

2R202407



Rooftop Package

5-30 Ton Desert Series

Midea Building Technologies Division Midea Group

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mbt.midea.com/global www.midea-group.com ics.midea.com

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2024

MAKE A BEAUTIFUL TOMORROW

Midea MBT

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 Chongqing: 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

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 world.

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



Midea Global Spare Parts Center

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.

The “**2** (HQ Spare parts center) + **10** (Regional Spare parts center) + **N** (Country Spare parts inventory)” Spare Parts Layout can ensure the timely supply of global after-sales spare parts.



International Service Management (ICS)

ICS is a platform for customers to seek professional technical support. Through ICS, you can inquire about product information, documentation, spare parts and troubleshooting, ask technical questions, submit complaints, and order spare parts.

<https://ics.midea.com>



My order

Inquire about spare parts from an exploded view and place orders for spare parts directly in ICS.

Document inquiry and download

View or download product technical documentation online, such as catalogs, images, training PPTs, etc.

Technical inquiry & FAQ

Ask technical questions online and receive a prompt response from our technicians. Or find a quick solution in the FAQ.

Troubleshooting

Query the error code and solution by SN, model name, error code or product type.

Complain

Submit product quality complaints online, and our after-sales engineers will respond promptly.



Mobile Intelligence Service App (MISA)

MISA is the mobile terminal of ICS, with the same functions as ICS. The mobile service improves the response time and convenience of technical support.

<https://link.midea.com>



FAQ



Complain



Technical Enquiry



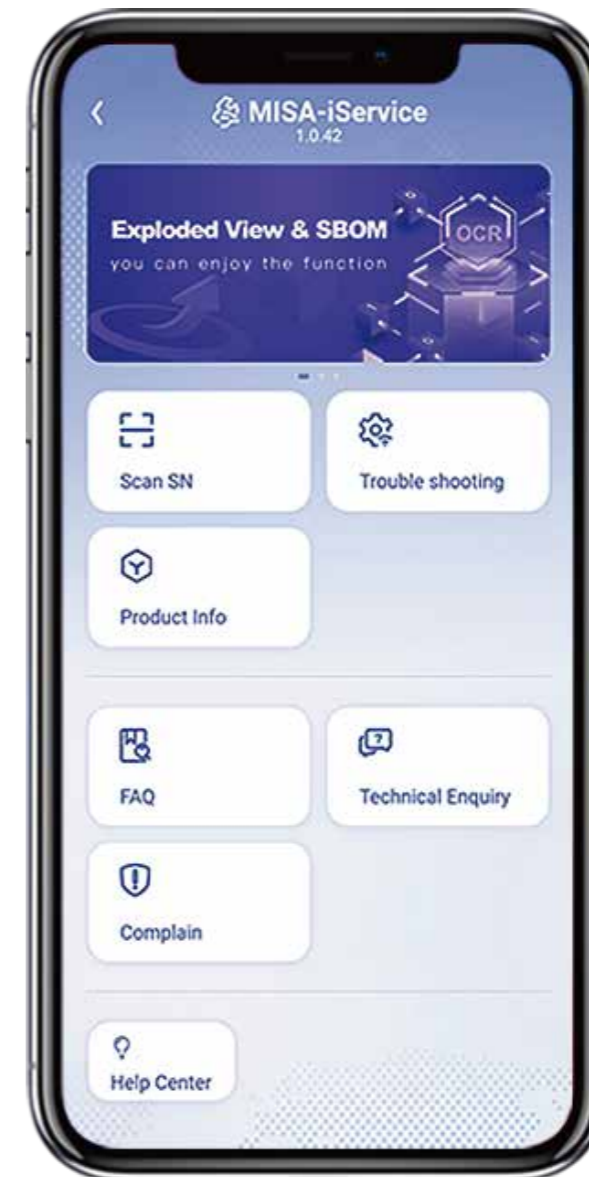
Trouble shooting



Search product manuals



Spare parts list



Download



Scan to download the mobile app

Feedback



Thank you for your attention and feedback

Contents

» 10 Product lineup

» 11 Features

» 17 Specifications

» 21 Dimensions

» 25 Controllers

Product lineup

Nominal ton*	5	6.25	7.5	10	12.5	15	20	25	30
	●								
		●	●						
				●	●	●			
							●	●	●

Notes:
 1. * Nominal ton only for reference.
 2. ● means cooling type product.
 3. Cooling capacity as per specifications.



