

Technical Manual

Tropical Desert Series 60Hz



MRCT-050CWN1-M

MRCT-150CWN1-Y(D)

MRCT-062CWN1-Y(D)

MRCT-200CWN1-Y(D)

MRCT-075CWN1-Y(D)

MRCT-250CWN1-Y(D)

MRCT-100CWN1-Y(D)

MRCT-300CWN1-Y(DH)

MRCT-125CWN1-Y(D)

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Part. 1 General information

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1. Product Lineup

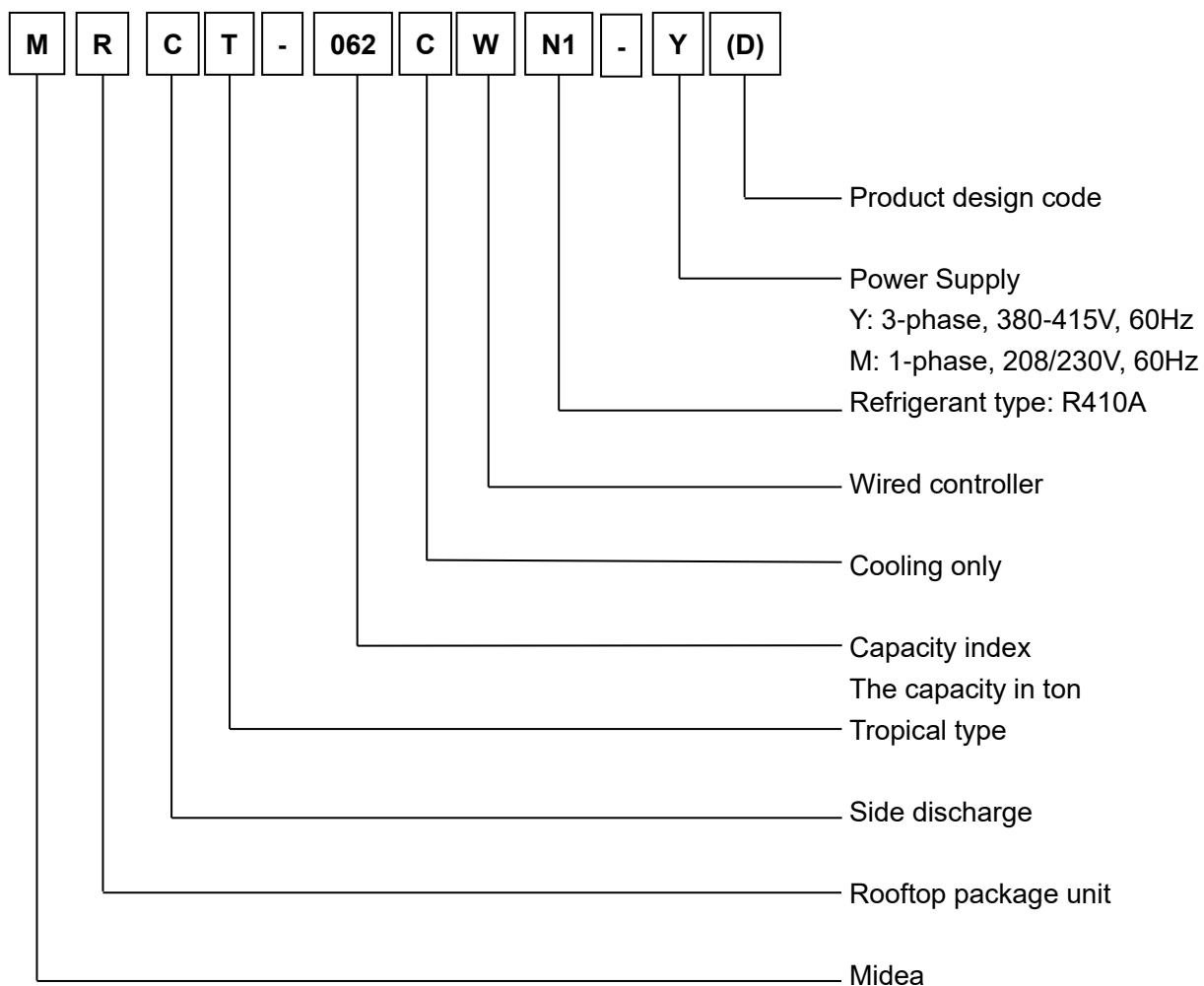
Nominal ton	Model	Function	Air outlet	Power supply
5	MRCT-050CWN1-M	Cooling only	Side discharge	220-240V 1Ph~ 60Hz
6.2	MRCT-062CWN1-Y(D)	Cooling only	Side discharge	380-415V 3Ph~ 60Hz
7.5	MRCT-075CWN1-Y(D)	Cooling only	Side discharge	
10	MRCT-100CWN1-Y(D)	Cooling only	Side discharge	
12.5	MRCT-125CWN1-Y(D)	Cooling only	Side discharge	
15	MRCT-150CWN1-Y(D)	Cooling only	Side discharge	
20	MRCT-200CWN1-Y(D)	Cooling only	Side discharge	
25	MRCT-250CWN1-Y(D)	Cooling only	Side discharge	
30	MRCT-300CWN1-Y(DH)	Cooling only	Side discharge	

Notes: Please refer to specification tables for accurate cooling capacity with kW or Btu/h.

2. External Appearances

Capacity	5Ton	6.25/7.5Ton
Appearance		
Capacity	10/12.5/15Ton	20/25/30Ton
Appearance		

3. Nomenclatures



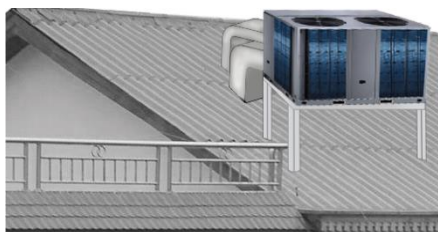
Part. 2 Performances

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1. Features

✧ Design flexibility.

Compact design and flanges of air flow inlet and outlet as standard. It is suitable for installation in rooftop and ground.



✧ Durable construction.

Pre-painted exterior cabinet panels pass 1000 hours salt spray test for durability. Weather-resistant construction with capped steams and sloped top panels design.

The rooftop package air conditioners with special anti-corrosion treatment are suitable for seaside areas or the areas exposed to acidic substances. (It should be customized.)



✧ Reliable scroll compressor.

Famous brand compressor, it is more reliable. No complex internal suction and discharge valves for quieter operation and higher reliability. Compact and light-weight design, fewer moving parts design.

✧ Adjustable pulley

Through changing the working pitch diameter of the pulley mounted on driver shaft, in turn the revolutions per minute of the driven shaft will increase or decrease to external static pressure (Except model 050)

✧ Multi-protection design.

Multi-measurement can ensure units operate normally and reliably:

System current protection.

High and low pressure switch

Discharge temperature & anti-freeze protection.

The three-phase protector can be customized.

- ✧ Easy to installation.

Removable access door on the electric box is standard. It is easy to move the cover of the electric box. Only connect the wires of power supply, and no need to connect any signal wires.

Reserved external drainage port, quickly and accurately connect the rubber drainage pipe.



- ✧ The unit provides external pressure gauge ports for convenient and fast checking system pressure without removing the panel.



- ✧ System self-diagnostic function.

Press the Check button in Main PCB board, and the LED display of PCB board in unit will display the normal checking code. If the unit is in running with abnormal operation, the LED display will show the error code.

- ✧ Wired controller as standard. Besides Midea controller, other brand thermostat can be matched as optional solution.

- ✧ Centralized control function can be achieved through the centralized controller as optional.

MD-NIM01 should be connected between the rooftop package units and centralized controller.



2. Specifications

MRCT-050CWN1-M, MRCT-062CWN1-Y(D), MRCT-075CWN1-Y(D) specifications

Nominal ton		(Ton)	5	6.25	7.5
Model			MRCT-050CWN1-M	MRCT-062CWN1-Y(D)	MRCT-075CWN1-Y(D)
Type			Side-discharge	Side-discharge	Side-discharge
Power Supply		\	220-240V, 1Ph~, 60Hz	380 - 415V, 3Ph~, 60Hz	380 - 415V, 3Ph~, 60Hz
Cooling ¹	Capacity	Btu/h	55,000	75,000	84,000
		kW	16.1	22.0	24.6
	Power Input	W	4,780	6,680	7,240
Cooling ²	Cooling Capacity	Btu/h	48,000	64,000	72,000
		kW	14.1	18.8	21.1
	Power Input	W	5,780	8,100	8,670
Optional EHK ³	Power Input	\	7.5kW (EHK-7.5A-5T)	10kW (EHK-10A-6.25T)	/
	Power Input	\	10kW (EHK-10A-5T)	14kW (EHK-14A-6.25T)	/
Max. input consumption (Standard)		W	7,200	9,400	10,500
Max. input consumption (High static pressure)		W	/	10,900	11,500
Max. circuit ampacity		A	34.6	30	20.3
Max. overcurrent protection		A	50	30	40
Performance (Standard)	Indoor fan air flow	CFM	2,000	2,200	2,800
		l/s	944	1,039	1,322
	Outdoor fan air flow	CFM	3,960	7,640	6,640
		l/s	1,868	3,608	3,135
	ESP	Pa	50 (0 - 200)	60 (0 - 125)	70(0-150)
		in.w.g.	0.2 (0 - 0.8)	0.24 (0 - 0.5)	0.28 (0-0.6)
	EER ¹	/	11.5	11.2	11.6
	EER ²	/	8.3	7.8	8.3
Performance (High static pressure)	Indoor fan air flow	CFM	/	2,200 @60Pa	2800@60Pa
		l/s	/	1,039	1,322
	Outdoor fan air flow	CFM	/	7,640	6,640
		l/s	/	3,608	3,135
	ESP	Pa	/	250 - 500	/
		in.w.g.	/	1.0 - 2.0	/
	EER ¹	/	/	11.2	11.6
	EER ²	/	/	7.9	8.3
Evaporator	Number of rows	\	3	4	4
	Fin spacing	mm	1.5	1.6	1.6
		inch	1/16	1/16	1/16
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube diameter	mm	Φ7	Φ7.94	Φ7.94
		inch	2/7	5/16	5/16
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe	Inner grooved copper pipe
	Number of circuits	\	8	12	12

MRCT-050CWN1-M, MRCT-062CWN1-Y(D), MRCT-075CWN1-Y(D) specifications (continued)

Nominal ton		(Ton)	5	6.25	7.5
Model			MRCT-050CWN1-M	MRCT-062CWN1-Y(D)	MRCT-075CWN1-Y(D)
Evaporator fan (Standard)	Type	\	Centrifugal	Centrifugal	Centrifugal
	Material	\	Metal	Metal	Metal
	Quantity	\	1	1	1
	Drive type	\	Direct	Belt, adjustable	Belt, adjustable
Evaporator fan (High static pressure)	Type	\	/	Centrifugal	Centrifugal
	Material	\	/	Metal	Metal
	Quantity	\	/	1	1
	Drive type	\	/	Belt, adjustable	Belt, adjustable
Compressor	Type	\	Scroll	Scroll	Scroll
	Quantity	\	1	1	1
	Model	\	ABG051KAA	HLJ072T9LC6	HLJ072T9LC6
	Brand	\	LG	Danfoss	Danfoss
	Capacity	W	14,947	20,682	20,870
		Btu/h	51,000	70,567	71,208
	Input	W	4,722	6,776	6,782
	RLA	A	22.3	12.2	12.2
	LRA	A	127.9	95	95
	Refrigerant oil	\	POE (1,280ml)	PVE (1,570ml)	PVE (1,570ml)
Condenser	Number of rows	\	2	3	3
	Fin type	\	Hydrophilic aluminum fin		
	Tube type	\	Inner grooved copper pipe		
	Number of circuits	\	12	12	12
Condenser Fan	Type	\	Axial	Axial	Axial
	Material	\	Metal	Metal	Plastic
	Quantity	\	1	1	1
	Diameter	mm	Φ600	Φ600	Φ700
		inch	23-5/8	23-5/8	22.56
	Drive type	\	Direct	Direct	Direct
	Motor quantity	\	1	1	1
Outdoor sound pressure level ⁴		dB(A)	66.5	74.5	78
Refrigerant	Type	\	R410A	R410A	R410A
	Volume	kg	2.30	6.6	7.4
		lbs	5.07	14.55	16.31
	Control	\	Throttle valve	Throttle valve	Throttle valve
Power wires		\	2×6AWG+1×8AWG	4×10AWG+1×12AWG	4×10AWG+1×12AWG
		\	2×13mm ² +1×8mm ²	4×5mm ² +1×3mm ²	4×5mm ² +1×3mm ²
Thermostat (Standard)		\	KJR-25B	KJR-29B/BK-E	KJR-29B/BK-E
Thermostat (Optional, 220V signal)		\	Yes	Yes	Yes
Centralized controller (Optional)		\	Yes	Yes	Yes
Operation temperature	°C		17 - 30	17 - 30	17 - 30
	°F		62 - 88	62 - 88	62 - 88
Drainage pipe		\	3/4" NPT	3/4" NPT	3/4" NPT
Ambient temperature	°C		10- 52	10- 52	10- 52
	°F		50 - 125.6	50 - 125.6	50 - 125.6

MRCT-050CWN1-M, MRCT-062CWN1-Y(D), MRCT-075CWN1-Y(D) specifications (continued)

Nominal ton		(Ton)	5	6.25	7.5
Model			MRCT-050CWN1-M	MRCT-062CWN1-Y(D)	MRCT-075CWN1-Y(D)
Net dimensions (W×H×D)		mm	1,486×840×1,068	1,965×1,230×1,130	1,965 × 1,230 × 1,130
		inch	58-1/2 × 33-1/16 × 42-1/16	77-3/8 × 48-1/2 × 44-1/2	77-3/8 × 48-1/2 × 44-1/2
Packing dimensions (W×H×D)		mm	1,505×865×1,075	1,975×1,265×1,145	1,975 × 1,265 × 1,145
		inch	59-1/4 × 34 × 42-1/3	77-3/4 × 49-7/8 × 45	77-3/4 × 49-7/8 × 45
Net / Gross weight		kg	207 / 209	360 / 390	370/ 390
		lbs	456 / 461	794 / 860	816/860
Filter	Quantity	\	1	2	1
	Type	\	Nylon	Nylon	Nylon
	Size	mm	559×356×12	(1,050×500×12) ×2	(1,050 × 500 × 12)×2
		inch	22 × 14 × 1/2	(44-3/8 × 19-3/4 × 1/2) ×2	(44-3/8 × 19-3/4 × 1/2)×2

Notes:

1. Cooling capacity test condition 1: Outdoor ambient temperature: 35°C (95°F), indoor temperature: 27°C 0(80.6°F) DB/19°C (66.2°F)WB
2. Cooling capacity test condition 2: Outdoor ambient temperature: 46°C (114.8°F), indoor temperature: 29°C 0(84.2°F) DB/19°C (66.2°F) WB.;
3. EHK means Electric Heater Kit. Only one EHK can be optional to fix per unit.
4. Sound pressure level values are measured in a semi-anechoic room, at a position 1 meter in front of the unit and (1 meter + Height of the unit) / 2 above the floor;
5. Specifications are subject to change without prior notice for product improvement.

MRCT-100CWN1-Y(D), MRCT-125CWN1-Y(D) specifications

Nominal ton		(Ton)	10	12.5
Model			MRCT-100CWN1-Y(D)	MRCT-125CWN1-Y(D)
Type			Side-discharge	Side-discharge
Power Supply		\	380 - 415V, 3Ph~, 60Hz	380 - 415V, 3Ph~, 60Hz
Cooling ¹	Capacity	Btu/h	124,000	156,000
		kW	36.3	45.7
	Power Input	W	11,071	14,180
Cooling ²	Cooling Capacity	Btu/h	107,000	134,000
		kW	31.4	39.3
	Power Input	W	13,300	17,100
Optional EHK ³	Power Input	\	20kW (EHK-20A-10/12.5T)	20kW (EHK-20A-10/12.5T)
	Power Input	\	24kW (EHK-24A-10T)	28kW (EHK-28A-12.5T)
Max. input consumption (Standard)		W	17,200	21,800
Max. input consumption (High static pressure)		W	18,750	23,650
Max. circuit ampacity		A	53	63
Max. overcurrent protection		A	60	70
Performance (Standard)	Indoor fan air flow	CFM	3,800	4,200
		l/s	1,794	1,983
	Outdoor fan air flow	CFM	14,750	11,190
		l/s	6,965	5,284
	ESP	Pa	70(0 - 200)	90 (0 - 225)
		in.w.g.	0.28 (0 - 0.8)	0.36 (0 - 0.9)
	EER ¹	Btu/h.W	11.2	11.0
	EER ²	Btu/h.W	8.0	7.9
Performance (High static pressure)	Indoor fan air flow	CFM	3,800 @70Pa	4,200 @90Pa
		l/s	1,794	1,983
	Outdoor fan air flow	CFM	14,750	11,190
		l/s	6,965	5,284
	ESP	Pa	250 - 500	200 - 500
		in.w.g.	1.0 - 2.0	0.8 - 2.0
	EER ¹	Btu/h.W	11.2	11.0
	EER ²	Btu/h.W	8.0	7.8
Evaporator	Number of rows	\	3	4
	Fin spacing	mm	1.6	1.6
		inch	1/16	1/16
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube diameter	mm	Φ7.94	Φ7.94
		inch	5/16	5/16
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe
	Coil size (W×H)	mm	1,712×1,056	1,712×1,056
		inch	67-3/8 × 41-1/2	67-3/8 × 41-1/2
	Number of circuits	\	12+12	12+12

MRCT-100CWN1-Y(D), MRCT-125CWN1-Y(D) specifications (continued)

Nominal ton		(Ton)	10	12.5
Model			MRCT-100CWN1-Y(D)	MRCT-125CWN1-Y(D)
Evaporator fan (Standard)	Type	\	Centrifugal	Centrifugal
	Material	\	Metal	Metal
	Quantity	\	1	1
	Drive type	\	Belt, adjustable	Belt, adjustable
Evaporator fan (High static pressure)	Type	\	Centrifugal	Centrifugal
	Material	\	Metal	Metal
	Quantity	\	1	1
	Drive type	\	Belt, adjustable	Belt, adjustable
	Quantity	\	1	1
Compressor	Type	\	Scroll	Scroll
	Quantity	\	2	2
	Model	\	ZP57K3E-TF7-522	HLJ072T9LC6
	Brand	\	Copeland	Danfoss
	Capacity	W	58,000	20,682
		Btu/h	17,000	70,567
	Input	W	5,480	6,776
	RLA	A	10.1	12.2
	LRA	A	94	95
	Refrigerant oil	\	POE (1,685ml)	PVE (1,570ml)
Condenser	Number of rows	\	3+3	3+3
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe
	Number of circuits	\	12+12	12+12
Condenser Fan	Type	\	Axial	Axial
	Material	\	Metal	Metal
	Quantity	\	2	2
	Drive type	\	Direct	Direct
	Motor quantity	\	2	2
Outdoor sound pressure level ⁴		dB(A)	72.0	78.0
Refrigerant	Type	\	R410A	R410A
	Volume	kg	6.4+6.4	6.8+6.8
		lbs	14.11+14.11	15.00+15.00
	Control	\	Throttle valve	Throttle valve
Power wires		\	4×6AWG+1×8AWG	4×4AWG+1×6AWG
		\	4×13mm ² +1×8mm ²	4×21mm ² +1×13mm ²
Thermostat (Standard)		\	KJR-29B/BK-E	KJR-29B/BK-E
Thermostat (Optional, 220V signal)		\	Yes	Yes
Centralized controller (Optional)		\	Yes	Yes
Operation temperature	°C		17 - 30	17 - 30
	°F		62 - 88	62 - 88
Drainage pipe		\	3/4" NPT	3/4" NPT
Ambient temperature	°C		10- 52	10- 52
	°F		50 - 125.6	50 - 125.6

MRCT-100CWN1-Y(D), MRCT-125CWN1-Y(D) specifications (continued)

Nominal ton		(Ton)	10	12.5
Model			MRCT-100CWN1-Y(D)	MRCT-125CWN1-Y(D)
Net dimensions (W×H×D)		mm	2,230×1,255×1,965	2,230×1,255×1,965
		inch	87-7/8 × 49-3/8 × 77-3/8	87-7/8 × 49-3/8 × 77-3/8
Packing dimensions (W×H×D)		mm	2,240×1,290×1,980	2,240×1,290×1,980
		inch	88-1/4 × 50-3/4 × 78	88-1/4 × 50-3/4 × 78
Net / Gross weight		kg	615 / 650	660 / 695
		lbs	1,356 / 1,433	1,455 / 1,533
Filter	Quantity	\	3	3
	Type	\	Nylon	Nylon
	Size	mm	(1,040×575×12) ×3	(1,040×575×12) ×3
		inch	(41 × 22-5/8 × 1/2) ×3	(41 × 22-5/8 × 1/2) ×3

Notes:

1. Cooling capacity test condition 1: Outdoor ambient temperature: 35°C (95°F), indoor temperature: 27°C 0(80.6°F) DB/19°C (66.2°F) WB
2. Cooling capacity test condition 2: Outdoor ambient temperature: 46°C (114.8°F), indoor temperature: 29°C 0(84.2°F) DB/19°C (66.2°F) WB.;
3. EHK means Electric Heater Kit. Only one EHK can be optional to fix per unit.
4. Sound pressure level values are measured in a semi-anechoic room, at a position 1 meter in front of the unit and (1 meter + Height of the unit) / 2 above the floor;
5. Specifications are subject to change without prior notice for product improvement.

MRCT-150CWN1-Y(D), MRCT-200CWN1-Y(D) specifications

Nominal ton		(Ton)	15	20
Model			MRCT-150CWN1-Y(D)	MRCT-200CWN1-Y(D)
Type			Side-discharge	Side-discharge
Power Supply		\	380 - 415V, 3Ph~, 60Hz	380 - 415V, 3Ph~, 60Hz
Cooling ¹	Capacity	Btu/h	166,000	266,000
		kW	48.4	78
	Power Input	W	15,100	23,750
Cooling ²	Cooling Capacity	Btu/h	140,000	232,000
		kW	41	67.6
	Power Input	W	17,500	27,950
Optional EHK ³	Power Input	\	20kW(EHK-20A-10/12.5T)	28kW (EHK-28A-25T)
	Power Input	\	28kW (EHK-28A-12.5T)	36kW (EHK-36A-25T)
Max. input consumption (Standard)		W	22,160	33,530
Max. input consumption (High static pressure)		W	24,260	36,280
Max. circuit ampacity		A	63	81.9
Max. overcurrent protection		A	70	90
Performance (Standard)	Indoor fan air flow	CFM	4,700	7,400
		l/s	2,162	3,404
	Outdoor fan air flow	CFM	14,750	11,190
		l/s	6,932	5,259
	ESP	Pa	90(0-200)	110(0-300)
		in.w.g.	0.36(0-0.8)	0.44(0-1.2)
	EER ¹	Btu/h.W	11	11.2
	EER ²	Btu/h.W	8	8.3
Performance (High static pressure)	Indoor fan air flow	CFM	4,700@90Pa	7,400@110Pa
		l/s	2,162	3,404
	Outdoor fan air flow	CFM	12,410	21,200
		l/s	6,932	5,259
	ESP	Pa	200-500	200-500
		in.w.g.	0.8-2.0	0.8-2.0
	EER ¹	Btu/h.W	11	11.2
	EER ²	Btu/h.W	8	8.3
Evaporator	Number of rows	\	4	4
	Fin spacing	mm	1.6	1.6
		inch	1/16	1/16
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube diameter	mm	Φ7.94	Φ7.94
		inch	5/16	5/16
	Tube type	\	Inner grooved copper pipe	
	Number of circuits	\	12+12	16+16

MRCT-150CWN1-Y(D), MRCT-200CWN1-Y(D) specifications (continued)

Nominal ton		(Ton)	15	20
Model			MRCT-150CWN1-Y(D)	MRCT-200CWN1-Y(D)
Evaporator fan (Standard)	Type	\	Centrifugal	Centrifugal
	Material	\	Metal	Metal
	Quantity	\	1	1
	Drive type	\	Belt, adjustable	Belt, adjustable
Evaporator fan (High static pressure)	Type	\	Centrifugal	Centrifugal
	Material	\	Metal	Metal
	Quantity	\	1	1
	Drive type	\	Belt, adjustable	Belt, adjustable
	Quantity	\	1	1
Compressor	Type	\	Scroll	Scroll
	Quantity	\	2	2
	Model	\	HLJ072T9LC6	SH120A9ALC
	Brand	\	Danfoss	Danfoss
	Capacity	W	20,680*2	32,620*2
		Btu/h	70,560*2	111,299*2
	Input	W	6,776*2	10,275*2
	RLA	A	12.2*2	26.4*2
	LRA	A	95*2	177*2
	Refrigerant oil	\	1.57	3.3
Condenser	Number of rows	\	3	3
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe
	Number of circuits	\	12+12	34+34
Condenser Fan	Type	\	Axial	Axial
	Material	\	Metal	Metal
	Quantity	\	2	2
	Drive type	\	Direct	Direct
	Motor quantity	\	2	2
Outdoor sound pressure level ⁴		dB(A)	67.6	75
Refrigerant	Type	\	R410A	R410A
	Volume	kg	7.5+6.9	14+14
		lbs	16.53+15.21	30.88+30.88
	Control	\	Throttle valve	Throttle valve
Power wires		\	4×4AWG+1×6AWG	4×2AWG+1×4AWG
		\	4×21mm ² +1×13mm ²	4×33mm ² +1×21mm ²
Thermostat (Standard)		\	KJR-29B/BK-E	KJR-29B/BK-E
Thermostat (Optional, 220V signal)		\	Yes	Yes
Centralized controller (Optional)		\	Yes	Yes
Operation temperature	°C		17 - 30	17 - 30
	°F		62 - 88	62 - 88
Drainage pipe		\	3/4" NPT	3/4" NPT
Ambient temperature	°C		10- 52	10- 52
	°F		50 - 125.6	50 - 125.6

MRCT-150CWN1-Y(D), MRCT-200CWN1-Y(D) specifications (continued)

Nominal ton		(Ton)	15	20
Model			MRCT-150CWN1-Y(D)	MRCT-200CWN1-Y(D)
Net dimensions (W×H×D)		mm	2,230×1,255×1,965	2,885×1,655×2,230
		inch	87-7/8 × 49-3/8 × 77-3/8	113-5/8 × 65-1/8 × 87-7/8
Packing dimensions (W×H×D)		mm	2,240×1,290×1,980	2,895×1,690×2,230
		inch	88-1/4 × 50-3/4 × 78	114 × 66-1/2 × 87-7/8
Net / Gross weight		kg	660/715	1,177/1,257
		lbs	1,452/1,573	2,589/2,765
Filter	Quantity	\	3	3
	Type	\	Nylon	Nylon
	Size	mm	(1,040×575×12) ×3	(1,420×640×12.5) ×3
		inch	(41 × 22-5/8 × 1/2) ×3	(55-7/8 × 25-1/4 × 1/2) ×3

Notes:

- Cooling capacity test condition 1: Outdoor ambient temperature: 35°C (95°F), indoor temperature: 27°C (80.6°F) DB/19°C (66.2°F) WB
- Cooling capacity test condition 2: Outdoor ambient temperature: 46°C (114.8°F), indoor temperature: 29°C (84.2°F) DB/19°C (66.2°F) WB.;
- EHK means Electric Heater Kit. Only one EHK can be optional to fix per unit.
- Sound pressure level values are measured in a semi-anechoic room, at a position 1 meter in front of the unit and (1 meter + Height of the unit) / 2 above the floor;
- Specifications are subject to change without prior notice for product improvement.

MRCT-250CWN1-Y(D) specifications

Nominal ton		(Ton)	25	30
Model			MRCT-250CWN1-Y(D)	MRCT-300CWN1-Y(DH)
Type			Side-discharge	Side-discharge
Power Supply		\	380 - 415V, 3Ph~, 60Hz	380-415V-3N~60Hz
Cooling ¹	Capacity	Btu/h	282,000	302,000
		kW	82.6	88.5
	Power Input	W	28,200	30,200
Cooling ²	Cooling Capacity	Btu/h	248,000	264,000
		kW	72.7	77.37
	Power Input	W	34,100	37,200
Optional EHK ³	Power Input	\	28kW (EHK-28A-25T)	28kW (EHK-28A-25T)
	Power Input	\	36kW (EHK-36A-25T)	36kW (EHK-36A-25T)
Max. input consumption (Standard)		W	40,500	/
Max. input consumption (High static pressure)		W	43,850	4,4850
Max. circuit ampacity		A	81.9	86.8
Max. overcurrent protection		A	90	90
Performance (Standard)	Indoor fan air flow	CFM	10,000	/
		l/s	4,722	/
	Outdoor fan air flow	CFM	21,200	/
		l/s	10,011	/
	ESP	Pa	110 (0 - 300)	/
		in.w.g.	0.44 (0 - 1.2)	/
	EER ¹	Btu/h.W	10.0	/
	EER ²	Btu/h.W	7.2	/
Performance (High static pressure)	Indoor fan air flow	CFM	10,000 @110Pa	11,150@300Pa
		l/s	4,722	5,265
	Outdoor fan air flow	CFM	21,200	21,200
		l/s	10,011	10,011
	ESP	Pa	200 - 500	200 – 475
		in.w.g.	0.8 - 2.0	0.8 - 1.9
	EER ¹	Btu/h.W	10.0	10.0
	EER ²	Btu/h.W	7.3	7.1
Evaporator	Number of rows	\	4	4
	Fin spacing	mm	1.6	1.6
		inch	1/16	1/16
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube diameter	mm	Φ7.94	Φ7.94
		inch	5/16	5/16
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe
Number of circuits		\	16+16	16+16

MRCT-250CWN1-Y(D) specifications (continued)

Nominal ton		(Ton)	25	30
Model			MRCT-250CWN1-Y(D)	MRCT-300CWN1-Y(D)
Evaporator fan (Standard)	Type	\	Centrifugal	Centrifugal
	Material	\	Metal	Metal
	Quantity	\	1	1
	Drive type	\	Belt, adjustable	Belt, adjustable
Evaporator fan (High static pressure)	Type	\	Centrifugal	Centrifugal
	Material	\	Metal	Metal
	Quantity	\	1	1
	Drive type	\	Belt, adjustable	Belt, adjustable
	Quantity	\	1	1
Compressor	Type	\	Scroll	Scroll
	Quantity	\	2	• 2
	Model	\	SH140A9ALC	SH140A9ALC
	Brand	\	Danfoss	Danfoss
	Capacity	W	42,299	42,299
		Btu/h	144,324	144,324
	Input	W	12,944	12,944
	RLA	A	26.4	26.4
	LRA	A	168	168
	Refrigerant oil	\	POE-160SZ (3,300ml)	POE-160SZ (3,300ml)
Condenser	Number of rows	\	(3+3)×2+(3+3)	3
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe
	Number of circuits	\	34+34	34+34
Condenser Fan	Type	\	Axial	Axial
	Material	\	PBT (Polybutylene Terephthalate) + 30% Glass Fiber	PBT (Polybutylene Terephthalate) + 30% Glass Fiber
	Quantity	\	2	2
	Drive type	\	Direct	Direct
	Motor quantity	\	2	2
Outdoor sound pressure level ⁴		dB(A)	79.0	79.0
Refrigerant	Type	\	R410A	R410A
	Volume	kg	14.0+14.0	14.0+14.0
		lbs	30.88+30.88	30.88+30.88
	Control	\	TXV	Capillary
Power wires		\	4×2AWG+1×4AWG	4×1AWG+1×2AWG
		\	4×33mm ² +1×21mm ²	4×33mm ² +1×21mm ²
Thermostat (Standard)		\	KJR-29B/BK-E	KJR-29B/BK-E
Thermostat (Optional, 220V signal)		\	Yes	Yes
Centralized controller (Optional)		\	Yes	Yes

MRCT-250CWN1-Y(D) specifications (continued)

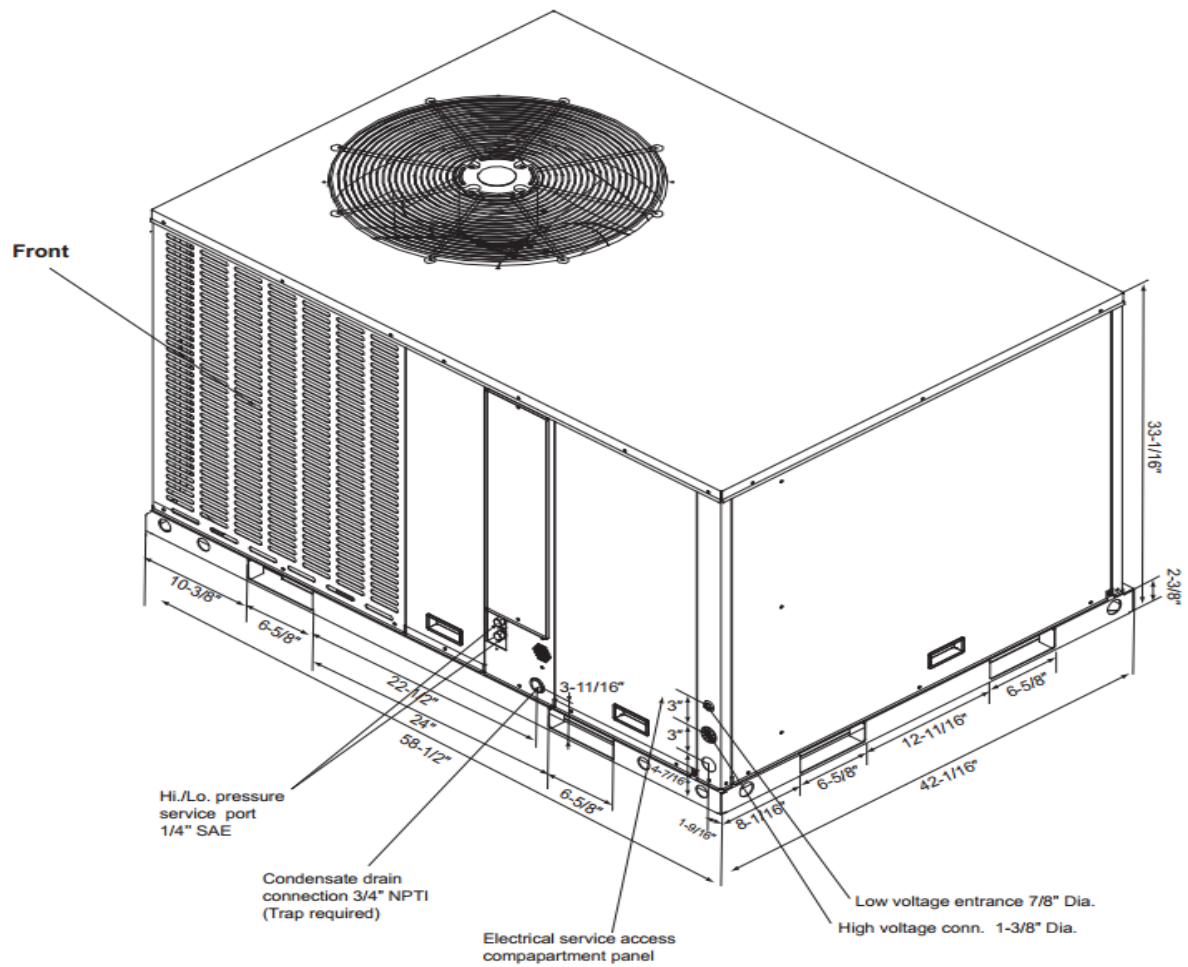
Nominal ton		(Ton)	25	30
Model			MRCT-250CWN1-Y(D)	MRCT-300CWN1-Y(D)
Operation temperature	°C		17 - 30	17-30
	°F		62 - 88	62-88
Drainage pipe	\		3/4" NPT	3/4" NPT
Ambient temperature	°C		10- 52	10-52
	°F		50 - 125.6	50 - 125.6
Net dimensions (W×H×D)	mm		2,885×1,655×2,230	2,885×1,655×2,230
	inch		113-5/8 × 65-1/8 × 87-7/8	113-5/8×65-1/8×87-7/8
Packing dimensions (W×H×D)	mm		2,895×1,690×2,230	2,895×1,690×2,230
	inch		114 × 66-1/2 × 87-7/8	114×66-1/2×87-7/8
Net / Gross weight	kg		1,180 / 1,260	1,190 / 1,260
	lbs		2,602 / 2,778	2,602 / 2,778
Filter	Quantity	\	3	3
	Type	\	Nylon	Nylon
	Size	mm	(1,420×640×12.5) ×3	(1,420 × 640 × 12.5)×3
		inch	(55-7/8 × 25-1/4 × 1/2) ×3	(55-7/8 × 25-1/4 × 1/2)×3

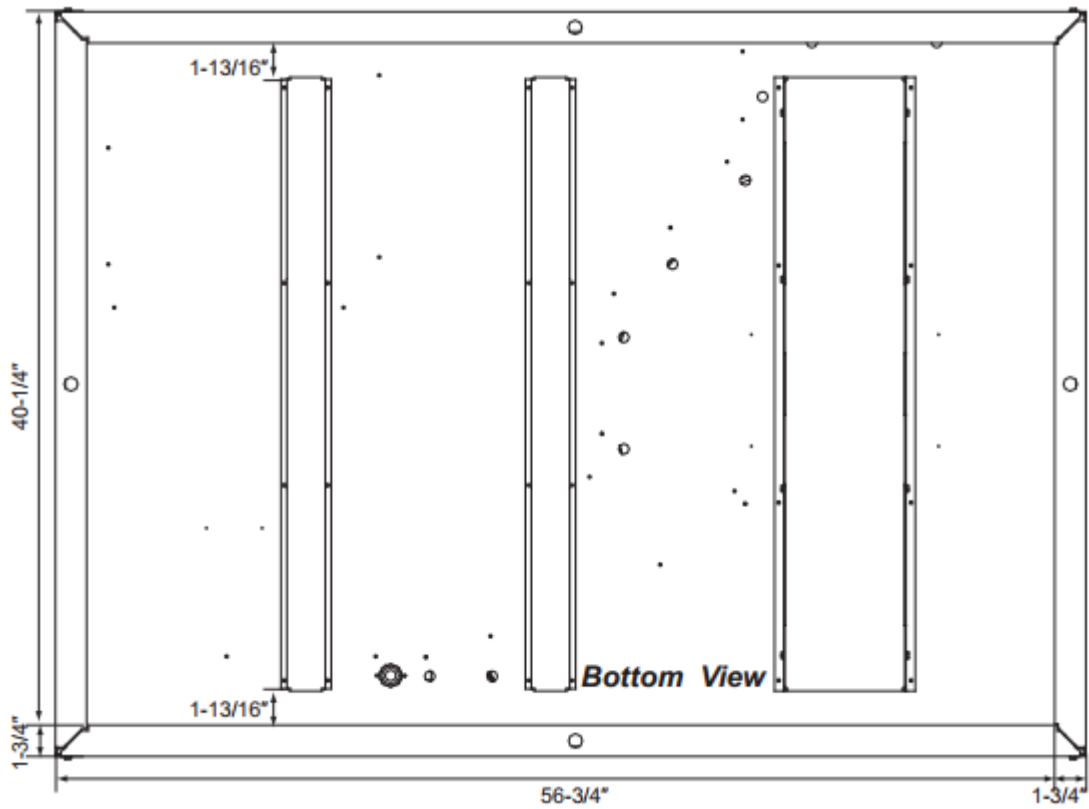
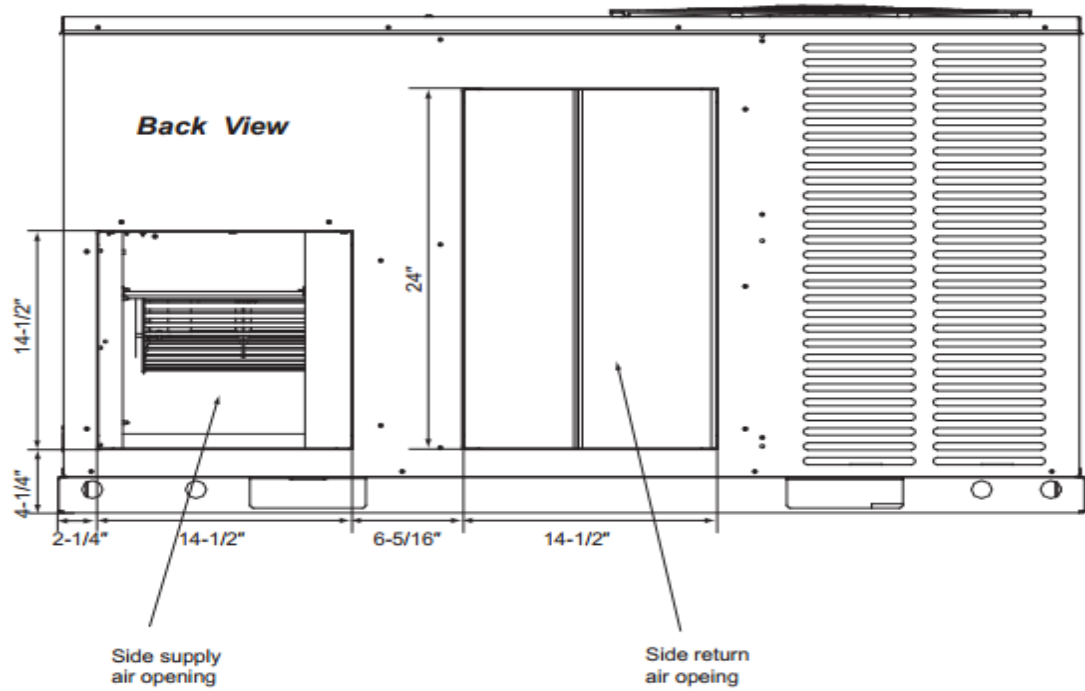
Notes:

- Cooling capacity test condition 1: Outdoor ambient temperature: 35°C (95°F), indoor temperature: 27°C (80.6°F) DB/19°C (66.2°F) WB
- Cooling capacity test condition 2: Outdoor ambient temperature: 46°C (114.8°F), indoor temperature: 29°C (84.2°F) DB/19°C (66.2°F) WB.;
- EHK means Electric Heater Kit. Only one EHK can be optional to fix per unit.
- Sound pressure level values are measured in a semi-anechoic room, at a position 1 meter in front of the unit and (1 meter + Height of the unit) / 2 above the floor;
- Specifications are subject to change without prior notice for product improvement.

