

Rooftop Package

Creator 6.2-30 Ton

Midea Building Technologies Division Midea Group

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

Note: Product specifications change from time to time as product improvements and developments are released a

Postal code: 528311

mbt.midea.com www.midea-group.com

ISO 9001



ISO 45001

2022

AKE A BEAUTIFUL TOMORROW)

Glidea

Midea MBT

FORTUNE

GLOBAL

Midea MBT(Midea Building Technologies) is a key division of the Midea Group, a leading provider of comprehensive solutions of intelligent building, involving energy sources, elevators, control systems, and heating, ventilation & air conditioning. Midea MBT has continued with the tradition of innovation upon which it was founded and emerged as a global leader in the HVAC and building management industry. A strong drive for advancement has resulted in an extensive R&D department that has placed Midea MBT at the forefront of a competitive edge. Through these independent projects and joint-cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.

Several production bases are situated on Shunde, Chongqing, Hefei, and Italy.

MBT Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters and AHU/FCU.

MBT Chongging: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers and AHU/FCU.

MBT Hefei: 11 product lines focusing on VRF, Chillers and Heat Pump Water Heaters.

Clivet S.p.A: 50,000m2 workshop in Feltre and Verona, covering products such as ELFO system, hydronic, WHLP, packaged, split and close control and so on.



MBT Learning Academy



Objective

MBT Learning Academy aims to provide training to the sales personnel as well as technical personnel in order to increase the utilization for your MBT equipment. Once you have purchased equipment from MBT, taking care of the equipment is topmost priority. MBT Learning Academy offers training courses to learn firsthand from the manufacturer what it takes to get the best out of your MBT product. The goal of MBT Learning Academy is to provide product specific training, safe work procedures and expertise in carrying out the installation and maintenance of MBT products as well as teaching the main selling points in order to help the sales people sell the MBT products with ease.

Training Centers

Our world class training centers provide knowledge and skills necessary to efficiently deploy MBT technologies.

The training centers include dedicated laboratories to provide hands-on experiences with various systems, components and controls to refresh and enhance the skills of your sales, design and installation and service teams. Right now we operate our trainings from the below two locations:

1. MBT Training Center

Address: MBT Training Center, 2nd Floor, Building 6, Midea Global Innovation Center, Beijiao, Shunde, Foshan, China Pin-528311

The Midea MBT Training Center is situated 70 kilometers from Baiyun Guangzhou International Airport.

Products: VRF, M thermal

2. Chongqing Midea Training Center

Address: No. 15, Qiangwei Road, Nan'an District, Chongqing, China

Chongqing Midea Training Center is 35 kilometers from Chongqing International Airport.

Products: Centrifugal Chiller, Screw/Scroll Chiller and Terminals







VRF training M thermal training

Chiller training

Midea

Global Technical Trainings

The training courses by MBT Learning Academy are divided into the following two categories with different targeted audiences for each.

Design and Application Trainings: The design and application trainings for various products are basically for the sales personnel selling MBT products in order to give them basic understanding about the main features. The trainings are conducted on a global level inviting sales engineers, technical engineers, consultants and project designers from different parts of the

After Sales- Service Trainings: These trainings are dedicated for the After Sales/ Service personnel in order for them to better carry out the installation, commissioning and maintenance of MBT products. Technical person and engineers from different parts of the world are invited to take part in these trainings.

Online Trainings: The trainings to the Global customers can also be done online with the help of Team and Midea Meeting software. This way, the customers do not need to be physically present for the training. Amid the COVID-19 pandemic, MBT Learning Academy has conducted a lot of online trainings. The training videos are available on the TSP system and can be downloaded by using QR codes.

Products: VRF, M thermal, Chillers and Terminals

Highly Skilled Trainers: The trainers for various courses by MBT Learning Academy are expert people with vast experiences in their field. Most of them have a deep insight about the global HVAC market and help the attendees to better understand the MBT products.

Training Certificates:

The attendees for Global trainings are provided a training certificate highlighting the courses discussed in the training, signed by Mr. Henry Cheng, General Manager of MBT Overseas Sales Company.

Registration:

You can contact your respective Midea contact point to provide you with the complete schedule about the global technical trainings as well as how to register for these trainings.

For further enquiries about the Global Trainings conducted by MBT Learning Academy, please send email at the following email address: peeyush@midea.com

















The global spare parts center provides high quality and fast spare parts supply. Midea online system (https://tsp.midea.com) can query and purchase spare parts with one click, further shortening the supply time of spare parts.









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Midea Global Spare Center



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Product lineups

Nominal ton*		6.2	7.5	8.5	10	12.5	15	17.5	20	25	30
			•								
					•						
Heat pump 380-415V-3N~						•	•				
50Hz	4							•	•		
										•	•
	1 1 1	•	•								
Cooling only 380-415V-3N~				•	•						
50Hz						•	•				
	-							•	•		
										•	•
	1		•								
					•						
Cooling only 220V 3N ~ 60Hz							•				
									•		
										•	•
Cooling only 460V 3N ~	-								•		
400V 3N ~ 60Hz										•	•

- 1. * Nominal ton only for reference.
- 2. means cooling type product; means heat pump type product.
- 3. Cooling or heating capacity as per specifications.