Features

Wide application range

Easy installation

Easy maintenance

Outstanding reliability

Flexible choice of accessories



Outdoor Temperature
52°C

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 for the filter, fan motor, and electric control box.
- ❖ Provide convenient access to system components for maintenance and service.



Rotatable control box

- ❖ Rotatable control box permits easy access to the inner parts.

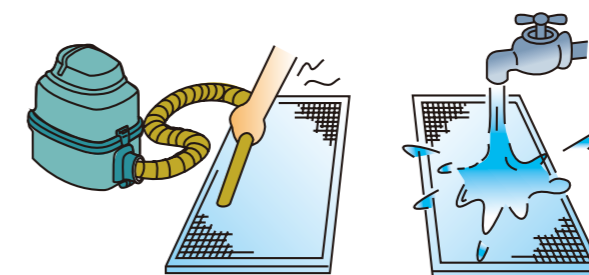


System self-diagnostic

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



Washable filter



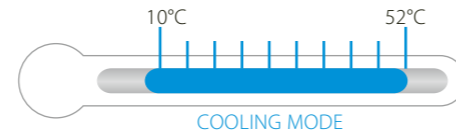
Wide application range

Wide cooling capacity range

- ❖ 9 models and cooling capacity range from 5 to 30 tons.

Wide operation range

- ❖ Desert series rooftop package units can operate stably in a wide ambient temperature range from 10°C to 52°C.



Wide static pressure range

- ❖ Adjustable pulley as standard
- ❖ The static pressure of airflow outlet can be reached to Max. 500Pa.



Design flexibility

- ❖ Horizontal 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.

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.



- ❖ Special anti-corrosion treatment of heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion.
- ❖ 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.
- ❖ All screws are anti-rust.
- ❖ Casings of the unit and motors are anti-rust.

Reliable scroll compressor

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



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



Temperature sensor

Accessories

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

Note: 5Ton unit has one-phase protector and no filter

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 construction 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 applicaitons.

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

Tropical (T3) application, 380-415V-3N~60Hz

5RT



6.25RT & 7.5RT



Nominal tons *			5	6.25	7.5
Model			MRCT-050CWN1-Y(E)	MRCT-062CWN1-Y(D)	MRCT-075CWN1-Y(D)
Power supply			208/230V~, 1Ph, 60Hz	380 - 415V~, 3Ph, 60Hz	380 - 415V~, 3Ph, 60Hz
Cooling (1)	Capacity	Btu/h	57000	75,000	840,00
		kW	16.8	22.0	24.6
	Power input	kW	4.95	6.680	7.24
		EER	Btu/h.W	11.5	11.2
Cooling (2)	Capacity	Btu/h	49,000	64,000	720,00
		kW	14.1	18.8	21.1
	Power input	kW	6.12	8.100	8.67
		EER	Btu/h.W	8.0	7.8
Air flow (Evaporator)	CFM	1910	2,200 @60Pa (0.24 in.wg.)	2800@60Pa(0.24 in.wg.)	
	l/s	901.3	1,039 @60Pa (0.24 in.wg.)	1322 @60Pa (0.24 in.wg.)	
ESP range (Standard)	Pa	0 - 175	0 - 125	0 - 150	
	in.wg.	0 - 0.7	0 - 0.5	0 - 0.6	
ESP range (Customized) (High static pressure)	Pa	/	250 - 500	250 - 500	
	in.wg.	/	1.0 - 2.0	1.0 - 2.0	
Capacity steps (Circuits)			100% - 0 (1)	100% - 0 (1)	100%-0(1)
Max. overcurrent protection			A	30	40
Compressor	Type		Scroll	Scroll	Scroll
	Quantity		1	1	1
	Brand		LG	Danfoss	Danfoss
Condenser fan	Type		Axial	Axial	Axial
	Quantity		1	1	1
	Drive type		Direct drive	Direct drive	Direct drive
	Materials		Metal	Metal	Plastic
Condenser motor insulation class			B	F	F
Condenser motor protection class			IP44	IP44	IP44
Evaporator fan	Type		Centrifugal fan	Centrifugal	Centrifugal
	Quantity		1	1	1
	Drive type		Direct drive	Belt, adjustable	Belt, adjustable
	Materials		Metal	Metal	Metal
Condenser / Evaporator			Hydrophilic aluminum fin / Inner grooved copper pipe		
Sound pressure level		dB(A)	63.4	74.5	78
Refrigerant	Type		R410A	R410A	R410A
	Control		Orifice	Throttle valve	Throttle valve
	Charged	kg	2.84	6.8	7.4
lbs		6lbs, 4oz	14.99	16.31	
EHK power input	Option 1	kW	15	10	20
	Option 2	kW	20	14	24
Thermostat			/	KJR-29B/BK-E	
Centralized controller (Customized)			Yes	Yes	Yes
Ambient temperature	°C		13 - 52	10 - 52	10 - 52
	°F		55.4 - 125.6	50 - 125.6	50 - 125.6
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
Filter	Quantity		/	2	1
	Type		Nylon, washable	Nylon, washable	Nylon, washable
	Size	mm		/	(1,050 × 500 × 12)×2
inch			/	(44-3/8 × 19-3/4 × 1/2)×2	(1,050 × 500 × 12)×2
Net dimension (W × H × D)	mm		1,068 × 840 × 1,486	1,965 × 1,230 × 1,130	1,965 × 1,230 × 1,130
	inch		58-1/2×42-1/16×33-1/16	77-3/8 × 48-1/2 × 44-1/2	77-3/8 × 48-1/2 × 44-1/2
Packing dimension (W × H × D)	mm		1075×865×1505	1,975 × 1,265 × 1,145	1,975 × 1,265 × 1,145
	inch		42-5/16×34×59/1/4	77-3/4 × 49-7/8 × 45	77-3/4 × 49-7/8 × 45
Net / Gross weight	kg		207	360 / 390	370 / 390
	lbs		456	794 / 860	816 / 860
Loading	20' / 40'HQ	Pcs	5/24	5 / 24	5/24