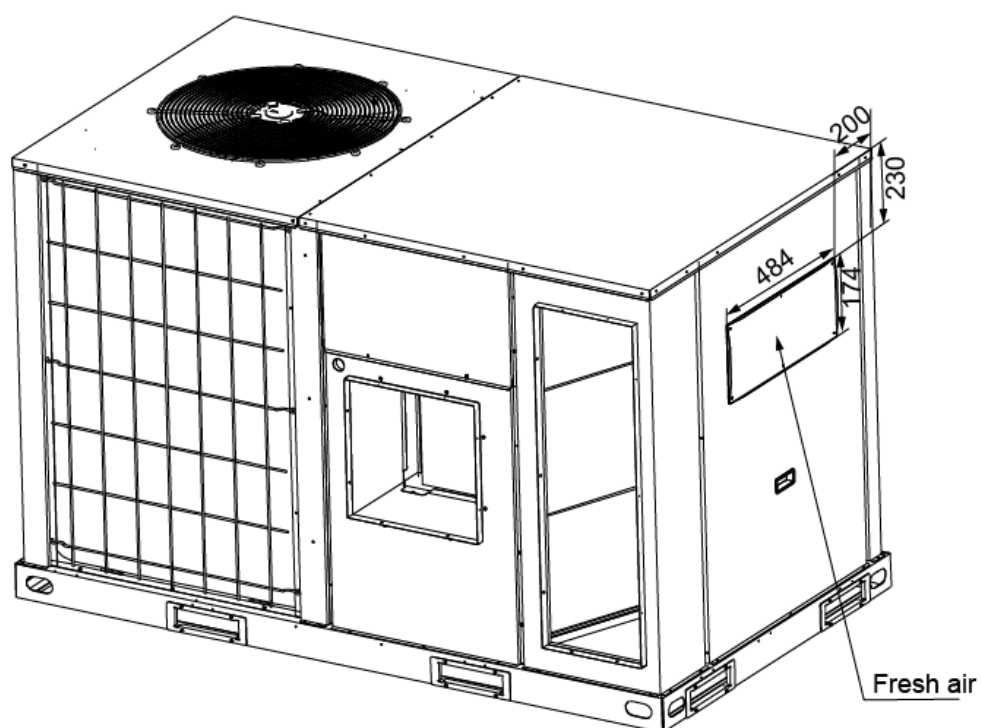
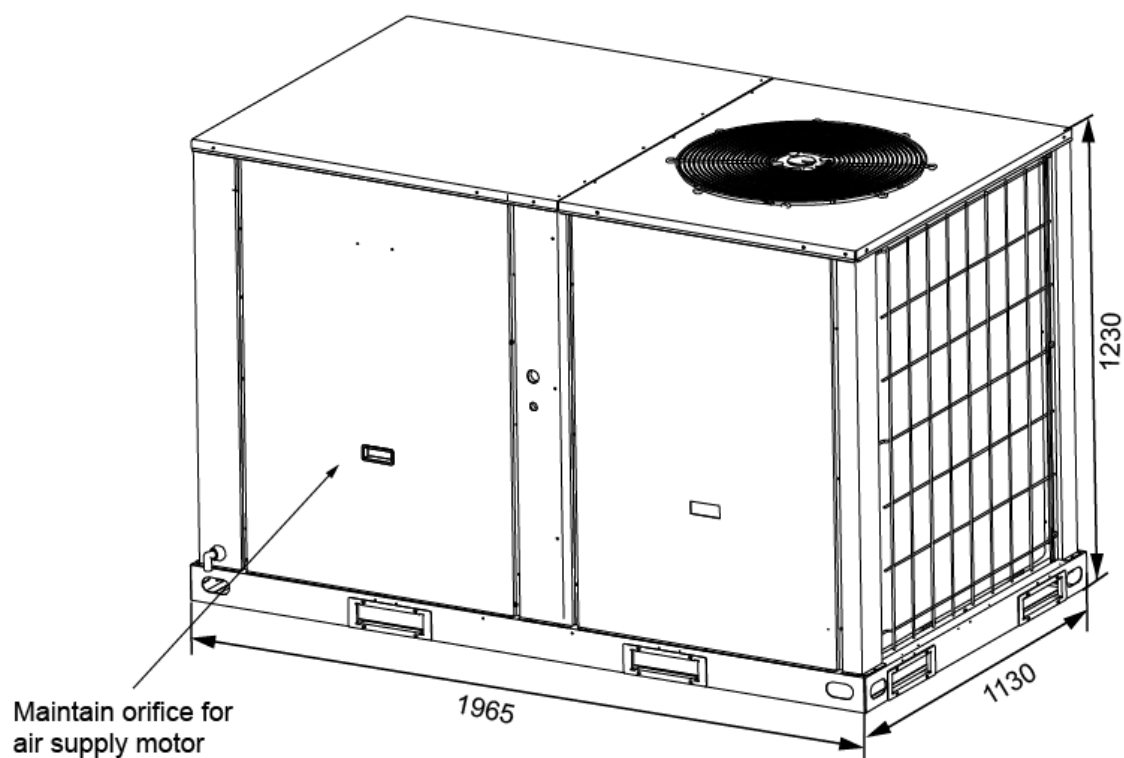
3. Dimensions Drawings

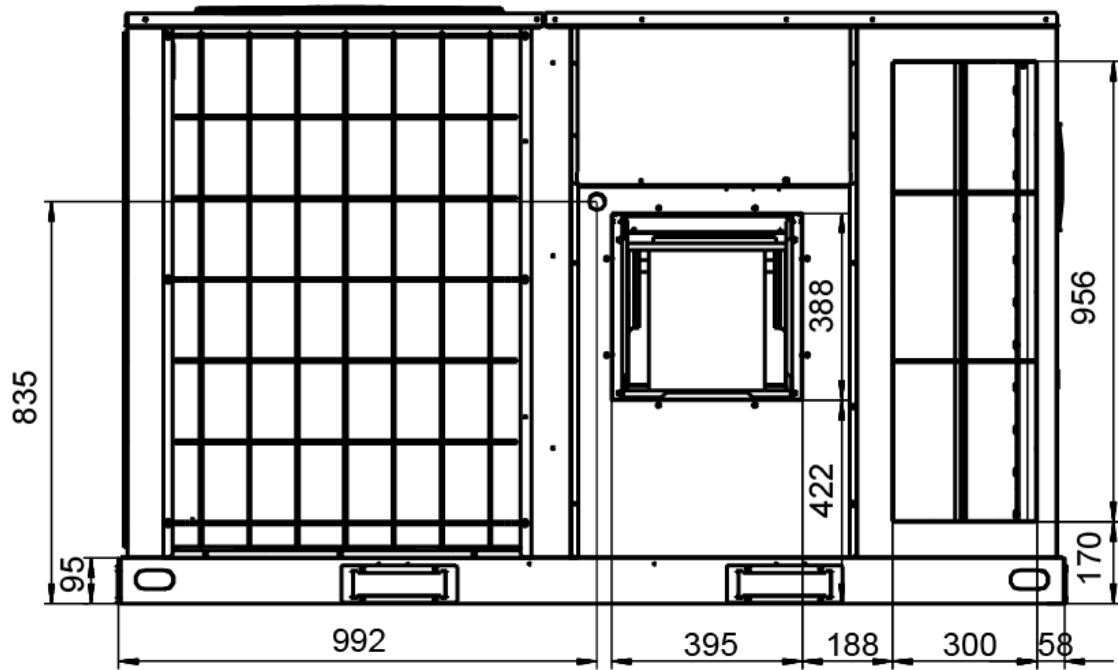
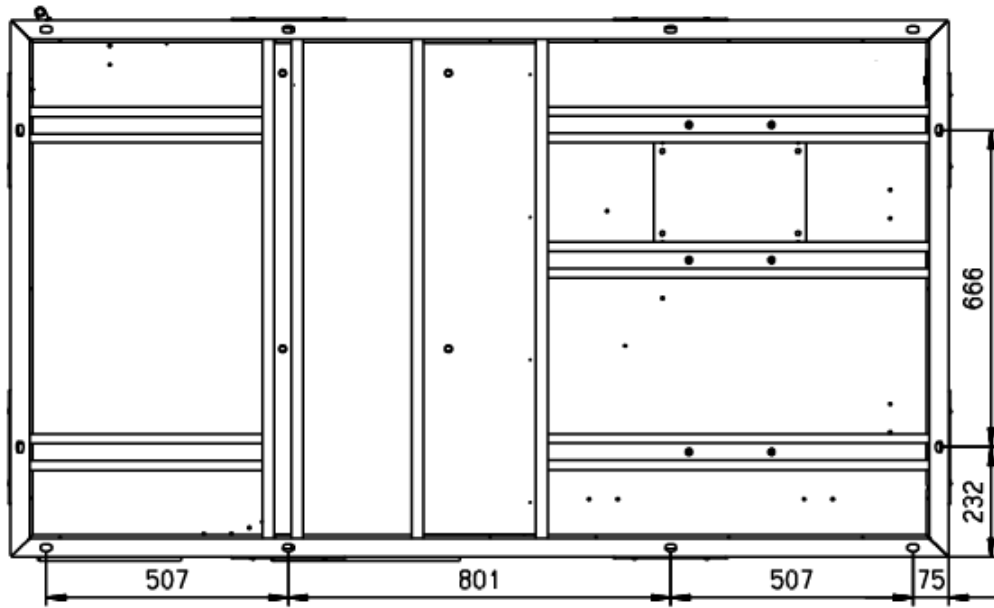
MRCT-050CWN1-M: (Unit: mm)



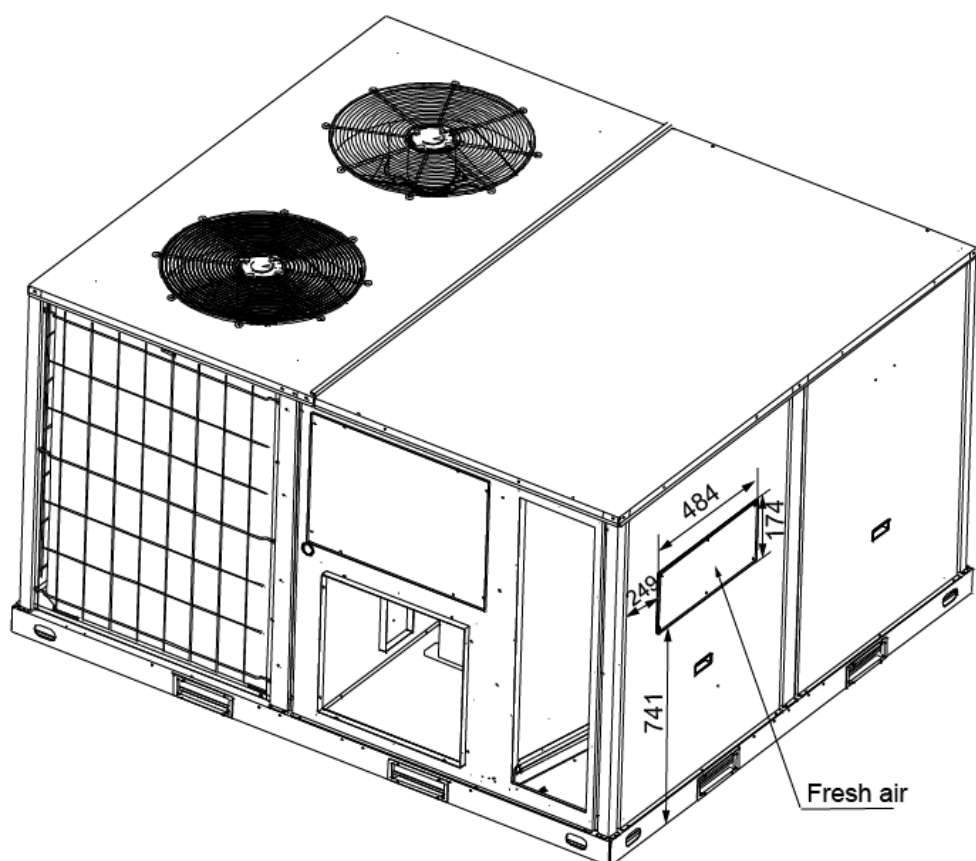
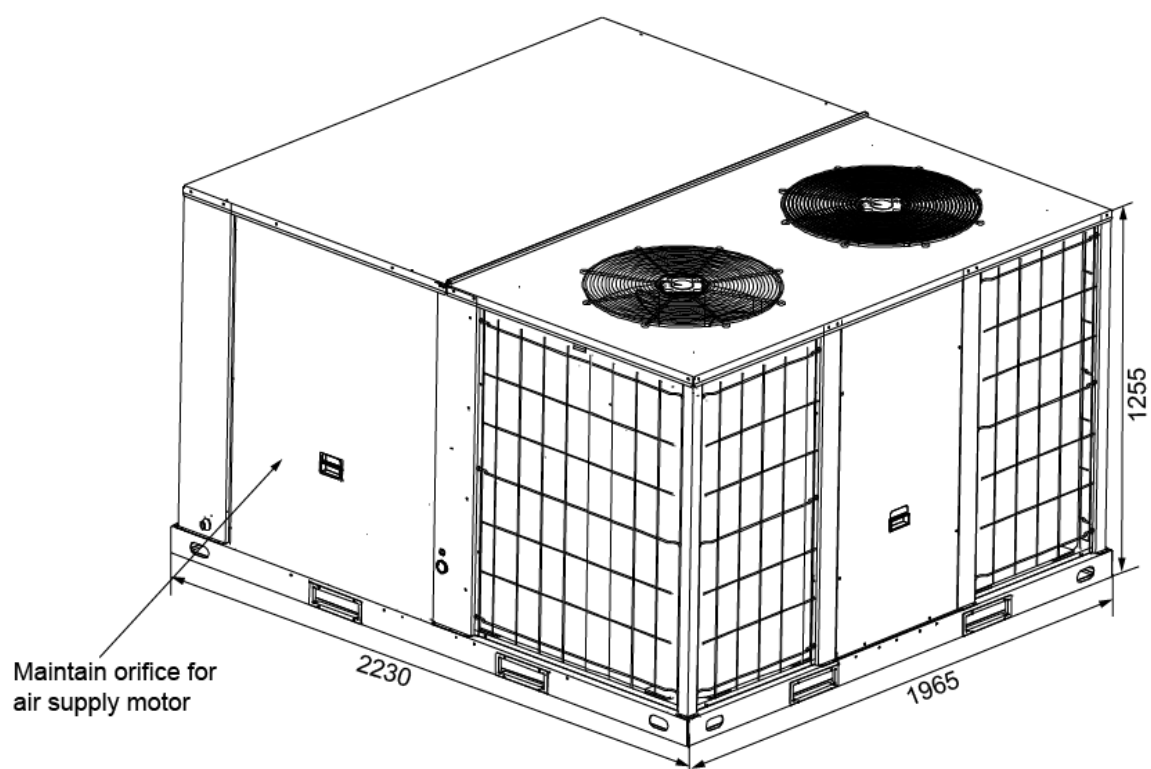


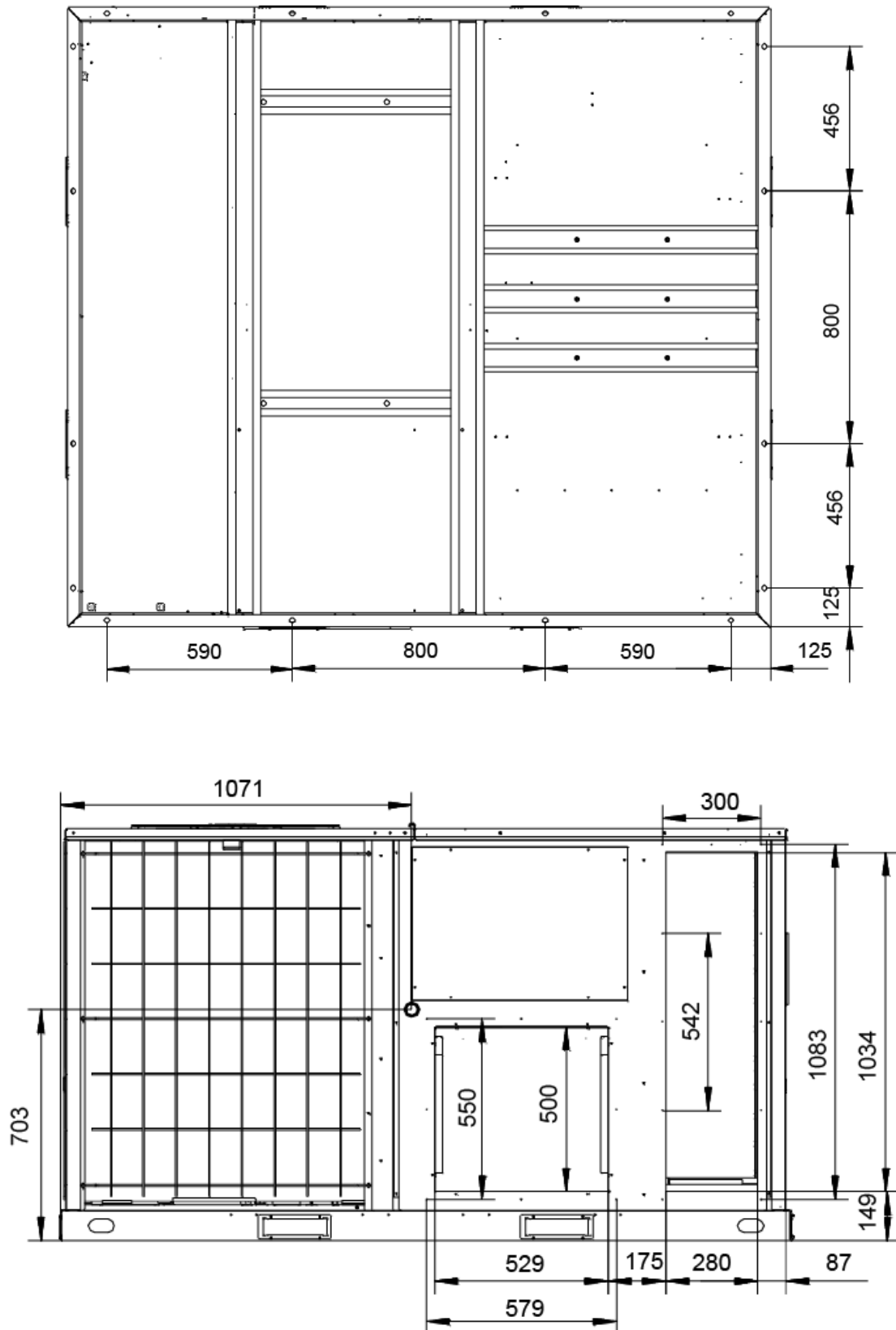
MRCT-062CWN1-Y(D) / MRCT-075CWN1-Y(D): (Unit: mm)



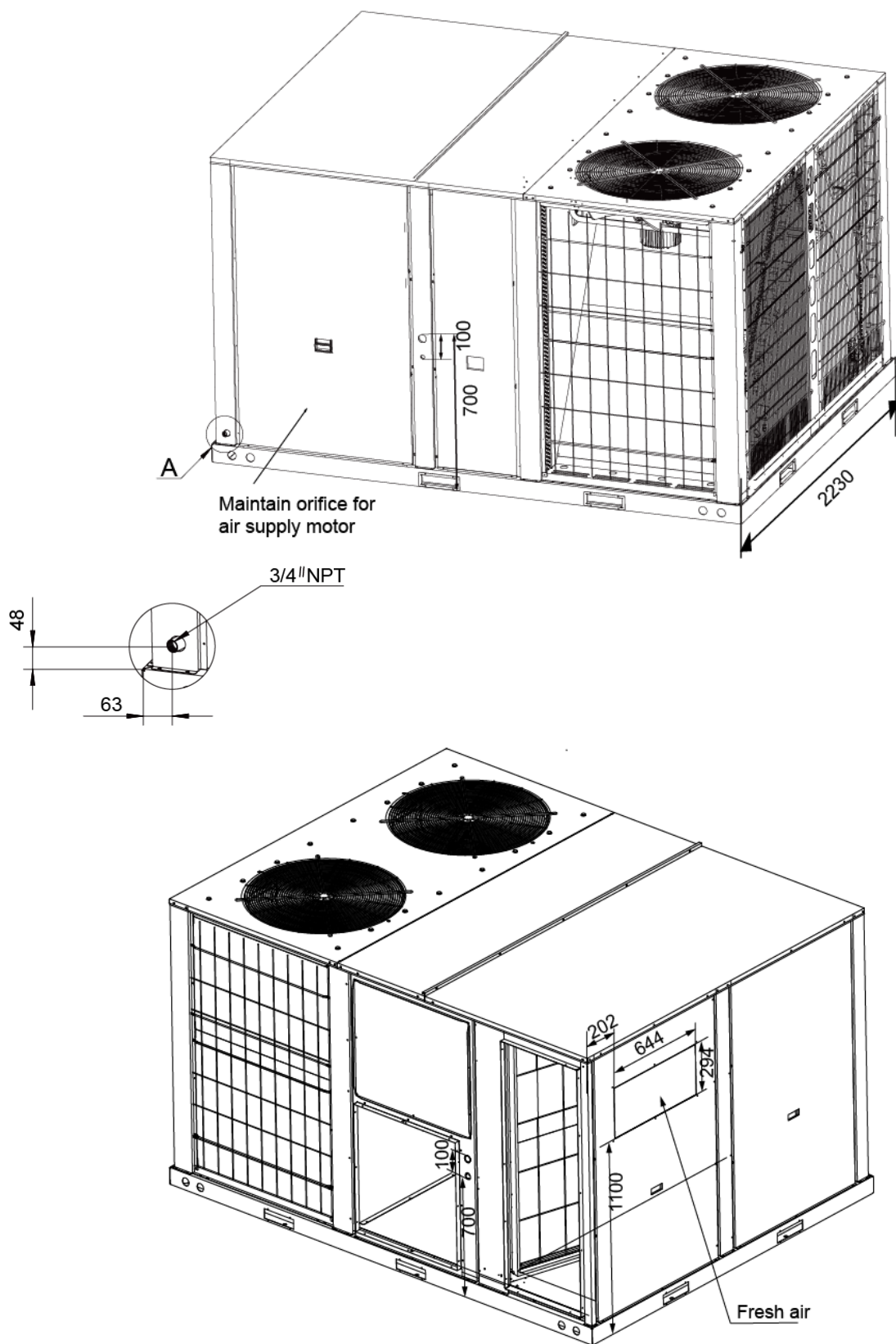


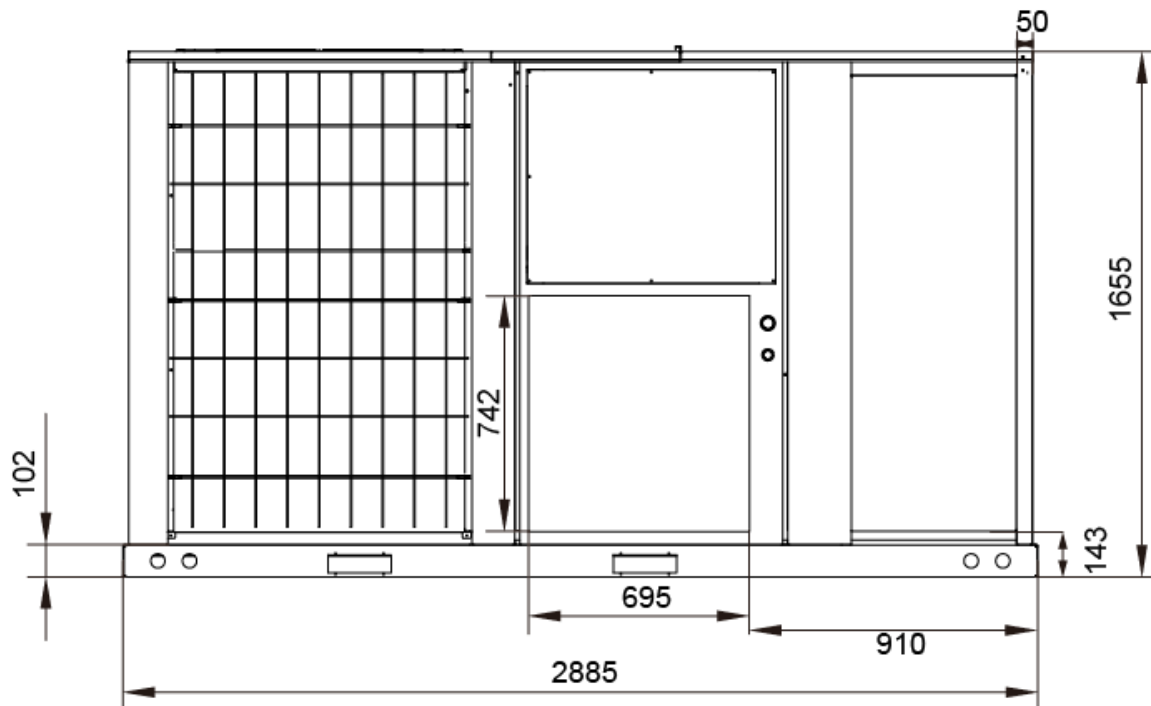
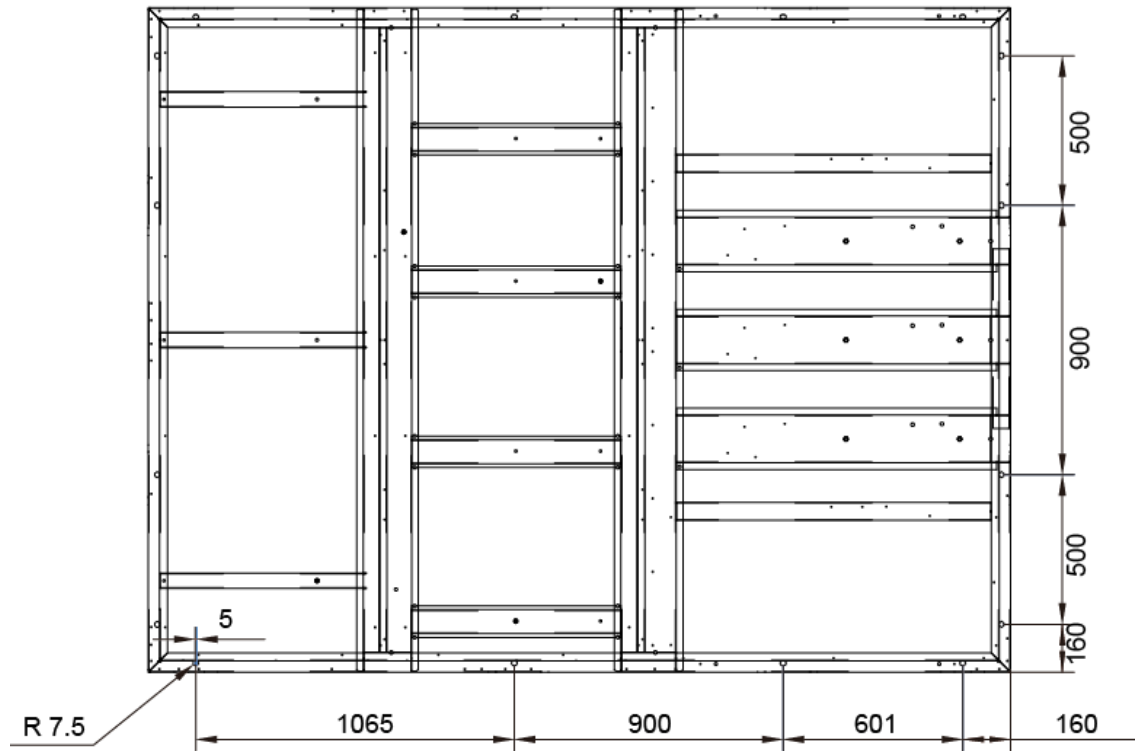
MRCT-100CWN1-Y(D), MRCT-125CWN1-Y(D), MRCT-150CWN1-Y(D): (Unit: mm)





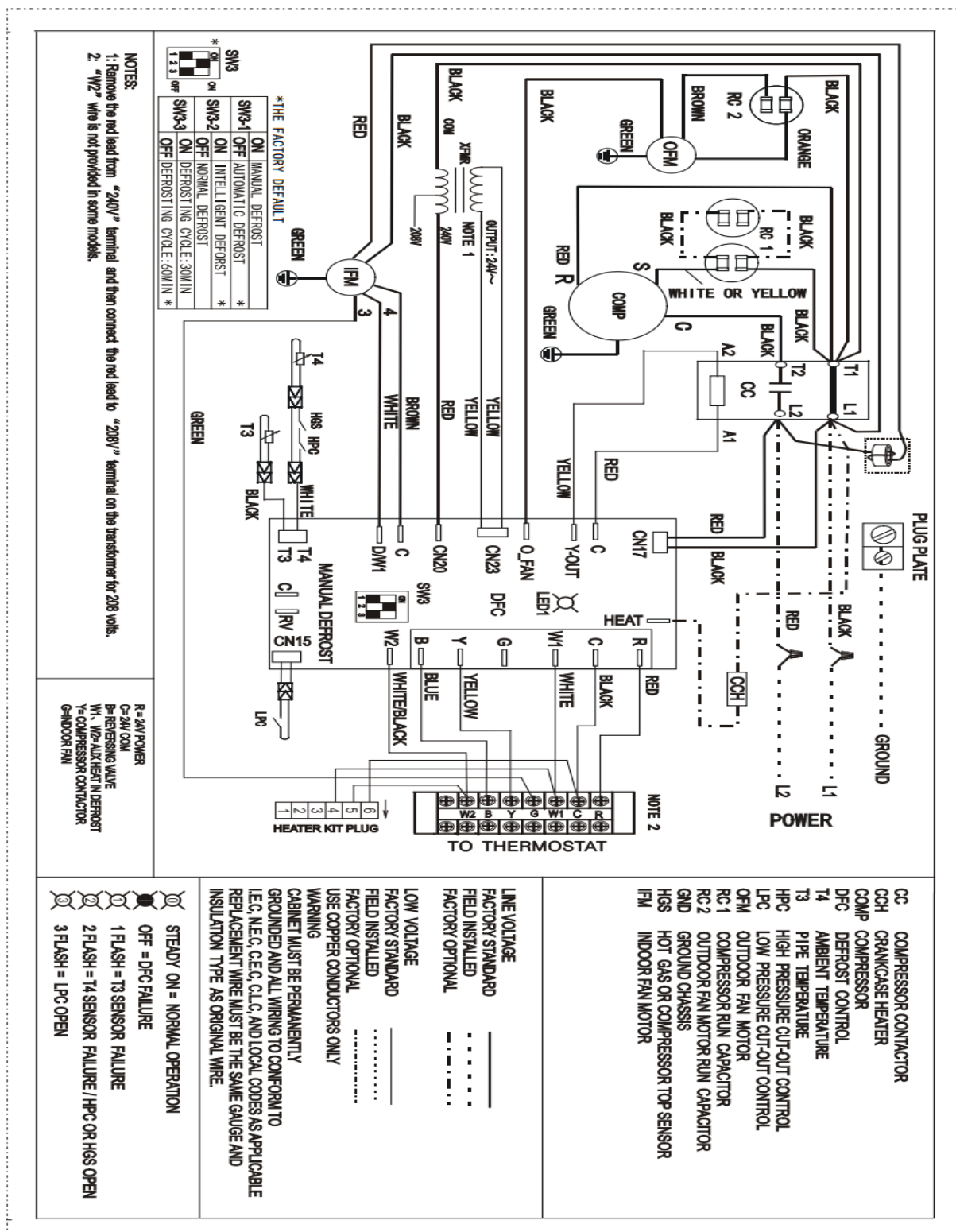
MRCT-200CWN1-Y(D), MRCT-250CWN1-Y(D), MRCT-300CWN1-Y(DH): (Unit: mm)

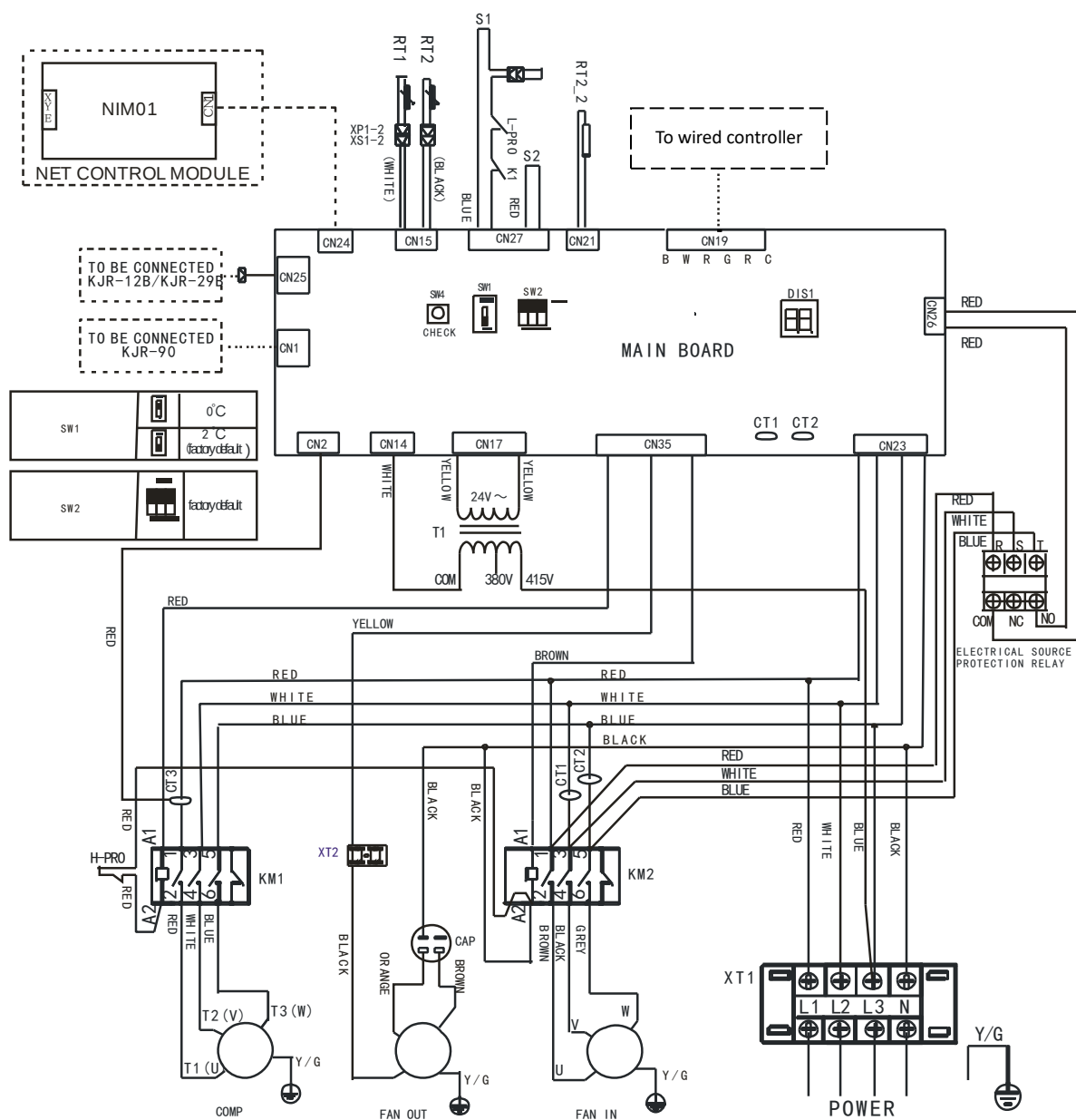




4. Wiring Diagrams

MRCT-050CWN1-M:

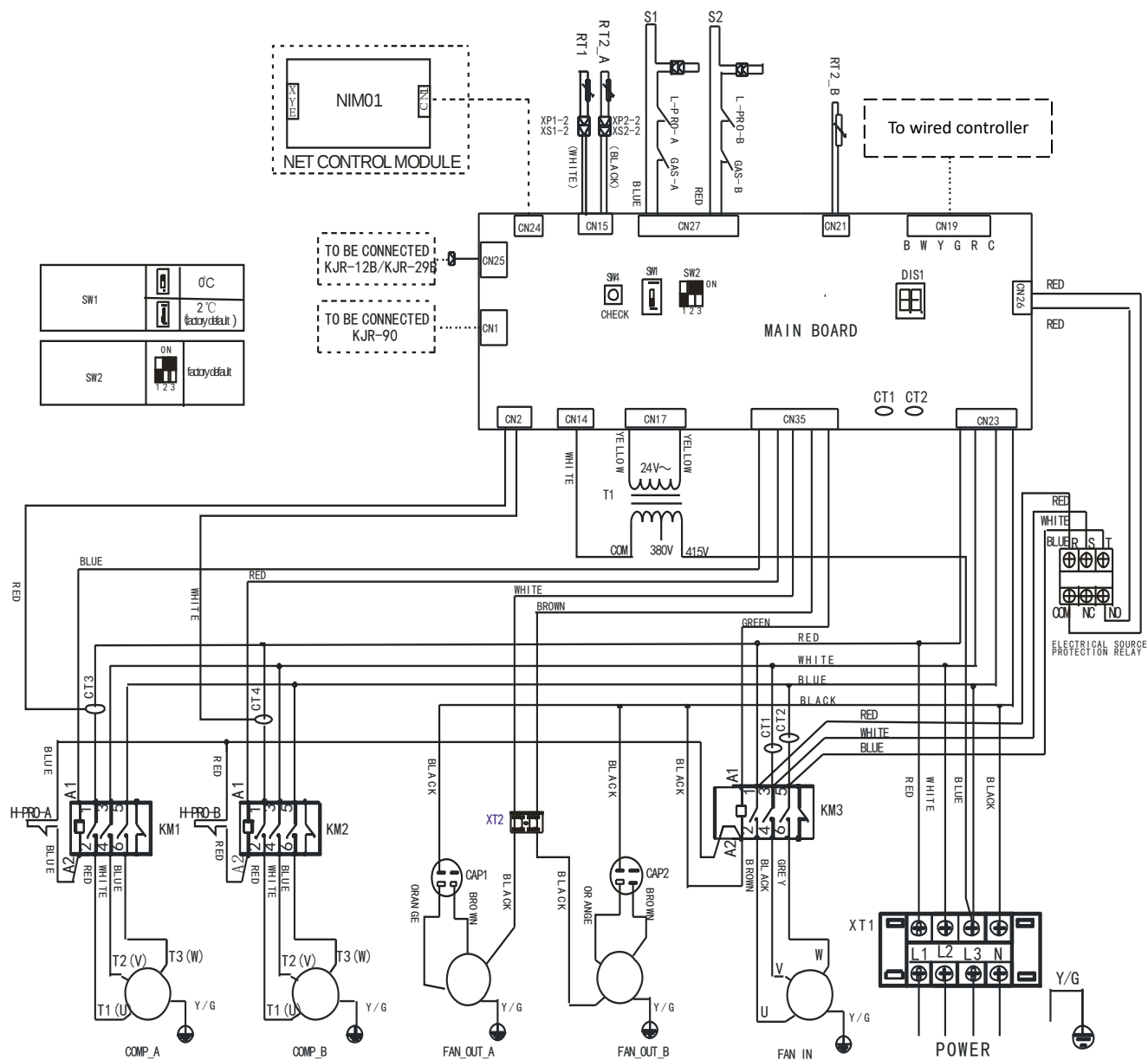


MRCT-062CWN1-Y(D), MRCT-075CWN1-Y(D):

CODE	TITLE
COMP	COMPRESSOR
FAN_OUT	OUTDOOR FAN
FAN_IN	INDOOR FAN
KM1~KM2	CONTACTOR
T1	TRANSFORMER
CT1, CT2, CT3	CURRENT INDUCTOR
XT1	4-WAY TERMINAL
XT2	SMALL 2-WAY TERMINAL
RT1	INDOOR ROOM TEMP. SENSOR
RT2	INDOOR PIPE TEMP. SENSOR
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
K1	TEMP PROTECTION SWITCH
XS1-2	CONNECTORS
XP1-2	CONNECTORS
CAP	OUTDOOR FAN CAP
RT2_2	10K RESISTOR