Wide application range

Wide capacity range

- ❖ Wide cooling capacity range from 5 to 30 tons.
- ❖ Heat pump and cooling only products are available.

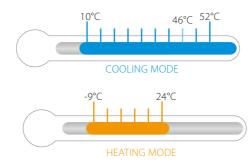
Wide Operation Range

Creater series rooftop package units can operate stably in a wide ambient temperature range.

Cooling only type from 10°C to 52°C in cooling mode. Heat pump type from 10°C to 46°C in cooling mode and from -9°C to 24°C in heating mode.

Design flexibility

- ❖ Vertical side-discharge structure design.
- ❖ Flanges of air flow inlet and outlet as standard.
- ❖ It is suitable for installation on rooftop and ground.







Easy installation

Convenient for wires connection

- * Removable access door on the electric box. 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.



Easily connect the drainage pipe

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



Easy maintenance

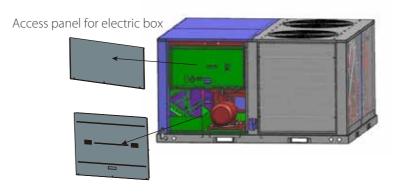
External pressure gauge ports



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

Easy access doors design

- * Removable the access doors on the filter, fan motor, and electric box sections.
- Provide convenient access to system components for mainenance and service.



Access panel

System self-diagnostic

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



Washable filter





Outstanding reliability

Durable construction

- ❖ Pre-painted exterior cabinet panels pass 500 hours Salt Spray Test for durability.
- ❖ Weather-resistant construction with capped steams and sloped top panels.
- ❖ G90 galvanized heavy gauge plate conforming to ASTM-A-653.





Customized anti-corrosion treatment

* The rooftop package air conditioners with special anti-corrosion treatment are suitable for seaside areas or the areas exposed to acidic substances.



- ❖ All PCB parts in the unit are coated with double-side moisture proof paint. The outer side of electric box metal cover is spray-painted.
- ❖ Special anti-corrosion treatment of heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion.
- ❖ All screws are anti-rust.
- Casings of the unit and motors are anti-rust.

Reliable scroll compressor

- * Famous brand compressor: Copeland, Hitachi, Danfoss, etc.. More reliable.
- No complex internal suction and discharge valves for quieter operation and higher reliability.
- Compact, light-weight, and fewer moving parts

Multi-protection design

- Multiply measures to ensure units operate normally and reliably: System current protection, High/low pressure protection, Temperature sensor protection, etc.
- Three-phase protector can be customized.







HP/LP switch





Flexible choise of accessories

Controllers

- Wired controller as standard.
- * Besides standard wired controller, others can be chosen too.



- 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 rooftop package units and centralized controller.



Note: MRCT-050CWN1-R(G) does not need to connect MD-NIM01, CCM30 directly connected to the PCB port can realize the centralized control function.

Multi-accessories

Description	Creator series						
Description	Standard accessories	Optional accessories					
Filter		√					
Outlet drainage	√						
Snap ring	√						
Drainage pipe	√						
Anti-corrosion fin		√					
EHK (Electric Heater Kits)		√					
Network interface module		√					
Three-phase protector		√					

Mechanical specification

General

All units are factory assembled, internally wired, fully charged refrigerant and 100% run tested to check cooling and heating operation, fan and blower rotation, and control sequence before leaving the factory. Internal wiring is colored and numbered for simplified identification. The unit is provided with an integral weather resistant control panel.

Casing

Unit casing is constructed of Zinc coated, heavy gauge, galvanized steel. Exterior surfaces are cleaned, G90 galvanized heavy gauge plate conforming to ASTM A653, followed by baked on electrostatic polyester dry powder coat paint on all external panels, completely weatherized for outdoor installation and propely reinforced and brazed. Salt Spray Test for steel sheet under 1000 hours, specially treated can be up to 2000 hours and even more. Cabinet contruction allows for all maintenance. Service panels can be easily removed and reassembled. All panels and top covers indoor side of the unit are insulated with 16mm, foam-faced, closed-cell insulation. The unit has provisions for forklift and crane lifting, with forklift capabilities on four sides of the unit.

Compressors

All units have direct-drive, hermetic, scroll type compressors with centrifugal type oil pump. Motor is suction gas-cooled and has a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal overloads are provided with the scroll compressors.

The compressors, incorporating a built-in muffler, are mounted on spring within a heavy gauge steel housing to give a low noise level

The unit contains the best compressor technology available to achieve the highest possible performance. Dual compressors are outstanding for humidity control, light load cooling conditions and system back-up applications.

Controls

The unit is completely factory-wired with necessary controls and terminal block for power wiring. The unit provides an external location for mounting a fused disconnect device.

Microprocessor controls provide for all 24V control functions. The precision control makes all heating, cooling, or ventilating decisions in response to electronic signals from sensors measuring indoor and outdoor temperatures.

The control maintains accurate temperature control, minimizes drift from set point, and provides better building comfort. A centralized micro-processor provides a higher level of machine protection.

Coils

Internally finned, copper tubes mechanically bonded to a configured hydrophilic aluminum fin is standard. Coils are leak tested under 3100KPa (450 psig) at the factory to ensure the pressure integrity.