Notes:

- *: Nominal ton is only for reference, cooling capacity as per specifications.
- #: Please contact with Midea sales team, when adjust the fan speed of 5 ton unit.
- 1. Cooling (1) test condition: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB, outdoor temperature 35°C (95°F).
- 2. Cooling (2) test condition: Indoor temperature 29°C (84.2°F) DB/19°C (66.2°F) WB, outdoor temperature 46°C (114.8°F).
- 3. Units are suitable for operation to ±20% of nominal air flow.
- 4. EHK means Electric Heater Kit. Only one EHK can be fixed per unit. PBT + 30%GF means Polybutylene Terephthalate + 30% Glass Fiber.
- 5. Sound pressure values are measured in a semi-anechoic room, at a position 1m front of the unit and 'H/2 + 0.5m' above the floor (H for unit's height).
- 6. Specifications are subject to change without prior notice for product improvement.

Specifications

Tropical (T3) application, 380-415V-3N~60Hz

10&12.5&15RT



Nominal tons *			10	12.5	15
Model			MRCT-100CWN1-Y(D)	MRCT-125CWN1-Y(D)	MRCT-150CWN1-Y(D)
Power supply			380 - 415V~, 3Ph, 60Hz	380 - 415V~, 3Ph, 60Hz	380 - 415V, 3Ph~, 60Hz
Cooling (1)	Capacity	Btu/h	124,00	156,000	166,000
		kW	36.3	45.7	48.4
	Power input	kW	11.071	14.180	15,100
		EER	Btu/h.W	11.2	11.0
Cooling (2)	Capacity	Btu/h	107,000	134,000	140,000
		kW	31.4	39.3	41
	Power input	kW	13.300	17.100	17,500
		EER	Btu/h.W	8.0	7.9
Air flow (Evaporator)	CFM	3,800 @70Pa (0.28 in.wg.)	4,200 @90Pa (0.36 in.wg.)	4712@90Pa(0.36 in.wg.)	
	l/s	1,794 @70Pa (0.28 in.wg.)	1,983 @90Pa (0.36 in.wg.)	2223@90Pa(0.36 in.wg.)	
ESP range (Standard)	Pa	0 - 200	0 - 225	0-255	
	in.wg.	0 - 0.8	0 - 0.9	0-0.9	
ESP range (Customized) (High static pressure)	Pa	250 - 500	200 - 500	200-500	
	in.wg.	1.0 - 2.0	0.8 - 2.0	0.8-2.0	
Capacity steps (Circuits)			100% - 50% - 0 (2)	100% - 50% - 0 (2)	100% - 50% - 0 (2)
Max. overcurrent protection			A	60	70
Compressor	Type	Scroll	Scroll	Scroll	
	Quantity	2	2	2	
	Brand	Copeland	Danfoss	Danfoss	
Condenser fan	Type	Axial	Axial	Axial	
	Quantity	2	2	2	
	Drive type	Direct drive	Direct drive	Direct	
	Materials	Metal	Metal	Metal	
Condenser motor insulation class			F	F	F
Condenser motor protection class			IP44	IP44	IP44
Evaporator fan	Type	Centrifugal	Centrifugal	Centrifugal	