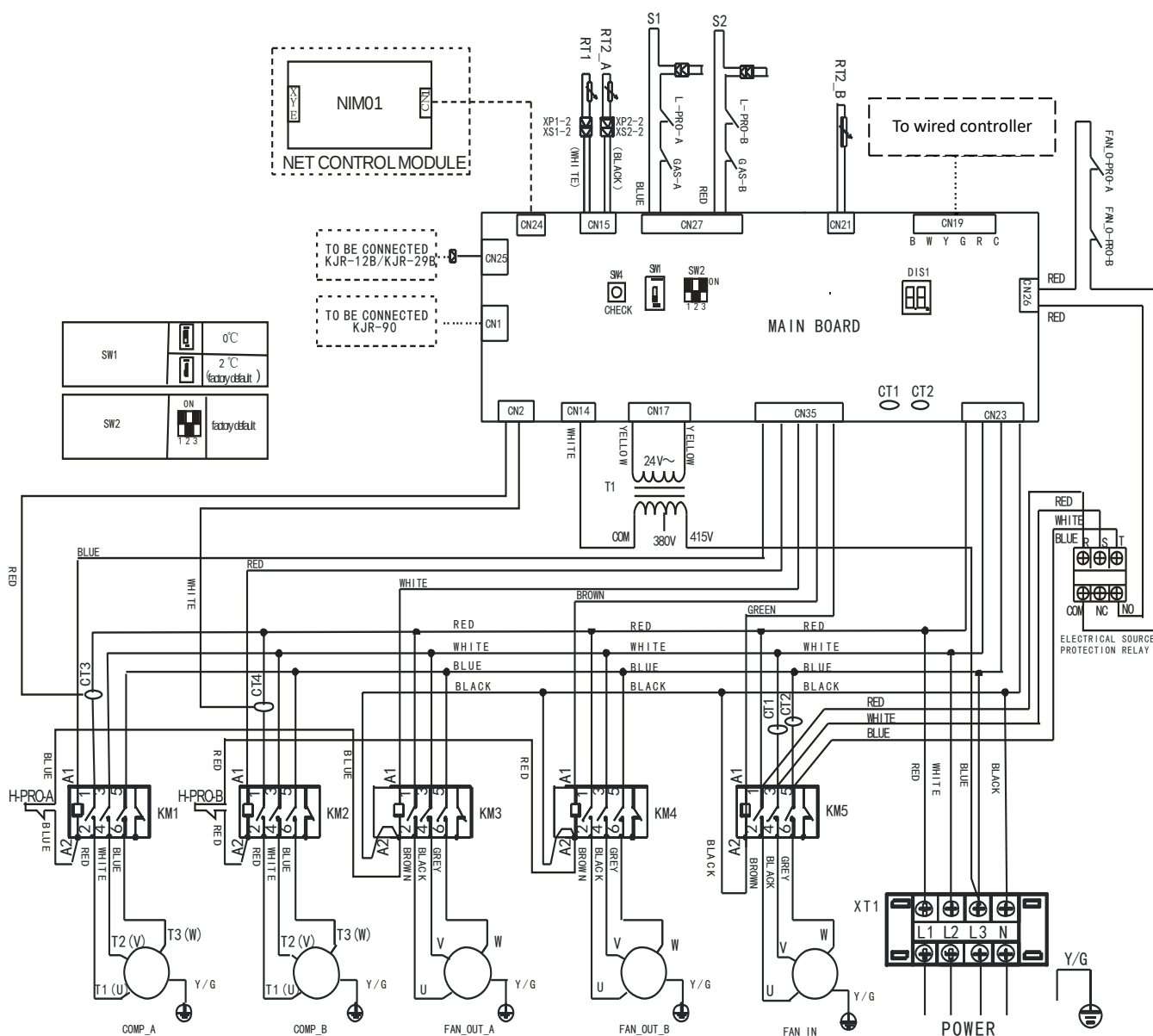
SW4 Check Button

No.	Description
1	1-Single system 2-Double system
2	RT1 Temperature
3	RT2 Temperature
4	Reserved
5	Indoor fan current
6	Compressor current
7	Reserved
8	The last fault code

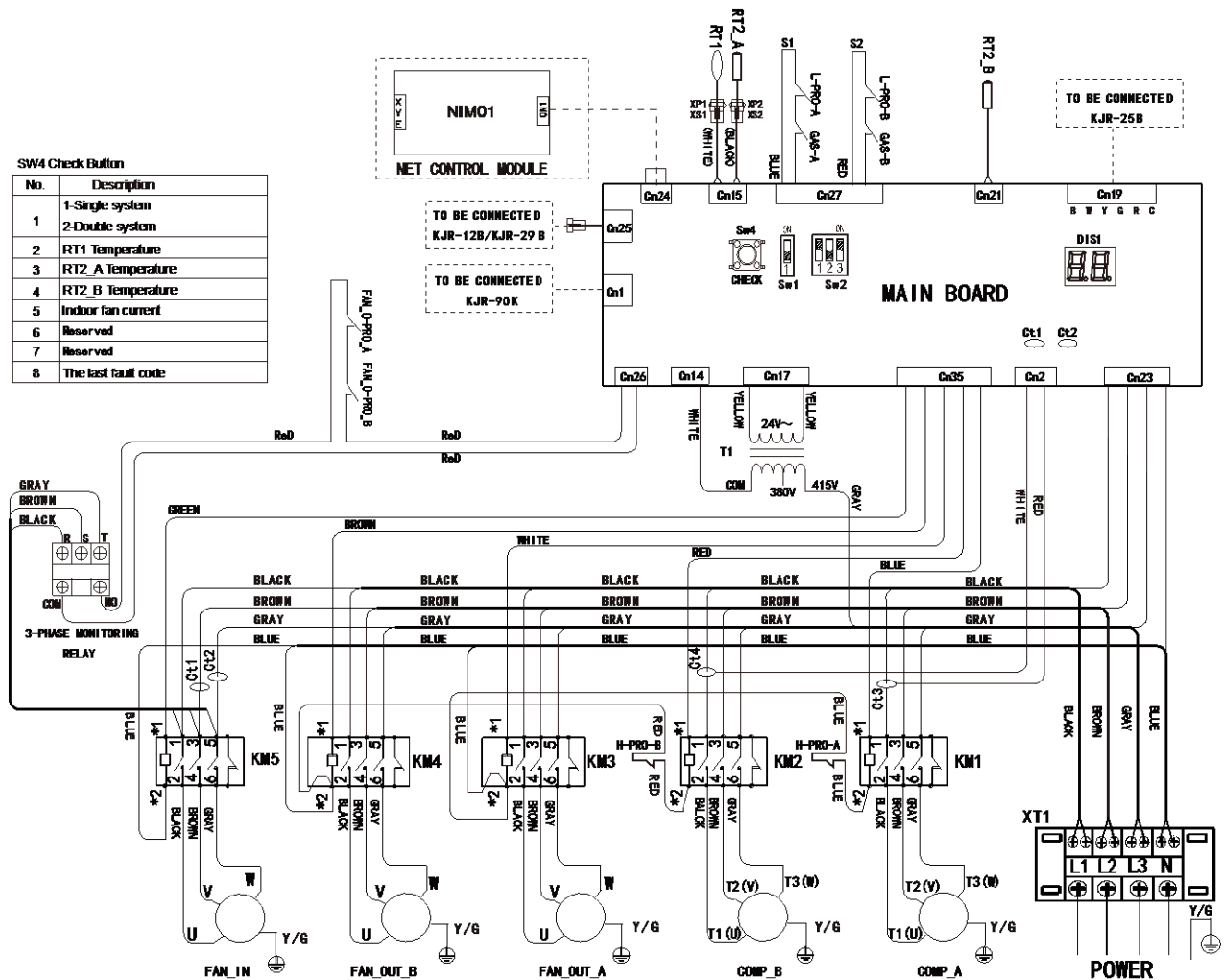
MRCT-100CWN1-Y(D):

CODE	TITLE
COMP_A, COMP_B	COMPRESSOR
FAN_OUT_A, FAN_OUT_B	OUTDOOR FAN
FAN_IN	INDOOR FAN
KM1~KM3	CONTACTOR
T1	TRANSFORMER
CT1, CT2, CT3, CT4	CURRENT INDUCTOR
XT1	4-WAY TERMINAL
XT2	2-WAY TERMINAL
RT1	INDOOR ROOM TEMP. SENSOR
RT2_A, RT2_B	INDOOR PIPE TEMP. SENSOR
H-PRO-A, H-PRO-B	HIGH PRESSURE SWITCH
L-PRO-A, L-PRO-B	LOW PRESSURE SWITCH
GAS-A, GAS-B	TEMP. PROTECTION SWITCH
XS1-2, XS2-2	CONNECTORS
XP1-2, XP2-2	CONNECTORS
CAP1, CAP2	OUTDOOR FAN CAP

No.	Description
1	1-Single system 2-Double system
2	RT1 Temperature
3	RT2_A Temperature
4	RT2_B Temperature
5	Indoor fan current
6	Compressor A current
7	Compressor B current
8	The last fault code

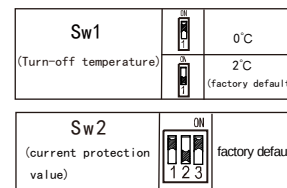
MRCT-125CWN1-Y(D):

CODE	TITLE
COMP_A, COMP_B	COMPRESSOR
FAN_OUT_A, FAN_OUT_B	OUTDOOR FAN
FAN_IN	INDOOR FAN
KM1~KM5	CONTACTOR
T1	TRANSFORMER
CT1, CT2, CT3, CT4	CURRENT INDUCTOR
XT1	4-WAY TERMINAL
RT1	INDOOR ROOM TEMP. SENSOR
RT2_A, RT2_B	INDOOR PIPE TEMP. SENSOR
H-PRO-A, H-PRO-B	HIGH PRESSURE SWITCH
L-PRO-A, L-PRO-B	LOW PRESSURE SWITCH
GAS-A, GAS-B	TEMP. PROTECTION SWITCH
XS1-2, XS2-2	CONNECTORS
XP1-2, XP2-2	CONNECTORS
FAN0-PRO-A, FAN0-PRO-B	OUTDOOR FAN PROTECTION SWITCH

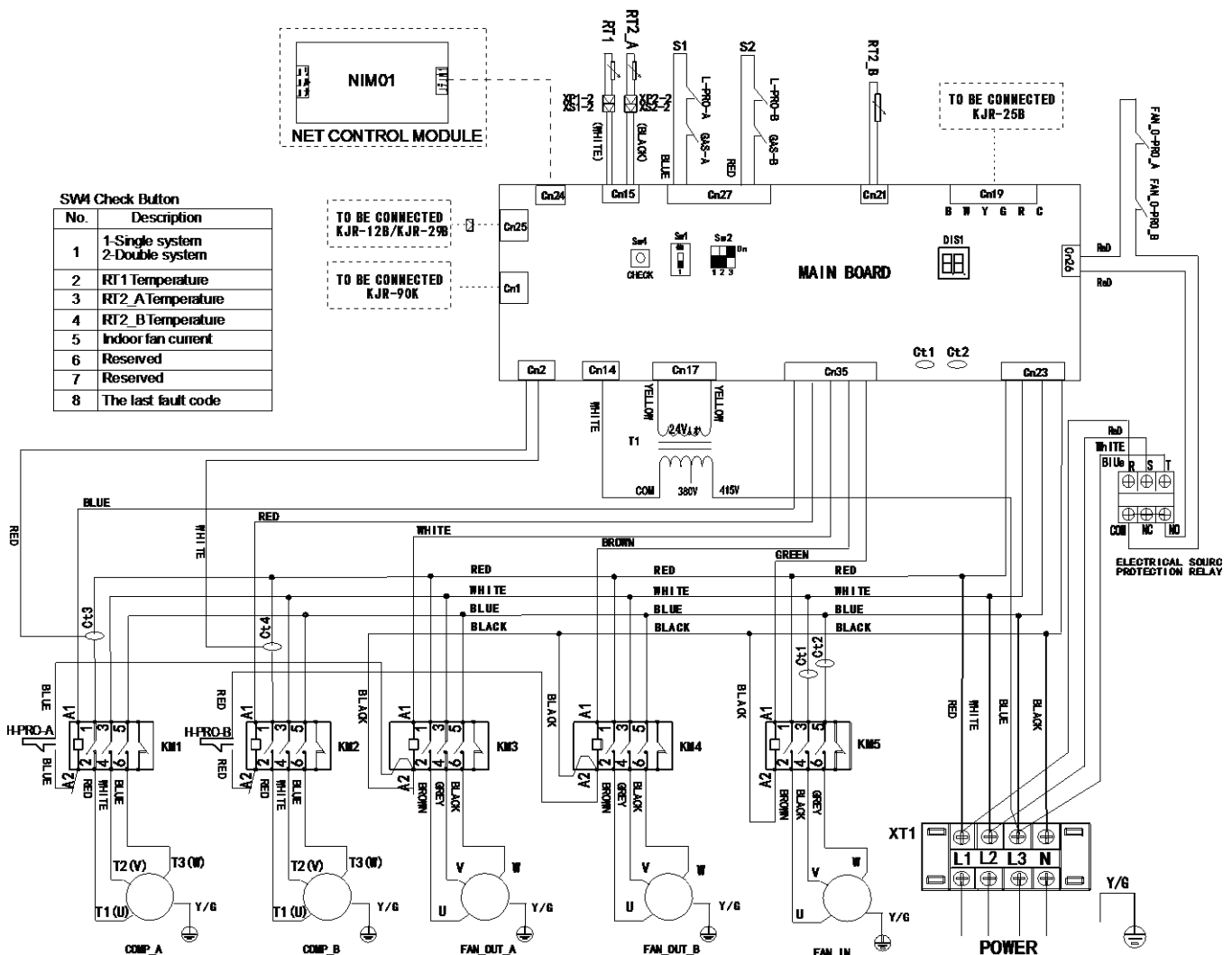
MRCT-150CWN1-Y(D):

Error Code For Outdoor Unit

Display	Error description
--	Standby
10.	Run
E0	Power phase error
E5	Indoor coil sensor error for A system
E6	Indoor coil sensor error for B system
E9	Indoor sensor error
Eb	Thermostat output error (for KJR-25B/honeywell)
Ed	Thermostat connection error (two or more thermostat connection)
P2	Overcurrent protection for indoor fan
P3	Protection of outdoor fan or power protector
P4	Protection of low pressure or compressor discharge temperature in A system
P5	Protection of low pressure or compressor discharge temperature in B system
pE	High pressure protection in A system
pF	High pressure protection in B system
Pc	Anti-freezing protection of evaporator in A system
Pd	Anti-freezing protection of evaporator in B system



CODE	TITLE
COMP_A, COMP_B	COMPRESSOR
FAN_OUT_A, FAN_OUT_B	OUTDOOR FAN
FAN_IN	INDOOR FAN
KM1~KM5	CONTACTOR
T1	TRANSFORMER
CT1, CT2, CT3, CT4	CURRENT SENSOR
XT1	4-WAY TERMINAL
RT1	INDOOR ROOM TEMP. SENSOR
RT2_A, RT2_B	INDOOR PIPE TEMP. SENSOR
H-PRO-A, H-PRO-B	HIGH PRESSURE SWITCH
L-PRO-A, L-PRO-B	LOW PRESSURE SWITCH
GAS-A, GAS-B	TEMP PROTECTION SWITCH
XS1, XS2	CONNECTOR
XP1, XP2	CONNECTOR
FAN_O-PRO_A, FAN_O-PRO_B	OUTDOOR FAN PROTECTION SWITCH

MRCT-250CWN1-Y(D), MRCT-300CWN1-Y(DH):

5. Performance Data

Cooling capacity for MRCT-050CWN1-M:

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1,600	70	49.5	29.9	3952	52.6	29.4	4121	59.3	28.5	3787	44.5	21.5	4198	51.0	24.6	3998	56.7	18.7	4154
	75	51.8	33.7	4050	54.1	34.7	4295	61.9	34.7	3985	46.0	28.7	4325	52.1	32.5	4132	58.1	28.4	4294
	80	52.1	35.3	4175	55.2	40.4	4365	63.7	40.1	4095	47.2	36.7	4589	53.2	41.3	4321	59.1	36.8	4490
	85	53.2	37.1	4289	56.9	43.7	4425	64.9	45.3	4210	49.5	41.1	4752	54.2	45.0	4498	60.0	45.4	4668
2,000	70	54.7	37.2	4395	58.7	34.2	4520	65.4	32.7	4325	51.2	25.7	4950	55.0	27.6	4654	61.5	21.4	4833
	75	55.0	49.0	4420	59.1	38.6	4520	66.9	39.2	4550	52.2	43.3	4754	55.4	45.9	4875	62.8	32.7	5058
	80	56.7	56.7	4510	60.0	44.0	4520	67.6	44.7	4550	53.7	40.9	4950	56.2	42.8	4980	63.4	42.8	5176
	85	57.8	57.8	4621	61.2	47.2	4665	68.9	50.8	4621	54.8	44.7	5126	57.3	46.7	5121	63.8	52.9	5321
2,400	70	59.3	39.3	4705	62.4	37.4	4785	69.6	35.8	4792	55.3	28.7	5362	59.6	31.0	5321	65.3	23.4	5547
	75	60.8	42.9	4821	63.9	42.7	4921	72.1	43.0	4951	57.3	36.5	5527	61.2	38.9	5565	66.4	35.3	5795
	80	62.6	45.4	4922	65.4	48.8	5021	73.2	49.0	5121	58.8	45.5	5698	63.2	48.9	5721	67.9	46.3	5956
	85	64.1	48.2	5051	66.9	52.0	5136	74.7	55.4	5328	59.9	49.3	5897	65.4	53.8	5892	69.1	57.6	6138

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-050CWN1-M: (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1,600	70	41.2	25.9	5267	46.3	20.3	5405	50.2	14.5	5573	37.6	28.5	5128	39.6	18.5	5277	45.6	13.4	5457
	75	42.5	28.9	4453	47.9	27.8	4593	51.9	22.5	4766	38.2	30.8	5218	41.8	26.6	5368	47.1	21.2	5553
	80	43.9	31.0	4685	49.6	36.4	4832	52.9	30.6	5013	39.6	32.8	5321	42.1	34.7	5477	48.1	30.6	5670
	85	45.2	33.3	4892	50.3	39.9	5045	53.6	39.2	5232	40.2	34.2	5462	43.5	39.4	5627	49.6	41.6	5831
2,000	70	47.6	30.8	5021	51.5	24.6	5186	54.2	17.8	5385	41.5	31.3	5545	44.7	24.2	5725	50.2	18.5	5944
	75	48.6	34.2	5150	52.2	32.4	5318	58.6	29.9	5523	42.3	34.2	5691	45.1	44.6	5877	51.3	30.7	6103
	80	50.1	37.1	5260	52.3	39.8	5436	59.1	40.3	5651	43.5	37.3	5790	45.8	41.4	5982	51.8	42.7	6216
	85	51.1	39.6	5456	53.3	43.1	5640	59.5	50.7	5862	44.4	39.2	5790	46.7	44.8	5995	52.1	48.4	6238
2,400	70	52.7	35.7	5632	54.6	27.1	5838	60.3	20.5	6088	45.6	36.2	5851	47.6	26.9	6076	54.2	20.7	6349
	75	53.6	39.1	5892	55.7	35.8	6100	61.5	32.3	6354	46.2	38.9	5962	48.5	37.4	6189	56.1	34.6	6467
	80	55.1	42.1	6032	56.2	43.8	6248	62.4	43.4	6509	47.9	42.7	6123	49.6	46.4	6355	57.9	49.0	6641
	85	56.8	45.1	6169	58.6	48.3	6396	63.7	55.1	6671	48.6	44.5	6257	51.3	50.7	6510	58.3	57.2	6813

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-050CWN1-M: (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.5									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1,600	70	33.6	24.5	5210	36.1	16.2	5367	38.2	10.6	5554	32.1	21.2	5568	34.5	14.1	5738	36.7	11.1	5939
	75	35.4	27.5	5330	37.9	23.3	5487	40.1	17.3	5679	33.2	23.4	5789	35.5	19.8	5961	37.8	17.8	6173
	80	37.2	29.7	5564	39.8	31.7	5728	42.2	25.6	5934	34.9	25.2	5921	37.5	27.2	6103	39.8	26.4	6322
	85	39.2	32.2	5721	41.9	36.6	5895	44.3	35.6	6103	36.3	27.0	6023	40.7	32.4	6207	43.1	31.7	6432
2,000	70	40.3	29.3	5812	43.1	22.5	6000	45.7	16.1	6223	37.9	24.9	6198	40.9	19.3	6402	43.5	16.6	6649
	75	41.1	32.0	5915	44.0	31.5	6110	46.7	26.6	6348	38.6	27.1	6298	41.2	26.9	6507	43.8	27.4	6765
	80	42.3	35.0	6010	45.3	39.6	6208	48.1	37.9	6448	39.8	29.8	6470	41.9	33.3	6688	44.6	38.6	6955
	85	43.2	36.8	6125	46.3	42.8	6330	49.1	43.7	6589	40.6	31.3	6470	42.7	35.9	6701	45.5	41.7	6973
2,400	70	45.3	34.7	6325	48.5	26.4	6557	51.2	18.7	6832	42.2	29.2	6623	43.7	21.5	6869	46.5	18.4	7171
	75	46.2	37.5	6468	49.4	36.8	6704	52.2	30.8	6999	44.2	32.5	6798	45.3	30.6	7059	48.1	31.0	7376
	80	47.8	41.1	6678	51.0	46.0	6929	53.9	43.7	7235	45.9	35.7	6921	49.1	40.3	7191	52.0	46.3	7520
	85	49.2	43.5	6897	52.5	50.1	7156	55.5	54.2	7472	47.2	37.8	7120	50.6	43.9	7394	53.6	50.4	7731

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-062CWN1-Y(D):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1,760	75	59.8	34.4	5107.4	64.7	34.3	5264.8	70.3	31.9	5453.0	55.0	32.4	5452.1	59.5	27.2	5613.1	64.6	20.1	5813.1
	80	62.1	38.3	5262.3	67.1	40.9	5422.7	72.9	38.7	5616.4	57.1	37.3	5614.9	61.8	36.5	5781.5	67.1	31.1	5988.4
	85	64.2	41.2	5441.2	69.4	48.1	5607.9	75.4	44.9	5811.3	59.0	40.3	5802.8	63.8	47.0	5978.9	69.3	40.9	6195.4
	90	66.2	44.2	5659.5	71.6	52.1	5827.3	77.7	51.3	6033.3	60.8	43.6	6033.2	65.8	51.7	6212.1	71.5	51.2	6429.6
1,980	75	66.3	39.4	5414.1	71.6	38.5	5573.3	77.6	36.3	5775.1	61.0	37.4	5799.7	65.9	30.1	5977.0	71.4	23.1	6192.6
	80	68.6	43.8	5572.9	74.1	45.8	5740.5	80.3	44.0	5946.6	63.1	42.8	5973.4	68.2	40.5	6156.3	73.9	35.7	6374.1
	85	70.8	47.0	5766.9	76.5	53.5	5936.5	82.9	51.1	6150.0	65.1	46.2	6184.6	70.4	51.6	6366.5	76.3	47.2	6593.4
	90	73.0	50.5	5991.4	78.8	57.9	6168.8	85.4	58.6	6387.5	67.1	50.2	6425.6	72.5	56.9	6614.8	78.5	59.6	6851.7
2,200	75	73.4	44.5	5691.1	79.1	43.6	5858.3	85.6	40.6	6070.0	67.5	42.3	6294.0	72.7	34.7	6485.4	78.7	26.0	6714.1
	80	75.7	49.1	5860.5	81.5	50.4	6034.0	88.3	48.9	6251.3	69.6	48.2	6487.0	75.0	58.9	6680.0	81.2	40.1	6914.5
	85	77.9	52.3	6056.3	83.9	58.3	6240.1	90.8	56.8	6467.0	71.6	51.7	6704.4	77.2	55.6	6908.1	83.5	53.3	7158.6
	90	80.0	56.2	6290.1	86.2	62.9	6484.2	93.3	65.1	6716.7	73.5	56.3	6969.7	79.3	61.2	7177.5	85.8	67.4	7433.5
2,640	75	86.1	54.2	6813.1	92.3	52.5	7021.0	99.5	48.4	7275.6	79.2	51.5	7779.6	84.9	41.7	8019.2	91.5	31.0	8308.8
	80	88.2	59.0	7015.5	94.6	59.9	7231.6	101.9	57.6	7489.5	81.1	57.9	8017.8	87.0	52.5	8259.8	93.7	47.2	8554.2
	85	90.1	61.9	7263.2	96.6	68.2	7478.5	104.1	65.9	7742.3	82.9	61.2	8287.2	88.8	65.1	8541.8	95.7	61.8	8842.5
	90	91.9	65.5	7543.7	98.4	72.5	7771.1	106.1	74.4	8050.1	84.5	65.6	8618.6	90.6	70.6	8875.0	97.5	77.0	9190.2

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-062CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1,760	75	50.1	29.8	5833.4	53.9	22.3	6008.0	58.0	15.8	6221.3	45.2	34.1	6214.8	48.3	22.4	6402.9	51.4	15.0	6629.5
	80	51.9	33.6	6023.3	55.9	30.7	6201.1	60.1	24.7	6421.3	46.8	37.6	6431.7	50.0	31.7	6620.6	53.2	23.8	6854.3
	85	53.7	35.9	6243.5	57.7	40.1	6429.7	62.1	34.0	6659.4	48.3	39.7	6684.2	51.6	42.3	6880.5	54.8	34.7	7123.4
	90	55.3	38.5	6511.0	59.5	44.7	6704.5	64.0	44.3	6941.8	49.8	42.1	6988.7	53.2	47.9	7197.0	56.5	47.2	7453.9
1,980	75	56.0	34.7	6188.3	60.1	25.9	6373.8	64.5	18.9	6603.7	51.0	40.1	6576.9	54.4	27.5	6770.7	57.7	19.1	7014.9
	80	57.9	38.4	6384.3	62.2	35.7	6578.6	66.7	30.0	6812.4	52.7	42.9	6795.3	56.2	39.0	7000.9	59.6	31.1	7250.8
	85	59.7	41.3	6623.3	64.1	45.7	6821.1	68.8	41.3	7065.6	54.3	45.9	7062.0	57.8	50.3	7275.7	61.4	44.6	7537.9
	90	61.5	44.7	6905.3	66.0	50.6	7112.6	70.8	53.4	7369.0	55.8	49.3	7385.0	59.5	55.7	7610.3	63.1	59.3	7886.4
2,200	75	62.2	38.2	6912.8	66.7	30.2	7122.3	71.5	22.3	7374.7	57.0	42.8	7531.6	60.6	32.6	7759.2	64.2	23.5	8035.3
	80	64.2	42.8	7137.9	68.8	40.5	7351.5	73.7	35.7	7611.3	58.7	47.1	7788.8	63.7	61.5	8099.0	66.2	39.3	8308.1
	85	66.0	46.3	7399.9	70.7	50.9	7623.0	75.8	49.0	7895.7	60.4	51.6	8095.3	64.3	57.9	8337.9	68.1	55.8	8632.8
	90	67.8	49.7	7716.5	72.7	55.7	7949.5	77.9	62.8	8230.9	62.1	54.6	8463.3	66.0	63.0	8721.5	70.0	64.6	9028.3
2,640	75	73.5	47.1	8519.7	78.3	36.8	8781.5	83.5	26.9	9098.5	67.8	53.5	9259.8	71.7	40.3	9543.8	75.6	28.8	9888.2
	80	75.3	52.1	8800.0	80.2	48.8	9064.1	85.6	42.6	9386.7	69.5	58.2	9582.2	73.5	56.5	9868.3	77.5	47.6	10219.1
	85	77.0	55.7	9125.0	82.0	60.5	9398.7	87.5	57.7	9729.5	71.1	63.1	9962.7	75.2	70.0	10255.6	79.3	66.8	10616.5
	90	78.7	59.2	9513.3	83.8	65.6	9801.2	89.4	73.3	10149.7	72.9	66.5	10407.9	77.1	75.8	10727.4	81.3	79.4	11109.3

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-062CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.5									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1,760	75	43.7	31.7	6429.2	46.6	20.8	6627.0	49.3	13.7	6862.6	39.5	26.0	6966.0	42.4	17.2	7180.3	45.1	13.6	7434.2
	80	45.2	35.0	6654.1	48.3	29.5	6852.3	51.0	21.8	7094.4	40.9	28.7	7207.5	43.9	24.3	7424.5	46.7	21.8	7691.4
	85	46.6	36.9	6915.0	49.8	39.4	7121.3	52.7	31.8	7380.7	42.2	30.2	7486.4	45.3	32.6	7715.9	48.2	31.8	7991.8
	90	48.0	39.3	7229.9	51.3	44.6	7448.8	54.3	43.4	7710.7	43.5	32.2	7838.8	46.7	36.9	8070.8	49.7	36.3	8354.4
1,980	75	49.2	37.4	6803.2	52.5	25.6	7007.6	55.4	17.4	7259.6	44.5	30.6	7373.0	47.7	21.1	7592.8	50.7	17.3	7868.4
	80	50.8	40.0	7034.5	54.2	36.2	7245.9	57.2	28.5	7504.6	46.0	32.7	7622.8	49.3	30.0	7850.9	52.3	28.5	8128.4
	85	52.4	42.8	7305.8	55.8	46.8	7530.3	58.9	41.0	7794.7	47.4	35.0	7918.4	50.8	38.8	8159.1	53.9	41.1	8448.3
	90	53.9	45.9	7647.6	57.4	51.9	7876.7	60.6	54.6	8161.6	48.7	37.6	8278.5	52.3	43.0	8534.4	55.5	45.7	8833.5
2,200	75	55.0	39.8	7793.6	58.5	30.3	8030.8	61.6	21.5	8312.2	49.8	32.6	8443.7	53.2	25.0	8701.3	56.4	21.4	9012.9
	80	56.7	43.9	8058.4	60.3	43.0	8303.8	63.5	36.1	8603.5	51.3	35.9	8733.3	54.9	35.6	8997.2	58.1	36.1	9322.5
	85	58.3	48.1	8379.7	62.1	53.9	8629.7	65.4	51.3	8932.1	52.8	39.4	9074.9	56.5	44.7	9350.3	59.8	51.5	9686.6
	90	59.9	50.8	8768.5	63.7	58.7	9026.7	67.2	59.5	9353.3	54.2	41.6	9489.1	58.0	48.6	9780.4	61.4	56.0	10123.6
2,640	75	65.4	49.8	9584.7	69.2	37.4	9877.8	72.6	26.3	10225.3	59.2	40.7	10392.8	63.0	30.9	10702.6	66.4	26.2	11083.8
	80	67.0	54.2	9915.7	70.9	52.5	10213.7	74.4	43.7	10586.1	60.7	44.3	10737.9	64.5	43.4	11066.5	68.1	43.7	11466.7
	85	68.6	58.7	10297.4	72.6	65.2	10614.6	76.1	61.5	11001.0	62.1	48.1	11160.6	66.1	54.0	11500.9	69.7	61.6	11915.7
	90	70.3	61.9	10776.6	74.4	70.6	11102.9	78.0	75.8	11501.3	63.6	50.7	11684.4	67.7	58.5	12029.9	71.4	66.8	12454.8

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-075CWN1-Y(D):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,240	75	76.2	59.2	6040.1	79.1	56.8	6226.3	85.9	56.2	6448.9	78.1	54.4	6447.8	76.1	49.8	6638.2	79.0	51.0	6874.7
	80	81.8	61.4	6223.3	82.0	65.3	6413.0	89.1	57.0	6642.1	86.6	56.5	6640.3	78.4	61.6	6837.4	82.0	53.0	7082.0
	85	85.1	63.5	6434.9	91.9	68.6	6632.0	92.1	64.0	6872.6	90.5	58.4	6862.5	97.6	63.1	7070.8	84.7	54.8	7326.8
	90	88.7	65.4	6693.0	96.5	70.8	6891.5	95	70.9	7135.2	95.0	70.9	7135.2	104.1	65.1	7346.6	87.4	64.1	7603.8
2,800	75	86.5	66.5	6169.0	88.6	63.7	6350.3	95.9	58.2	6579.7	89.4	61.2	6822.6	81.5	55.0	7030.1	88.2	52.8	7277.9
	80	92.5	68.6	6352.7	91.3	71.4	6540.8	98.8	64.0	6776.3	98.8	63.1	7031.7	84.0	68.0	7240.0	90.9	54.4	7495.2
	85	95.9	70.6	6564.9	99.1	76.1	6764.1	101.7	72.2	7010.1	103.0	64.9	7267.5	102.8	70.0	7488.2	93.5	61.4	7759.8
	90	100.2	72.5	6818.4	104.1	78.1	7028.7	104.5	80.6	7280.7	109.1	66.7	7555.1	110.1	71.9	7780.3	96.0	75.6	8057.8
3,360	75	101.5	78.1	7385.3	103.4	74.3	7610.6	111.4	63.6	7886.6	105.0	71.8	8433.0	95.1	64.2	8692.7	102.4	53.9	9006.6
	80	107.9	80.0	7604.7	105.9	82.8	7838.9	114.1	73.9	8118.5	115.2	73.6	8691.2	106.7	78.9	8953.5	104.9	57.0	9272.6
	85	111.0	81.7	7873.2	114.1	87.6	8106.6	116.5	82.8	8392.5	119.2	75.1	8983.2	118.3	80.6	9259.2	107.2	70.4	9585.1
	90	115.1	83.3	8177.3	118.9	89.3	8423.7	118.8	91.7	8726.1	125.4	76.6	9342.4	125.8	82.1	9620.3	109.2	86.0	9962.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-075CWN1-Y(D) (Continued):

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,240	75	67.7	56.4	7527.1	63.0	46.7	7752.2	66.1	37.5	8027.4	68.4	56.1	7330.5	60.7	41.5	7552.4	64.6	21.8	7819.6
	80	73.5	58.5	7770.4	65.0	60.3	7999.8	68.5	44.4	8284.2	72.8	58.0	7586.4	62.8	56.7	7809.1	66.8	33.4	8084.8
	85	76.1	60.4	8052.4	79.0	64.9	8292.9	70.8	52.2	8589.5	74.6	59.9	7884.1	74.4	63.9	8115.7	68.9	47.2	8402.2
	90	79.1	62.3	8395.2	85.5	66.9	8644.7	73.0	64.6	8950.4	76.7	61.7	8243.4	81.7	65.9	8489.0	71.0	62.2	8792.1
2,800	75	75.0	64.3	8157.8	69.8	54.6	8405.1	74.8	42.3	8702.8	73.4	64.7	8142.8	69.8	51.8	8388.8	74.0	29.4	8687.3
	80	81.5	66.3	8422.1	72.0	71.0	8674.0	77.1	52.2	8980.4	78.3	66.7	8420.8	72.0	71.0	8670.0	76.3	47.6	8982.2
	85	85.8	68.2	8728.9	88.0	73.1	8992.3	79.3	64.9	9314.4	83.3	68.7	8752.2	87.9	73.1	9014.5	78.5	65.7	9333.3
	90	89.7	70.1	9100.1	93.7	75.0	9374.6	83.4	79.2	9706.6	85.8	70.5	9150.0	93.1	75.0	9429.1	84.4	79.5	9760.8
3,360	75	88.6	76.0	10056.5	82.1	64.2	10365.6	87.4	45.4	10739.8	87.2	77.0	10011.1	82.6	61.3	10318.2	87.1	34.6	10690.6
	80	95.7	77.9	10385.4	88.2	82.9	10697.2	89.6	57.6	11078.0	92.6	78.9	10359.8	84.9	83.5	10669.0	89.3	55.8	11048.3
	85	100.1	79.6	10766.1	102.1	84.8	11089.7	91.6	74.9	11480.0	98.0	80.8	10771.1	102.8	85.4	11087.8	91.4	76.4	11478.0
	90	104.1	81.4	11221.9	108.2	86.7	11561.0	95.8	91.1	11972.1	100.7	82.8	11252.5	108.7	87.6	11597.8	98.0	92.3	12010.7

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-075CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.5									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,240	75	65.9	54.1	7583.5	58.6	39.9	7816.7	62.0	20.7	8094.6	59.6	49.0	8216.5	53.3	36.2	8469.4	56.7	18.7	8768.9
	80	70.3	56.0	7848.7	60.6	54.6	8082.5	64.1	31.9	8368.0	63.6	50.7	8501.5	55.2	49.6	8757.3	58.7	29.0	9072.2
	85	71.9	57.8	8156.5	71.8	61.7	8399.7	66.2	45.1	8705.8	65.0	52.3	8830.4	65.3	56.2	9101.1	60.5	41.1	9426.6
	90	74.1	59.5	8527.8	78.8	63.6	8786.1	68.2	59.7	9095.0	67.2	53.9	9246.1	71.7	57.9	9519.7	62.4	54.5	9854.3
2,800	75	70.7	62.5	8425.9	67.4	49.8	8682.4	71.0	28.0	8986.7	63.9	56.5	9128.8	61.3	45.2	9407.4	65.0	25.4	9744.2
	80	75.5	64.4	8712.3	69.5	60.2	8977.6	73.2	45.5	9301.6	68.3	58.3	9441.9	63.2	62.3	9727.2	67.0	41.5	10078.9
	85	80.4	66.3	9059.6	84.8	70.5	9330.0	75.3	62.9	9656.8	72.8	60.0	9811.2	77.1	64.2	10109.0	68.9	57.5	10472.6
	90	82.8	68.0	9480.0	89.8	72.4	9759.2	81.0	76.3	10112.2	74.9	61.6	10259.1	81.7	65.9	10574.0	74.1	69.8	10945.1
3,360	75	84.1	74.3	10362.4	79.7	58.9	10679.3	83.6	32.9	11055.0	76.0	67.2	11236.1	72.5	53.4	11571.1	76.5	29.9	11983.1
	80	89.3	76.2	10720.3	81.8	80.6	11042.4	85.7	53.3	11445.1	80.7	68.9	11609.2	74.4	73.3	11964.5	78.4	48.5	12397.1
	85	94.6	77.9	11133.0	99.2	82.5	11475.9	87.7	73.3	11893.7	85.6	70.5	12066.2	90.2	75.0	12434.1	80.2	66.9	12882.6
	90	97.2	79.9	11651.0	104.8	84.5	12003.8	94.1	88.7	12434.5	88.0	72.3	12632.5	95.4	76.9	13006.1	86.1	81.1	13465.4

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-100CWN1-Y(D):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,040	75	98.9	61.9	8464.6	107.0	61.7	8725.5	116.2	57.5	9037.5	91.0	58.4	9036.0	98.4	49.0	9302.9	106.9	36.2	9634.2
	80	102.6	69.0	8721.4	111.0	73.6	8987.3	120.6	69.8	9308.3	94.4	67.1	9305.8	102.1	65.8	9582.0	110.9	56.0	9924.8
	85	106.1	74.2	9017.8	114.7	86.6	9294.1	124.7	80.9	9631.3	97.5	72.6	9617.2	105.5	84.6	9909.1	114.6	73.7	10267.8
	90	109.4	79.7	9379.7	118.3	93.8	9657.7	128.5	92.5	9999.2	100.6	78.5	9999.1	108.8	93.1	10295.6	118.2	92.3	10656.0
3,420	75	109.6	71.0	8973.0	118.4	69.3	9236.9	128.4	65.4	9571.3	100.8	67.3	9612.0	108.9	54.2	9905.9	118.0	41.6	10263.3
	80	113.5	78.9	9236.2	122.5	82.5	9514.0	132.8	79.2	9855.5	104.3	77.1	9899.9	112.7	72.9	10203.0	122.1	64.3	10564.0
	85	117.1	84.6	9557.7	126.4	96.3	9838.8	137.1	92.1	10192.7	107.7	83.2	10250.0	116.3	93.0	10551.4	126.1	85.1	10927.4
	90	120.6	91.0	9929.7	130.2	104.3	10223.8	141.2	105.5	10586.2	110.9	90.5	10649.4	119.8	102.5	10962.9	129.9	107.3	11355.5
3,800	75	121.3	80.1	9432.0	130.7	78.6	9709.1	141.5	73.1	10060.0	111.6	76.2	10431.3	120.3	62.4	10748.5	130.1	46.8	11127.4
	80	125.1	88.4	9712.9	134.8	90.8	10000.4	145.9	88.2	10360.5	115.0	86.8	10751.1	124.0	106.1	11071.0	134.2	72.3	11459.7
	85	128.7	94.3	10037.4	138.7	105.0	10341.9	150.1	102.3	10717.9	118.4	93.1	11111.5	127.6	100.2	11449.0	138.1	96.0	11864.3
	90	132.2	101.2	10424.8	142.4	113.3	10746.5	154.2	117.3	11131.8	121.6	101.4	11551.2	131.0	110.2	11895.5	141.8	121.4	12319.8
4,560	75	142.4	97.5	11291.6	152.6	94.5	11636.1	164.4	87.2	12058.0	131.0	92.8	12893.5	140.4	75.2	13290.6	151.2	55.8	13770.5
	80	145.9	106.2	11627.0	156.3	107.9	11985.2	168.4	103.8	12412.7	134.2	104.3	13288.2	143.8	94.5	13689.3	154.9	85.1	14177.1
	85	149.0	111.6	12037.6	159.7	122.9	12394.4	172.0	118.7	12831.6	137.0	110.2	13734.7	146.9	117.3	14156.7	158.2	111.3	14655.0
	90	151.9	118.0	12502.5	162.8	130.6	12879.3	175.4	134.0	13341.6	139.7	118.2	14283.9	149.7	127.1	14708.8	161.3	138.7	15231.3