Electronic thermostats

General information: A dedicated electronic thermostat is supplied with unit controls as standard. The thermostat normally displays room temperature and mode of operation. It also allows to select continuous fan operation, or has the fan on intermittent operation with the equipment. Finally, it displays the status of unit, thus providing maximum information for the user.

Specifications



Specifications

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Heat pump, 380-415V 3N~ 50Hz

7.5RT 10RT 12.5RT







Nominal ton*			7.5	10	12.5
Nodel			MRC-075HWN1-R(C)	MRC-100HWN1-R(C)	MRC-125HWN1-R(C)
	Caracita	Btu/h	89,000	120,000	150,000
Cooling	Capacity	kW	26.0	35.0	44.0
	Input	kW	7.9	10.7	13.3
	EER	Btu/h.W	11.3	11.2	11.3
	Caracita	Btu/h	103,000	137,000	154,000
lastia a	Capacity	kW	30.0	40.0	45.0
Heating	Input	kW	8.9	11.9	13.2
	COP	Btu/h.W	11.6	11.5	11.7
Air flow	Indoor side	CFM	2,830	3,900	5,500
External static pre	essure	Pa	Default: 80; 0 - 250	Default: 90; 0 - 250	Default: 110; 0 - 275
Max. power input	ax. power input kW		12	16	19,7
Max. current	ax. current A		24.8	28.8	38.2
~	Type / Quantity		Scroll / 1	Scroll / 2	Scroll / 2
Compressor	Brand		Danfoss	Hitachi	Copeland
ndoor fan	Type / Drive type		Centrifugal / Direct	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct
Wired controller			KJR-25B	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized contr	oller (Optional)		Yes	Yes	Yes
	Туре	/	R410A	R410A	R410A
Refrigerant	Control	/	Throttle valve	Throttle valve	Throttle valve
terrigerarie	Charged	kg	4.8	2.9+2.9	3.4+2.1
	Charged	lbs	10.56	6.38+6.38	7.48+4.62
Sound pressure le	vel	dB(A)	72.1	71.5	71.8
Ambient	Cooling		10°C - 46°C	10°C - 46°C	10°C - 46°C
mperature	Heating		-9°C - 24°C	-9°C - 24°C	-9°C - 24°C
	Net (W×H×D)	mm	1,475×840×1,130	1,483×1,138×1,231	1,965×1,230×1,130
Dimension	Packing (W×H×D)	mm	1,495×870×1,150	1,500×1,255×1,155	1,995×1,255×1,160
Weight	Net / Gross	kg	244/249	343/354	451/471

Notes:

- 1. Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB / 19.4°C WB;
- Heating capacity test condition (2): Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°C WB;
- 2. Units are suitable for operation to $\pm 20\%$ of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a positon 1 meter in front of the unit and (1 meter+Height of unit)/2 above the floor.
- 4. Specifications are subject to change without prior notice for product improvement.
- 5. * Nominal ton only for reference.
- 6. Cooling or heating capacity as per specifications.

Specifications

Heat pump, 380-415V 3N~ 50Hz

15RT 17.5RT & 20RT





25RT & 30RT

Nominal ton*			15	17.5	20	25	30
Model		MRC-150HWN1-R(C)	MRC-175HWN1-R(C)	MRC-200HWN1-R(C)	MRC-250HWN1-R(C)	MRC-300HWN1-R(C)	
	Canadia	Btu/h	180,000	208,000	240,000	300,000	335,000
Cooling	Capacity	kW	53.0	61.0	70.0	88.0	98.0
	Input	kW	16.7	19.1	22.6	28.9	32.8
	EER	Btu/h.W	10.8	10.9	10.6	10.4	10.2
	Capacity	Btu/h	191,000	218,000	260,000	330,000	380,000
Llasting	Capacity	kW	56.0	64.0	76.2	97.0	111.5
Heating	Input	kW	17.2	19.5	23.6	30.3	36.5
	COP	Btu/h.W	11.1	11.2	11.0	10.9	10.4
Air flow	Indoor side	CFM	7,000	7,600	8,800	10,000	11,200
External static pr	ressure	Pa	Default: 110; 0 - 325	Default: 110; 0 - 250	Default: 120; 0 - 375	Default: 130; 0 - 350	Default: 270; 25 - 400
Max. power input kW		kW	25.0	27.0	32.5	38.5	49.5
Max. current A		46.1	55.4	63.2	74.3	81.7	
-	Type / Quantity	Type / Quantity		Scroll / 2	Scroll / 2	Scroll / 2	Scroll / 2
Compressor	Brand		Copeland	Copeland	Copeland	Danfoss	Danfoss
Indoor fan	Type / Drive type		Centrifugal / Belt				
Outdoor fan	Type / Drive type		Axial / Direct				
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized cont	troller (Optional)		Yes	Yes	Yes	Yes	Yes
	Туре	/	R410A	R410A	R410A	R410A	R410A
D. C	Control	/	Throttle valve	Throttle valve	Throttle valve	Capillary	Capillary
Refrigerant	Charged	kg	6.1+3.0	5.8+5.8	6.9+6.9	8.7+8.7	10+10
	Charged	Ibs	13.42+6.6	12.76+12.76	15.18+15.18	19.14+19.14	22+22
Sound pressure level dB(A)		dB(A)	76.9	76.0	75.3	76.8	77.9
Ambient	Cooling		10°C - 46°C				
temperature	Heating		-9°C - 24°C				
Dimension	Net (W×H×D)	mm	1,965×1,230×1,130	1,670×1,247×2,192	1,670×1,247×2,192	2,320×1,245×2,220	2,320×1,245×2,220
Dimension	Packing (W×H×D)	mm	1,995×1,255×1,160	1,695×1,284×2,212	1,695×1,284×2,212	2,330×1,275×2,230	2,330×1,275×2,230
Weight	Net / Gross	kg	492/512	615/645	690/720	940/970	970/1000

