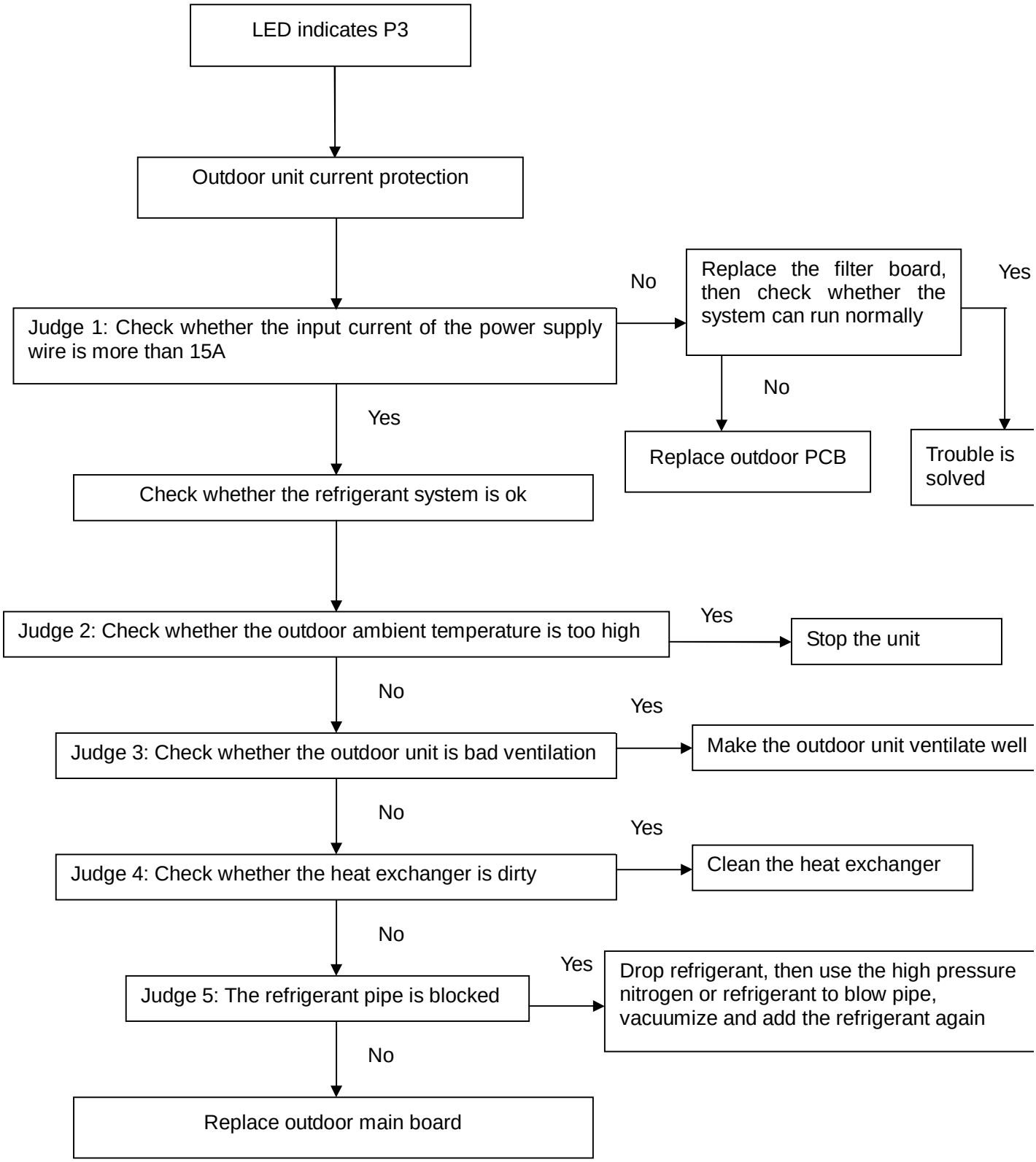
6. P1 malfunction



7. P2 malfunction

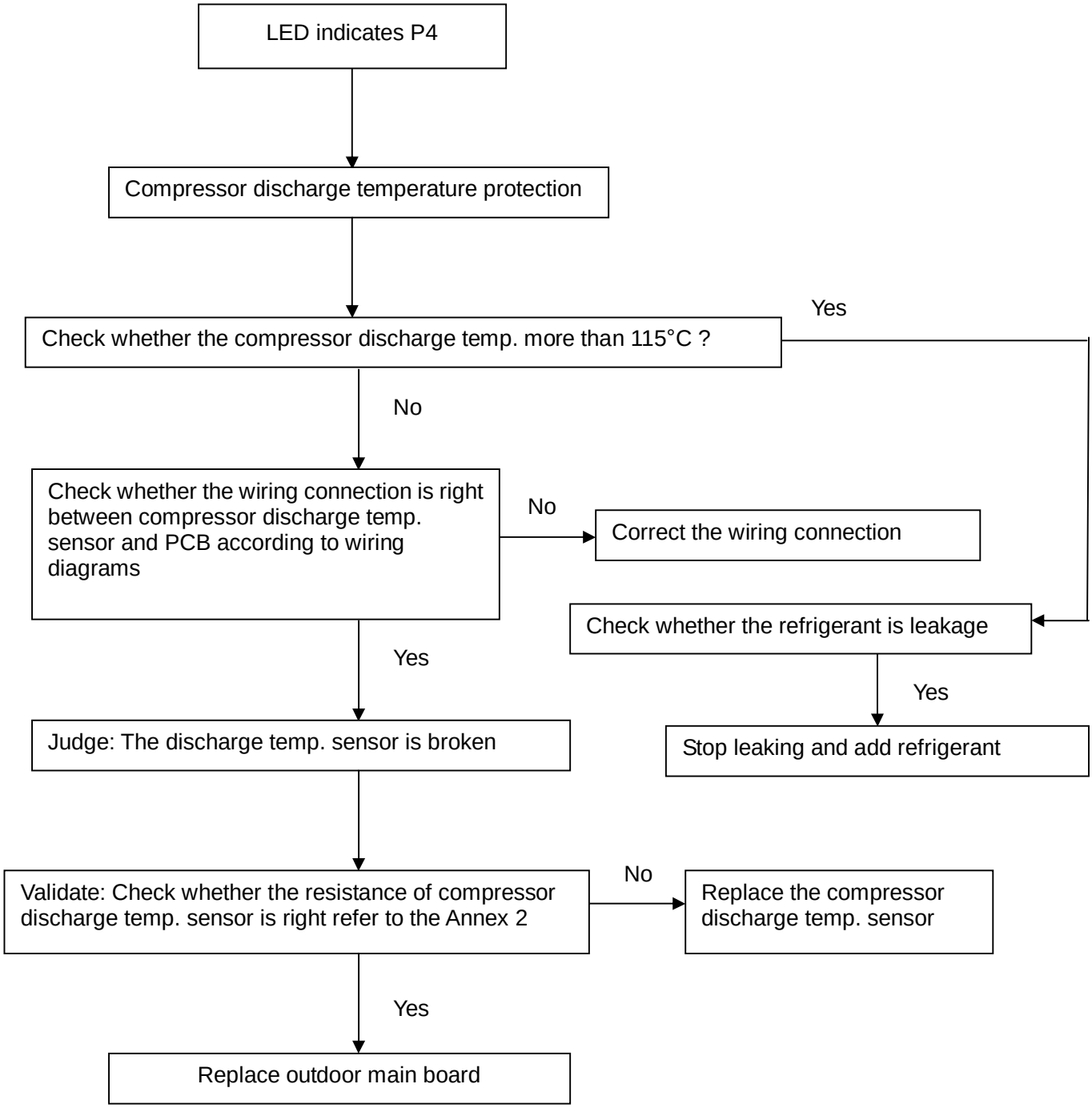


8. P3 malfunction



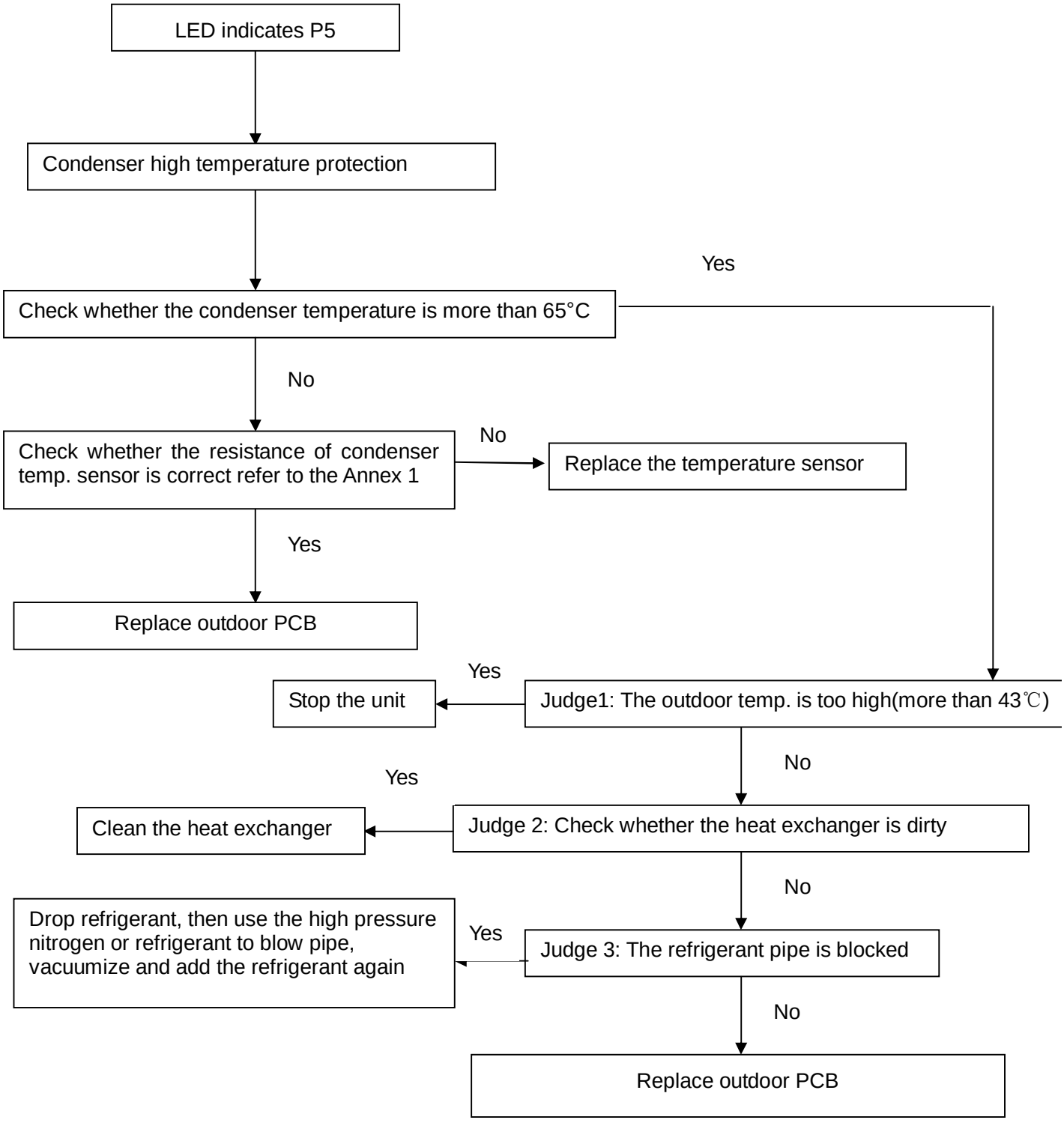
9. P4 malfunction

When compressor discharge temperature is more than 115°C, the unit will stop, and unit runs again when compressor discharge temperature is less than 90°C.



10. P5 malfunction

When condenser high temp. is more than 65°C, the unit will stop, and unit runs again when outdoor pipe temp. less than 52°C.



11. P6 malfunction