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-100CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,040	75	84.2	54.6	9666.1	90.6	40.8	9955.3	97.4	28.9	10308.7	77.5	57.4	10296.2	82.7	37.8	10607.8	88.0	25.3	10983.2
	80	87.3	61.5	9980.7	93.9	56.1	10275.2	100.9	45.1	10640.2	80.2	63.3	10655.6	85.6	53.4	10968.5	91.0	40.1	11355.6
	85	90.1	65.7	10345.5	96.9	73.4	10654.1	104.3	62.2	11034.6	82.7	66.9	11073.8	88.3	71.3	11399.0	93.9	58.5	11801.5
	90	92.9	70.4	10788.7	99.9	81.9	11109.5	107.5	81.0	11502.6	85.2	70.9	11578.4	91.0	80.7	11923.4	96.8	79.5	12349.1
3,420	75	94.1	63.6	10254.1	101.0	47.4	10561.5	108.4	34.7	10942.5	87.3	67.6	10896.1	93.1	46.4	11217.1	98.8	32.1	11621.7
	80	97.3	70.4	10578.9	104.4	65.3	10900.8	112.1	54.9	11288.2	90.2	72.3	11257.9	96.1	65.6	11598.5	102.0	52.3	12012.5
	85	100.3	75.6	10974.9	107.7	83.7	11302.6	115.6	75.5	11707.8	92.9	77.4	11699.8	99.0	84.7	12053.8	105.1	75.2	12488.2
	90	103.2	81.7	11442.2	110.8	92.6	11785.6	119.0	97.8	12210.6	95.6	83.0	12235.0	101.9	93.9	12608.3	108.1	99.9	13065.6
3,800	75	104.6	69.9	11454.5	112.0	55.3	11801.7	120.0	40.7	12219.9	97.5	72.2	12477.8	103.8	55.0	12854.8	109.9	39.7	13312.3
	80	107.8	78.3	11827.5	115.5	74.1	12181.5	123.7	65.3	12612.0	100.6	79.4	12904.0	107.0	103.6	13291.9	113.3	66.2	13764.3
	85	110.9	84.8	12261.6	118.8	93.2	12631.3	127.3	89.6	13083.3	103.5	87.0	13411.7	110.1	97.6	13813.6	116.6	94.0	14302.2
	90	113.9	91.0	12786.3	122.1	102.0	13172.3	130.8	115.0	13638.6	106.3	92.0	14021.4	113.1	106.1	14449.1	119.8	108.8	14957.3
4,560	75	123.5	86.1	14117.2	131.6	67.4	14551.0	140.3	49.2	15076.3	116.0	90.1	15340.9	122.7	67.9	15811.4	129.4	48.5	16382.1
	80	126.5	95.3	14581.7	134.8	89.4	15019.2	143.8	77.9	15553.7	118.9	98.1	15875.1	125.8	95.2	16349.0	132.7	80.2	16930.3
	85	129.4	102.0	15120.1	137.8	110.8	15573.7	147.0	105.5	16121.8	121.7	106.3	16505.5	128.8	117.9	16990.8	135.8	112.5	17588.7
	90	132.2	108.4	15763.5	140.9	120.0	16240.6	150.2	134.2	16818.1	124.8	111.9	17243.1	132.0	127.8	17772.3	139.2	133.7	18405.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-100CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.5									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,040	75	74.8	53.5	10651.5	79.8	35.1	10979.1	84.4	23.0	11369.4	67.7	43.8	11540.7	72.7	29.0	11895.8	77.3	22.9	12316.5
	80	77.3	59.0	11024.0	82.6	49.6	11352.4	87.4	36.7	11753.4	70.0	48.3	11940.9	75.2	41.0	12300.3	79.9	36.7	12742.6
	85	79.8	62.2	11456.3	85.2	66.4	11798.0	90.1	53.7	12227.8	72.2	50.9	12402.8	77.6	55.0	12783.1	82.5	53.6	13240.3
	90	82.3	66.1	11977.9	87.9	75.1	12340.7	92.9	73.2	12774.5	74.4	54.3	12986.8	79.9	62.2	13371.1	85.0	61.1	13841.0
3,420	75	84.3	62.9	11271.0	89.8	43.1	11609.7	94.8	29.3	12027.1	76.3	51.5	12215.1	81.7	35.5	12579.1	86.8	29.1	13035.7
	80	87.0	67.3	11654.3	92.8	61.0	12004.5	97.9	48.0	12433.1	78.8	55.1	12628.8	84.4	50.5	13006.8	89.6	48.0	13466.4
	85	89.6	72.0	12103.6	95.5	78.9	12475.7	100.9	69.1	12913.7	81.1	59.0	13118.7	86.9	65.3	13517.4	92.3	69.2	13996.5
	90	92.2	77.3	12669.9	98.3	87.4	13049.5	103.8	92.0	13521.5	83.5	63.3	13715.1	89.5	72.4	14139.2	94.9	77.0	14634.7
3,800	75	94.1	67.1	12911.8	100.2	51.0	13304.8	105.5	36.3	13771.1	85.2	54.9	13988.9	91.1	42.1	14415.7	96.6	36.1	14931.9
	80	97.0	73.9	13350.5	103.3	72.4	13757.1	108.8	60.8	14253.6	87.8	60.5	14468.6	94.0	59.9	14905.8	99.5	60.8	15444.8
	85	99.9	81.0	13882.9	106.2	90.8	14297.1	111.9	86.5	14798.0	90.4	66.3	15034.5	96.7	75.2	15490.9	102.4	86.8	16048.1
	90	102.5	85.6	14527.0	109.1	98.8	14954.8	115.0	100.3	15495.8	92.8	70.1	15720.9	99.3	81.8	16203.5	105.2	94.4	16772.1
4,560	75	111.9	83.8	15879.1	118.4	63.0	16364.8	124.2	44.4	16940.5	101.3	68.5	17218.1	107.8	52.0	17731.3	113.7	44.2	18362.8
	80	114.8	91.3	16427.6	121.4	88.4	16921.3	127.4	73.6	17538.3	103.9	74.7	17789.8	110.5	73.2	18334.2	116.5	73.6	18997.2
	85	117.4	98.9	17060.0	124.3	109.8	17585.4	130.3	103.5	18225.7	106.3	81.0	18490.1	113.1	90.9	19053.8	119.3	103.8	19741.1
	90	120.4	104.2	17853.8	127.4	119.0	18394.4	133.6	127.7	19054.4	108.9	85.4	19357.8	115.9	98.5	19930.3	122.2	112.5	20634.1

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-125CWN1-Y(D):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,360	75	124.4	67.8	10841.7	134.6	67.6	11175.8	146.2	63.0	11575.5	114.4	64.0	11573.5	123.8	53.8	11915.3	134.5	39.7	12339.7
	80	129.1	75.6	11170.6	139.6	80.7	11511.1	151.7	76.5	11922.3	118.7	73.6	11919.1	128.5	72.1	12272.8	139.5	61.4	12711.9
	85	133.5	81.3	11550.3	144.3	94.9	11904.1	156.8	88.7	12336.0	122.7	79.5	12317.9	132.8	92.8	12691.8	144.2	80.7	13151.2
	90	137.6	87.3	12013.7	148.8	102.8	12369.9	161.7	101.4	12807.3	126.5	86.1	12807.1	136.9	102.0	13186.8	148.7	101.1	13648.5
3,780	75	137.9	77.9	11492.9	148.9	76.0	11830.8	161.5	71.7	12259.1	126.8	73.8	12311.3	137.0	59.4	12687.7	148.5	45.5	13145.4
	80	142.7	86.4	11829.9	154.1	90.4	12185.8	167.1	86.8	12623.1	131.3	84.5	12680.1	141.8	79.9	13068.3	153.7	70.4	13530.6
	85	147.3	92.7	12241.8	159.1	105.6	12601.8	172.5	100.9	13055.0	135.5	91.2	13128.5	146.3	101.9	13514.5	158.6	93.3	13996.1
	90	151.8	99.7	12718.2	163.8	114.4	13094.8	177.7	115.7	13559.0	139.6	99.2	13640.0	150.7	112.3	14041.6	163.4	117.6	14544.4
4,200	75	152.6	87.9	12080.8	164.5	86.1	12435.7	178.0	80.2	12885.1	140.4	83.6	13360.6	151.3	68.4	13767.0	163.7	51.3	14252.3
	80	157.4	96.9	12440.5	169.6	99.5	12808.8	183.6	96.6	13270.0	144.7	95.2	13770.2	156.0	116.3	14180.0	168.8	79.2	14677.8
	85	161.9	103.3	12856.1	174.5	115.1	13246.1	188.9	112.2	13727.7	148.9	102.1	14231.8	160.5	109.8	14664.2	173.7	105.2	15196.0
	90	166.3	110.9	13352.4	179.2	124.1	13764.3	194.0	128.5	14257.8	152.9	111.1	14795.0	164.9	120.8	15236.1	178.4	133.1	15779.5
5,040	75	179.2	106.9	14462.5	192.0	103.6	14903.8	206.9	95.6	15444.2	164.8	101.7	16514.3	176.6	82.4	17022.9	190.2	61.2	17637.6
	80	183.6	116.4	14892.2	196.7	118.3	15350.9	211.9	113.8	15898.4	168.8	114.3	17019.8	180.9	103.6	17533.6	194.9	93.3	18158.4
	85	187.5	122.3	15418.0	200.9	134.7	15875.0	216.4	130.1	16435.0	172.4	120.8	17591.8	184.8	128.6	18132.2	199.0	122.0	18770.5
	90	191.1	129.3	16013.5	204.8	143.2	16496.1	220.6	146.9	17088.3	175.7	129.6	18295.2	188.4	139.3	18839.4	202.9	152.1	19508.5

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-125CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,360	75	105.0	59.3	12274.6	112.9	44.4	12641.9	121.5	31.4	13090.6	95.6	66.6	12975.6	102.1	43.8	13368.4	108.5	29.3	13841.5
	80	108.8	66.8	12673.8	117.0	61.0	13047.9	125.9	49.0	13511.4	98.9	73.4	13428.6	105.6	61.9	13822.9	112.3	46.4	14310.8
	85	112.4	71.4	13136.8	120.9	79.8	13528.7	130.0	67.6	14012.0	102.0	77.5	13955.7	109.0	82.6	14365.5	115.8	67.8	14872.7
	90	115.8	76.5	13699.3	124.6	88.9	14106.6	134.0	88.0	14605.7	105.2	82.2	14591.6	112.3	93.5	15026.3	119.4	92.2	15562.8
3,780	75	117.3	69.0	13021.5	125.9	51.5	13412.0	135.2	37.7	13895.8	107.7	78.3	13731.8	114.8	53.8	14136.3	121.8	37.2	14646.1
	80	121.3	76.4	13433.9	130.2	70.9	13842.6	139.8	59.6	14334.6	111.3	83.8	14187.7	118.6	76.1	14616.9	125.8	60.7	15138.6
	85	125.0	82.2	13936.5	134.2	90.9	14352.6	144.1	82.1	14867.1	114.6	89.7	14744.5	122.1	98.2	15190.7	129.6	87.1	15738.2
	90	128.7	88.8	14529.5	138.2	100.5	14965.5	148.4	106.2	15505.1	117.9	96.3	15419.0	125.7	108.9	15889.4	133.3	115.9	16465.9
4,200	75	130.3	75.9	14542.8	139.7	60.1	14983.6	149.7	44.2	15514.5	120.3	83.7	15725.1	128.0	63.8	16200.2	135.6	46.0	16776.7
	80	134.4	85.0	15016.2	144.0	80.5	15465.5	154.3	70.9	16012.1	124.1	92.1	16262.1	133.7	120.1	17101.0	139.8	76.8	17346.3
	85	138.3	92.2	15566.9	148.2	101.2	16036.3	158.8	97.3	16610.2	127.6	100.8	16902.0	135.8	113.1	17408.5	143.9	108.9	18024.3
	90	142.0	98.9	16232.7	152.2	110.8	16722.7	163.1	124.9	17314.7	131.1	106.6	17670.3	139.5	123.0	18209.3	147.7	126.2	18849.8
5,040	75	153.9	93.6	17923.7	164.0	73.2	18474.6	174.9	53.4	19141.5	143.1	104.5	19333.2	151.4	78.7	19926.2	159.6	56.3	20645.3
	80	157.7	103.5	18513.2	168.1	97.1	19068.7	179.3	84.6	19747.3	146.7	113.7	20006.5	155.2	110.3	20603.7	163.7	93.0	21336.3
	85	161.3	110.7	19196.3	171.8	120.3	19772.4	183.3	114.6	20468.2	150.1	123.2	20800.9	158.9	136.7	21412.5	167.5	130.4	22166.0
	90	164.8	117.7	20012.8	175.6	130.4	20618.4	187.3	145.8	21351.7	153.9	129.8	21730.5	162.9	148.1	22397.4	171.7	155.0	23194.8

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-125CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.5									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,360	75	92.2	62.0	13423.4	98.5	40.7	13836.3	104.2	26.7	14328.2	83.5	50.7	14544.0	89.6	33.6	14991.6	95.3	26.5	15521.8
	80	95.4	68.3	13892.9	101.9	57.5	14306.7	107.8	42.6	14812.1	86.4	56.0	15048.4	92.7	47.5	15501.3	98.6	42.6	16058.7
	85	98.5	72.2	14437.7	105.1	77.0	14868.3	111.2	62.2	15410.0	89.1	59.1	15630.6	95.7	63.7	16109.8	101.7	62.2	16685.9
	90	101.5	76.7	15095.1	108.4	87.1	15552.2	114.6	84.8	16099.0	91.8	62.9	16366.5	98.6	72.1	16850.8	104.9	70.9	17443.0
3,780	75	103.9	73.0	14204.2	110.8	49.9	14631.1	117.0	34.0	15157.0	94.1	59.8	15393.9	100.8	41.2	15852.8	107.0	33.8	16428.2
	80	107.4	78.0	14687.2	114.4	70.8	15128.5	120.8	55.6	15668.7	97.2	63.9	15915.3	104.1	58.5	16391.7	110.5	55.6	16971.0
	85	110.6	83.5	15253.5	117.9	91.4	15722.3	124.4	80.1	16274.3	100.1	68.4	16532.7	107.3	75.7	17035.2	113.8	80.2	17638.9
	90	113.8	89.6	15967.1	121.3	101.4	16445.6	128.0	106.7	17040.3	103.0	73.3	17284.3	110.4	83.9	17818.8	117.1	89.2	18443.3
4,200	75	116.1	77.8	16272.0	123.5	59.2	16767.2	130.2	42.0	17354.9	105.1	63.6	17629.3	112.4	48.8	18167.3	119.1	41.8	18817.8
	80	119.7	85.7	16824.9	127.4	83.9	17337.3	134.2	70.5	17962.9	108.3	70.1	18233.9	115.9	69.4	18784.9	122.8	70.5	19464.1
	85	123.2	93.9	17495.7	131.1	105.3	18017.8	138.1	100.3	18649.0	111.5	76.9	18947.2	119.3	87.2	19522.3	126.4	100.6	20224.5
	90	126.5	99.3	18307.6	134.6	114.6	18846.6	141.8	116.3	19528.5	114.5	81.3	19812.1	122.5	94.9	20420.3	129.8	109.4	21136.9
5,040	75	138.1	97.2	20011.5	146.1	73.1	20623.7	153.2	51.4	21349.1	125.0	79.5	21698.9	133.0	60.3	22345.7	140.2	51.2	23141.5
	80	141.6	105.8	20702.7	149.8	102.5	21324.9	157.1	85.3	22102.4	128.1	86.6	22419.4	136.3	84.8	23105.5	143.8	85.3	23941.0
	85	144.9	114.7	21499.7	153.3	127.2	22161.9	160.8	120.0	22968.7	131.1	93.9	23302.0	139.5	105.4	24012.4	147.1	120.4	24878.5
	90	148.5	120.8	22500.1	157.2	137.9	23181.4	164.8	148.0	24013.2	134.4	99.0	24395.5	143.0	114.2	25117.0	150.8	130.5	26004.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-150CWN1-Y(D):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,680	75	132.4	72.2	11545.1	143.2	72.0	11900.9	155.6	67.1	12326.5	121.8	68.1	12324.4	131.7	57.2	12688.4	143.1	42.3	13140.3
	80	137.4	80.5	11895.3	148.6	85.9	12257.9	161.4	81.4	12695.8	126.3	78.3	12692.4	136.7	76.7	13069.1	148.4	65.3	13536.6
	85	142.0	86.6	12299.6	153.6	101.0	12676.5	166.9	94.4	13136.4	130.6	84.6	13117.1	141.3	98.7	13515.3	153.4	85.9	14004.5
	90	146.4	92.9	12793.1	158.4	109.4	13172.4	172.1	107.9	13638.2	134.7	91.6	13638.0	145.7	108.6	14042.4	158.2	107.6	14534.0
4,600	75	162.4	93.5	12864.6	175.0	91.6	13242.5	189.5	85.3	13721.1	149.4	88.9	14227.4	161.0	72.8	14660.2	174.2	54.6	15177.0
	80	167.5	103.1	13247.6	180.4	105.9	13639.8	195.3	102.8	14131.0	154.0	101.3	14663.6	166.0	123.8	15100.0	179.6	84.3	15630.1
	85	172.3	110.0	13690.2	185.7	122.5	14105.5	201.0	119.4	14618.4	158.5	108.6	15155.2	170.8	116.9	15615.6	184.8	112.0	16181.9
	90	177.0	118.0	14218.7	190.7	132.1	14657.4	206.4	136.8	15182.9	162.7	118.2	15754.9	175.4	128.6	16224.6	189.8	141.6	16803.3
5,520	75	190.7	113.8	15400.9	204.3	110.3	15870.7	220.1	101.7	16446.2	175.3	108.2	17585.7	188.0	87.7	18127.3	202.4	65.1	18782.0
	80	195.3	123.9	15858.4	209.3	125.9	16346.8	225.5	121.1	16929.9	179.6	121.7	18124.1	192.5	110.3	18671.2	207.4	99.3	19336.5
	85	199.5	130.2	16418.3	213.7	143.3	16905.0	230.3	138.4	17501.3	183.4	128.6	18733.1	196.6	136.8	19308.7	211.8	129.9	19988.3
	90	203.4	137.6	17052.4	217.9	152.3	17566.4	234.8	156.3	18197.0	187.0	137.9	19482.2	200.5	148.3	20061.7	215.9	161.8	20774.3

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-150CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,680	75	108.2	63.1	12339.1	116.4	47.2	12708.3	125.2	33.4	13159.4	98.5	70.9	13043.8	105.2	46.6	13438.7	111.8	31.2	13914.2
	80	112.1	71.1	12740.4	120.6	64.9	13116.4	129.8	52.2	13582.4	101.9	78.1	13499.2	108.9	65.9	13895.6	115.7	49.4	14386.0
	85	115.8	76.0	13205.9	124.6	84.9	13599.8	134.0	71.9	14085.6	105.2	82.5	14029.0	112.3	87.9	14441.0	119.4	72.1	14950.9
	90	119.4	81.4	13771.3	128.4	94.6	14180.7	138.2	93.6	14682.4	108.4	87.5	14668.2	115.8	99.5	15105.3	123.1	98.1	15644.6
4,600	75	134.3	80.8	14619.3	144.0	63.9	15062.3	154.3	47.1	15596.0	124.0	89.0	15807.7	132.0	67.8	16285.3	139.8	48.9	16864.8
	80	138.5	90.5	15095.1	148.4	85.7	15546.8	159.0	75.5	16096.2	127.9	98.0	16347.6	136.1	127.8	16839.0	144.1	81.7	17437.4
	85	142.5	98.1	15648.7	152.7	107.7	16120.6	163.6	103.6	16697.4	131.6	107.3	16990.8	140.0	120.4	17500.0	148.3	115.9	18119.0
	90	146.4	105.2	16318.0	156.9	117.9	16810.6	168.1	133.0	17405.7	135.1	113.4	17763.2	143.8	130.9	18305.0	152.3	150.9	18948.9
5,520	75	158.7	99.6	18017.9	169.1	77.9	18571.7	180.3	56.8	19242.1	147.5	111.2	19434.8	156.1	83.8	20031.0	164.5	59.9	20753.8
	80	162.6	110.2	18610.5	173.3	103.3	19168.9	184.8	90.0	19851.1	151.2	121.0	20111.6	160.0	117.4	20712.0	168.7	98.9	21448.4
	85	166.2	117.8	19297.2	177.1	128.0	19876.3	188.9	122.0	20575.8	154.7	131.1	20910.2	163.7	145.4	21525.0	172.6	138.8	22282.5
	90	169.9	125.2	20118.0	181.0	138.7	20726.8	193.0	155.1	21463.9	158.6	138.1	21844.7	167.9	157.6	22515.2	177.0	164.9	23316.7

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-150CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.5									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3,680	75	94.3	65.1	13579.9	100.8	42.9	13993.5	107.2	30.2	14488.5	86.0	54.0	14620.5	92.4	35.7	15070.4	98.2	28.2	15603.3
	80	97.5	71.8	14052.8	104.3	60.7	14469.2	110.9	48.0	14983.4	89.0	59.6	15127.5	95.6	50.6	15582.8	101.6	45.3	16143.1
	85	100.6	75.8	14601.5	107.7	81.1	15037.2	114.5	70.1	15570.6	91.8	62.8	15712.7	98.6	67.8	16194.5	104.9	66.2	16773.6
	90	103.7	80.5	15274.9	111.0	91.8	15728.9	118.0	90.4	16287.2	94.7	66.9	16452.5	101.7	76.7	16939.4	108.1	75.4	17534.7
4,600	75	118.7	81.8	16458.6	126.5	62.4	16957.7	134.0	47.4	17562.5	108.3	67.7	17722.0	115.9	52.0	18262.7	122.8	44.5	18916.7
	80	122.4	90.0	17021.5	130.4	109.5	17534.2	138.1	79.4	18161.3	111.7	74.6	18329.8	119.5	73.9	18883.7	126.6	75.0	19566.4
	85	125.9	98.6	17689.8	134.2	111.0	18222.5	142.1	112.9	18871.0	114.9	81.8	19046.7	122.9	92.8	19624.9	130.2	107.0	20330.8
	90	129.3	104.3	18495.2	137.8	120.7	19060.7	146.0	139.1	19730.6	118.0	86.5	19916.3	126.3	101.0	20527.6	133.8	116.4	21247.9
5,520	75	141.1	102.1	20243.4	149.6	77.1	20857.9	157.7	58.0	21607.0	128.8	84.5	21813.0	137.0	64.2	22463.2	144.5	54.5	23263.2
	80	144.7	111.2	20936.3	153.4	108.2	21567.1	161.7	96.1	22338.7	132.1	92.1	22537.3	140.5	90.3	23226.9	148.2	90.8	24066.9
	85	148.1	120.5	21765.1	157.0	134.1	22413.6	165.5	135.1	23209.6	135.1	100.0	23424.4	143.8	112.1	24138.6	151.6	128.1	25009.2
	90	151.8	126.9	22755.5	160.9	145.3	23444.7	169.6	156.0	24276.8	138.5	105.3	24523.7	147.4	121.5	25249.0	155.4	138.8	26140.6

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-200CWN1-Y(D):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
5,920	75	212.2	115.2	18158.7	229.5	114.9	18718.3	249.3	107.1	19387.7	195.1	108.6	19384.3	211.1	91.3	19956.9	229.3	67.5	20667.7
	80	220.2	128.5	18709.5	238.1	137.0	19279.9	258.7	129.9	19968.6	202.4	124.9	19963.2	219.0	122.4	20555.6	237.9	104.3	21291.1
	85	227.6	138.1	19345.5	246.1	161.2	19938.2	267.4	150.7	20661.6	209.3	135.1	20631.3	226.4	157.6	21257.5	245.9	137.1	22026.9
	90	234.7	148.3	20121.7	253.8	174.6	20718.2	275.7	172.2	21450.8	215.8	146.2	21450.5	233.5	173.3	22086.5	253.5	171.7	22859.8
7,400	75	260.3	149.2	20234.0	280.4	146.2	20828.5	303.6	136.2	21581.1	239.3	141.9	22377.6	258.0	116.2	23058.3	279.2	87.2	23871.1
	80	268.3	164.6	20836.5	289.1	169.1	21453.3	313.0	164.1	22225.9	246.8	161.6	23063.7	266.0	197.5	23750.0	287.8	134.6	24583.8
	85	276.1	175.5	21532.6	297.5	195.5	22185.8	322.1	190.5	22992.5	253.9	173.4	23836.8	273.7	186.5	24560.9	296.2	178.7	25451.7
	90	283.6	188.3	22363.8	305.5	210.8	23053.8	330.8	218.3	23880.3	260.8	188.7	24780.1	281.1	205.2	25518.8	304.2	226.1	26429.0
,8860	75	305.5	181.6	24223.2	327.4	176.0	24962.2	352.8	162.4	25867.4	281.0	172.7	27659.6	301.2	139.9	28511.5	324.4	103.9	29541.2
	80	313.0	197.7	24942.8	335.3	200.9	25711.1	361.3	193.2	26628.2	287.8	194.2	28506.4	308.5	176.0	29366.9	332.3	158.4	30413.4
	85	319.7	207.7	25823.5	342.5	228.8	26589.0	369.1	221.0	27526.9	293.9	205.2	29464.3	315.1	218.3	30369.6	339.4	207.3	31438.5
	90	325.9	219.6	26820.9	349.1	243.1	27629.2	376.2	249.4	28621.1	299.6	220.0	30642.5	321.2	236.6	31554.0	345.9	258.3	32674.8

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-200CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
5,920	75	179.3	100.9	19669.3	192.9	75.5	20257.9	207.4	53.4	20976.9	163.5	114.5	20832.9	174.6	75.3	21463.5	185.6	50.4	22223.0
	80	185.8	113.6	20309.2	199.9	103.7	20908.5	215.0	83.4	21651.3	169.2	126.2	21560.1	180.7	106.5	22193.2	192.1	79.9	22976.6
	85	191.9	121.4	21051.2	206.4	135.7	21679.1	222.0	114.9	22453.6	174.5	133.3	22406.4	186.4	142.1	23064.3	198.2	116.5	23878.7
	90	197.8	130.2	21952.7	212.8	151.3	22605.3	228.9	149.6	23405.1	179.9	141.4	23427.3	192.1	160.8	24125.3	204.2	158.4	24986.7
7,400	75	222.6	129.2	23305.2	238.5	102.2	24011.5	255.6	75.3	24862.3	205.8	143.8	25247.2	219.0	109.6	26010.0	232.0	79.0	26935.6
	80	229.5	144.7	24063.8	245.9	137.0	24783.9	263.5	120.7	25659.7	212.2	158.3	26109.4	231.8	206.5	27894.3	239.2	132.0	27850.1
	85	236.1	156.7	24946.5	253.0	172.2	25698.8	271.1	165.6	26618.3	218.4	173.4	27136.7	232.4	194.5	27950.0	246.1	187.3	28938.6
	90	242.5	168.2	26013.6	259.9	188.4	26798.9	278.5	212.5	27747.5	224.3	183.3	28370.4	238.6	211.6	29235.7	252.7	243.7	30264.1
8,860	75	262.9	159.2	28723.0	280.1	124.5	29605.7	298.7	90.8	30674.4	244.8	179.7	31040.2	259.0	135.4	31992.3	273.1	96.7	33146.8
	80	269.4	176.1	29667.7	287.0	165.1	30557.8	306.1	143.9	31645.5	251.0	195.5	32121.2	265.6	189.7	33080.0	280.0	159.8	34256.2
	85	275.4	188.3	30762.7	293.4	204.7	31685.7	312.9	195.0	32800.8	256.8	211.8	33396.6	271.8	234.9	34378.5	286.5	224.2	35588.3
	90	281.5	200.2	32071.3	299.9	221.8	33041.8	319.8	247.9	34216.8	263.3	223.1	34889.1	278.6	254.6	35959.9	293.7	290.7	37240.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-200CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.5									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
5,920	75	157.8	106.6	21551.8	168.5	69.9	22214.7	178.2	45.9	23004.4	142.8	87.2	23351.0	153.3	57.7	24069.6	163.0	45.6	24920.7
	80	163.2	117.5	22305.6	174.3	98.9	22970.0	184.4	73.2	23781.4	147.7	96.2	24160.7	158.7	81.7	24888.0	168.7	73.2	25782.8
	85	168.4	124.1	23180.3	179.9	132.3	23871.6	190.2	106.9	24741.4	152.4	101.5	25095.5	163.7	109.6	25864.9	174.1	106.9	26789.9
	90	173.6	131.8	24235.7	185.4	149.7	24969.7	196.1	145.8	25847.5	157.1	108.1	26277.0	168.7	123.9	27054.7	179.4	121.9	28005.3
7,400	75	198.6	133.7	26125.2	211.4	101.7	26920.4	222.7	72.3	27863.9	179.8	109.4	28304.6	192.3	83.9	29168.2	203.8	71.9	30212.7
	80	204.8	147.3	27013.0	217.9	144.3	27835.6	229.6	121.2	28840.2	185.3	120.5	29275.2	198.3	119.4	30159.9	210.1	121.2	31250.4
	85	210.7	161.4	28090.1	224.2	181.1	28928.3	236.3	172.4	29941.7	190.7	132.2	30420.3	204.1	149.9	31343.8	216.2	172.9	32471.1
	90	216.4	170.7	29393.5	230.3	197.0	30258.9	242.6	224.6	31353.7	195.9	139.8	31809.1	209.6	163.1	32785.6	222.0	188.1	33936.0
8,860	75	236.2	167.1	32129.2	250.0	125.7	33112.0	262.1	88.4	34276.8	213.8	136.6	34838.4	227.5	103.7	35876.9	239.9	88.0	37154.6
	80	242.2	181.9	33239.0	256.3	176.3	34237.8	268.8	146.7	35486.3	219.2	148.9	35995.2	233.2	145.8	37096.7	245.9	146.6	38438.2
	85	247.8	197.2	34518.5	262.3	218.8	35581.7	275.1	206.3	36877.1	224.3	161.5	37412.2	238.7	181.1	38552.8	251.7	207.0	39943.3
	90	254.1	207.8	36124.8	268.8	237.1	37218.5	282.0	267.9	38554.0	229.9	170.2	39167.9	244.6	196.3	40326.3	258.0	224.3	41750.3

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-250CWN1-Y(D):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,000	75	224.9	122.2	21561.1	243.3	121.8	22225.6	264.3	113.5	23020.3	206.8	115.2	23016.3	223.8	96.8	23696.2	243.1	71.5	24540.2
	80	233.4	136.2	22215.1	252.4	145.3	22892.3	274.2	137.7	23710.1	214.6	132.5	23703.6	232.2	129.8	24407.1	252.2	110.5	25280.3
	85	241.3	146.5	22970.2	260.9	170.9	23674.0	283.5	159.7	24532.9	221.8	143.2	24496.9	240.0	167.0	25240.5	260.7	145.4	26154.1
	90	248.8	157.2	23891.8	269.0	185.1	24600.2	292.3	182.5	25470.0	228.8	155.0	25469.6	247.5	183.7	26224.8	268.8	182.1	27143.0
10,000	75	275.9	158.2	24025.2	297.3	155.0	24731.1	321.8	144.4	25624.8	253.7	150.5	26570.5	273.5	123.2	27378.6	295.9	92.4	28343.8
	80	284.5	174.5	24740.6	306.5	179.2	25473.0	331.8	174.0	26390.3	261.6	171.3	27385.1	282.0	209.4	28200.0	305.1	142.7	29190.0
	85	292.7	186.1	25567.1	315.4	207.2	26342.8	341.4	202.0	27300.6	269.2	183.8	28303.1	290.2	197.7	29162.9	314.0	189.5	30220.6
	90	300.6	199.7	26554.1	323.9	223.5	27373.4	350.7	231.5	28354.8	276.4	200.0	29423.1	298.0	217.6	30300.2	322.4	239.7	31381.0
12,000	75	323.9	192.5	28761.9	347.1	186.6	29639.3	374.0	172.2	30714.2	297.9	183.1	32842.2	319.3	148.3	33853.7	343.9	110.2	35076.2
	80	331.8	209.6	29616.3	355.5	212.9	30528.5	383.1	204.8	31617.5	305.1	205.9	33847.6	327.1	186.6	34869.3	352.3	168.0	36111.9
	85	338.9	220.2	30662.0	363.1	242.5	31570.9	391.3	234.3	32684.5	311.6	217.6	34985.0	334.1	231.5	36059.9	359.8	219.7	37329.1
	90	345.5	232.8	31846.3	370.1	257.8	32806.0	398.8	264.5	33983.7	317.7	233.3	36384.0	340.5	250.9	37466.2	366.8	273.8	38797.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-250CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,000	75	190.1	107.0	24463.6	204.5	80.0	25195.7	219.9	56.6	26090.0	173.3	121.4	25910.9	185.1	79.8	26695.1	196.8	53.4	27639.9
	80	197.0	120.5	25259.5	211.9	109.9	26004.9	227.9	88.4	26928.7	179.3	133.8	26815.4	191.5	112.9	27602.8	203.6	84.7	28577.1
	85	203.4	128.7	26182.4	218.8	143.9	26963.3	235.4	121.8	27926.6	185.0	141.3	27867.9	197.6	150.6	28686.2	210.1	123.5	29699.1
	90	209.7	138.0	27303.6	225.6	160.4	28115.3	242.7	158.6	29110.1	190.7	149.9	29137.7	203.7	170.4	30005.8	216.5	168.0	31077.2
10,000	75	236.0	136.9	28985.8	252.9	108.3	29864.3	270.9	79.8	30922.4	218.2	152.5	31401.2	232.2	116.2	32349.9	245.9	83.8	33501.1
	80	243.3	153.4	29929.3	260.7	145.2	30824.9	279.3	127.9	31914.3	225.0	167.8	32473.5	247.8	218.9	34101.2	253.6	140.0	34638.5
	85	250.3	166.2	31027.2	268.3	182.6	31962.8	287.4	175.5	33106.5	231.5	183.8	33751.3	253.3	206.2	34762.8	260.9	198.6	35992.4
	90	257.1	178.3	32354.3	275.5	199.7	33331.0	295.2	225.3	34511.0	237.8	194.3	35285.6	263.0	224.3	36361.9	268.0	258.4	37640.9
12,000	75	278.7	168.7	35724.2	297.0	132.0	36822.0	316.7	96.3	38151.3	259.5	190.5	38606.1	274.6	143.5	39790.4	289.5	102.6	41226.3
	80	285.6	186.7	36899.1	304.3	175.1	38006.3	324.5	152.6	39359.0	266.1	207.3	39950.6	281.6	201.1	41143.3	296.8	169.4	42606.0
	85	292.0	199.7	38261.0	311.1	217.0	39409.0	331.8	206.7	40796.0	272.3	224.5	41537.0	288.1	249.1	42758.2	303.7	237.7	44262.9
	90	298.4	212.2	39888.6	317.9	235.1	41095.7	339.1	262.8	42557.1	279.1	236.5	43393.2	295.4	270.0	44725.1	311.4	308.2	46317.2

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-250CWN1-Y(D): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.4									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,000	75	167.3	113.0	26805.0	178.6	74.1	27629.5	188.9	48.7	28611.7	151.4	92.5	29042.8	162.6	61.2	29936.5	172.9	48.3	30995.1
	80	173.1	124.6	27742.5	184.8	104.9	28568.9	195.5	77.6	29578.1	156.6	102.0	30049.9	168.2	86.6	30954.4	178.9	77.6	32067.4
	85	178.6	131.5	28830.4	190.7	140.3	29690.3	201.7	113.4	30772.0	161.6	107.6	31212.4	173.5	116.2	32169.4	184.5	113.4	33319.9
	90	184.0	139.8	30143.1	196.6	158.7	31056.0	207.9	154.6	32147.8	166.6	114.6	32681.9	178.9	131.4	33649.2	190.2	129.2	34831.6
10,000	75	210.6	141.8	32493.2	224.1	107.9	33482.1	236.1	76.6	34655.7	190.6	115.9	35203.8	203.9	89.0	36277.9	216.0	76.3	37577.0
	80	217.1	156.1	33597.4	231.0	153.0	34620.5	243.4	128.5	35869.9	196.5	127.8	36411.0	210.2	126.6	37511.4	222.7	128.4	38867.6
	85	223.4	171.1	34937.0	237.7	192.0	35979.5	250.5	182.7	37239.9	202.2	140.1	37835.3	216.3	158.9	38983.8	229.2	183.3	40385.9
	90	229.4	181.0	36558.1	244.1	208.8	37634.5	257.2	238.1	38996.2	207.6	148.2	39562.5	222.2	172.9	40777.0	235.4	199.4	42207.8
12,000	75	250.4	177.1	39960.7	265.0	133.2	41183.0	277.9	93.7	42631.7	226.6	144.8	43330.2	241.1	109.9	44621.8	254.3	93.3	46210.9
	80	256.8	192.9	41340.9	271.7	186.9	42583.3	285.0	155.5	44136.0	232.4	157.8	44769.0	247.2	154.6	46139.0	260.7	155.5	47807.5
	85	262.8	209.1	42932.4	278.0	231.9	44254.7	291.6	218.7	45865.9	237.8	171.2	46531.4	253.0	192.0	47950.0	266.8	219.4	49679.5
	90	269.3	220.3	44930.1	285.0	251.4	46290.5	298.9	284.0	47951.5	243.8	180.4	48715.0	259.4	208.2	50155.7	273.5	237.8	51926.9

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-300CWN1-Y(DH):

Gross Cooling Capacity																			
Ambient DB(°F)		85									95								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,920	75	240.9	138.3	23090.2	260.5	137.8	23801.8	283.1	128.5	24653.0	221.5	130.4	24648.7	239.7	109.6	25376.8	260.3	81.0	26280.6
	80	249.9	154.2	23790.6	270.3	164.4	24515.9	293.7	155.8	25391.7	229.8	149.9	25384.7	248.7	146.9	26138.1	270.1	125.1	27073.3
	85	258.4	165.8	24599.3	279.4	193.5	25353.0	303.6	180.8	26272.8	237.6	162.1	26234.3	257.1	189.1	27030.6	279.2	164.5	28008.9
	90	266.4	178.0	25586.3	288.1	209.5	26344.9	313.0	206.6	27276.4	245.0	175.5	27276.0	265.1	207.9	28084.8	287.9	206.1	29068.1
11,150	75	295.5	179.0	25729.1	318.4	175.5	26485.0	344.7	163.4	27442.1	271.7	170.3	28454.9	292.9	139.5	29320.4	316.9	104.6	30354.0
	80	304.7	197.5	26495.3	328.3	202.9	27279.6	355.4	196.9	28262.0	280.1	193.9	29327.3	302.0	217.0	30200.0	326.8	161.5	31260.3
	85	313.5	210.6	27380.4	337.8	234.5	28211.0	365.7	228.6	29236.8	288.3	208.0	30310.4	310.8	223.8	31231.2	336.2	214.4	32363.9
	90	322.0	226.0	28437.4	346.9	253.0	29314.7	375.5	262.0	30365.7	296.1	226.4	31509.8	319.1	246.2	32449.2	345.3	271.3	33606.6
13,380	75	346.9	217.9	30801.7	371.7	211.2	31741.4	400.5	194.8	32892.5	319.0	207.3	35171.4	342.0	167.9	36254.7	368.3	124.7	37563.9
	80	355.3	237.2	31716.7	380.7	241.0	32693.7	410.3	231.8	33859.8	326.7	233.0	36248.1	350.3	245.0	37342.3	377.2	190.1	38673.1
	85	362.9	249.3	32836.6	388.9	274.5	33810.0	419.0	265.1	35002.6	333.7	246.3	37466.2	357.8	262.0	38617.3	385.3	248.7	39976.6
	90	370.0	263.5	34104.9	396.4	291.7	35132.7	427.1	299.3	36393.9	340.2	264.0	38964.4	364.7	284.0	40123.4	392.8	309.9	41548.5

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-300CWN1-Y(DH): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		105									115								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,920	75	203.6	121.1	26198.6	219.0	90.6	26982.6	235.5	64.1	27940.4	191.1	143.1	28815.8	204.1	94.1	29688.0	217.0	63.0	30738.7
	80	210.9	136.3	27050.9	226.9	124.4	27849.3	244.1	100.1	28838.5	197.8	157.7	29821.7	211.2	133.1	30697.4	224.5	99.8	31781.0
	85	217.9	145.7	28039.3	234.3	162.8	28875.6	252.1	137.9	29907.2	204.0	166.6	30992.3	217.9	177.5	31902.4	231.7	145.6	33028.8
	90	224.6	156.2	29240.1	241.6	181.5	30109.3	259.9	179.5	31174.6	210.3	176.6	32404.4	224.6	200.9	33369.9	238.8	198.0	34561.4
11,150	75	252.7	155.0	31041.5	270.8	122.6	31982.3	290.2	90.3	33115.5	240.6	179.7	34921.7	256.1	136.9	35976.8	271.2	98.8	37257.0
	80	260.5	173.6	32051.9	279.2	164.3	33011.1	299.2	144.8	34177.7	248.1	197.8	36114.3	264.0	208.0	37200.0	279.6	165.0	38522.0
	85	268.1	188.1	33227.7	287.3	206.6	34229.7	307.8	198.7	35454.5	255.3	216.6	37535.3	271.7	243.0	38660.2	287.7	234.0	40027.6
	90	275.3	201.8	34649.0	295.0	226.1	35694.9	316.1	255.0	36958.5	262.2	229.0	39241.6	279.0	264.3	40438.5	304.6	295.5	41861.0
13,380	75	298.4	191.0	38257.8	318.0	149.4	39433.5	339.2	109.0	40857.1	286.2	224.5	42934.4	302.8	169.2	44251.5	319.2	120.9	45848.4
	80	305.8	211.3	39516.1	325.9	198.1	40701.8	347.6	172.7	42150.4	293.4	244.3	44429.7	310.5	237.0	45756.0	327.3	199.7	47382.8
	85	312.7	226.0	40974.5	333.2	245.6	42204.0	355.3	234.0	43689.3	300.3	264.6	46193.9	317.7	293.6	47552.0	335.0	280.1	49225.3
	90	319.6	240.2	42717.6	340.5	266.1	44010.2	363.1	297.5	45575.3	307.8	278.8	48258.2	325.7	318.2	49739.4	363.2	343.4	51510.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

Cooling capacity for MRCT-300CWN1-Y(DH): (Continued)

Gross Cooling Capacity																			
Ambient DB(°F)		118.4									125								
Indoor	WB(°F)	61			67			73			61			67			73		
Air Flow (CFM)	DB(°F)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,920	75	184.4	133.2	29810.3	197.0	87.3	30727.1	208.3	57.4	31819.5	166.9	109.0	32298.9	179.3	72.1	33292.8	190.6	56.9	34470.1
	80	190.8	146.8	30852.9	203.8	123.6	31771.9	215.6	91.5	32894.2	172.7	120.2	33418.9	185.5	102.1	34424.8	197.2	91.4	35662.6
	85	196.9	155.0	32062.7	210.3	165.3	33019.0	222.4	133.6	34222.0	178.2	126.9	34711.8	191.4	136.9	35776.0	203.5	133.6	37055.5
	90	202.9	164.7	33522.5	216.8	187.0	34537.8	229.2	182.2	35752.1	183.7	135.1	36346.1	197.2	154.9	37421.7	209.7	152.3	38736.7
11,150	75	232.2	167.1	36136.2	247.1	127.1	37236.0	260.4	90.3	38541.1	210.2	136.6	39150.6	224.9	104.9	40345.2	238.2	89.9	41789.9
	80	239.4	184.0	37364.1	254.8	180.3	38502.0	268.4	151.4	39891.4	216.7	150.6	40493.2	231.8	149.2	41716.9	245.6	151.4	43225.2
	85	246.4	201.7	38853.9	262.1	226.2	40013.3	276.2	215.4	41415.0	223.0	165.2	42077.1	238.6	187.3	43354.4	252.7	216.0	44913.7
	90	253.0	213.3	40656.8	269.2	246.1	41853.9	283.7	280.7	43368.2	229.0	174.7	43998.0	245.0	203.8	45348.7	259.6	235.0	46939.9
12,800	75	276.2	208.7	44440.9	292.2	157.0	45800.3	306.5	110.5	47411.4	249.9	170.7	48188.2	265.9	129.6	49624.6	280.4	110.0	51391.9
	80	283.2	227.3	45975.9	299.6	220.3	47357.5	314.2	183.2	49084.3	256.3	186.0	49788.2	272.7	182.2	51311.8	287.5	183.2	53167.4
	85	289.8	246.4	47745.7	306.6	273.3	49216.3	321.6	257.8	51008.1	262.2	201.8	51748.2	279.0	226.3	53325.9	294.2	258.6	55249.2
	90	297.0	259.6	49967.4	314.3	296.3	51480.3	334.7	329.6	53327.6	268.8	212.6	54176.6	286.0	245.3	55778.9	301.6	280.3	57748.7

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h); PI: Power Input (W).