Notes

- $1. Cooling \ capacity \ test \ condition \ (1): Outdoor \ ambient \ temperature: 35 ^\circ C, indoor \ temperature \ 26.7 ^\circ C \ DB \ / \ 19.4 ^\circ C \ WB;$
- $Heating \ capacity \ test \ condition \ (2): Outdoor \ ambient \ temperature: 7^{\circ}C \ DB / 6^{\circ}C \ WB, indoor \ temperature \ 20^{\circ}C \ DB / 15^{\circ}C \ WB;$
- 2. Units are suitable for operation to $\pm 20\%$ of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a positon 1 meter in front of the unit and (1 meter+Height of unit)/2 above the floor.
- ${\it 4. Specifications are subject to change without prior notice for product improvement.}\\$
- 5. * Nominal ton only for reference.
- 6. Cooling or heating capacity as per specifications.

Specifications

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Cooling only, 380-415V 3N~ 50Hz

6.2RT & 7.5RT



Nominal ton*			6.2	7.5	
Model	Model		MRCT-062CWN1-R(C)	MRCT-075CWN1-R(C)	
	Caracity (1)	Btu/h	75,000	89,000	
	Capacity (1)	kW	22.0	26.0	
	Input (1)	kW	6.6	7.9	
C 1:	EER (1)	Btu/h.W	11.4	11.3	
Cooling	C (2)	Btu/h	61,400	69,600	
	Capacity (2)	kW	18.0	20.4	
	Input (2)	kW	7.8	9.0	
	EER (2)	Btu/h.W	7.9	7.8	
Air flow	Indoor side	CFM	2,800	2,830	
External pressur	re level	Pa	Default: 80; 0 - 250	Default: 80; 0 - 250	
Max. power input		kW	9.0	13.6	
Max. current		А	19.3	27.2	
-	Type / Quantity		Scroll / 1	Scroll / 1	
Compressor	Brand		Copeland	Danfoss	
Indoor fan			Centrifugal / Direct	Centrifugal / Direct	
Outdoor fan	Type / Drive type	Axial / Direct		Axial / Direct	
Wired controlle	r	KJR-25B		KJR-25B	
Centralized con	ntroller (Optional)		Yes	Yes	
	Туре	/	R410A	R410A	
Refrigerant	Control	/	Throttle valve	Throttle valve	
nemgerane	Charged	kg	4	3.7	
	Charged	lbs	8.8	8.14	
Sound pressure level dB(A)		dB(A)	71.0	71.5	
Ambient temperature			10°C - 52°C	10°C - 52°C	
Dimanaian	Net (W×H×D)	mm	1,475×840×1,130	1,475×840×1,130	
Dimension	Packing (W×H×D)	mm	1,495×870×1,150	1,495×870×1,150	
Weight	Net / Gross	kg	223/228	231/236	

- 1. Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB / 19.4°C WB;
- Cooling capacity test condition (2): Outdoor ambient temperature: 46.1 °C, indoor temperature 26.7 °C DB / 19.4 °C WB;
- 2. Units are suitable for operation to ±20% of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a positon 1 meter in front of the unit and (1 meter+Height of unit)/2 above the floor.
- 4. Specifications are subject to change without prior notice for product improvement.
- 5. * Nominal ton only for reference.
- 6. Cooling capacity as per specifications.