	Quantity	1	1	1	
	Drive type	Belt, adjustable	Belt, adjustable	Belt drives	
	Materials	Metal	Metal	Metal	
Condenser / Evaporator			Hydrophilic aluminum fin / Inner grooved copper pipe		
Sound pressure level			dB(A)	72.0	78.0
Refrigerant	Type	R410A	R410A	R410A	
	Control	Throttle valve	Throttle valve	Throttle valve	
	Charged	kg	6.4 + 6.4	6.8 + 6.8	7.5+6.9
lbs		14.11 + 14.11	14.99 + 14.99	16.53+15.21	
EHK power input	Option 1	kW	20	20	/
	Option 2	kW	24	28	/
Thermostat			KJR-29B/BK-E(JCB)	KJR-29B/BK-E(JCB)	KJR-29B/BK-E
Centralized controller (Customized)			Yes	Yes	Yes
Ambient temperature	°C	10 - 52	10 - 52	10 - 52	
	°F	50 - 125.6	50 - 125.6	50 - 125.6	
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
Filter	Quantity	3	3	3	
	Type	Nylon, washable	Nylon, washable	Nylon, washable	
	Size	mm	(1,040 × 575 × 12)×3	(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	(41 × 22-5/8 × 1/2)×3	
Net dimension (W × H × D)	mm	2,230 × 1,255 × 1,965	2,230 × 1,255 × 1,965	2230×1255×1965	
	inch	87-7/8 × 49-3/8 × 77-3/8	87-7/8 × 49-3/8 × 77-3/8	87-7/8 × 49-3/8 × 77-3/8	
Packing dimension (W × H × D)	mm	2,250 × 1,290 × 1,980	2,240 × 1,290 × 1,980	2240×1290×1980	
	inch	88-5/8 × 50-3/4 × 78	88-1/4 × 50-3/4 × 78	88-1/4 × 50-3/4 × 78	
Net / Gross weight	kg	615 / 650	660 / 695	660/715	
	lbs	1,356 / 1,433	1,455 / 1,533	1455/1576	
Loading			20' / 40'HQ	Pcs	3 / 12

Notes:

- *: Nominal ton is only for reference, cooling capacity as per specifications.
- #. Please contact with Midea sales team, when adjust the fan speed of 5 ton unit.
- 1. Cooling (1) test condition: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB, outdoor temperature 35°C (95°F).
- 2. Cooling (2) test condition: Indoor temperature 29°C (84.2°F) DB/19°C (66.2°F) WB, outdoor temperature 46°C (114.8°F).
- 3. Units are suitable for operation to ±20% of nominal air flow.
- 4. EHK means Electric Heater Kit. Only one EHK can be fixed per unit. PBT + 30%GF means Polybutylene Terephthalate + 30% Glass Fiber.
- 5. Sound pressure values are measured in a semi-anechoic room, at a position 1m front of the unit and 'H/2 + 0.5m' above the floor (H for unit's height).
- 6. Specifications are subject to change without prior notice for product improvement.