6. Electrical Data

Model	Power Supply		Compressor				Eva.Fan Motor			Con. Fan Motor		
	MCA	MFA	STC	RNC	IPT	Qty	RNC	IPT	Qty	RNC (Each)	IPT (Each)	Qty.
MRCT-050CWN1-M	34.6	50	127.9	21.0	4.72	1	6.0	0.56	1	1.67	0.23	1
MRCT-062CWN1-Y(D)	29.6	30	95	12.19	6.78	1	3.15	0.69	1	1.9	0.42	1
MRCT-075CWN1-Y(D)	25.5	40	95	12.19	6.78	1	3.15	0.69	1	1.6	0.75	1
MRCT-100CWN1-Y(D)	53.1	60	94	9.9	5.48	2	7.6	1.10	1	1.9	0.42	2
MRCT-125CWN1-Y(D)	63.2	70	95	12.19	6.78	2	8.5	1.56	1	1.64	0.69	2
MRCT-150CWN1-Y(D)	63	70	95	12.19	6.78	2	8.5	2.1	1	1.5	0.67	2
MRCT-200CWN1-Y(D)	70	90	177	20.88	11.25	2	11.4	3.9	1	2.79	1.15	2
MRCT-250CWN1-Y(D)	81.9	90	168	23.84	12.94	2	13.5	3.61	1	2.79	1.15	2
MRCT-300CWN1-Y(DH)	86.8	90	168	23.84	12.94	2	15.5	5.6	1	2.79	1.15	2

Notes:

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps (A)

STC: Starting Current (A);

RNC: Running Current (A);

IPT: Input Power (kW);

Qty: Quantity

For 3Ph units, Voltage imbalance between each phase should be <2%.

7. Fan Performance Data

Blower drive options for standard static pressure:

Blower drive options for standard static pressure						
Model	Motor			Blower		
	HP	rpm	Pulley pitch Dia. (inch)	Fan speed range (rpm)		Pulley pitch Dia. (inch)
				Min.	Max.	
MRCT-050CWN1-M	3/4	1,050	/	844	1,337	/
MRCT-062CWN1-Y(D)	1.47	1,680	4.53 - 5.25	710	827	11.02
MRCT-075CWN1-Y(D)	1.47	1,680	4.53 - 5.25	698	825	11.81
MRCT-100CWN1-Y(D)	4	1,700	4.53 - 5.25	726	844	13.19
MRCT-125CWN1-Y(D)	5.5	1,730	4.53 - 5.25	730	855	11.81
MRCT-150CWN1-Y(D)	5.5	1,730	4.53 - 5.25	730	855	11.81
MRCT-200CWN1-Y(D)	7.5	1,730	4.53 - 5.25	565	660	13.98
MRCT-250CWN1-Y(D)	7.5	1,730	4.53 - 5.25	565	660	13.98

Blower drive options for high static pressure:

Blower drive options for high static pressure						
Model	Motor			Blower		
	HP	rpm	Pulley pitch Dia. (inch)	Fan speed range (rpm)		Pulley pitch Dia. (inch)
				Min.	Max.	
MRCT-062CWN1-Y(D)	2.93	1,700	4.53 - 5.25	1,247	1,449	6.3
MRCT-100CWN1-Y(D)	5.5	1,730	4.53 - 5.25	896	1,059	8.82
MRCT-125CWN1-Y(D)	7.5	1,730	4.53 - 5.25	958	1,120	8.35
MRCT-150CWN1-Y(D)	7.5	1,730	4.53 - 5.25	958	1,120	8.35
MRCT-200CWN1-Y(D)	10	1,730	4.53 - 5.25	670	780	11.81
MRCT-250CWN1-Y(D)	10	1,730	4.53 - 5.25	670	780	11.81
MRCT-300CWN1-Y(DH)	10.0	1,730	4.53 - 5.25	670	780	11.81

Note: 7.5Ton hasn't option for high static pressure; 30Ton hasn't option for standard static pressure.

Example for selection process:

The following data are the rated design points for 10 ton rooftop packages:

Air flow = 3777CFM; External static pressure = 0.3 in.w.g; Fan speed = 728rpm;

Power input = 1096W; The No. of turns = 3N.

To increase the ESP to 0.5 in.w.g, but maintain the airflow rate at 3777cfm.

please follow the steps below:

Step 1: Selection of new desired point.

From the table data, select the point that can meet both of the requirements.

ESP = 0.5 in.w.g;

Air flow rate (Near or equal to) $\approx$ 3777CFM.

Step 2: Read fan speed, power input:

Air flow = 3795CFM (Near 3777CFM)

Fan speed = 803rpm;

Power input = 1311W.

Step 3: Read number of turns for variable pitch pulley.

Similarly, use this RPM value to read the No. of turns (N) by referring to the table of 'Motor Variable Pitch Pulley Data'. The variable pitch pulley for motor shall be adjusted to this 'N' in order to get 3795cfm. First, adjust the motor pulley to 0 turns. Then, make 1 turns on the pulley. Cross check the dimension 'X', and it stands for regulation space of motor pulley. In this case, $X = 2.5\text{mm}$.

Pulley pitch factory set point: the table, No. of turns = 1.5N.

MRCT-050CWN1-M (standard 3/4-hp DC Motor)

ESP	Item	High speed	Middle high speed	Middle speed	Middle low speed	Low speed
0Pa	Fan speed(RPM)	1035	1007	973	934	884
	Power input(W)	627	568	403	359	285
	Air flow(CFM)	2490	2349	2096	2019	1864
50Pa	Fan speed(RPM)	1080	1050	1027	990	943
	Power input(W)	662	606	437	421	315
	Air flow(CFM)	2394	2249	2105	2012	1751
75Pa	Fan speed(RPM)	1104	1078	1052	1018	333
	Power input(W)	677	624	458	409	333
	Air flow(CFM)	2338	2200	1940	1850	1683
100Pa	Fan speed(RPM)	1128	1103	1077	1044	1004
	Power input(W)	698	656	478	428	349
	Air flow(CFM)	2283	2146	1877	1782	1615
150Pa	Fan speed(RPM)	1174	1154	1131	1101	1068
	Power input(W)	730	686	511	458	378
	Air flow(CFM)	2086	2026	1760	1662	1492
200Pa	Fan speed(RPM)	1225	1206	1187	1162	1137
	Power input(W)	736	684	539	488	404
	Air flow(CFM)	1939	1873	1645	1558	1388

Note: The unit only has one speed of indoor side fan, and low speed is the factory default. If the unit operating with other fan speed, the wiring between fan motor and main PCB board should be adjusted.

MRCT-062CWN1-Y(D) (1.1kw standard static pressure motor. Fixed pulley: SPA280*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SPA1607)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	Fan speed (rpm)	824	815	805	796	786	777	767	758	748	739	729	720	710
	Power input (W)	1018	997	975	925	874	845	816	796	776	763	749	734	719
	Air flow (CFM)	2947	2887	2826	2778	2730	2711	2691	2664	2636	2591	2546	2544	2542
0.1	Fan speed (rpm)	825	816	806	797	787	778	767	759	749	740	730	721	711
	Power input (W)	1014	974	934	883	832	809	786	767	747	741	735	718	701
	Air flow (CFM)	2878	2782	2685	2632	2578	2575	2572	2546	2520	2496	2472	2462	2451
0.2	Fan speed (rpm)	826	816	806	797	788	778	768	760	750	741	731	721	711
	Power input (W)	943	930	916	861	806	783	760	736	712	696	680	664	648
	Air flow (CFM)	2682	2648	2613	2541	2469	2464	2458	2414	2370	2315	2259	2313	2366
0.3	Fan speed (rpm)	826	817	807	798	789	779	768	761	751	742	732	722	712
	Power input (W)	856	855	854	807	759	723	686	664	642	627	611	617	622
	Air flow (CFM)	2454	2437	2419	2361	2302	2250	2198	2151	2103	2049	1994	2053	2111
0.4	Fan speed (rpm)	827	817	807	798	790	779	769	/	/	/	/	/	/
	Power input (W)	777	776	774	727	679	645	610	/	/	/	/	/	/
	Air flow (CFM)	2220	2199	2178	2111	2044	1982	1919	/	/	/	/	/	/
0.5	Fan speed (rpm)	827	818	808	799	/	/	/	/	/	/	/	/	/
	Power input (W)	692	692	691	689	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	1963	1939	1915	1890	/	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-062CWN1-Y(D) (optional 2.2kw high static pressure motor. Fixed pulley: SPA160*1*1610; Adjustable pulley:VAR139A1-1615; Belt:SPA1607)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	1247
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	1796
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	3086
1.1	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	1248
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	1666
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	2894
1.2	Fan speed (rpm)	/	/	/	/	/	/	/	/	1313	1297	1280	1263	1248
	Power input (W)	/	/	/	/	/	/	/	/	2100	1959	1818	1677	1535
	Air flow (CFM)	/	/	/	/	/	/	/	/	3107	3036	2965	2833	2701
1.3	Fan speed (rpm)	/	/	/	/	/	/	/	1330	1314	1298	1281	1264	1249
	Power input (W)	/	/	/	/	/	/	/	2088	1986	1842	1697	1479	1261
	Air flow (CFM)	/	/	/	/	/	/	/	3040	2970	2875	2781	2473	2165
1.4	Fan speed (rpm)	/	/	/	/	1380	1364	1347	1331	1314	1298	1281	1264	1249
	Power input (W)	/	/	/	/	2299	2199	2098	1985	1872	1724	1576	1282	987
	Air flow (CFM)	/	/	/	/	3085	3017	2949	2891	2833	2715	2596	2113	1629
1.5	Fan speed (rpm)	/	/	/	1397	1381	1365	1348	1331	1315	1299	1282	1265	/
	Power input (W)	/	/	/	2265	2187	2089	1991	1882	1774	1615	1455	1080	/
	Air flow (CFM)	/	/	/	3057	2969	2886	2803	2743	2683	2542	2402	1800	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-062CWN1-Y(D) (optional 2.2kw high static pressure motor. Fixed pulley: SPA160*1*1610; Adjustable pulley:VAR139A1-1615; Belt:SPA1607)
(continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
1.6	Fan speed (rpm)	1447	1430	1414	1398	1381	1365	1348	1332	1315	1300	/	/	/
	Power input (W)	2474	2365	2256	2166	2075	1979	1883	1780	1676	1560	/	/	/
	Air flow (CFM)	3061	3011	2961	2907	2852	2754	2656	2594	2532	2470	/	/	/
1.7	Fan speed (rpm)	1448	1431	1415	1398	1382	1366	1349	1332	/	/	/	/	/
	Power input (W)	2370	2264	2158	2067	1976	1826	1677	1620	/	/	/	/	/
	Air flow (CFM)	2940	2888	2836	2774	2713	2543	2373	2150	/	/	/	/	/
1.8	Fan speed (rpm)	1448	1431	1415	1399	1382	1366	1349	/	/	/	/	/	/
	Power input (W)	2265	2163	2060	1969	1877	1674	1470	/	/	/	/	/	/
	Air flow (CFM)	2819	2765	2711	2642	2573	2331	2089	/	/	/	/	/	/
1.9	Fan speed (rpm)	1449	1432	1416	1400	1383	1367	/	/	/	/	/	/	/
	Power input (W)	1987	1909	1830	1771	1712	1520	/	/	/	/	/	/	/
	Air flow (CFM)	2481	2459	2438	2394	2349	2132	/	/	/	/	/	/	/
2.0	Fan speed (rpm)	1449	1432	1416	1400	1383	/	/	/	/	/	/	/	/
	Power input (W)	1709	1655	1600	1573	1546	/	/	/	/	/	/	/	/
	Air flow (CFM)	2142	2154	2165	2145	2125	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-075CWN1-Y(D) (1.1kw Standard static pressure Motor. Fixed pulley: SPA300*1*2012; Adjustable pulley: VAR139A1-1615;Belt: SPA1782)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	710	704	698
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	896	865	833
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	3531	3480	3429
0.1	Fan speed (rpm)	/	/	/	/	/	/	/	/	749	740	730	721	711	706	700
	Power input (W)	/	/	/	/	/	/	/	/	963	932	901	869	838	806	774
	Air flow (CFM)	/	/	/	/	/	/	/	/	3568	3502	3436	3370	3304	3253	3202
0.2	Fan speed (rpm)	/	/	/	/	785	776	768	759	750	740	731	721	711	706	701
	Power input (W)	/	/	/	/	1073	1030	987	943	900	868	836	804	772	743	713
	Air flow (CFM)	/	/	/	/	3590	3525	3461	3396	3331	3267	3202	3138	3073	3023	2972
0.3	Fan speed (rpm)	823	813	804	794	784	776	768	759	751	741	732	722	712	707	702
	Power input (W)	1142	1106	1070	1033	997	955	913	871	829	797	765	732	700	672	644
	Air flow (CFM)	3583	3527	3472	3416	3360	3293	3226	3158	3091	3019	2947	2874	2802	2730	2658
0.4	Fan speed (rpm)	822	813	804	794	785	777	769	761	753	744	734	725	715	710	704
	Power input (W)	1054	1018	982	946	910	867	823	780	736	705	674	642	611	581	550
	Air flow (CFM)	3340	3283	3226	3168	3111	3029	2947	2865	2783	2686	2588	2491	2393	2333	2273
0.5	Fan speed (rpm)	824	815	805	796	786	779	771	764	756	/	/	/	/	/	/
	Power input (W)	960	923	887	850	813	774	734	695	655.5	/	/	/	/	/	/
	Air flow (CFM)	3057	2994	2932	2869	2806	2687	2567	2448	2328.5	/	/	/	/	/	/
0.6	Fan speed (rpm)	825	816	807	797	788	/	/	/	/	/	/	/	/	/	/
	Power input (W)	843	806	769	731	694	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	2727	2658	2590	2521	2452	/	/	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-100CWN1-Y(D) (3kw Standard static pressure motor. Fixed pulley: SPA335*1*2012; Adjustable pulley: VAR139A1-1615; Belt:SAP1857)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	Fan speed (rpm)	/	/	/	/	/	/	780	771	762	753	744	735	726
	Power input (W)	/	/	/	/	/	/	1623	1572	1521	1469	1417	1361	1304
	Air flow (CFM)	/	/	/	/	/	/	5034	4967	4899	4834	4768	4700	4631
0.1	Fan speed (rpm)	/	/	/	/	799	790	781	772	763	754	745	736	727
	Power input (W)	/	/	/	/	1656	1605	1554	1504	1454	1401	1348	1291	1234
	Air flow (CFM)	/	/	/	/	4920	4850	4779	4710	4642	4565	4489	4419	4349
0.2	Fan speed (rpm)	838	829	819	810	800	791	782	773	764	755	745	736	727
	Power input (W)	1805	1745	1685	1635	1584	1535	1485	1436	1386	1332	1278	1221	1164
	Air flow (CFM)	4959	4895	4830	4753	4675	4600	4524	4454	4384	4297	4209	4138	4066
0.3	Fan speed (rpm)	839	830	821	811	801	792	783	774	765	755	746	737	728
	Power input (W)	1720	1660	1601	1549	1498	1452	1405	1354	1303	1251	1200	1148	1096
	Air flow (CFM)	4704	4635	4566	4478	4391	4321	4252	4167	4082	3999	3916	3846	3777
0.4	Fan speed (rpm)	840	831	822	812	802	793	784	775	765	756	747	738	728
	Power input (W)	1634	1575	1516	1464	1412	1369	1325	1272	1219	1170	1121	1074	1027
	Air flow (CFM)	4448	4375	4302	4204	4106	4043	3980	3880	3779	3701	3622	3555	3487
0.5	Fan speed (rpm)	841	832	823	813	803	794	785	776	766	757	748	739	729
	Power input (W)	1532	1472	1411	1361	1311	1263	1216	1166	1116	1066	1017	967	917
	Air flow (CFM)	4157	4072	3988	3892	3795	3712	3630	3522	3415	3324	3233	3140	3047

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-100CWN1-Y(D) (3kw Standard static pressure motor. Fixed pulley: SPA335*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1857)
(continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0.6	Fan speed (rpm)	842	833	824	814	804	795	786	777	767	/	/	/	/
	Power input (W)	1430	1368	1306	1258	1209	1158	1106	1059	1012	/	/	/	/
	Air flow (CFM)	3865	3770	3674	3579	3484	3382	3279	3165	3051	/	/	/	/
0.7	Fan speed (rpm)	843	834	825	815	805	/	/	/	/	/	/	/	/
	Power input (W)	1305	1243	1181	1126	1070	/	/	/	/	/	/	/	/
	Air flow (CFM)	3496	3389	3282	3145	3007	/	/	/	/	/	/	/	/
0.8	Fan speed (rpm)	844	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	1180	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	3126	/	/	/	/	/	/	/	/	/	/	/	/
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-100CWN1-Y(D) (optional 4kw high static pressure motor. Fixed pulley: SPA224*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1707)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
1.0	Fan speed (RPM)	/	/	/	/	/	/	/	/	/	933	920	908	896
	Power input (W)	/	/	/	/	/	/	/	/	/	2814	2606	2384	2161
	Air flow(CFM)	/	/	/	/	/	/	/	/	/	5331	5187	5034	4880
1.1	Fan speed (RPM)	/	/	/	/	/	/	/	/	/	933	921	909	897
	Power input (W)	/	/	/	/	/	/	/	/	/	2658	2470	2273	2077
	Air flow(CFM)	/	/	/	/	/	/	/	/	/	5040	4896	4747	4597
1.2	Fan speed (RPM)	/	/	/	/	/	/	972	959	946	934	921	910	898
	Power input (W)	/	/	/	/	/	/	3005	2838	2670	2502	2333	2163	1992
	Air flow(CFM)	/	/	/	/	/	/	5179	5036	4893	4749	4605	4460	4314
1.3	Fan speed (RPM)	/	/	/	/	/	/	973	960	947	935	922	910	899
	Power input (W)	/	/	/	/	/	/	2868	2692	2516	2335	2154	1969	1784
	Air flow(CFM)	/	/	/	/	/	/	4948	4796	4644	4489	4334	4174	4015
1.4	Fan speed (RPM)	/	/	/	/	999	986	973	961	948	936	923	911	899
	Power input (W)	/	/	/	/	3088	2910	2731	2546	2361	2168	1975	1776	1576
	Air flow(CFM)	/	/	/	/	5026	4872	4717	4556	4395	4229	4062	3889	3715
1.5	Fan speed (RPM)	/	/	/	1013	1000	987	974	962	949	937	924	912	900
	Power input (W)	/	/	/	3031	2870	2709	2549	2393	2238	2089	1940	1801	1662
	Air flow(CFM)	/	/	/	4947	4785	4623	4461	4290	4119	3941	3762	3575	3388

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-100CWN1-Y(D) (optional 4kw high static pressure motor. Fixed pulley: SPA224*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1707)
(continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
1.6	Fan speed (RPM)	/	/	1026	1013	1000	988	975	963	950	938	925	913	901
	Power input (W)	/	/	2964	2808	2652	2509	2366	2240	2114	2010	1905	1827	1748
	Air flow(CFM)	/	/	4864	4704	4544	4374	4204	4024	3843	3653	3462	3262	3061
1.7	Fan speed (RPM)	1056	1042	1027	1014	1001	989	977	964	951	938	925	/	/
	Power input (W)	3162	2990	2819	2657	2496	2349	2202	2072	1943	1813	1783	/	/
	Air flow(CFM)	4893	4725	4557	4379	4201	4012	3824	3626	3427	3227	3027	/	/
1.8	Fan speed (RPM)	1057	1043	1028	1015	1001	990	978	965	952	/	/	/	/
	Power input (W)	3031	2852	2673	2507	2340	2189	2037	1905	1772	/	/	/	/
	Air flow(CFM)	4622	4436	4249	4053	3857	3651	3444	3228	3011	/	/	/	/
1.9	Fan speed (RPM)	1058	1043	1029	1015	1002	987	972	/	/	/	/	/	/
	Power input (W)	2849	2669	2490	2323	2157	1987	1837	/	/	/	/	/	/
	Air flow(CFM)	4317	4116	3916	3704	3493	3282	3071	/	/	/	/	/	/
2.0	Fan speed (RPM)	1059	1044	1029	1016	1003	/	/	/	/	/	/	/	/
	Power input (W)	2667	2487	2306	2140	1973	/	/	/	/	/	/	/	/
	Air flow(CFM)	4012	3797	3582	3356	3129	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-125CWN1-Y(D) (4kw standard static pressure Motor. Fixed pulley: SPA300*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1857)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	Fan speed (rpm)	849	840	830	821	811	801	790	781	771	761	750	740	730
	Power input (W)	2726	2637	2548	2460	2371	2299	2227	2145	2062	1995	1927	1894	1860
	Air flow (CFM)	5966	5935	5904	5804	5703	5624	5544	5470	5395	5318	5240	5179	5117
0.1	Fan speed (rpm)	850	841	831	822	812	802	791	782	772	762	751	741	730
	Power input (W)	2631	2544	2457	2370	2283	2213	2142	2060	1978	1912	1845	1813	1781
	Air flow (CFM)	5786	5734	5683	5595	5508	5423	5339	5261	5182	5145	5107	4996	4885
0.2	Fan speed (rpm)	850	841	831	822	812	802	791	782	772	762	751	741	731
	Power input (W)	2536	2451	2365	2280	2195	2126	2057	1976	1894	1829	1763	1733	1702
	Air flow (CFM)	5606	5534	5461	5387	5312	5223	5134	5052	4969	4972	4974	4814	4653
0.3	Fan speed (rpm)	851	842	832	823	813	802	791	782	773	763	752	742	731
	Power input (W)	2436	2351	2266	2181	2096	2029	1961	1880	1799	1734	1669	1640	1611
	Air flow (CFM)	5400	5322	5245	5164	5083	4991	4899	4805	4712	4669	4627	4508	4390
0.4	Fan speed (rpm)	851	842	832	823	813	803	792	783	773	763	752	742	732
	Power input (W)	2335	2251	2167	2082	1997	1931	1865	1784	1703	1639	1574	1547	1520
	Air flow (CFM)	5194	5111	5028	4941	4853	4759	4664	4559	4454	4367	4279	4203	4127
0.5	Fan speed (rpm)	852	843	833	824	814	804	793	784	774	764	753	743	732
	Power input (W)	2221	2218	2216	2051	1887	1820	793	1673	1593	1529	1466	1438	1410
	Air flow (CFM)	4944	4863	4783	4682	4581	4476	4372	4265	4158	4058	3959	3876	3792

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-125CWN1-Y(D) (4kw standard static pressure motor. Fixed pulley: SPA300*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1857)
(continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0.6	Fan speed (rpm)	842	833	824	814	804	795	786	777	767	/	/	/	/
	Power input (W)	1430	1368	1306	1258	1209	1158	1106	1059	1012	/	/	/	/
	Air flow (CFM)	3865	3770	3674	3579	3484	3382	3279	3165	3051	/	/	/	/
0.7	Fan speed (rpm)	843	834	825	815	805	/	/	/	/	/	/	/	/
	Power input (W)	1305	1243	1181	1126	1070	/	/	/	/	/	/	/	/
	Air flow (CFM)	3496	3389	3282	3145	3007	/	/	/	/	/	/	/	/
0.8	Fan speed (rpm)	844	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	1180	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	3126	/	/	/	/	/	/	/	/	/	/	/	/
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-125CWN1-Y(D) (optional 5kw high static pressure motor. Fixed Pulley: SPA212*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1707)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0.8	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	982	970	958
	Power input (W)	/	/	/	/	/	/	/	/	/	/	3760	3568	3375
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	6246	6067	5887
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	996	983	971	959
	Power input (W)	/	/	/	/	/	/	/	/	/	3807	3611	3422	3232
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	6176	6033	5851	5669
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	1022	1010	997	983	971	959
	Power input (W)	/	/	/	/	/	/	/	4058	3852	3657	3462	3276	3089
	Air flow (CFM)	/	/	/	/	/	/	/	6230	6118	5969	5820	5636	5451
1.1	Fan speed (rpm)	/	/	/	/	1061	1047	1034	1022	1011	997	984	972	960
	Power input (W)	/	/	/	/	4438	4268	4097	3892	3687	3493	3299	3113	2927
	Air flow (CFM)	/	/	/	/	6364	6250	6137	6016	5896	5732	5569	5382	5196
1.2	Fan speed (rpm)	/	/	/	/	1061	1048	1035	1023	1011	998	985	973	960
	Power input (W)	/	/	/	/	4276	4104	3931	3727	3522	3329	3136	2951	2765
	Air flow (CFM)	/	/	/	/	6172	6052	5931	5802	5673	5495	5317	5129	4940
1.3	Fan speed (rpm)	/	/	1087	1074	1062	1049	1036	1024	1012	999	986	973	961
	Power input (W)	/	/	4546	4321	4097	3924	3752	3546	3341	3149	2957	2772	2587
	Air flow (CFM)	/	/	6332	6141	5951	5824	5697	5548	5398	5221	5044	4851	4657
1.4	Fan speed (rpm)	/	/	1088	1075	1062	1049	1036	1024	1012	999	986	974	962
	Power input (W)	/	/	4367	4142	3917	3745	3572	3366	3159	2969	2778	2594	2409
	Air flow (CFM)	/	/	6141	5935	5729	5596	5463	5293	5123	4947	4771	4573	4374

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-125CWN1-Y(D) (optional 5kw high static pressure motor. Fixed pulley: SPA212*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1707)
(continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
1.5	Fan speed (rpm)	1114	1101	1089	1076	1063	1050	1037	1025	1013	1000	987	975	963
	Power input (W)	4661	4416	4172	3947	3722	3548	3374	3163	2953	2750	2546	2372	2198
	Air flow (CFM)	6224	6052	5881	5729	5578	5384	5191	5005	4820	4598	4376	4187	3999
1.6	Fan speed (rpm)	1115	1102	1089	1077	1064	1051	1038	1026	1014	1001	988	976	/
	Power input (W)	4463	4220	3977	3752	3526	3351	3175	2961	2747	2531	2314	2151	/
	Air flow (CFM)	6021	5821	5621	5524	5426	5172	4918	4718	4517	4249	3980	3802	/
1.7	Fan speed (rpm)	1116	1103	1091	1078	1065	1052	1040	1027	1015	1002	/	/	/
	Power input (W)	4249	4004	3759	3536	3314	3132	2950	2733	2515	2313	/	/	/
	Air flow (CFM)	5750	5553	5357	5200	5042	4811	4579	4357	4135	3878	/	/	/
1.8	Fan speed (rpm)	1117	1105	1092	1079	1066	1054	1041	1029	1016	/	/	/	/
	Power input (W)	4035	3788	3541	3321	3101	2913	2725	2504	2283	/	/	/	/
	Air flow (CFM)	5478	5286	5093	4876	4658	4449	4240	3997	3753	/	/	/	/
1.9	Fan speed (rpm)	1119	1106	1093	1080	1067	1054	1042	/	/	/	/	/	/
	Power input (W)	3805	3559	3314	3091	2869	2671	2473	/	/	/	/	/	/
	Air flow (CFM)	5201	4996	4791	4559	4328	4078	3828	/	/	/	/	/	/
2.0	Fan speed (rpm)	1120	1107	1094	1081	1068	/	/	/	/	/	/	/	/
	Power input (W)	3574	3330	3086	2862	2637	/	/	/	/	/	/	/	/
	Air flow (CFM)	4924	4706	4488	4243	3998	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-150CWN1-Y(D) (4kw standard static pressure Motor. Fixed pulley: SPA300*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1857)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	Fan speed (rpm)	849	840	830	821	811	801	790	781	771	761	750	740	730
	Power input (W)	2104	2035	1966	1898	1830	1774	1719	1655	1591	1539	1487	1461	1435
	Air flow (CFM)	5966	5935	5904	5804	5703	5624	5544	5470	5395	5318	5240	5179	5117
0.1	Fan speed (rpm)	850	841	831	822	812	802	791	782	772	762	751	741	730
	Power input (W)	2030	1963	1896	1829	1762	1707	1653	1590	1526	1475	1424	1399	1374
	Air flow (CFM)	5786	5734	5683	5595	5508	5423	5339	5261	5182	5145	5107	4996	4885
0.2	Fan speed (rpm)	850	841	831	822	812	802	791	782	772	762	751	741	731
	Power input (W)	1957	1891	1825	1759	1694	1641	1587	1524	1462	1411	1361	1337	1313
	Air flow (CFM)	5606	5534	5461	5387	5312	5223	5134	5052	4969	4972	4974	4814	4653
0.3	Fan speed (rpm)	851	842	832	823	813	802	791	782	773	763	752	742	731
	Power input (W)	1879	1814	1749	1683	1617	1565	1513	1451	1388	1338	1288	1265	1243
	Air flow (CFM)	5400	5322	5245	5164	5083	4991	4899	4805	4712	4669	4627	4508	4390
0.4	Fan speed (rpm)	851	842	832	823	813	803	792	783	773	763	752	742	732
	Power input (W)	1802	1737	1672	1607	1541	1490	1439	1377	1314	1264	1215	1194	1173
	Air flow (CFM)	5194	5111	5028	4941	4853	4759	4664	4559	4454	4367	4279	4203	4127
0.5	Fan speed (rpm)	852	843	833	824	814	804	793	784	774	/	/	/	/
	Power input (W)	1714	1712	1710	1583	1456	1404	612	1291	1229	/	/	/	/
	Air flow (CFM)	4944	4863	4783	4682	4581	4476	4372	4265	4158	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-150CWN1-Y(D) (4kw standard static pressure motor. Fixed pulley: SPA300*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1857)
(continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0.6	Fan speed (rpm)	852	843	833	824	814	804	/	/	/	/	/	/	/
	Power input (W)	1625	1687	1748	1559	1371	1318	/	/	/	/	/	/	/
	Air flow (CFM)	4694	4616	4537	4423	4309	4194	/	/	/	/	/	/	/
0.7	Fan speed (rpm)	853	843	833	824	/	/	/	/	/	/	/	/	/
	Power input (W)	1526	1526	1526	1400	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	4414	4326	4238	4112	/	/	/	/	/	/	/	/	/
0.8	Fan speed (rpm)	854	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	1427	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	4134	/	/	/	/	/	/	/	/	/	/	/	/
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-150CWN1-Y(D) (optional 5.5kw high static pressure motor. Fixed Pulley: SPA212*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1707)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0.8	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	982	970	958
	Power input (W)	/	/	/	/	/	/	/	/	/	/	2902	2753	2604
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	6246	6067	5887
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	996	983	971	959
	Power input (W)	/	/	/	/	/	/	/	/	/	2937	2787	2640	2494
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	6176	6033	5851	5669
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	1022	1010	997	983	971	959
	Power input (W)	/	/	/	/	/	/	/	3131	2973	2822	2672	2528	2384
	Air flow (CFM)	/	/	/	/	/	/	/	6230	6118	5969	5820	5636	5451
1.1	Fan speed (rpm)	/	/	/	/	1061	1047	1034	1022	1011	997	984	972	960
	Power input (W)	/	/	/	/	3425	3293	3162	3003	2845	2696	2546	2402	2259
	Air flow (CFM)	/	/	/	/	6364	6250	6137	6016	5896	5732	5569	5382	5196
1.2	Fan speed (rpm)	/	/	/	/	1061	1048	1035	1023	1011	998	985	973	960
	Power input (W)	/	/	/	/	3300	3167	3034	2876	2718	2569	2420	2277	2134
	Air flow (CFM)	/	/	/	/	6172	6052	5931	5802	5673	5495	5317	5129	4940
1.3	Fan speed (rpm)	/	/	1087	1074	1062	1049	1036	1024	1012	999	986	973	961
	Power input (W)	/	/	3508	3335	3161	3028	2895	2736	2578	2430	2282	2139	1996
	Air flow (CFM)	/	/	6332	6141	5951	5824	5697	5548	5398	5221	5044	4851	4657
1.4	Fan speed (rpm)	/	/	1088	1075	1062	1049	1036	1024	1012	999	986	974	962
	Power input (W)	/	/	3370	3196	3023	2890	2757	2597	2438	2291	2144	2001	1859
	Air flow (CFM)	/	/	6141	5935	5729	5596	5463	5293	5123	4947	4771	4573	4374

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-150CWN1-Y(D) (optional 5.5kw high static pressure motor. Fixed pulley: SPA212*1*2012; Adjustable pulley: VAR139A1-1615; Belt: SAP1707) (continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
1.5	Fan speed (rpm)	1114	1101	1089	1076	1063	1050	1037	1025	1013	1000	987	975	/
	Power input (W)	3597	3408	3220	3046	2872	2738	2603	2441	2279	2122	1965	1830	/
	Air flow (CFM)	6224	6052	5881	5729	5578	5384	5191	5005	4820	4598	4376	4187	/
1.6	Fan speed (rpm)	1115	1102	1089	1077	1064	1051	1038	1026	1014	1001	/	/	/
	Power input (W)	3444	3257	3069	2895	2721	2586	2450	2285	2120	1953	/	/	/
	Air flow (CFM)	6021	5821	5621	5524	5426	5172	4918	4718	4517	4249	/	/	/
1.7	Fan speed (rpm)	1116	1103	1091	1078	1065	1052	1040	1027	1015	/	/	/	/
	Power input (W)	3279	3090	2901	2729	2557	2417	2277	2109	1941	/	/	/	/
	Air flow (CFM)	5750	5553	5357	5200	5042	4811	4579	4357	4135	/	/	/	/
1.8	Fan speed (rpm)	1117	1105	1092	1079	1066	1054	1041	/	/	/	/	/	/
	Power input (W)	3114	2923	2733	2563	2393	2248	2103	/	/	/	/	/	/
	Air flow (CFM)	5478	5286	5093	4876	4658	4449	4240	/	/	/	/	/	/
1.9	Fan speed (rpm)	1119	1106	1093	1080	1067	/	/	/	/	/	/	/	/
	Power input (W)	2936	2746	2557	2386	2214	/	/	/	/	/	/	/	/
	Air flow (CFM)	5201	4996	4791	4559	4328	/	/	/	/	/	/	/	/
2.0	Fan speed (rpm)	1120	1107	1094	1081	/	/	/	/	/	/	/	/	/
	Power input (W)	2758	2570	2381	2208	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	4924	4706	4488	4243	/	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-200CWN1-Y(D) (5.5kw Standard static pressure motor. Fixed pulley: SPA400*2*2517; Adjustable pulley: VAR139A2-1615; Belt: SPA2382)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	501
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2790
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	9859
0.1	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/	509	501
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/	2807	2595
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/	9651	9418
0.2	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	532	525	520	514	509	502
	Power input (W)	/	/	/	/	/	/	/	/	/	3173	3058	2940	2826	2610	2398
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	9492	9469	9441	9418	9193	8972
0.3	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	537	532	525	520	514	509
	Power input (W)	/	/	/	/	/	/	/	/	/	3246	3050	2858	2740	2626	2414
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	9480	9257	9040	9005	8975	8736
0.4	Fan speed (rpm)	/	/	/	/	/	555	548	543	537	533	526	521	515	509	502
	Power input (W)	/	/	/	/	/	3569	3395	3184	2976	2812	2654	2538	2424	2214	2011
	Air flow (CFM)	/	/	/	/	/	9552	9375	9183	8996	8796	8605	8564	8527	8273	8029
0.5	Fan speed (rpm)	/	/	572	566	560	555	548	543	538	533	526	521	515	509	503
	Power input (W)	/	/	3862	3786	3713	3536	3362	3159	2956	2700	2446	2313	2182	1987	1795
	Air flow (CFM)	/	/	9750	9687	9629	9468	9312	9124	8936	8522	8113	8040	7971	7714	7461
0.6	Fan speed (rpm)	/	/	572	566	560	555	549	543	538	533	526	521	515	509	503
	Power input (W)	/	/	3664	3671	3681	3504	3327	3134	2939	2587	2238	2088	1940	1759	1582
	Air flow (CFM)	/	/	9398	9458	9524	9384	9245	9066	8881	8249	7620	7516	7416	7154	6898