Specifications

Cooling only, 380-415V 3N~ 50Hz

8.5RT & 10RT







Nominal ton*			8.5	10	12.5	15	
Model		MRCT-085CWN1-R(D)	MRCT-100CWN1-R(D)	MRCT-125CWN1-R(C)	MRCT-150CWN1-R(C)		
	Capacity (1)	Btu/h	102,000	120,000	150,000	180,000	
	Capacity (1)	kW	30.0	35.0	44.0	53.0	
	Input (1)	kW	9.2	10.7	13.3	16.7	
Caaliaa	EER (1)	Btu/h.W	11.1	11.2	11.3	10.8	
Cooling	Cit (2)	Btu/h	80,700	100,200	125,400	146,000	
	Capacity (2)	kW	23.7	29.4	36.8	42.8	
	Input (2)	kW	10.3	12.6	16.1	18.7	
	EER (2)	Btu/h.W	7.9	8.0	7.8	7.8	
Air flow	Indoor side	CFM	3,500	4,100	5,500	7,000	
External static p	ressure	Pa	Default: 80; 0 - 200	Default: 90; 0 - 250	Default: 110; 0 - 275	Default: 110; 0 - 325	
Max. power input kW		14.8	18.0	21.0	25.0		
Max. current A		29.2	34.1	41.2	48.0		
C	Type / Quantity	Scroll / 1		Scroll / 1	Scroll / 2	Scroll / 2	
Compressor	Brand		Copeland	Copeland	Copeland	Copeland	
Indoor fan	Type / Drive type		Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt	
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct	Axial / Direct	
Wired controller	r		KJR-25B	KJR-25B	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	
Centralized cont	troller (Optional)		Yes	Yes	Yes	Yes	
	Туре	/	R410A	R410A	R410A	R410A	
Refrigerant	Control	/	Throttle valve	Capillary	Throttle valve	Throttle valve	
nemgerani	Charged	kg	4.2	4.6	2.8+1.7	4.9+2.25	
	Chargeu	lbs	9.24	10.12	6.16+3.74	10.78+4.95	
Sound pressure level dB(A)		dB(A)	71.7	72.4	71.8	75.5	
Ambient tempe	erature		10°C - 52°C	10°C - 52°C	10°C - 52°C	10°C - 52°C	
Dimension	Net (W×H×D)	mm	1,483×1,231×1,138	1,483×1,231×1,138	1,965×1,230×1,130	1,965×1,230×1,130	
DITTETISION	Packing (W×H×D)	mm	1,500×1,255×1,155	1,500×1,255×1,155	1,995×1,255×1,160	1,995×1,255×1,160	
Weight	Net / Gross	kg	302/313	323/335	433/453	470/490	

- $1. Cooling \ capacity \ test \ condition \ (1): Outdoor \ ambient \ temperature: 35^{\circ}C, indoor \ temperature \ 26.7^{\circ}C \ DB \ / \ 19.4^{\circ}C \ WB;$
- Cooling capacity test condition (2): Outdoor ambient temperature: 46.1°C , indoor temperature 26.7°C DB / 19.4°C WB ;
- 2. Units are suitable for operation to ±20% of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a position 1 meter in front of the unit and (1 meter+Height of unit)/2 above the floor.
- 4. Specifications are subject to change without prior notice for product improvement.
- 5. * Nominal ton only for reference.
- 6. Cooling capacity as per specifications.

Specifications

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Cooling only, 380-415V 3N~ 50Hz

17.5RT & 20RT

25RT & 30RT





Nominal ton*	Nominal ton*		17.5	20	25	30
Model	Model		MRCT-175CWN1-R(C)	MRCT-200CWN1-R(C)	MRCT-250CWN1-R(C)	MRCT-300CWN1-R(C)
Capacity (1)		Btu/h	208,000	240,000	300,000	360,000
-	Capacity (1)	kW	61.0	70.0	87.0	105.0
	Input (1)	kW	19.1	22.6	28.0	34.3
	EER (1)	Btu/h.W	10.9	10.6	10.7	10.5
Cooling	Canacity (2)	Btu/h	181,100	199,200	251,700	336,300
	Capacity (2)	kW	53.1	58.4	73.8	98.6
	Input (2)	kW	22.6	25.1	32.0	41.8
	EER (2)	Btu/h.W	8.0	7.9	7.9	8.0
Air flow	Indoor side	CFM	7,600	8,800	10,000	12,000
External static p	pressure	Pa	Default: 110; 0 - 250	Default: 120; 0 - 375	Default: 130; 0 - 350	Default: 270; 0 - 400
Max. power inp	out	kW	26.5	33.0	40.5	49.5
Max. current	Max. current A		55.0	66.9	77.4	94.1
C			Scroll / 2	Scroll / 2	Scroll / 2	Scroll / 2
Compressor Brand			Copeland	Copeland	Danfoss	Danfoss
Indoor fan	Type / Drive type		Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct	Axial / Direct
Wired controlle	r		KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized cor	ntroller		Yes	Yes	Yes	Yes
	Туре	/	R410A	R410A	R410A	R410A
Define	Control	/	Throttle valve	Throttle valve	Capillary	Capillary
Refrigerant	Charged	kg	3.7+3.7	5.65+5.65	6+6	7.6+7.6
	Charged	Ibs	8.14+8.14	12.43+12.43	13.2+13.2	16.72+16.72
Sound pressure	e level	dB(A)	75.0	75.3	76.8	77.9
Ambient temperature		10°C - 52°C	10°C - 52°C	10°C - 52°C	10°C - 52°C	
Net (W×H×D)		mm	1,670×1,247×2,192	1,670×1,247×2,192	2,320×1,245×2,220	2,320×1,245×2,220
Dimension	Packing (W×H×D)	mm	1,695×1,284×2,212	1,695×1,284×2,212	2,330×1,275×2,230	2,330×1,275×2,230
Weight	Net / Gross	kg	590/620	670/700	895/925	910/940
						I .

- 1. Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB / 19.4°C WB; Cooling capacity test condition (2): Outdoor ambient temperature: 46.1°C, indoor temperature 26.7°C DB / 19.4°C WB;
- 2. Units are suitable for operation to ±20% of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a positon 1 meter in front of the unit and (1 meter+Height of unit)/2 above the floor.
- 4. Specifications are subject to change without prior notice for product improvement.
- 5. * Nominal ton only for reference.
- 6. Cooling capacity as per specifications.