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-200CWN1-Y(D) (5.5kw Standard static pressure motor. Fixed pulley: SPA400*2*2517; Adjustable pulley: VAR139A2-1615; Belt: SPA2382)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0.7	Fan speed (rpm)	584	578	572	567	561	556	549	544	539	533	527	522	516	510	504
	Power input (W)	3881	3636	3389	3442	3497	3319	3145	2948	2751	2363	1978	1823	1671	1495	1321
	Air flow (CFM)	9368	9141	8909	9066	9228	9059	8896	8678	8459	7743	7031	6882	6737	6469	6206
0.8	Fan speed (rpm)	584	578	572	567	561	556	550	544	539	533	527	522	516	510	/
	Power input (W)	3650	3385	3117	3215	3316	3138	2960	2764	2565	2141	1720	1561	1405	1233	/
	Air flow (CFM)	8796	8691	8425	8678	8936	8739	8542	8294	8042	7241	6446	6252	6064	5789	/
0.9	Fan speed (rpm)	585	579	573	568	562	556	550	544	540	534	527	523	/	/	/
	Power input (W)	3349	3090	2828	2944	3062	2878	2697	2507	2311	1853	1401	1296	/	/	/
	Air flow (CFM)	8221	8833	8761	8589	8448	8232	8021	7765	7499	6568	5646	5619	/	/	/
1.0	Fan speed (rpm)	585	579	573	568	562	556	551	545	540	/	/	/	/	/	/
	Power input (W)	3051	2869	2685	2501	2319	2135	1950	1769	1585	/	/	/	/	/	/
	Air flow (CFM)	7651	7413	7169	6925	6686	6443	6199	5960	5716	/	/	/	/	/	/
1.1	Fan speed (rpm)	586	580	574	569	563	557	551	545	/	/	/	/	/	/	/
	Power input (W)	2842	2668	2494	2320	2148	1974	1803	1631	/	/	/	/	/	/	/
	Air flow (CFM)	7076	6870	6664	6457	6255	6048	5846	5644	/	/	/	/	/	/	/
1.2	Fan speed (rpm)	586	580	574	569	563	557	552	546	/	/	/	/	/	/	/
	Power input (W)	2290	2181	2073	1966	1862	1754	1647	1543	/	/	/	/	/	/	/
	Air flow (CFM)	6506	6386	6263	6141	6023	5900	5777	5659	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-200CWN1-Y(D) (optional 7.5kw high static pressure motor. Fixed pulley: SPA300*2*2517; Adjustable pulley: VAR139A2-1615; Belt: SPA2282)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0.8	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	693	686	678	670
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	6238	5915	5660	5405
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	12496	12161	11888	11614
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	701	693	686	678	670
	Power input (W)	/	/	/	/	/	/	/	/	/	/	6259	5940	5621	5365	5110
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	12330	12000	11670	11370	11069
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	/	717	709	701	694	687	679	671
	Power input (W)	/	/	/	/	/	/	/	/	6571	6264	5957	5642	5326	5071	4815
	Air flow (CFM)	/	/	/	/	/	/	/	/	12433	12131	11828	11504	11179	10852	10524
1.1	Fan speed (rpm)	/	/	/	/	/	/	732	724	717	709	702	694	687	679	671
	Power input (W)	/	/	/	/	/	/	6947	6591	6235	5936	5636	5311	4985	4724	4463
	Air flow (CFM)	/	/	/	/	/	/	12445	12177	11909	11597	11286	10911	10536	10188	9841
1.2	Fan speed (rpm)	/	/	/	/	/	740	732	724	718	710	702	695	688	680	672
	Power input (W)	/	/	/	/	/	6955	6612	6256	5899	5607	5315	4980	4644	4377	4110
	Air flow (CFM)	/	/	/	/	/	12325	11958	11671	11384	11064	10743	10318	9892	9525	9158
1.3	Fan speed (rpm)	/	/	763	755	747	740	733	725	718	710	703	695	688	680	672
	Power input (W)	/	/	7734	7333	6932	6582	6233	5883	5533	5225	4917	4584	4251	3927	3604
	Air flow (CFM)	/	/	12832	12491	12151	11774	11397	11076	10755	10378	10001	9555	9108	8568	8029
1.4	Fan speed (rpm)	/	/	763	755	747	741	733	725	719	711	703	696	689	681	673
	Power input (W)	/	/	7366	6967	6567	6210	5853	5510	5166	4843	4519	4188	3857	3478	3191
	Air flow (CFM)	/	/	12342	11976	11610	11223	10835	10480	10125	9692	9259	8792	8324	7612	7132

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-200CWN1-Y(D) (optional 7.5kw high static pressure motor. Fixed pulley: SPA300*2*2517; Adjustable pulley: VAR139A2-1615; Belt: SPA2282) (continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
1.5	Fan speed (rpm)	778	770	764	756	748	741	734	726	719	711	704	696	689	681	/
	Power input (W)	7793	7379	6965	6567	6169	5802	5436	5063	4691	4360	4030	3798	3566	3215	/
	Air flow (CFM)	12433	12105	11777	11387	10997	10561	10126	9694	9263	8759	8256	7968	7680	7023	/
1.6	Fan speed (rpm)	778	770	764	756	748	742	734	726	720	712	705	697	690	/	/
	Power input (W)	7397	6981	6564	6167	5770	5394	5018	4617	4216	3878	3584	3378	3172	/	/
	Air flow (CFM)	11874	11543	11211	10797	10383	9900	9417	8909	8400	7826	7376	7119	6862	/	/
1.7	Fan speed (rpm)	779	771	765	757	749	742	735	727	720	712	705	/	/	/	/
	Power input (W)	6951	6516	6081	5687	5293	5048	4803	4272	3741	3441	3180	/	/	/	/
	Air flow (CFM)	11266	10865	10465	10021	9578	9301	9024	8281	7538	7022	6619	/	/	/	/
1.8	Fan speed (rpm)	779	771	765	758	749	743	735	727	720	/	/	/	/	/	/
	Power input (W)	6504	6051	5597	5206	4815	4701	4587	3927	3439	/	/	/	/	/	/
	Air flow (CFM)	10658	10188	9718	9246	8773	8702	8630	7653	6966	/	/	/	/	/	/
1.9	Fan speed (rpm)	780	772	766	758	750	743	736	728	/	/	/	/	/	/	/
	Power input (W)	5872	5459	5045	4726	4438	4355	4372	3742	/	/	/	/	/	/	/
	Air flow (CFM)	9693	9226	8760	8470	8170	8102	8237	7304	/	/	/	/	/	/	/
2.0	Fan speed (rpm)	780	772	766	759	751	744	737	729	/	/	/	/	/	/	/
	Power input (W)	5240	4867	4493	4245	3987	3912	3927	3362	/	/	/	/	/	/	/
	Air flow (CFM)	8728	8265	7801	7694	7422	7360	7482	6635	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-250CWN1-Y(D) (5kw Standard static pressure motor. Fixed pulley: SPA355*2*2517; Adjustable pulley: VAR139A1-1615; Belt: SPA2382)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	565
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	4453
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	12517
0.1	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	/	/	573	565
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	/	/	4494	4259
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	/	/	12346	12076
0.2	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	599	592	586	579	573	566
	Power input (W)	/	/	/	/	/	/	/	/	/	4937	4801	4666	4530	4297	4064
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	12310	12254	12198	12142	11889	11635
0.3	Fan speed (rpm)	/	/	/	/	/	/	/	/	605	599	592	586	579	573	566
	Power input (W)	/	/	/	/	/	/	/	/	5027	4814	4601	4466	4331	4101	3871
	Air flow (CFM)	/	/	/	/	/	/	/	/	12326	12075	11825	11762	11699	11431	11164
0.4	Fan speed (rpm)	/	/	/	/	/	625	618	612	605	600	593	587	580	574	566
	Power input (W)	/	/	/	/	/	5409	5214	4986	4757	4579	4400	4266	4131	3904	3677
	Air flow (CFM)	/	/	/	/	/	12492	12282	12062	11842	11619	11395	11325	11255	10974	10692
0.5	Fan speed (rpm)	/	/	644	638	631	625	618	612	606	600	593	587	580	574	567
	Power input (W)	/	/	5758	5664	5571	5376	5182	4961	4740	4466	4192	4041	3889	3677	3464
	Air flow (CFM)	/	/	12780	12688	12597	12408	12220	12003	11787	11345	10903	10801	10700	10414	10129
0.6	Fan speed (rpm)	/	/	644	638	631	625	619	612	606	600	593	587	580	574	567
	Power input (W)	/	/	5560	5550	5539	5344	5149	4936	4723	4354	3984	3816	3647	3449	3251
	Air flow (CFM)	/	/	12427	12460	12492	12325	12157	11945	11732	11071	10410	10277	10144	9855	9565

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-250CWN1-Y(D) (5kw Standard static pressure motor. Fixed pulley: SPA355*2*2517; Adjustable pulley: VAR139A1-1615; Belt: SPA2382)**(continued)**

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0.7	Fan speed (rpm)	658	651	645	639	632	626	619	613	607	601	594	588	581	575	568
	Power input (W)	5818	5553	5288	5323	5358	5162	4967	4752	4538	4132	3727	3554	3381	3187	2994
	Air flow (CFM)	12463	12203	11943	12072	12201	12004	11808	11561	11315	10570	9825	9648	9471	9174	8878
0.8	Fan speed (rpm)	658	651	645	639	632	626	620	613	607	601	594	588	581	575	568
	Power input (W)	5587	5302	5016	5096	5176	4981	4785	4569	4352	3911	3469	3292	3115	2926	2736
	Air flow (CFM)	11891	11754	11459	11684	11909	11684	11459	11178	10897	10069	9240	9019	8797	8494	8191
0.9	Fan speed (rpm)	659	652	646	640	633	627	620	613	608	602	594	589	/	/	/
	Power input (W)	5289	5010	4730	4828	4925	4724	4523	4312	4101	3625	3150	3030	/	/	/
	Air flow (CFM)	11321	11900	11800	11600	11426	11182	10938	10649	10360	9400	8440	8389	/	/	/
1.0	Fan speed (rpm)	659	652	646	640	633	627	621	614	608	602	595	589	/	/	/
	Power input (W)	4991	4789	4587	4385	4183	3981	3779	3577	3375	3173	2971	2769	/	/	/
	Air flow (CFM)	10751	10480	10208	9936	9664	9392	9120	8848	8576	8304	8032	7760	/	/	/
1.1	Fan speed (rpm)	660	653	647	641	634	628	621	614	609	603	/	/	/	/	/
	Power input (W)	4785	4591	4399	4207	4015	3823	3631	3439	3247	3055	/	/	/	/	/
	Air flow (CFM)	10181	9942	9707	9472	9237	9002	8767	8532	8297	8062	/	/	/	/	/
1.2	Fan speed (rpm)	660	653	647	641	634	628	622	615	609	/	/	/	/	/	/
	Power input (W)	4233	4103	3978	3853	3728	3603	3478	3353	3228	/	/	/	/	/	/
	Air flow (CFM)	9611	9458	9307	9156	9005	8854	8703	8552	8401	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-250CWN1-Y(D) (optional 7.5kw high static pressure motor. Fixed pulley: SPA300*2*2517; Adjustable pulley: VAR139A1-1615; Belt: SPA2307)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0.8	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	693	686	678	670
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	6238	5915	5660	5405
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	12496	12161	11888	11614
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	701	693	686	678	670
	Power input (W)	/	/	/	/	/	/	/	/	/	/	6259	5940	5621	5365	5110
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	12330	12000	11670	11370	11069
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	/	717	709	701	694	687	679	671
	Power input (W)	/	/	/	/	/	/	/	/	6571	6264	5957	5642	5326	5071	4815
	Air flow (CFM)	/	/	/	/	/	/	/	/	12433	12131	11828	11504	11179	10852	10524
1.1	Fan speed (rpm)	/	/	/	/	/	/	732	724	717	709	702	694	687	679	671
	Power input (W)	/	/	/	/	/	/	6947	6591	6235	5936	5636	5311	4985	4724	4463
	Air flow (CFM)	/	/	/	/	/	/	12445	12177	11909	11597	11286	10911	10536	10188	9841
1.2	Fan speed (rpm)	/	/	/	/	/	740	732	724	718	710	702	695	688	680	672
	Power input (W)	/	/	/	/	/	6955	6612	6256	5899	5607	5315	4980	4644	4377	4110
	Air flow (CFM)	/	/	/	/	/	12325	11958	11671	11384	11064	10743	10318	9892	9525	9158
1.3	Fan speed (rpm)	/	/	763	755	747	740	733	725	718	710	703	695	688	680	672
	Power input (W)	/	/	7734	7333	6932	6582	6233	5883	5533	5225	4917	4584	4251	3927	3604
	Air flow (CFM)	/	/	12832	12491	12151	11774	11397	11076	10755	10378	10001	9555	9108	8568	8029
1.4	Fan speed (rpm)	/	/	763	755	747	741	733	725	719	711	703	696	689	681	/
	Power input (W)	/	/	7366	6967	6567	6210	5853	5510	5166	4843	4519	4188	3857	3478	/
	Air flow (CFM)	/	/	12342	11976	11610	11223	10835	10480	10125	9692	9259	8792	8324	7612	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-250CWN1-Y(D) (optional 7.5kw high static pressure motor. Fixed pulley: SPA300*2*2517; Adjustable pulley: VAR139A1-1615; Belt: SPA2307) (continued)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
1.5	Fan speed (rpm)	778	770	764	756	748	741	734	726	719	711	704	696	689	/	/
	Power input (W)	7793	7379	6965	6567	6169	5802	5436	5063	4691	4360	4030	3798	3566	/	/
	Air flow (CFM)	12433	12105	11777	11387	10997	10561	10126	9694	9263	8759	8256	7968	7680	/	/
1.6	Fan speed (rpm)	778	770	764	756	748	742	734	726	720	712	/	/	/	/	/
	Power input (W)	7397	6981	6564	6167	5770	5394	5018	4617	4216	3878	/	/	/	/	/
	Air flow (CFM)	11874	11543	11211	10797	10383	9900	9417	8909	8400	7826	/	/	/	/	/
1.7	Fan speed (rpm)	779	771	765	757	749	742	735	727	720	/	/	/	/	/	/
	Power input (W)	6951	6516	6081	5687	5293	5048	4803	4272	3741	/	/	/	/	/	/
	Air flow (CFM)	11266	10865	10465	10021	9578	9301	9024	8281	7538	/	/	/	/	/	/
1.8	Fan speed (rpm)	779	771	765	758	749	743	735	727	/	/	/	/	/	/	/
	Power input (W)	6504	6051	5597	5206	4815	4701	4587	3927	/	/	/	/	/	/	/
	Air flow (CFM)	10658	10188	9718	9246	8773	8702	8630	7653	/	/	/	/	/	/	/
1.9	Fan speed (rpm)	780	772	766	758	750	743	736	/	/	/	/	/	/	/	/
	Power input (W)	5872	5459	5045	4726	4438	4355	4372	/	/	/	/	/	/	/	/
	Air flow (CFM)	9693	9226	8760	8470	8170	8102	8237	/	/	/	/	/	/	/	/
2.0	Fan speed (rpm)	780	772	766	759	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	5240	4867	4493	4245	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	8728	8265	7801	7694	/	/	/	/	/	/	/	/	/	/	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-300CWN1-Y(DH) (7.5kw High static pressure Motor. Fixed Pulley: SPA300*2*2517; Adjustable pulley: VAR139A2-1615; Belt: SPA2282)

ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
0.8	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	/	693	686	678	670
	Power input (W)	/	/	/	/	/	/	/	/	/	/	/	6238	5915	5660	5405
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	/	12496	12161	11888	11614
0.9	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	701	693	686	678	670
	Power input (W)	/	/	/	/	/	/	/	/	/	/	6259	5940	5621	5365	5110
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	12330	12000	11670	11370	11069
1.0	Fan speed (rpm)	/	/	/	/	/	/	/	/	717	709	701	694	687	679	671
	Power input (W)	/	/	/	/	/	/	/	/	6571	6264	5957	5642	5326	5071	4815
	Air flow (CFM)	/	/	/	/	/	/	/	/	12433	12131	11828	11504	11179	10852	10524
1.1	Fan speed (rpm)	/	/	/	/	/	/	732	724	717	709	702	694	687	679	671
	Power input (W)	/	/	/	/	/	/	6947	6591	6235	5936	5636	5311	4985	4724	4463
	Air flow (CFM)	/	/	/	/	/	/	12445	12177	11909	11597	11286	10911	10536	10188	9841
1.2	Fan speed (rpm)	/	/	/	/	/	740	732	724	718	710	702	695	688	680	672
	Power input (W)	/	/	/	/	/	6955	6612	6256	5899	5607	5315	4980	4644	4377	4110
	Air flow (CFM)	/	/	/	/	/	12325	11958	11671	11384	11064	10743	10318	9892	9525	9158
1.3	Fan speed (rpm)	/	/	763	755	747	740	733	725	718	710	703	695	688	680	/
	Power input (W)	/	/	7734	7333	6932	6582	6233	5883	5533	5225	4917	4584	4251	3927	/
	Air flow (CFM)	/	/	12832	12491	12151	11774	11397	11076	10755	10378	10001	9555	9108	8568	/

Notes:

1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

MRCT-300CWN1-Y(DH) (7.5kw High static pressure Motor. Fixed Pulley: SPA300*2*2517; Adjustable pulley: VAR139A2-1615; Belt: SPA2282)
(continued)

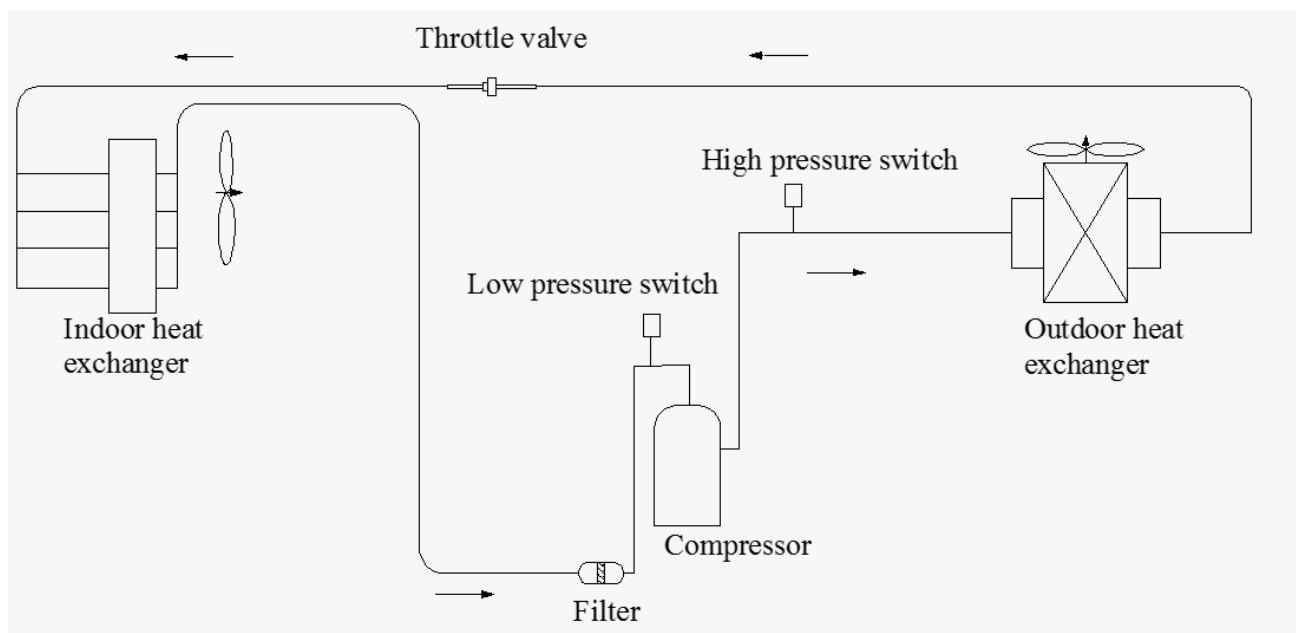
ESP (in.w.g)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
1.4	Fan speed (rpm)	/	/	763	755	747	741	733	725	719	711	703	696	/	/	/
	Power input (W)	/	/	7366	6967	6567	6210	5853	5510	5166	4843	4519	4188	/	/	/
	Air flow (CFM)	/	/	12342	11976	11610	11223	10835	10480	10125	9692	9259	8792	/	/	/
1.5	Fan speed (rpm)	778	770	764	756	748	741	734	726	719	711	/	/	/	/	/
	Power input (W)	7793	7379	6965	6567	6169	5802	5436	5063	4691	4360	/	/	/	/	/
	Air flow (CFM)	12433	12105	11777	11387	10997	10561	10126	9694	9263	8759	/	/	/	/	/
1.6	Fan speed (rpm)	778	770	764	756	748	742	734	726	/	/	/	/	/	/	/
	Power input (W)	7397	6981	6564	6167	5770	5394	5018	4617	/	/	/	/	/	/	/
	Air flow (CFM)	11874	11543	11211	10797	10383	9900	9417	8909	/	/	/	/	/	/	/
1.7	Fan speed (rpm)	779	771	765	757	749	742	735	/	/	/	/	/	/	/	/
	Power input (W)	6951	6516	6081	5687	5293	5048	4803	/	/	/	/	/	/	/	/
	Air flow (CFM)	11266	10865	10465	10021	9578	9301	9024	/	/	/	/	/	/	/	/
1.8	Fan speed (rpm)	779	771	765	758	749	/	/	/	/	/	/	/	/	/	/
	Power input (W)	6504	6051	5597	5206	4815	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	10658	10188	9718	9246	8773	/	/	/	/	/	/	/	/	/	/
1.9	Fan speed (rpm)	780	772	766	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	5872	5459	5045	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	9693	9226	8760	/	/	/	/	/	/	/	/	/	/	/	/

Notes:

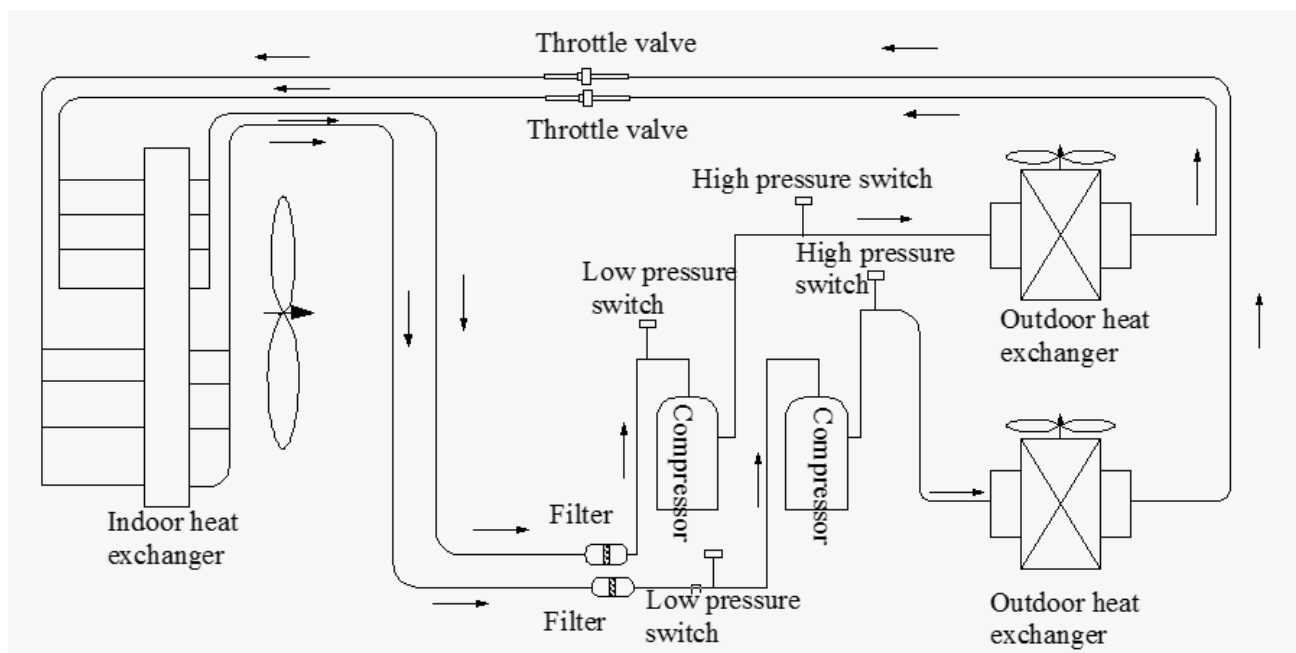
1. ESP: External Static Pressure (inches of water, 1 in.w.g=249Pa)
2. Legend: X – Regulation space of motor pulley (mm); N: Number of turns;
3. Pulley pitch factory set point: The table, No. of turns (N) = 5;
4. Bold data is the performance testing set point;
5. Shading data are rated airflow.

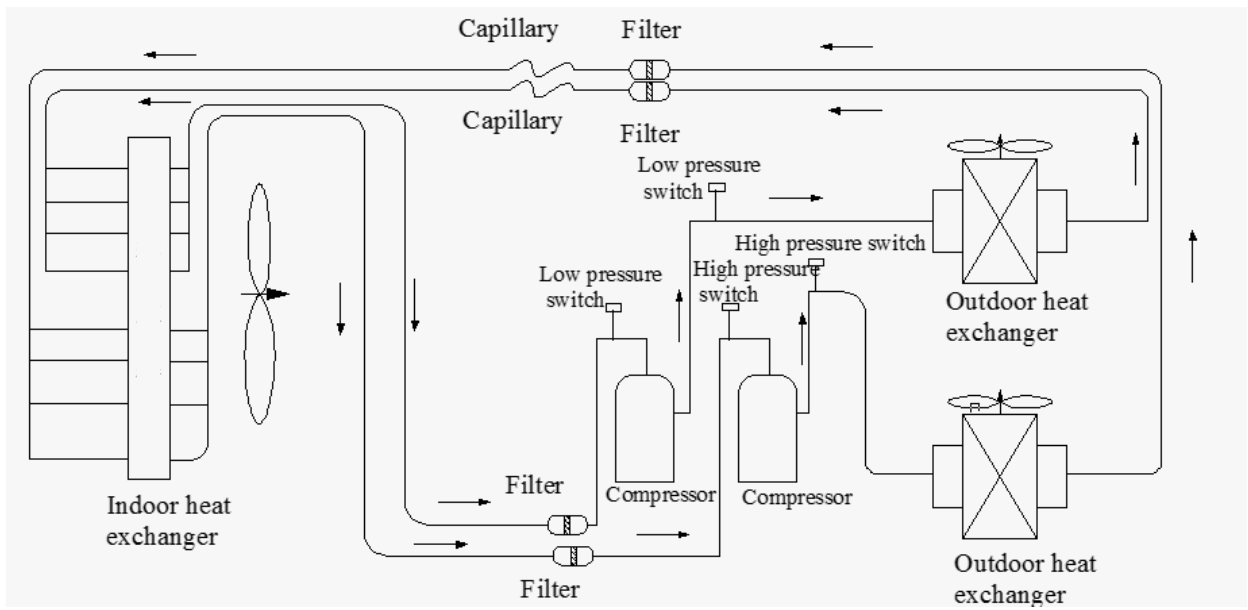
8. Refrigerant Cycle Diagram

MRCT-050CWN1-M, MRCT-062CWN1-Y(D), MRCT-075CWN1-Y(D):

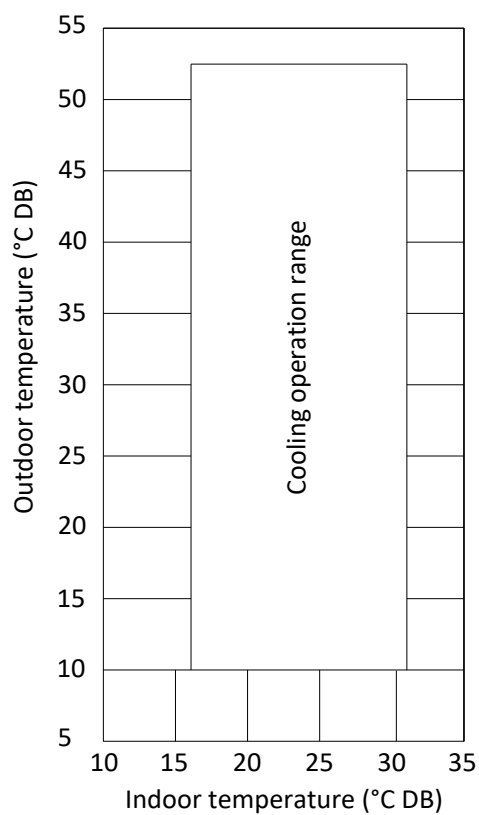


MRCT-100CWN1-Y(D), MRCT-125CWN1-Y(D), MRCT-150CWN1-Y(D):



MRCT-200CWN1-Y(D), MRCT-250CWN1-Y(D), MRCT-300CWN1-Y(DH):

9. Operation Limits

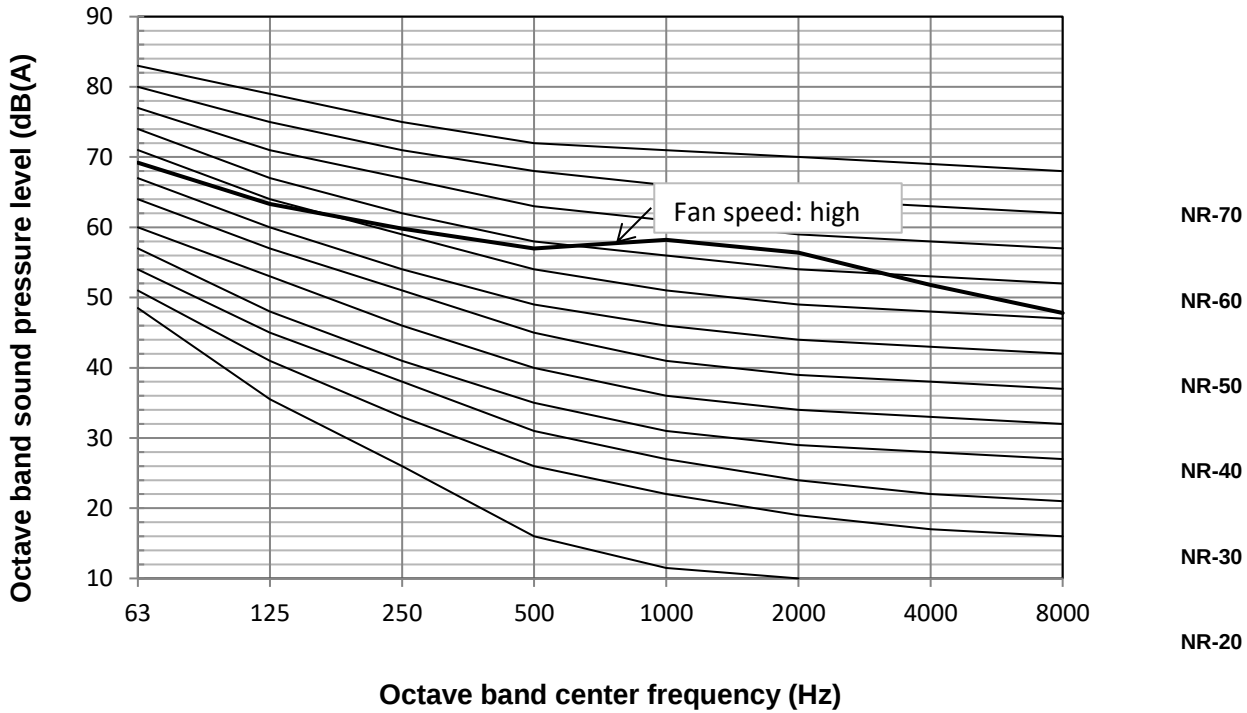


	Outdoor temperature	Indoor temperature
Cooling only mode	50°F – 125.6°F (10°C - 52°C)	62°F – 88°F (17°C - 31°C)

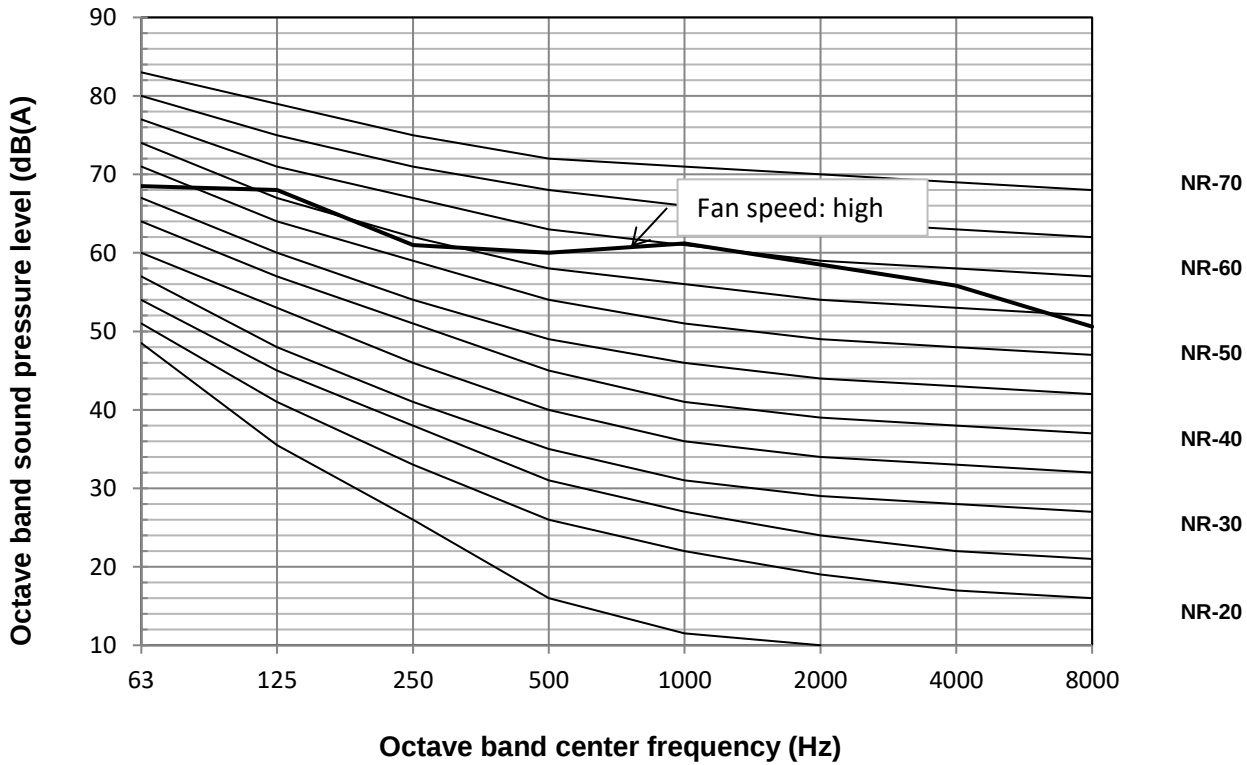
Room relative humidity should be less than 80%. If the unit operates in excess, the surface of the unit may attract condensation.

10. Noise Criteria (NC) Curves

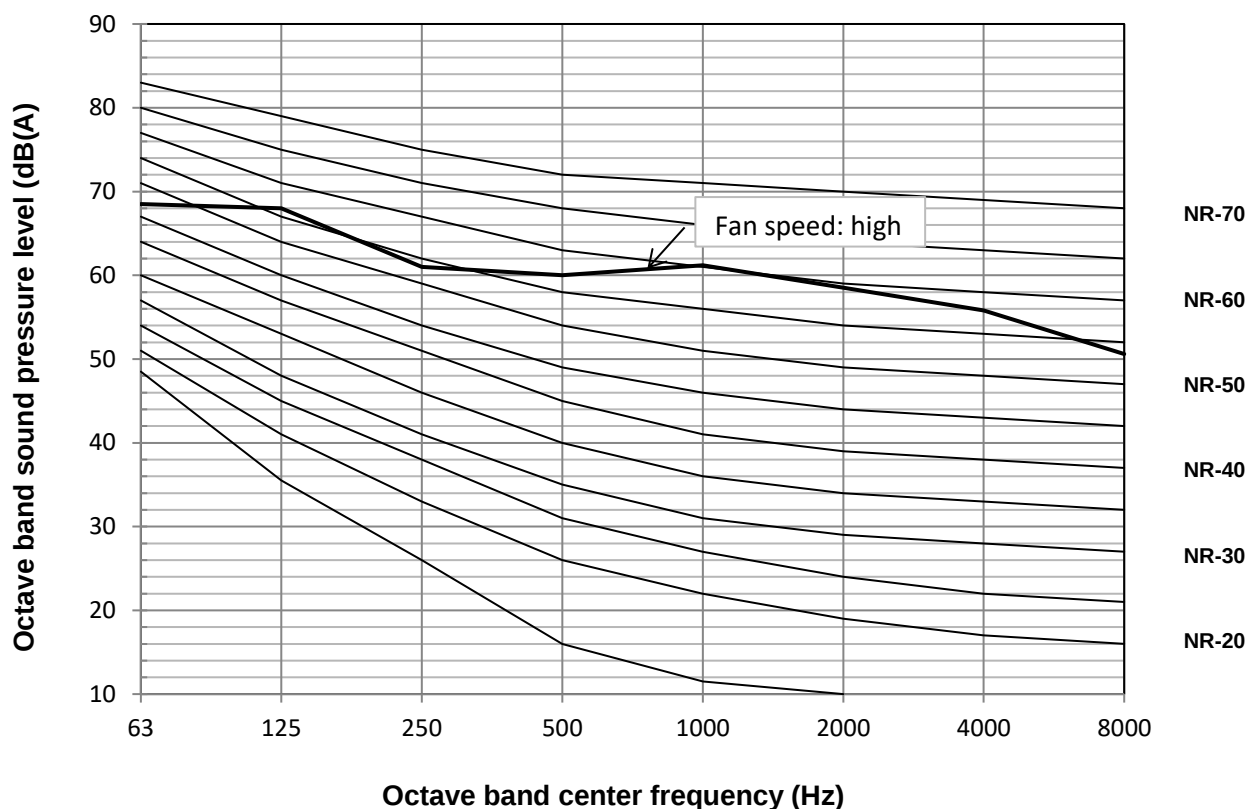
MRCT-050CWN1-M octave band levels



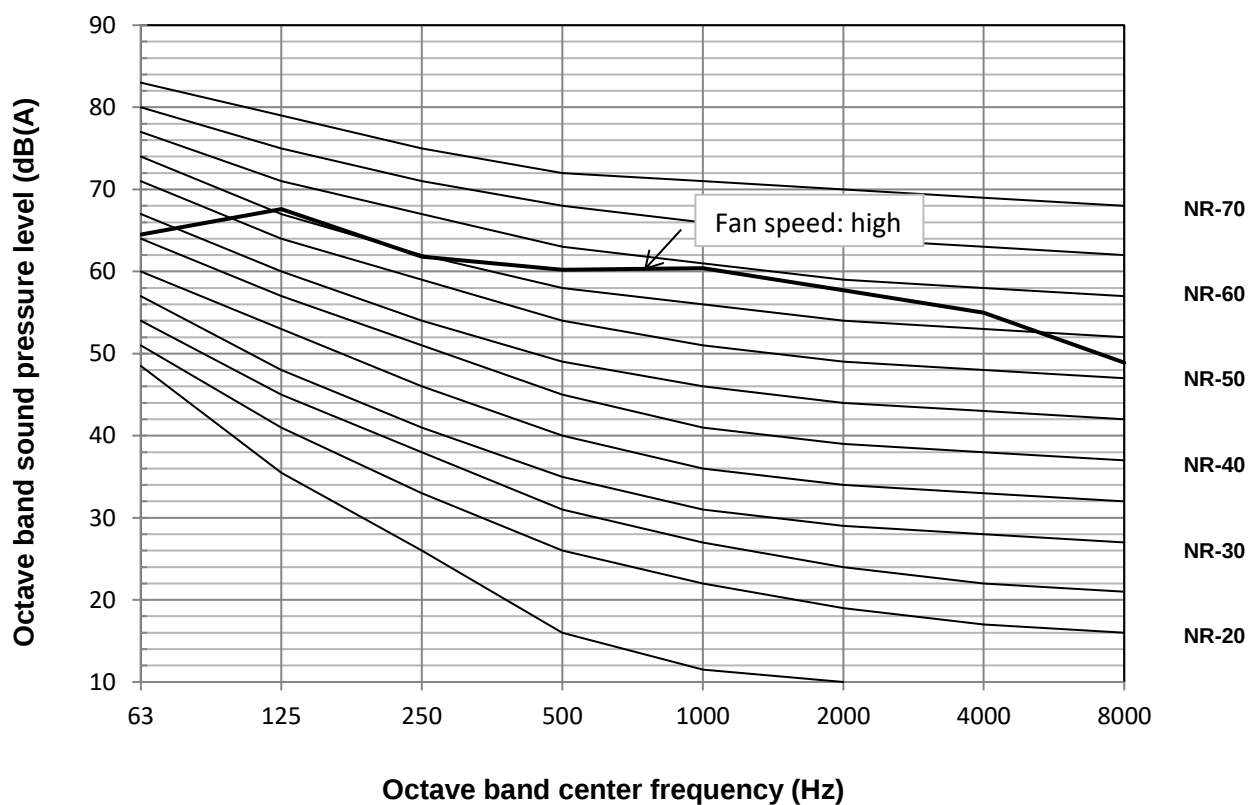
MRCT-062CWN1-Y(D) octave band levels

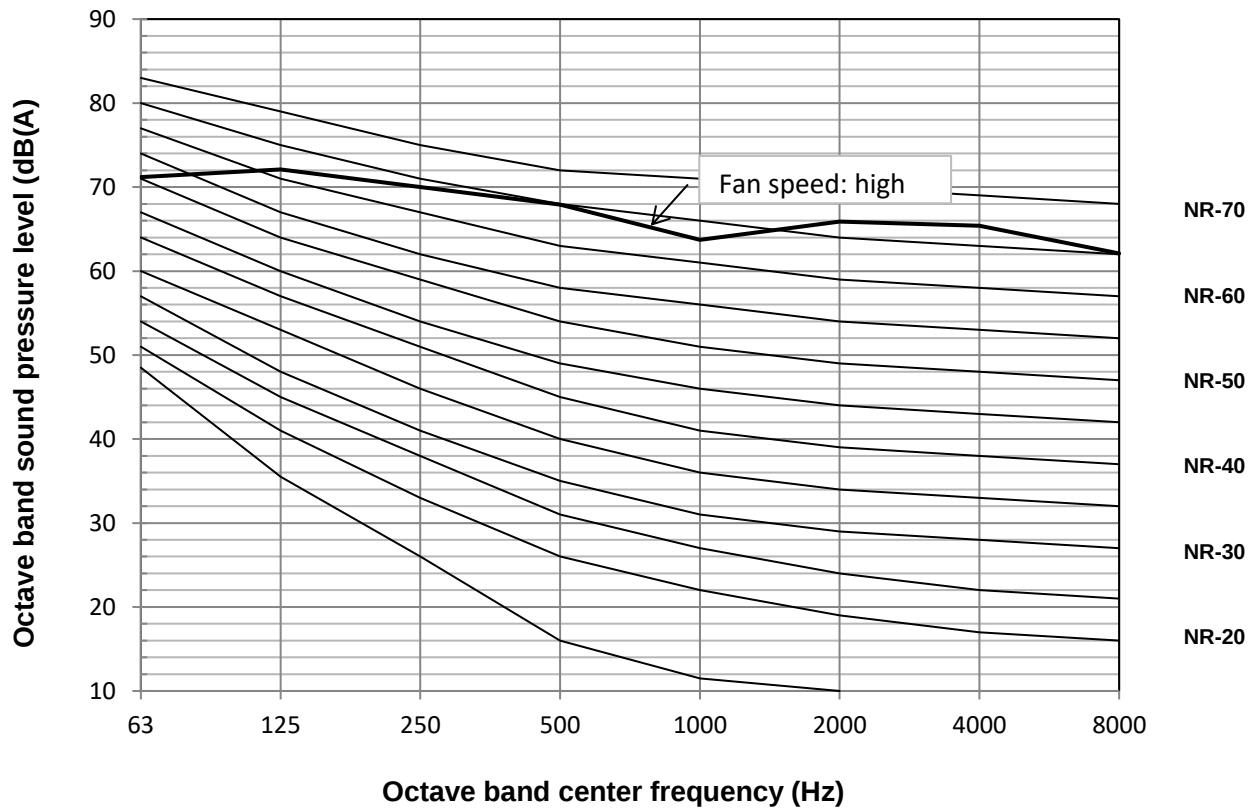
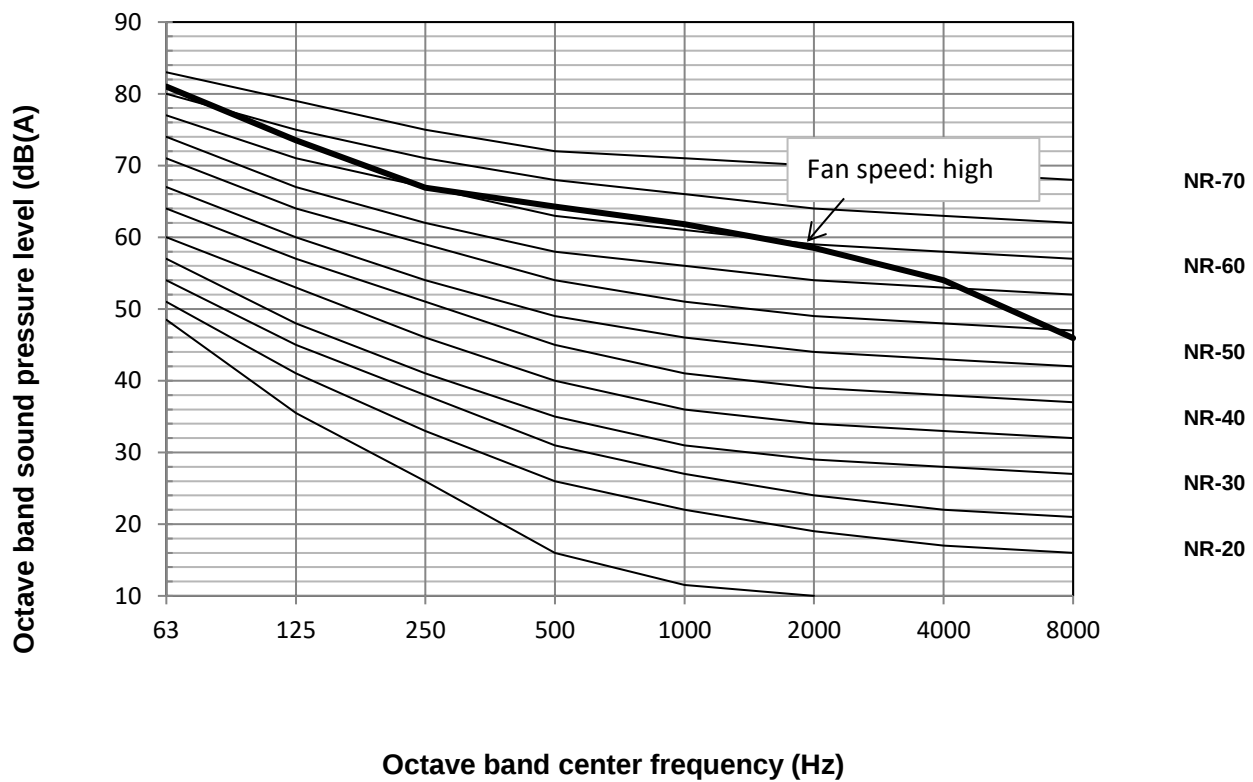


MRCT-075CWN1-Y(D) octave band levels

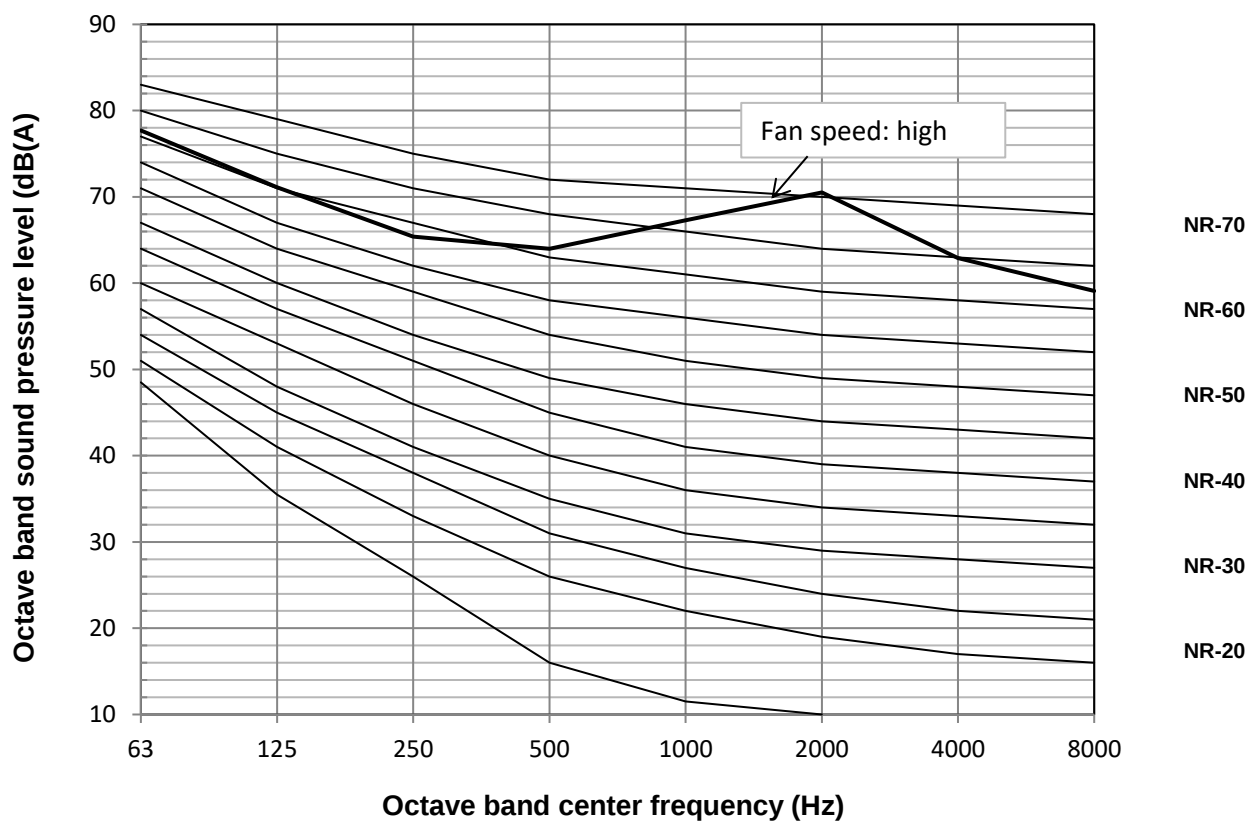


MRCT-100CWN1-Y(D) octave band levels

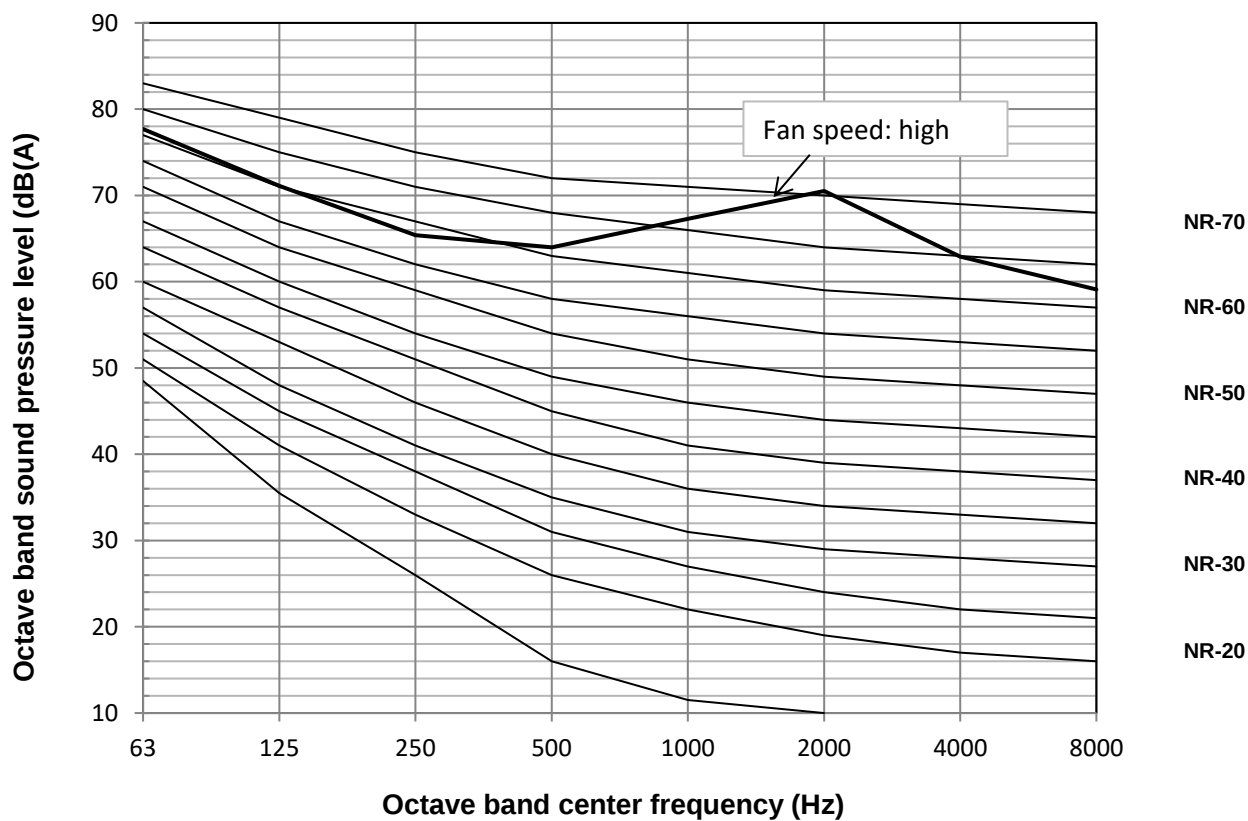


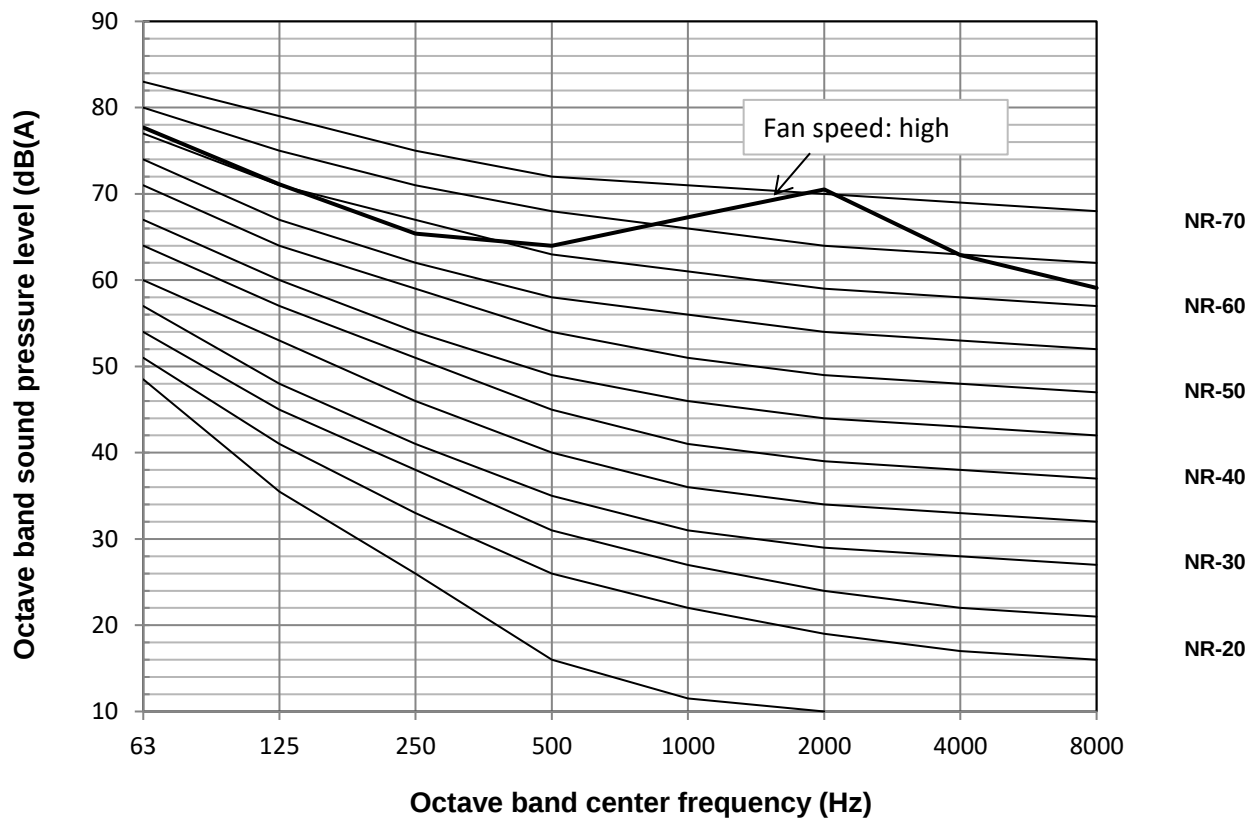
MRCT-125CWN1-Y(D) octave band levels**MRCT-150CWN1-Y(D) octave band levels**

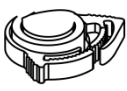
MRCT-200CWN1-Y(D) octave band levels



MRCT-250CWN1-Y(D) octave band levels



MRCT-300CWN1-Y(DH) octave band levels**11. Accessories**

Item	Quantity	Shape
User manual	1	-----
Drain outlet	1	
Snap ring	1	
Drain pipe	1	
Wired controller	1	
Wiring rubber ring (only for 5ton)	2	

Part. 3 Installations

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1. General Information

Warning and cautions appear at appropriate locations throughout this manual. Read these carefully, please.

Caution:

- ✧ Read this entire manual before beginning installation procedures.
- ✧ Body injury can result from high voltage electrical components, fast moving fans. For protection from these inherent hazards during installation and servicing, the electrical supply must be disconnected.
- ✧ If operating checks must be performed with the unit operating, it is the technicians responsibility to recognize these hazards and proceed safely.

Warning:

- ✧ Never replace a fuse with that of wrong rated current or other wires when a fuse blows out. Use of wire or copper wire may cause the unit to break down or cause a fire.
- ✧ Do not insert fingers, rods or other objects into the air inlet or outlet. When the fan is rotating at high speed, it will cause injury.
- ✧ Never use a flammable spray such as hair spray, lacquer or paint near the unit. It may cause a fire.
- ✧ Keep far away from high-frequency equipment. Also, keep away from the following places:
A place where it is full of oil, gas; Places where salty air surrounding (near the coast); A place where is caustic gas (the sulfide in hot spring); Location in above places may cause malfunction or shorten the life span of the machine.
- ✧ In the case of extremely strong wind, please prevent the air from flowing backwards into the outside.
- ✧ Snow canopy is necessary in snowfall places on the outside.
- ✧ In the frequent thunderstruck place, lighting proof action should be taken.
- ✧ The refrigerant in the air conditioner is safe and normally does not leak.
- ✧ The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- ✧ The appliance should not be used by children without supervision.

2. Recommendations

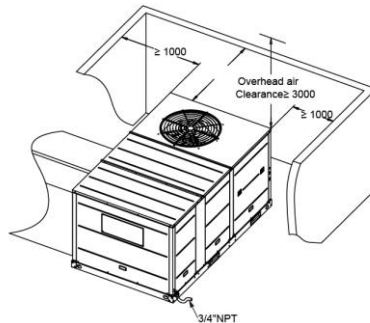
2.1 Horizontal airflow application

- ✧ These units are designed and certified for outdoor installation. These units may be installed directly on wood flooring or on Class A, Class B and Class C roof covering material.
- ✧ Location of the unit must allow service clearance around it. Clearance of the unit must be given careful consideration.
- ✧ Check the handling facilities to ensure the safety of personnel and the units.
- ✧ Caution must be taken at all times to avoid personal injuries and damage to equipment.
- ✧ Unit must be mounted level for proper drainage of water through the holes in the base pan.
- ✧ Unit must not be exposed to direct roof water run-off.
- ✧ Flexible duct connectors must be of a flame retardant material. All duct work outside of the structure must be insulated and weatherproofed in accordance with local codes.
- ✧ Holes through exterior walls must be sealed in accordance with local codes.
- ✧ All fabricated outdoor ducts should be as short as possible.
- ✧ Need to check the air filter and tension of belt every 2 or 3 months according the installation manual.
- ✧ Have to install the non-return valve of each supply branch duct when two or more supply ducts are combined into one supply duct.
- ✧ Have to checked the ESP for adequacy before installation.
- ✧ Please use Midea standard controller for control. When the LED light of the wiring controller flashes rapidly, it means there is a fault in the unit. Open the panel of the unit, confirm the fault alarm code, and deal with it in time. If the unit is not used for a short period of time, it is recommended not to power off the unit. If direct power off is needed, please conduct a spot check on the unit before power off and check whether there is a fault code prompt.
- ✧ The return air should be cushioned near the evaporator, otherwise the sheet metal of the air pipe is directly pressed on the surface of the evaporator, which will seriously affects the heat transfer of the evaporator.

2.2 Clearances

- ✧ The recommended clearances for single-unit installations reference to the following figure.

These requirements are not only an important consideration when determining unit placement, but they are also essential to ensure adequate serviceability, maximum capacity, and peak operating efficiency.

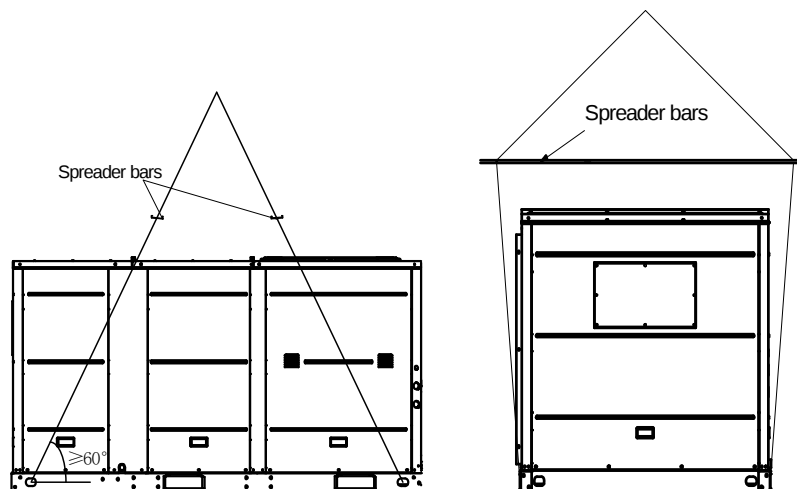


(Unit: mm)

- ✧ Any reduction of the unit clearances indicated in these pictures may result in condenser coil starvation or the recirculation of warm condenser air. Actual clearances which appear to be inadequate should be reviewed.

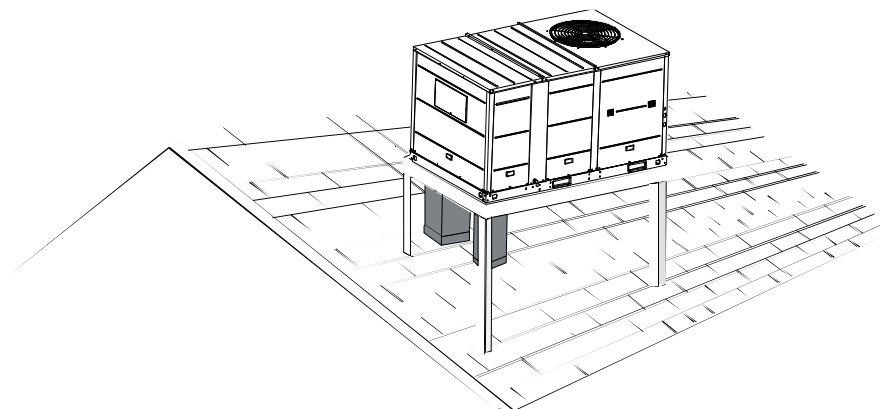
3. Lifting

- ✧ Rigging cables should have adequate capability to resist 3 times weight of unit. Before lift, please check and ensure that hooks are holding tightly to unit and lifting angles are no less than 60°.
- ✧ Cloth material or hard-paper should be padded in the contact place between unit and rigging cable. Rigging cable should be entwined a round at the hook for prevent danger by cable slip because of weight unbalance.
- ✧ During lifting, anyone forbidden lingering under the lifting unit.



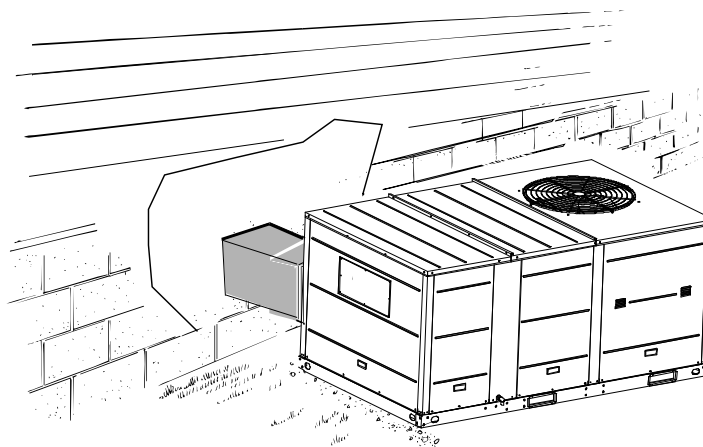
4. Installation

4.1 For roof top applications using a field fabricated frame and ducts:



- ✧ The frame must be located and secured by bolting or welding to the roof. Flashing is required.
- ✧ The hole in the roof must be prepared in advance of installing the unit.
- ✧ Secure the ducts to the roof.
- ✧ Place the unit to the frame or roof curb.
- ✧ Insulate any ductwork outside of the structure with at least 2 inches of insulation and then weatherproof. There must be a weatherproof seal where the duct enters the structure.
- ✧ Complete the installation according to the instructions.
- ✧ Typical rooftop application with frame.

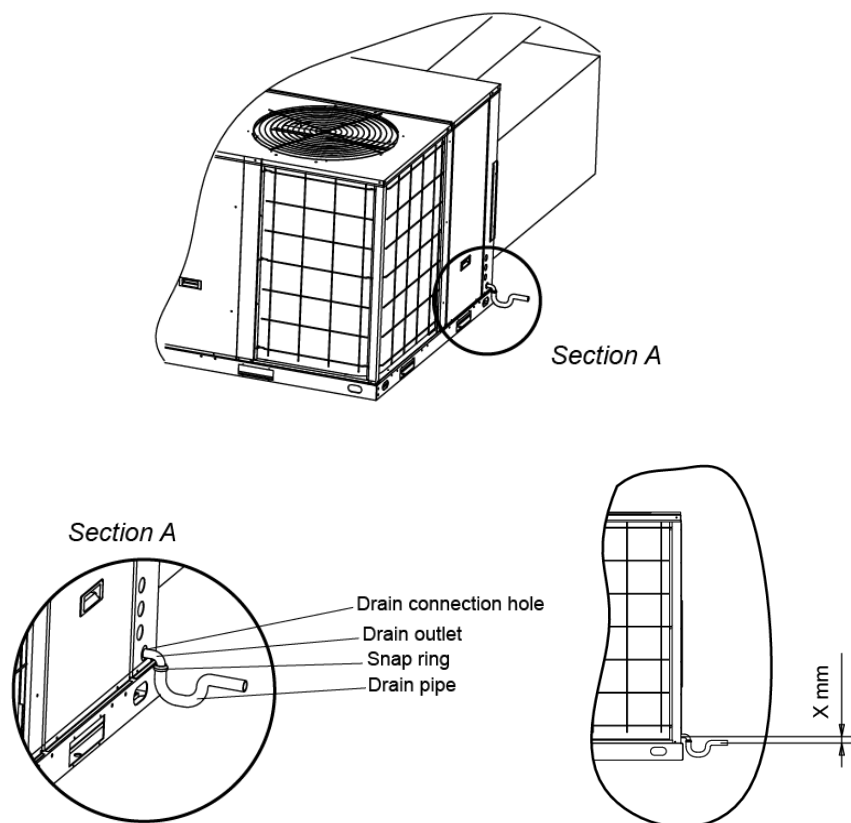
4.2 For ground level installations:



- ✧ The unit should be positioned on a pad in the size of the unit or larger. The unit must be level on the pad. The pad must not come in contact with the structure. Be sure the outdoor portion of the supply and return air ducts are as short as possible.

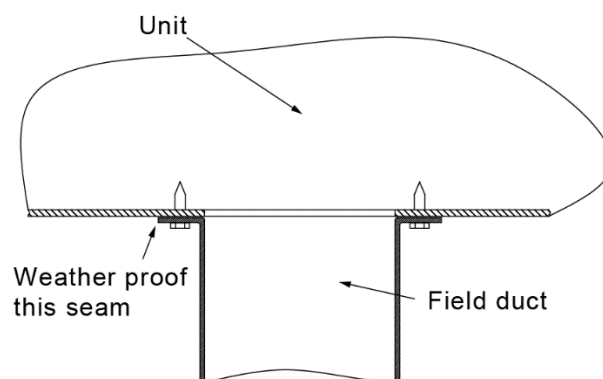
- ✧ Place the unit on the pad.
- ✧ Attach the supply and return air ducts to the unit.
- ✧ Insulate any ductwork outside of the structure with at least 2 inches of insulation and weatherproof. There must be a weatherproof seal where the duct enters the structure.
- ✧ Complete the installation.

5. Condensate Drainage



Model	X value (mm)	Model	X value (mm)
MRCT-050CWN1-M	$20 \leq X \leq 40$	MRCT-150CWN1-Y(D)	$20 \leq X \leq 40$
MRCT-062CWN1-Y(D)	$20 \leq X \leq 40$	MRCT-200CWN1-Y(D)	$20 \leq X \leq 40$
MRCT-075CWN1-Y(D)	$20 \leq X \leq 40$	MRCT-250CWN1-Y(D)	$20 \leq X \leq 40$
MRCT-100CWN1-Y(D)	$20 \leq X \leq 40$	MRCT-300CWN1-Y(DH)	$20 \leq X \leq 40$
MRCT-125CWN1-Y(D)	$20 \leq X \leq 40$		

6. Duct Work



- ✧ All conditioned air ductwork should be insulated to minimize heating and cooling duct losses. Use a minimum of 2 inches of insulation with a vapor barrier. The outside ductwork must be weatherproofed between the unit and the building.
- ✧ When attaching ductwork to a horizontal unit, provide a flexible watertight connection to prevent noise transmission from the unit to the ducts. The flexible connection must be indoors and made out of heavy canvas.
- ✧ Do not draw the canvas taut between the solid ducts.
- ✧ At least 1m flame resistant layer must be laid at the end of air duct internal surface.
- ✧ Have to install the non-return valve of each supply branch duct when two or more supply ducts are combined into one supply duct.
- ✧ The return air should be cushioned near the evaporator, otherwise the sheet metal of the air pipe is directly pressed on the surface of the evaporator, which will seriously affects the heat transfer of the evaporator.
- ✧ Incorrect installation of drain pipe and trap, probably let dust enter and make the evaporator too dirty, cause the insufficient air volume.
- ✧ Please use Midea standard controller for control. When the LED light of the wiring controller flashes rapidly, it means there is a fault in the unit. Open the panel of the unit, confirm the fault alarm code, and deal with it in time. If the unit is not used for a short period of time, it is recommended not to power off the unit. If direct power off is needed, please conduct a spot check on the unit before power off and check whether there is a fault code prompt.

7. Fresh Air Panel

- ✧ Fresh air panel is functioned as an easy economizer. It saves energy, money and improves comfort levels in the conditioned space. It brings in fresh, outside air for ventilation; and provides cool outside air to cool your building.
- ✧ Remove the fresh air panel and connect the hole with a duct if you want to bring in fresh air from the outside. The maximum volume percentage of fresh air can reach 20%.
- ✧ For different outdoor air quality, suitable filters installed on the fresh air duct should be chose by customer requirements.
- ✧ Protection switch of the unit may be triggered when opening the fresh air panel under high temperature condition.
- ✧ Condensation may be caused in the air duct or/and the electrical control box when opening the fresh air panel under high humidity circumstances.

8. Electrical Wiring

10.1 Warning

- ✧ An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- ✧ The appliance shall be installed in accordance with national wiring regulations.
- ✧ An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- ✧ The appliance shall be installed in accordance with national wiring regulations.

10.2 Wiring provision

- ✧ The units are internally wired at the factory according to generally accepted electrical technology.
- ✧ Main power wiring to the unit control wiring between the control center and the unit, and earth wiring are required in the field.
- ✧ The following components are required: main power fuses; conduit coupling.

- ✧ Wire and fuse sizes should be selected in accordance with national and standard, taking the designed maximum current shall be the total of the compressor maximum current, condenser fan motor current and evaporator fan motor current.
- ✧ The wire size between the wired controller and the unit should be determined according to the following table, because the 24V power source is applied to the control circuit.

Wiring length between wired controller and unit (One way)					
Min. wire size (mm ²)	10m	15m	20m	30m	40m
	0.5	0.5	0.75	0.75	1.0

- ✧ Main power supply parameters:

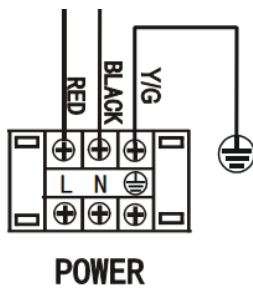
Model	Main power	Main power switch	Fuse
MRCT-050CWN1-M	220-240V 1Ph~ 60Hz	50A	50A
MRCT-062CWN1-Y(D)	380-415V 3Ph~ 60Hz	30A	30A
MRCT-075CWN1-Y(D)		40A	40A
MRCT-100CWN1-Y(D)		60A	60A
MRCT-125CWN1-Y(D)		70A	70A
MRCT-150CWN1-Y(D)		70A	70A
MRCT-200CWN1-Y(D)		90A	90A
MRCT-250CWN1-Y(D)		90A	90A
MRCT-300CWN1-Y(DH)		90A	90A

Model	Wires for power supply	Type of wires
MRCT-050CWN1-M	2×13mm ² + 1×8mm ²	2 × UL1015 6AWG 1 × UL1015 8AWG
MRCT-062CWN1-Y(D)	4×5mm ² + 1×3mm ²	4 × UL1015 10AWG 1 × UL1015 12AWG
MRCT-075CWN1-Y(D)	4×5mm ² + 1×3mm ²	4 × UL1015 10AWG 1 × UL1015 12AWG
MRCT-100CWN1-Y(D)	4×13mm ² + 1×8mm ²	4 × UL1015 6AWG 1 × UL1015 8AWG

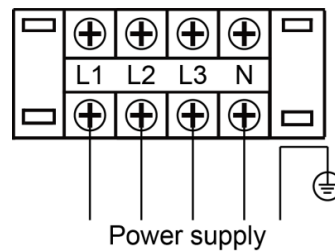
MRCT-125CWN1-Y(D)	$4 \times 21\text{mm}^2 + 1 \times 13\text{mm}^2$	4 × UL1015 4AWG 1 × UL1015 6AWG
MRCT-150CWN1-Y(D)	$4 \times 21\text{mm}^2 + 1 \times 13\text{mm}^2$	4 × UL1015 4AWG 1 × UL1015 6AWG
MRCT-200CWN1-Y(D)	$4 \times 33\text{mm}^2 + 1 \times 21\text{mm}^2$	4 × UL1015 2AWG 1 × UL1015 4AWG
MRCT-250CWN1-Y(D)	$4 \times 33\text{mm}^2 + 1 \times 21\text{mm}^2$	4 × UL1015 2AWG 1 × UL1015 4AWG
MRCT-300CWN1-Y(DH)	$4 \times 33\text{mm}^2 + 1 \times 21\text{mm}^2$	4 × UL1015 1AWG 1 × UL1015 2AWG

✧ Power supply wiring diagram

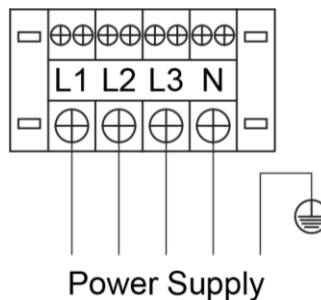
MRCT-050CWN1-M



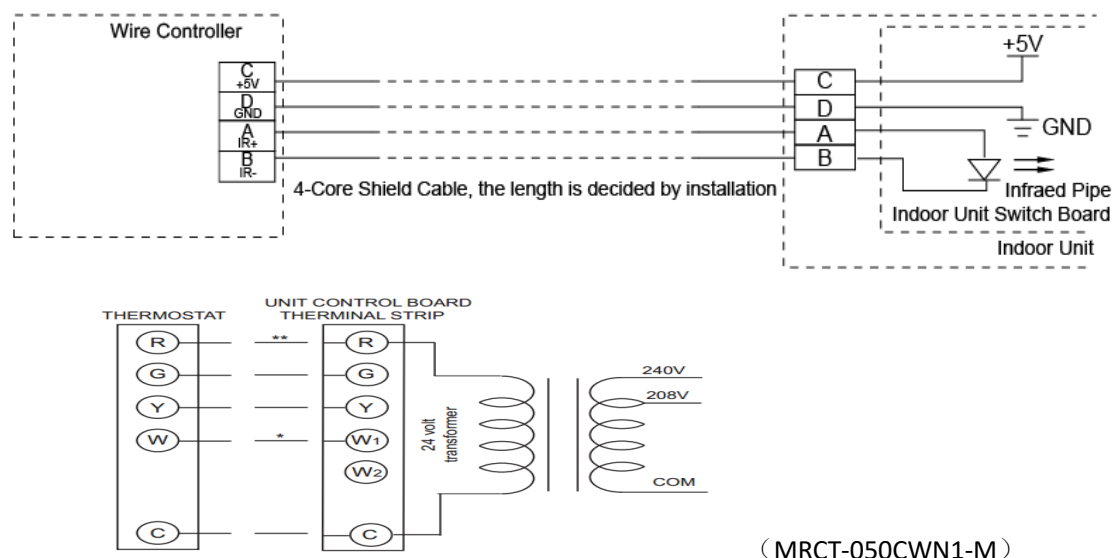
MRCT-062CWN1-Y(D), MRCT-075CWN1-Y(D):



**MRCT-100CWN1-Y(D), MRCT-125CWN1-Y(D), MRCT-150CWN1-Y(D),
MRCT-200CWN1-Y(D), MRCT-250CWN1-Y(D), MRCT-300CWN1-Y(DH):**



✧ Wired controller wiring diagram (Standard wired controller)



- ✧ If choose optional wired controller or non-programmed electrical thermostat of other brand, such as Honeywell. Wiring should refer to the manual of the thermostat.

9. Start-up

Before starting unit:

- ✧ Is the unit properly located and level with the proper clearance?
- ✧ Is the duct work correctly sized, run, taped, insulated, and weatherproofed with proper unit arrangement?
- ✧ Is the wiring properly sized and run according to the unit wiring diagram?
- ✧ Are all the wiring connections tight, including those in the unit?
- ✧ Has the unit been properly grounded and fused with the recommended fuse size?
- ✧ Has the air conditioning system been checked at the service ports for charge and leak tested if necessary?
- ✧ Does the condenser fan and indoor blower fan free without rubbing, and are they tight on the shafts?
- ✧ Are all covers and access panels in place to prevent air loss and safety hazards?

Starting the unit:

- ✧ When the unit operates under cooling mode, please check the line voltage of the unit. The voltage should be within the range shown on the unit nameplate.
- ✧ If low voltage is encountered, check the size and the length of power supply wire from the main

disconnect to the unit. The line may be undersized for the length of the run.

Shut-down the unit:

- ✧ Place the system selector in the OFF position or reset thermostat (Wired controller) at a setting above room temperature.
- ✧ Do not de-energize the main power supply disconnect except when unit is to be serviced.

10. Safety Control

Functions

- ✧ Minutes delay for the compressor start-up:

At the beginning of energizing, 3-minutes delay should be taken to start the compressor. While after the stop of the compressor, 7-minutes delay should be taken to restart the compressor.
- ✧ Compressor discharge temperature protection:

When the temperature of compressor discharge is higher than 125°C (257°F), the compressor will stop. Once the temperature is lower than 90°C (194°F), the compressor can be started again.
- ✧ Reverse phase protection relay:

The reverse phase protection relay will make the unit not start, when the power supply source is in correctly conneted.

The checking of phase order is just carried out at the first time of electrifying. If malfunction happens then the checking will be going on until the order of phase is right, and the error code will be displayed on the board. If there is no problem in the first checking, then it will be omitted.
- ✧ High pressure and low pressure protection:

When high pressure is equal or higher than 638 Psi, and lower pressure is equal or lower than 21Psi, the unit will stop.