Specifications

Cooling only, 220V 3N~ 60Hz

7.5RT

10RT

15RT







Nominal ton*			7.5	10	15	
Model		MRCT-075CWN1-D(C)	MRCT-100CWN1-D(C)	MRCT-150CWN1-D(C)		
	C (1)	Btu/h	89,000	120,000	180,000	
	Capacity (1)	W	26,100	35,200	52,800	
Cooling	Input (1)	W	7,800	10,700	16,200	
	EER (1)	Btu/h.W	11.4	11.2	11.1	
Air flow	Indoor side	CFM	2,700	4,120	6,450	
External static p	pressure	Pa	Default: 80; 0 - 250	Default: 90; 0 - 250	Default: 110; 0 - 300	
Max. power inp	ut	W	11,300	17,500	25,000	
Max. current A		А	42.4	57.4	88.3	
	Type / Quantity		Scroll / 1	Scroll / 1	Scroll / 2	
Compressor	Brand		Copeland	Copeland	Copeland	
Indoor fan	Type / Drive type		Centrifugal / Direct	Centrifugal / Belt	Centrifugal / Belt	
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct	
Wired controlle	r		KJR-25B	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	
Centralized con	troller (Optional)		Yes	Yes	Yes	
	Туре	/	R410A	R410A	R410A	
Refrigerant	Control	/	Throttle valve	Throttle valve	Throttle valve	
nemgerani	Charged	kg	3.8	4.1	4.6+2.2	
Charged		lbs	8.36	9.02	10.12+4.84	
Sound pressure level dB(A)		dB(A)	75.6	75.7	76.8	
Ambient temperature			10°C - 52°C	10°C - 52°C	10°C - 52°C	
	Net (W×H×D)	mm	1,475×840×1,130	1,483×1,231×1,138	1,965×1,230×1,130	
Dimension	Packing (W×H×D)	mm	1,495×870×1,150	1,500×1,255×1,155	1,995×1,255×1,160	
Weight	Net / Gross	kg	235/240	325/335	470/485	

- 1. Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB / 19.4°C WB;
- 2. Units are suitable for operation to ±20% of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and (1 meter + height of unit)/2 above the floor.
- 4. Specifications are subject to change without prior notice for product improvement.
- 5. * Nominal ton only for reference.
- 6. Cooling capacity as per specifications.

Specifications

Specifications

Cooling only 220V 3N~ 60Hz

20RT

25&30RT





Nominal ton*			20	25	30	
Model			MRCT-200CWN1-D(C)	MRCT-250CWN1-D(C)	MRCT-300CWN1-D(C)	
Capacity (1)		Btu/h	240,000	300,000	360,000	
Cooling	Capacity (1)	W	70,300	87,900	105,500	
	Input (1)	W	21,900	27,800	36,000	
	EER (1)	Btu/h.W	11.0	10.8	10.0	
Air flow	Indoor side	CFM	8,580	11,138	11,000	
External static p	pressure	Pa	Default: 120; 0 - 375	Default: 250; 125 - 450	Default: 270; 0 - 400	
Max. power inp	out	W	36,000	45,000	45,800	
Max. current		А	124.6	150.0	148.0	
C	Type / Quantity		Scroll / 2	Scroll / 2	Scroll / 2	
Compressor Brand			Copeland	Copeland	Copeland	
Indoor fan	Type / Drive type		Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt	
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct	
Wired controlle	r		KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	
Centralized cor	ntroller (Optional)	onal) Yes		Yes	Yes	
	Туре	/	R410A	R410A	R410A	
0.6	Control	/	Throttle valve	Capillary	Capillary	
Refrigerant		kg	5.4+5.4	6.7+6.7	10+10	
Charged		lbs	11.88+11.88	14.74+14.74	22+22	
Sound pressure level dB(A)		dB(A)	78.3	79.2	79.6	
Ambient temperature			10°C - 52°C	10°C - 52°C	10°C - 52°C	
D:i	Net (W×H×D)	mm	1,670×1,247×2,192	2,320×1,245×2,220	2,220x1,245x2,320	
Dimension	Packing (W×H×D)	mm	1,695×1,284×2,212	2,330×1,275×2,230	2,230x1,275x2,330	
Weight	Net / Gross	kg	670/700	895/925	940/970	

- 1. Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB / 19.4°C WB;
- 2. Units are suitable for operation to ±20% of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and (1 meter + height of unit)/2 above the floor.
- 4. Specifications are subject to change without prior notice for product improvement.
- 5. * Nominal ton only for reference.
- 6. Cooling capacity as per specifications.