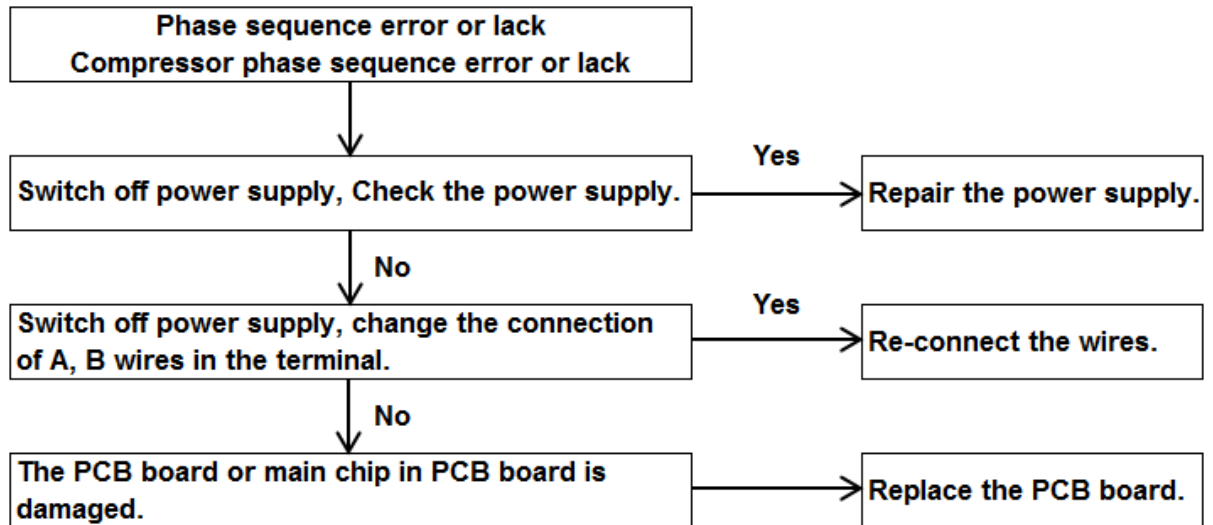
11. Troubleshooting

Error & protection code

Type	Content	Code	Remarks
Normal	Standby	-----	
Normal	Constraint cool	ON	
Normal	Run	10.	
Error	Compressor phase sequence error or phase lack	E0	
Error	Evaporator pipe temperature sensor (T2) in system A error	E5	
Error	Evaporator pipe temperature sensor (T2) in system B error	E6	
Error	Thermostat output error	Eb	For Honeywell
Error	Thermostat connection error	Ed	Two or more thermostat connection
Protection	Over-current protection of indoor side fan motor	P2	
Protection	Protection for outdoor fan or power protector	P3	
Protection	Protection for low pressure or compressor discharge temperature in A system	P4	Comprehensive protection of system A
Protection	Protection for low pressure or compressor discharge in B system	P5	Comprehensive protection of system B
Protection	High pressure protection in A system	PE	
Protection	High pressure protection in B system	PF	
Protection	Anti-freezing protection of evaporator in system A	Pc	
Protection	Anti-freezing protection of evaporator in system B	Pd	

Phase sequence error or phase default:

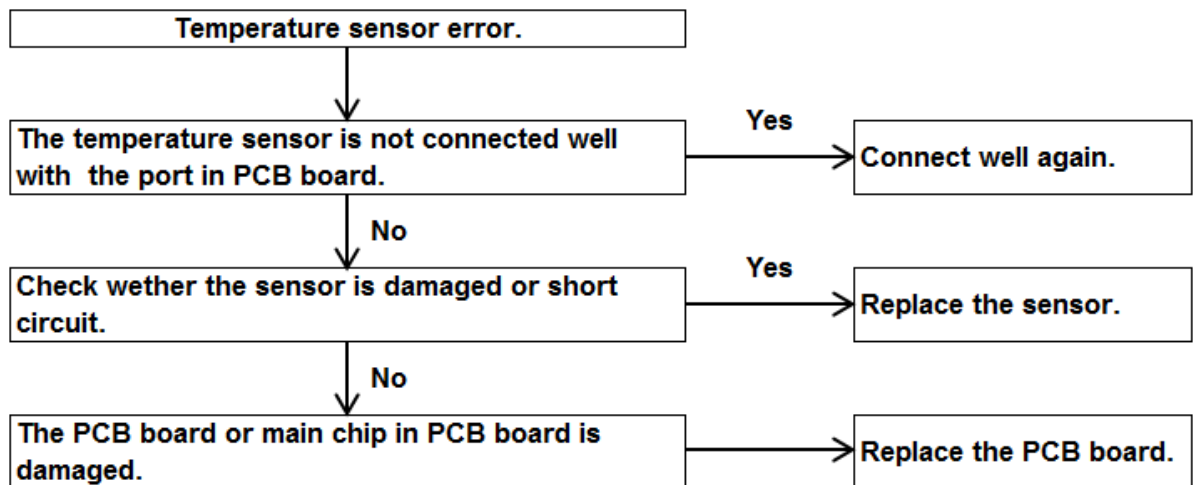
Compressor sequence error or phase default:

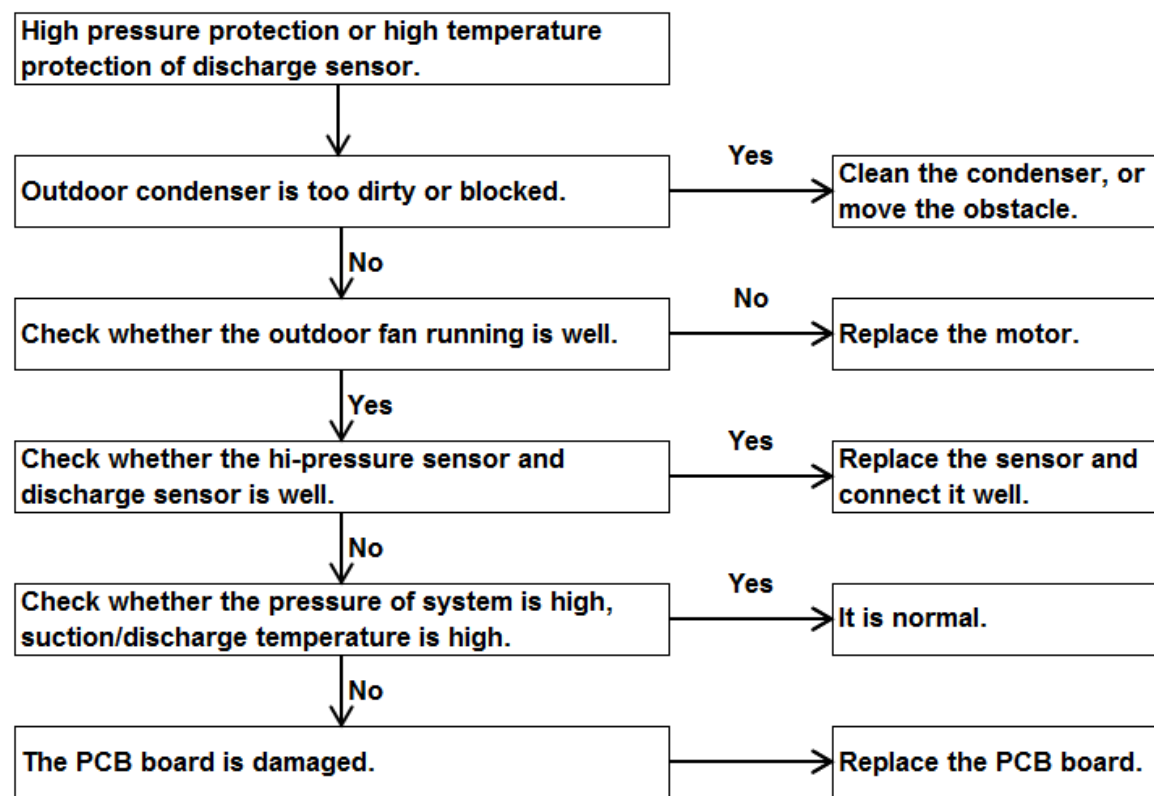
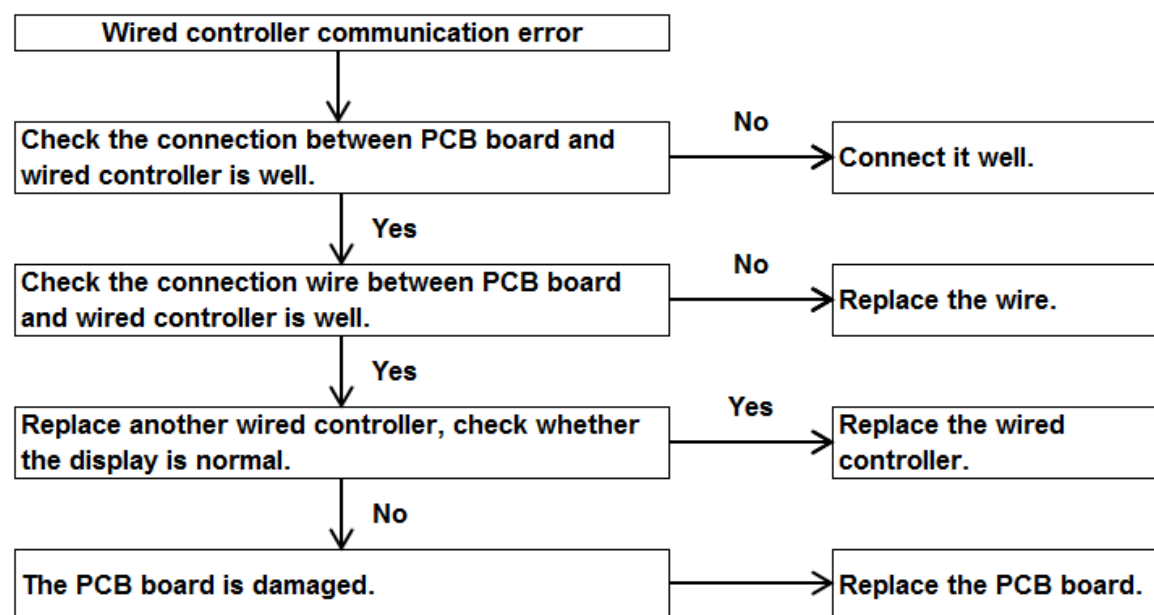


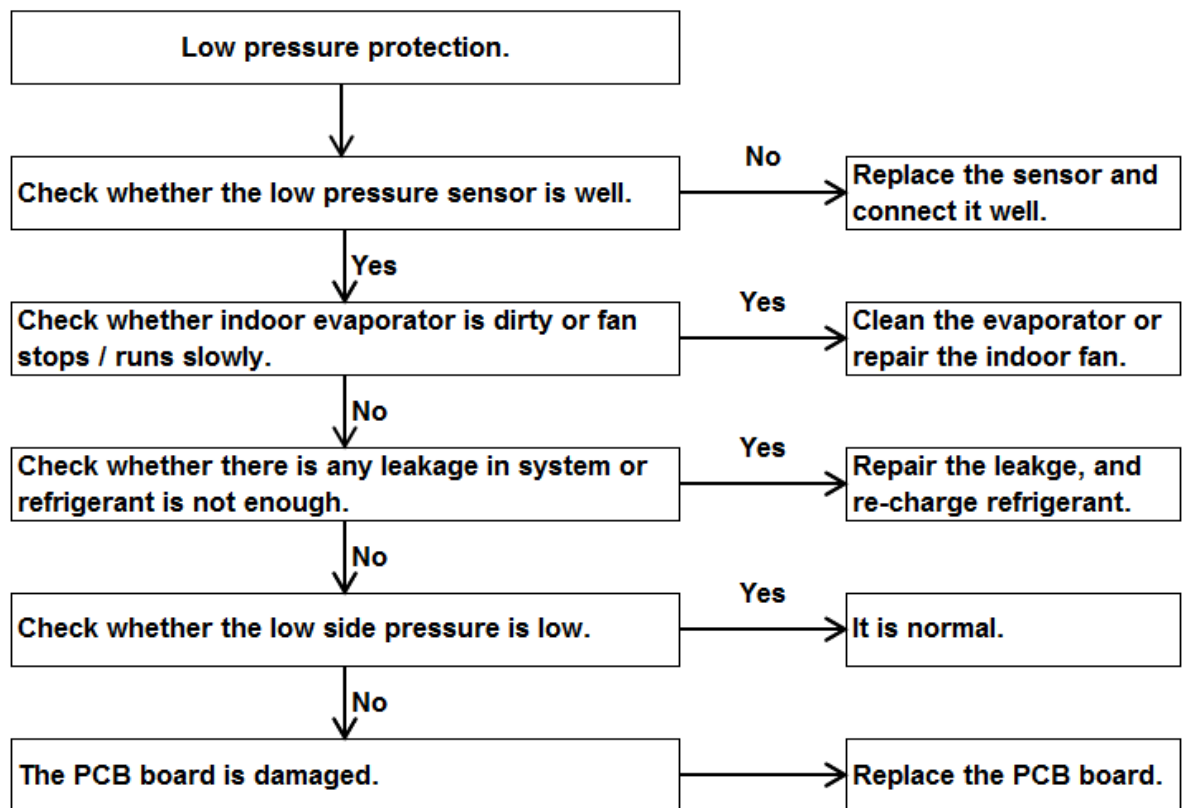
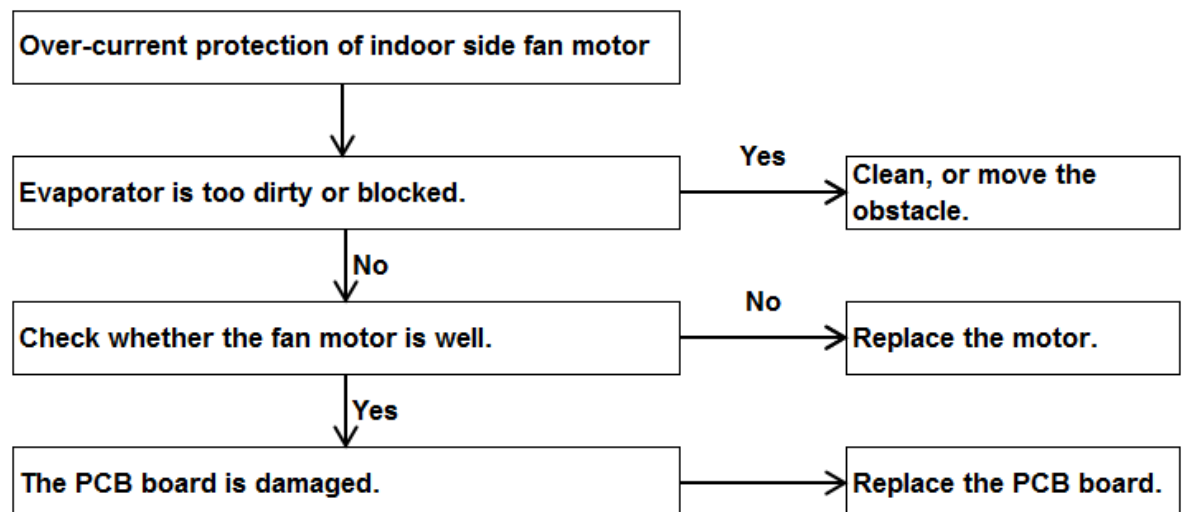
Compressor discharge temperature sensor (Tp) error:

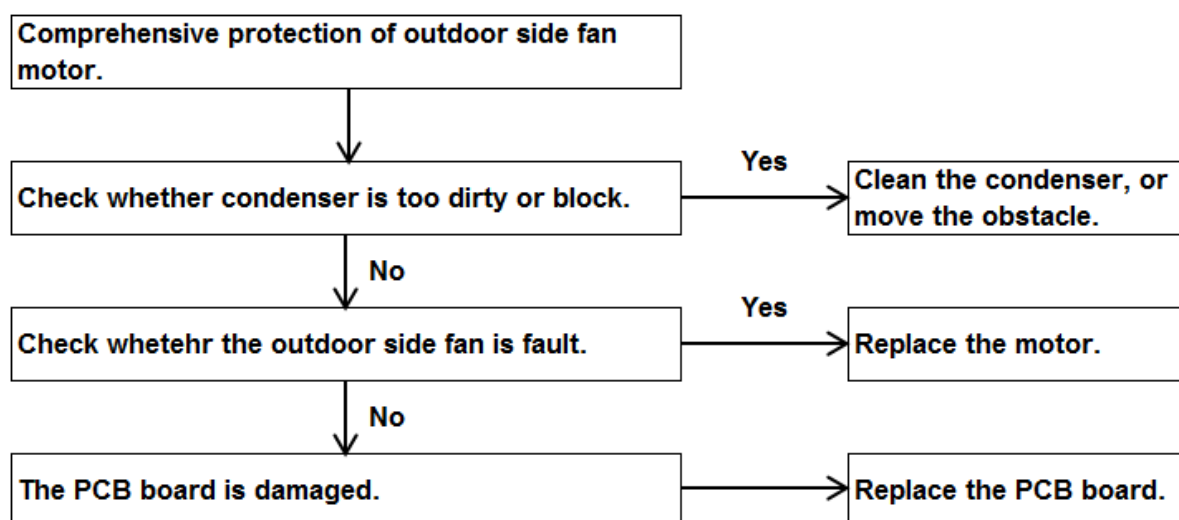
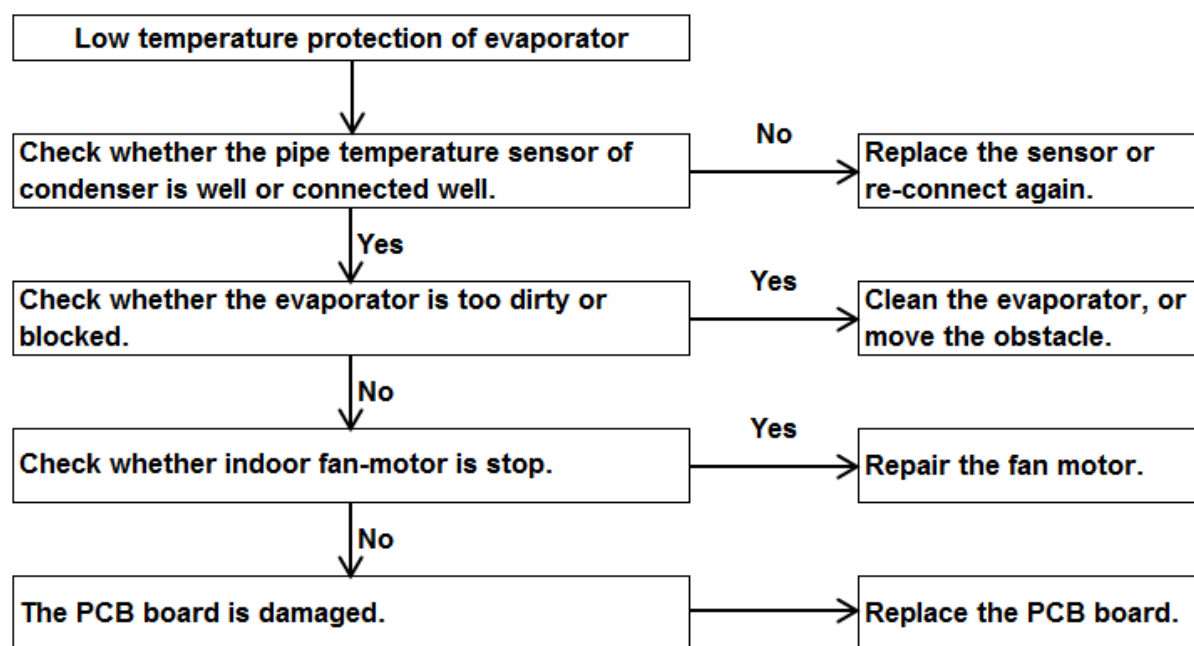
Indoor side room temperature sensor (T1) error :

Evaporator pipe temperature sensor (T2) error:



High pressure protection:**High discharge temperature protection :****Wired controller communication error :**

Low pressure protection :**Over-current protection of indoor side fan motor :**

Comprehensive protection of outdoor side fan motor :**Low temperature protection of evaporator:****Anti-freezing protection of evaporator :**

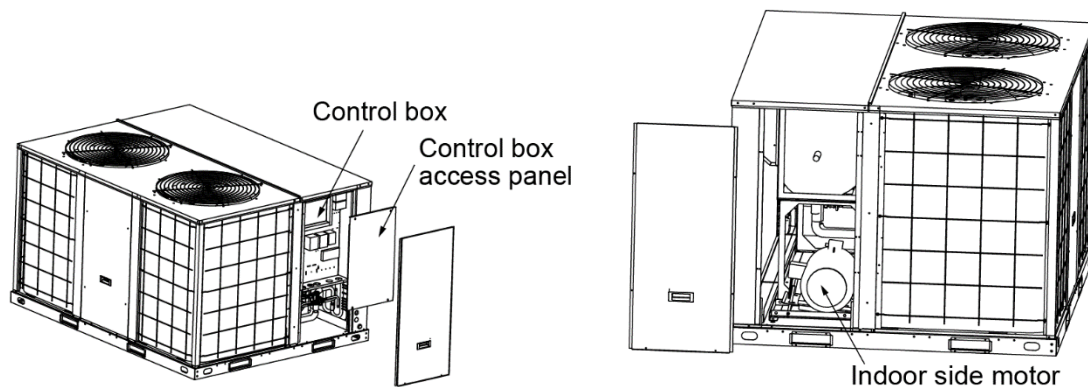
12.Maintenance

Caution

- ✧ Do not operate the unit without the evaporator fan access panel in place. Reinstall the access panel after performing any maintenance. Operating the unit without the access panel may result in severe personal injury.
- ✧ Disconnect the power supply before cleaning and maintenance.

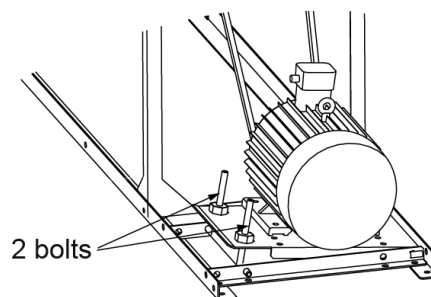
Regular maintenance

Some regular maintenance has been carry on by user. It includes: change the one-time dust filter, clean casing, wash condenser and replace a new belt, as well as do some test for the equipment.



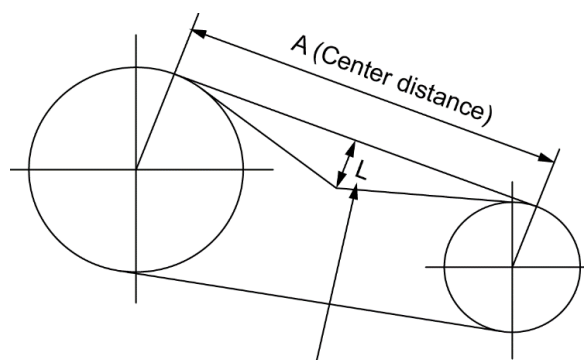
Regulating belt of tension

Refer to the following figure, loose 2 bolts, and move the electric motor to adjust belt tension. These two bolts are used for precision adjustment.



Belt tension is measured by belt tension indicator

- ✧ Calculate the deflection, deflection (L) = A/64.



Belt tension indicator applied
to middle center distance

Model	A (mm)
MRCT-062CWN1-Y(D)	473
MRCT-075CWN1-Y(D)	473
MRCT-100CWN1-Y(D)	586
MRCT-125CWN1-Y(D)	586
MRCT-250CWN1-Y(D)	789
MRCT-300CWN1-Y(DH)	789

- ✧ Measure the belt deflection force, the force should be between the values shown in the following lists.

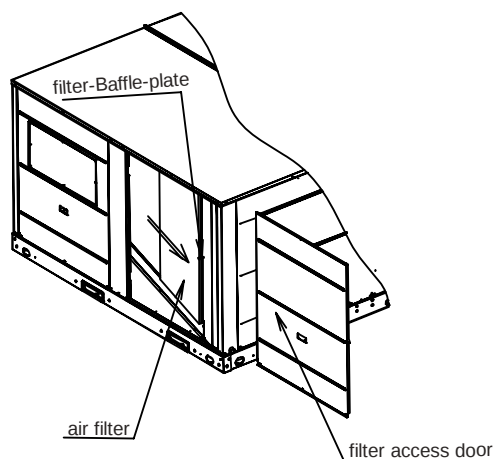
Belt section	For required to deflection		
	Small pulley diameter	Newton	Kilogram-force
SPA	80mm~132mm	25N~35N	2.5kg.f~3.6kg.f

- ✧ The belt which is too tight or too loose may generate noise and be harmful to the unit.

Air intake filter clean (The filter should be customized).

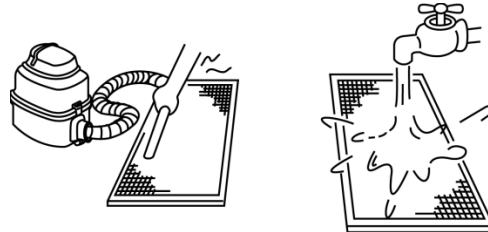
Step 1: Dismantle the air filter.

- ✧ Twist of screws and get out the plate.
- ✧ Pull out the filter along the supporting slot.



Step 2: Clean the air filter.

- ✧ Vacuum cleaner or fresh water may be used to clean the air filter. If the dust accumulated too much, please use soft brush and mild detergent to clean.
- ✧ The air-in side should face up when using vacuum cleaner.
- ✧ The air-in side should face down when using water.



- ✧ After cleaning, please dry out in cool place. Do not dry out the air filter under direct sunshine or heat.

Step 3: Re-install the air filter.**Condenser coil**

Unfiltered air circulates through the unit's condenser coil can cause the coil's surface to become clogged with dust. Clean the coil, vertically (i.e., with the fins), and stroke the coil surface with a soft brush. Be sure to keep all vegetation away from the condenser coil area.

Periodic maintenance

To keep the unit operating safety and efficiently, the entire system should be checked at least once each year. The examining the areas include:

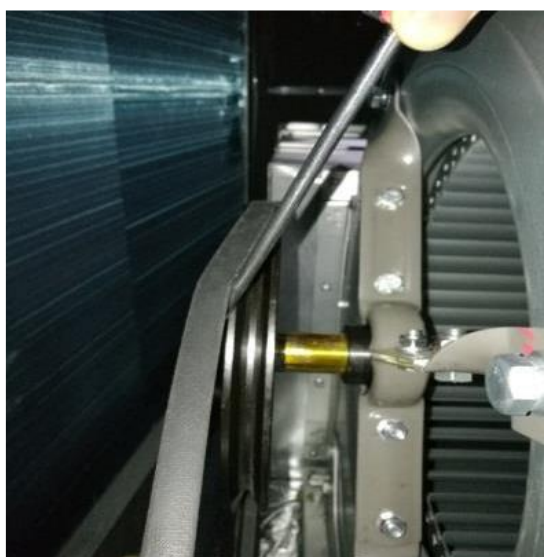
- ✓ Filter;
- ✓ Motors and drive system components;
- ✓ Economizer gaskets (Reserved);
- ✓ Safety controls;
- ✓ Electrical components and wiring (For possible replacement and connection tightness);
- ✓ Condenser drainage (For cleaning);
- ✓ Unit duct connections (To check that they are physically sound and sealed to the unit casing);
- ✓ Unit mounting support (For structural integrity);
- ✓ The unit (For obvious unit deterioration).

13. Instruction for Adjusting the Adjustable Pulley

Through changing the working pitch diameter of the pulley mounted on driver shaft, in turn the revolutions per minute of the driven shaft will increase or decrease to change air volume and external static pressure.
(Except model 050)

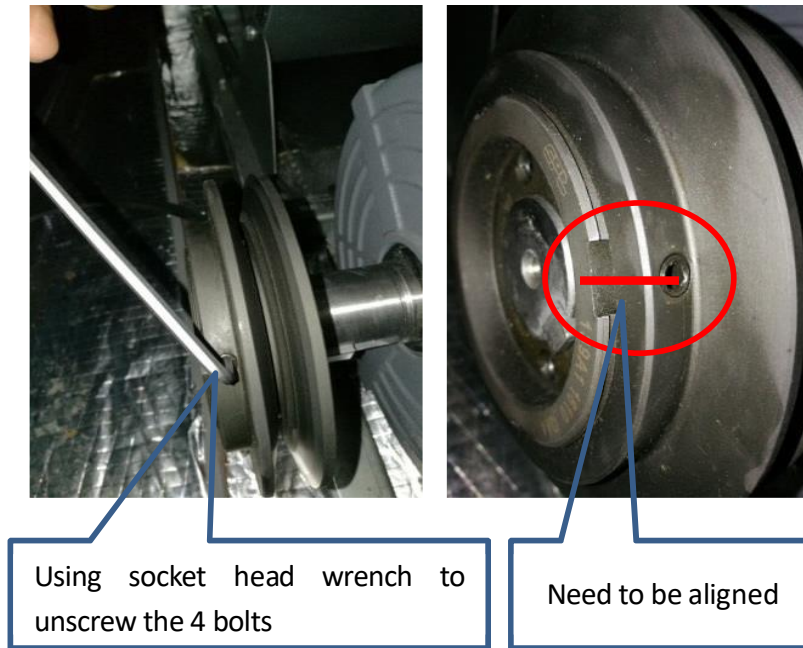
Step 1: Remove belt:

Upward the belt with screwdriver or any other tools, and turn the pulley round with anti-clockwise direction, then the belt can be removed from the pulley.



Step 2: Adjust the pulley to 0 round:

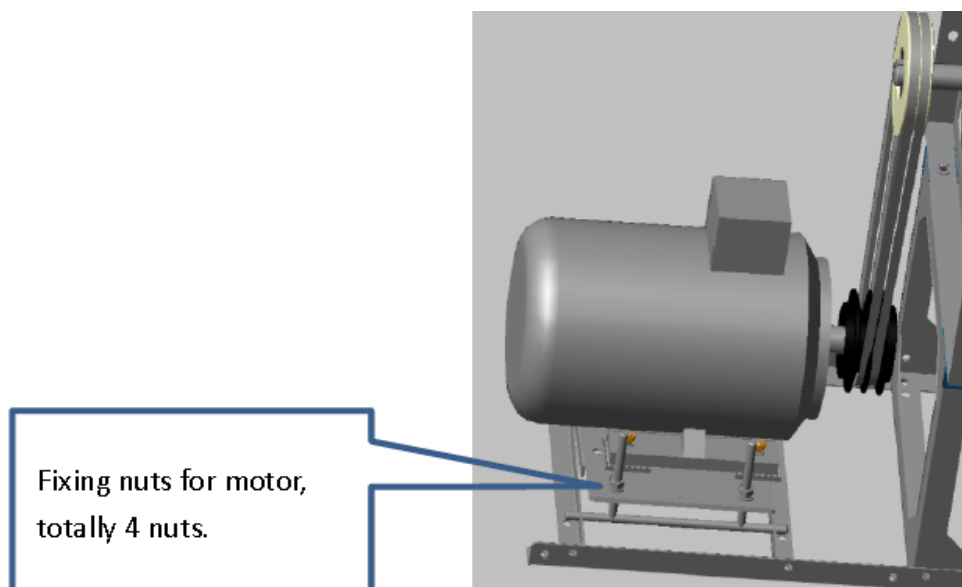
Using a 4mm socket head wrench to unscrew the 4 bolts around the pulley. Then adjust the pulley in clockwise direction until the pulley close to the right side and can't be moved any more. Please make sure the bolt and the gap are aligned (Please refer to the place with red round in the picture). If it is not aligned, you can turn the pulley back, to make sure it is aligned. If the pulley has two grooves, you can adjust the other side with the same method.

**Step 3: Adjust to the requested rounds for the pulley:**

After adjust the pulley to 0 round, then we can continue to turn the pulley to other requested rounds by turn round the pulley in anti-clockwise direction. Then screw down the 4 bolts using the 4mm socket head wrench. (**Before screw down the bolts, please make sure the bolt and the gap is aligned. Or it will damaged the thread of the pulley.**) If the pulley has two grooves, please adjust the other side with the same method.

Step 4: Connect the belt:

Unscrew the nuts for fixing the motor in the base with wrench. And then connect the belts.



Step 5: Adjust the degree of tightness of the belts:

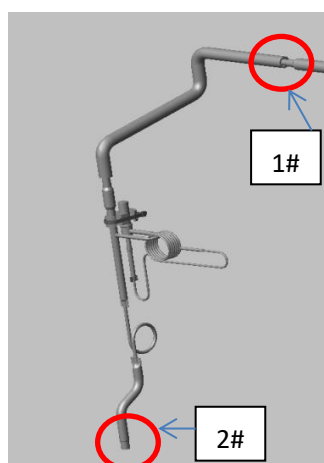
Adjust the position of the 4 fixing nuts in the base by using wrench, to adjust the tightness of the belt. For more information about this, please refer to the installation & owner's manual.

14.Instruction for Flush System

After the system compressor is damaged, impurities such as wear of compressor moving parts and carbonization of lubricating oil at high temperature will accumulate in the filter in the front part of the throttle part, thus blocking the filter. Therefore, when replacing the compressor, it is very important to clean the heat exchanger and throttling parts, otherwise the compressor will be damaged again after replacing.

Step 1: Flush the heat exchanger and throttling parts and brazing.

- a. After power off the unit and release the refrigerant, brazing out and remove the throttle part from position 1# and position 2#, and then charge the nitrogen from position 1# to ensure whether it is blocked or not.



- b. Brazing out from the compressor's suction pipe and discharge pipe, Taking out the damaged compressor.
- c. Charging the cleaning agent from the compressor's suction pipe, and purge with nitrogen to check whether there are impurities coming out from position 1#. If yes, keep flushing and make it clean finally.
- d. Charging the cleaning agent from position 2#, and purge with nitrogen to check whether there are impurities coming out from the compressor's suction pipe. If yes, keep flushing and make it

clean finally.

e. Take out the newly-made throttle component assembly of the factory, as shown above figure, set the nitrogen flow to a certain value, then charge nitrogen from the position 1#, and feel the speed and size of the airflow by hand at position 2#, forming an intuitive concept.

f. Charging the nitrogen from the compressor's discharge pipe position. Nitrogen is slightly drained out from the position 1#. After that, you can braze the pipe at position 1#.

g. Adjust nitrogen gas flow, charging the nitrogen from the compressor's discharge pipe position, with hand on the position 2# perception of airflow velocity, compare with the airflow velocity of "e" step. If the airflow rate was similar, shows that the brazing work is good and filter doesn't block. And this process has to take at least 5 min.

h. Charging the nitrogen from the position 2#, with hand on the compressor's discharge position perception of airflow velocity, and then you can braze the compressor's discharge pipe.

i. Charging nitrogen from the part near the 2# of the evaporator, with hand on the compressor's suction position perception of airflow velocity, and then you can braze the compressor's suction pipe. At the same time, also need to braze the unloading valve capillary.

j. Charging nitrogen from the low-pressure gauge, with hand on the position 2# perception of airflow velocity, and then you can braze the position 2#.

Step 2: Vacuum and refrigerant charging.

The vacuuming time should be more than 1 hour, and then add refrigerant according to the nameplate.

Step 3: Commissioning and record

Appendix 1: - Temperature Sensor

Room / Pipe temperature sensor Resistance Valve (R25 = 10 kOhm $\pm$ 1%, B25/50 = 4100K $\pm$ 1%)

Temperature (°C)	R _{Max.} (KΩ)	R _{Nor.} (KΩ)	R _{Min.} (KΩ)	Temperature Tolerance (°C)	
0	35.630	34.840	34.064	-0.41	0.42
1	33.741	33.011	32.292	-0.40	0.42
2	31.963	31.288	30.624	-0.39	0.41
3	30.290	29.666	29.051	-0.38	0.40
4	28.714	28.137	27.569	-0.38	0.39
5	27.230	26.697	26.172	-0.37	0.39
6	25.831	25.339	24.853	-0.36	0.38
7	24.513	24.058	23.609	-0.36	0.37
8	23.270	22.850	22.435	-0.35	0.36
9	22.097	21.710	21.327	-0.34	0.36
10	20.991	20.633	20.279	-0.33	0.35
11	19.947	19.617	19.290	-0.32	0.34
12	18.961	18.656	18.355	-0.32	0.33
13	18.030	17.749	17.471	-0.31	0.32
14	17.150	16.891	16.635	-0.30	0.32
15	16.318	16.080	15.844	-0.29	0.31
16	15.532	15.313	15.095	-0.29	0.30
17	14.788	14.587	14.386	-0.28	0.29
18	14.085	13.899	13.715	-0.27	0.28
19	13.419	13.249	13.079	-0.26	0.27
20	12.789	12.632	12.477	-0.25	0.27
21	12.191	12.048	11.906	-0.25	0.26
22	11.626	11.495	11.364	-0.24	0.25
23	11.090	10.970	10.850	-0.23	0.24
24	10.582	10.472	10.363	-0.22	0.23
25	10.100	10.000	9.9000	-0.21	0.22
26	9.6518	9.5519	9.4520	-0.22	0.23
27	9.2262	9.1265	9.0270	-0.23	0.25
28	8.8218	8.7226	8.6235	-0.25	0.26
29	8.4376	8.3389	8.2405	-0.26	0.27
30	8.0723	7.9743	7.8767	-0.27	0.28
31	7.7250	7.6279	7.5312	-0.28	0.29
32	7.3947	7.2985	7.2028	-0.29	0.31

Continued:

Temperature (°C)	R _{Max.} (KΩ)	R _{Nor.} (KΩ)	R _{Min.} (KΩ)	Temperature Tolerance (°C)	
33	7.0805	6.9853	6.8906	-0.30	0.32
34	6.7814	6.6873	6.5939	-0.32	0.33
35	6.4968	6.4038	6.3116	-0.33	0.34
36	6.2257	6.1340	6.0431	-0.34	0.35
37	5.9676	5.8772	5.7875	-0.35	0.37
38	5.7216	5.6326	5.5443	-0.36	0.38
39	5.4873	5.3996	5.3127	-0.38	0.39
40	5.2639	5.1776	5.0922	-0.39	0.40
41	5.0509	4.9660	4.8821	-0.40	0.42
42	4.8478	4.7644	4.6819	-0.41	0.43
43	4.6541	4.5721	4.4911	-0.43	0.44
44	4.4692	4.3887	4.3092	-0.44	0.45
45	4.2928	4.2137	4.1357	-0.45	0.47
46	4.1244	4.0468	3.9702	-0.46	0.48
47	3.9636	3.8874	3.8123	-0.48	0.49
48	3.8100	3.7353	3.6617	-0.49	0.51
49	3.6632	3.5900	3.5179	-0.50	0.52
50	3.5230	3.4512	3.3805	-0.52	0.53
51	3.3890	3.3186	3.2494	-0.53	0.55
52	3.2608	3.1919	3.1241	-0.54	0.56
53	3.1383	3.0708	3.0044	-0.56	0.57
54	3.0211	2.9550	2.8900	-0.57	0.59
55	2.9090	2.8442	2.7806	-0.58	0.60
56	2.8017	2.7382	2.6760	-0.60	0.61
57	2.6990	2.6369	2.5759	-0.61	0.63
58	2.6006	2.5398	2.4802	-0.63	0.64
59	2.5064	2.4469	2.3886	-0.64	0.66
60	2.4162	2.3580	2.3009	-0.65	0.67
61	2.3298	2.2728	2.2170	-0.67	0.68
62	2.2470	2.1912	2.1366	-0.68	0.70
63	2.1676	2.1130	2.0596	-0.70	0.71
64	2.0914	2.0381	1.9858	-0.71	0.73
65	2.0184	1.9662	1.9151	-0.73	0.74
66	1.9484	1.8973	1.8474	-0.74	0.76
67	1.8812	1.8312	1.7824	-0.76	0.77

Continued:

Temperature (°C)	R _{Max.} (KΩ)	R _{Nor.} (KΩ)	R _{Min.} (KΩ)	Temperature Tolerance (°C)	
68	1.8167	1.7678	1.7201	-0.77	0.78
69	1.7548	1.7070	1.6603	-0.79	0.80
70	1.6954	1.6486	1.6029	-0.80	0.81

Appendix 2: - Inspection Report Template

ROOFTOP PACKAGE INSPECTION REPORT		
No.	1#	
Installation location		
Is the unit normal?		
Model name:		
SN code		
Date of commissioning		
Installation Situation	Picture of control box	
	Picture of Supply & Return air side	
	Picture of condenser	
	Picture of connection duct	
	what is the ESP?	
	Duct Length	
	Did adjust the pulley before?	
	Are two or more supply ducts combined into one supply duct?	
	Did the duct install the non-return valve of each supply branch duct when two or more supply ducts are combined into one supply duct?	

Ambient temperature		
Ambient relative humidity		
Indoor temperature		
Note: The following data should be recorded after the unit operate 15 minutes. The normal operating parameter is in next sheet for reference.		
Compressor of A cycle	discharge pressure	
	suction pressure	
	Suction temp.	
	discharge temp.	
Compressor of B cycle	discharge pressure	
	suction pressure	
	Suction temp.	
	discharge temp.	
PCB Reading		
Controller model		
Description of abnormal phenomenon		

Appendix 3: - The Reference Data

	The Reference Data							
Ambient Dry Bulb Temp.(°C)	52	48	46	35	27	27	17	13.5
Indoor Dry Bulb Temp. (°C)	32	27	29	27	27	18	21	31
Indoor Wet Bulb Temp.(°C)	23	19	19	19	24	15	15	26
A cycle discharge pressure/Psig	584	532	502	402	357	312	248	244
A cycle suction pressure/Psig	158	142	139	135	145	109	104	135
B cycle discharge pressure/Psig	600	528	516	399	360	stop	stop	252
B cycle suction pressure/Psig	161	141	144	132	148	stop	stop	139
A cycle discharge temp./°C	91.3	84	79.4	73.3	/	62.2	55.7	59.8
A cycle Suction temp./°C	22.1	15.3	14.6	17.2	/	8.9	10.5	27.1
B cycle discharge temp./°C	93.5	85.8	85.7	77.3	/	stop	stop	62.4
B cycle Suction temp./°C	24.3	17.6	18.9	21.0	/	stop	stop	28.4
NOTE	1. The pressure deviation $\pm 4\text{Psig}$ belongs to the normal range, while the pressure deviation is greater than $\pm 10\text{Psig}$, indicating that the system is operating normally. Need to confirmed the reason and rectified; 2. The temperature deviation $\pm 5^\circ\text{C}$ belongs to the acceptable range, and the temperature deviation greater than $\pm 7^\circ\text{C}$ indicates that the system is operating normally. Need to confirmed the reason and rectified; 3. In the field test, if the suction pressure and suction temperature are lower than the normal deviation of the reference data, the main reasons are as follows: a. excessive duct resistance, insuffienct air volume; b. filter or evaporator extremely dirty; c. In the field test, the pressure reference data can be estimated by interpolation;							

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