Specifications

Cooling only 460V 3N~ 60Hz

20RT

25&30RT





Nominal ton			20	25	30
Power supply Model		460V 3N~60Hz	460V 3N~60Hz	460V 3N~60Hz	
		MRCT-200CWN1-Z(C)	MRCT-250CWN1-Z(C)	MRCT-300CWN1-Z(C)	
	Capacity(1)	Btu/h	240,000	300,000	360,000
Cooling	Capacity(1)	kW	70.0	87.0	105.5
	Input(1)	kW	22.1	28	36
	EER(1)	Btu/h.W	11.0	10.8	10.0
Air flow	Indoor side	CFM	8,300@120Pa	11,500@130Pa	11,000@270pa
External static pressu	re	Pa	Default: 120; 0 - 375	Default: 250; 125 - 450	Default: 270; 0 - 400
Max. input consumpt	tion	kW	32.5	40.9	46.8
Max. current		A	53.2	65.6	76
Compressor	Туре		Scroll	Scroll	Scroll
Compressor Quantity			2	2	2
	Type / Drive type		Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt
ndoor fan	Quantity		Centrifugal / Belt 1 1 Axial / Direct Axial / Direct	1	1
Type / Drive type			Axial / Direct	Axial / Direct	Axial / Direct
Outdoor fan	Quantity		2	2	2
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller	r (Optional)		Yes	Yes	Yes
	Туре	/	R410A	R410A	R410A
	Control	/	Throttle valve	Capillary	Capillary
Refrigerant		kg	6.9+6.9	8.7+8.7	10+10
	Charged	lbs	15.18+15.18	19.14+19.14	22+22
Sound pressure level dB(A)		dB(A)	78.3	79.2	79.6
Ambient temperature			10°C - 52°C	10°C - 52°C	10°C - 52°C
· · · · · · · · · · · · · · · · · · ·	Net (W×H×D)	mm	2,192x1,247x1,670	2,220x1,245x2,320	2,220x1,245x2,320
Dimension	Packing (W×H×D)	mm	2,212x1,284x1,695	2,230x1,275x2,330	2,230x1,275x2,330
Weight	Net / Gross	kg	670/700	895/925	940/970

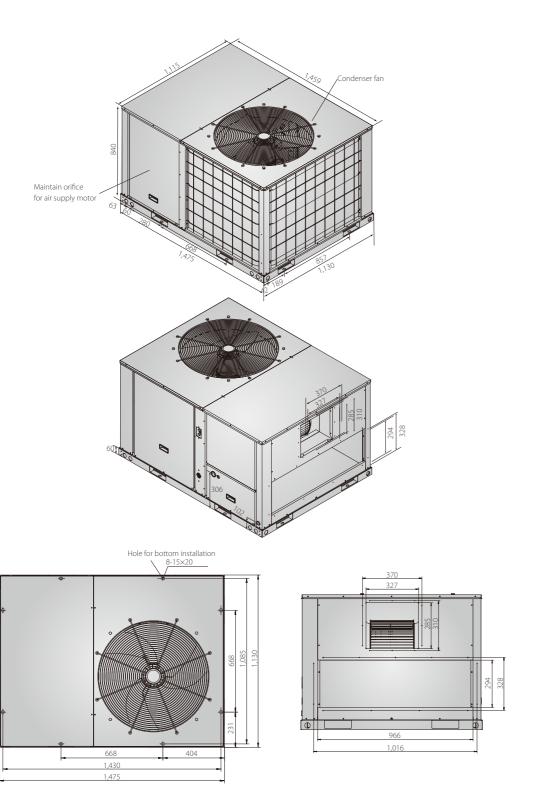
- 1. Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB / 19.4°C WB;
- 2. Units are suitable for operation to $\pm 20\%$ of nominal CFM;
- 3. Sound values are measured in a semi-anechoic room, at a position 1 m in front of the unit and (1 meter + height of unit)/2 above the floor.
- 4. Specifications are subject to change without prior notice for product improvement.
- 5. * Nominal ton only for reference.
- 6. Cooling capacity as per specifications.

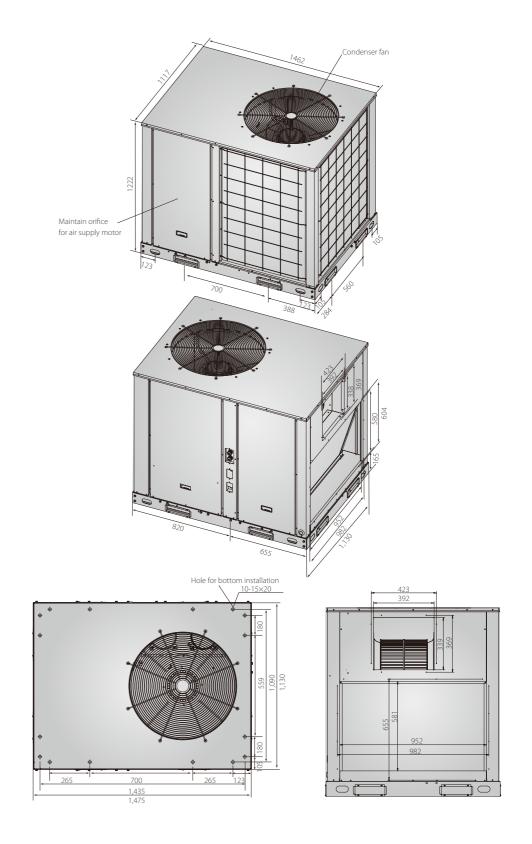
Dimensions

26

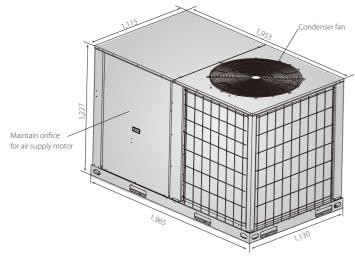
6.2RT & 7.5RT (Units: mm)

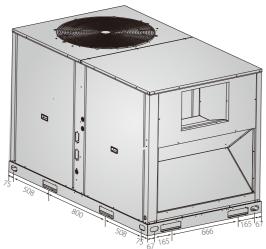
8.5RT & 10RT (Units: mm)

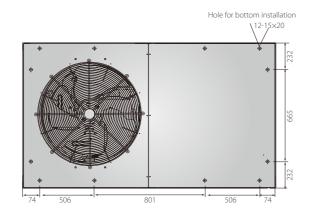


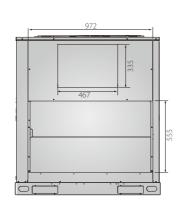


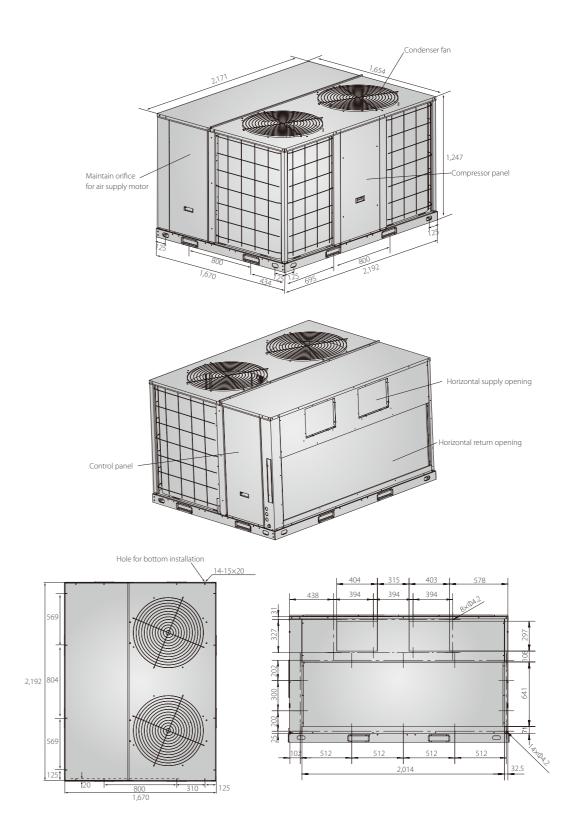
Dimensions

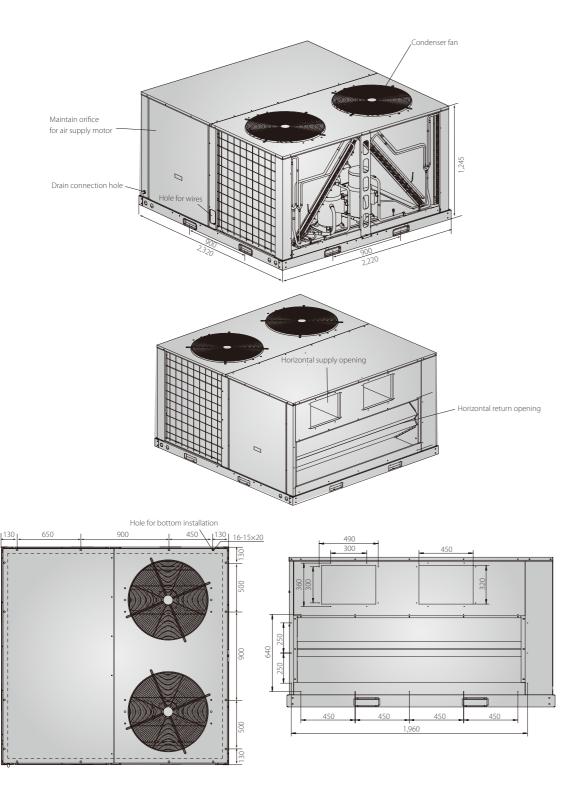














Model KJB-25B KJB-29B KJR-90K KJB-12B Touch key Button key Button key Touch key Key type On / Off Mode selection 1°C steps 1°C steps 1°C steps 1°C steps Temperature setting Fan mode selection Follow me Eco mode X Room temperature display °F/°C display Daily timer Keyboard lock Background light Bi-directional communication Clean filter reminder Language English English English English Error check function X X System parameter querying X X Dimensions (WxHxD) (mm) 86x86x18 120x120x20 140x95x30 120x120x20 18V DC 5V DC AC24V 5V DC Power supply

: equipped as standard; ×: without this function

The optional wired controllers to each unit refering to electrical wiring diagram.

Central controller



- . Central control function. It is a multifunctional device which is able to control up to 64 units.
- * The control object can be either single or all, making the controlling operation convenient. It also easy to check all units status.



Note: MRCT-050CWN1-R(G) does not need to connect MD-NIM01, CCM30 directly connected to the PCB port can realize the centralized control function.

* Two structures of centralized central design, easy installation.