Specifications

Tropical (T3) application, 380-415V-3N~60Hz

20 & 25 & 30 RT



Nominal tons *			20	25	30
Model			MRCT-200CWN1-Y(D)	MRCT-250CWN1-Y(D)	MRCT-300CWN1-Y(D)
Power Supply			\	380 - 415V, 3Ph~, 60Hz	380-415V-3N~60Hz
Cooling (1)	Cooling Capacity	Btu/h	266,000	282,000	302,000
		kW	73.8	82.6	88.5
	Power Input	W	23,750	28,200	30.2
		EER	Btu/h.W	11.2	10.0
Cooling (2)	Cooling Capacity	Btu/h	223,000	248,000	264,000
		kW	65.3	72.7	77.4
	Power Input	W	27,950	34,100	37.2
		EER	Btu/h.W	8.0	7.2
Air flow (Evaporator)	CFM	7407@110Pa(0.44 in.wg.)	10,000 @110Pa (0.44 in.wg.)	11,150 @110Pa (0.44 in.wg.)	
	l/s	3494@110Pa(0.44 in.wg.)	4,722 @110Pa (0.44 in.wg.)	5,265 @110Pa (0.44 in.wg.)	
ESP range (Standard)	Pa	0 - 300	0 - 300	200 - 475	
	in.wg.	0 - 1.2	0 - 1.2	0.8 - 1.9	
ESP range (Customized) (High static pressure)	Pa	200-500	200 - 500	/	
	in.wg.	0.8-2.0	0.8 - 2.0	/	
Capacity steps (Circuits)			100% - 50% - 0 (2)	100% - 50% - 0 (2)	100% - 50% - 0 (2)
Max. overcurrent protection			A	90	90
Compressor	Type	Scroll	Scroll	Scroll	
	Quantity	2	2	2	
	Brand	Danfoss	Danfoss	Danfoss	
Condenser Fan	Type	Axial	Axial	Axial	
	Quantity	2	2	2	
	Drive type	Direct	Direct drive	Direct drive	
	Material	PBTG30	PBT + 30% GF	PBT + 30% GF	
Condenser motor insulation class			F	F	F
Condenser motor protection class			IP44	IP44	IP44
Evaporator fan	Type	Centrifugal	Centrifugal	Centrifugal	
	Quantity	1	1	1	
	Drive type	Belt drives	Belt, adjustable	Belt, adjustable	
	Material	Metal	Metal	Metal	
Condenser / Evaporator			Hydrophilic aluminum fin / Inner grooved copper pipe		
Sound pressure level			dB(A)	79.0	79.0
Refrigerant	Type	R410A	R410A	R410A	
	Control	Throttle valve	Throttle valve	Capillary	
	Charged	kg	14+14	14.0 + 14.0	14.0 + 14.0
lbs		30.86+30.86	30.87 + 30.87	30.87 + 30.87	
EHK power input	Option 1	kW	/	28	28
	Option 2	kW	/	36	36
Thermostat			KJR-29B/BK-E	KJR-29B/BK-E	KJR-29B/BK-E
Centralized controller (Customized)			Yes	Yes	Yes
Ambient temperature	°C	10 - 52	10 - 52	10 - 52	
	°F	50 - 125.6	50 - 125.6	50 - 125.6	
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
Filter	Quantity	3	3	3	
	Type	Nylon, washable	Nylon, washable	Nylon, washable	
	Size	mm	(1,420 × 640 × 12.5)×3	(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	(55-7/8 × 25-1/4 × 1/2)×3	
Net Dimensions (W×H×D)	mm	2,885 × 1,655 × 2,230	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	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	2,895 × 1,690 × 2,230	
	inch	114 × 66-1/2 × 87-7/8	114 × 66-1/2 × 87-7/8	114 × 66-1/2 × 87-7/8	
Net / Gross weight	kg	1177/1257	1,180 / 1,260	1,180 / 1,260	
	lbs	2594/2771	2,602 / 2,778	2,602 / 2,778	
Loading			20' / 40'HQ	Pcs	2/4

Notes:

- *: Nominal ton is only for reference, cooling capacity as per specifications.
- #. Please contact with Midea sales team, when adjust the fan speed of 5 ton unit.
- 1. Cooling (1) test condition: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB, outdoor temperature 35°C (95°F).
- 2. Cooling (2) test condition: Indoor temperature 29°C (84.2°F) DB/19°C (66.2°F) WB, outdoor temperature 46°C (114.8°F).
- 3. Units are suitable for operation to ±20% of nominal air flow.
- 4. EHK means Electric Heater Kit. Only one EHK can be fixed per unit. PBT + 30%GF means Polybutylene Terephthalate + 30% Glass Fiber.
- 5. Sound pressure values are measured in a semi-anechoic room, at a position 1m front of the unit and 'H/2 + 0.5m' above the floor (H for unit's height).
- 6. Specifications are subject to change without prior notice for product improvement.

Dimensions



5 Tons C/O Units (Hor.)
(Units:mm)

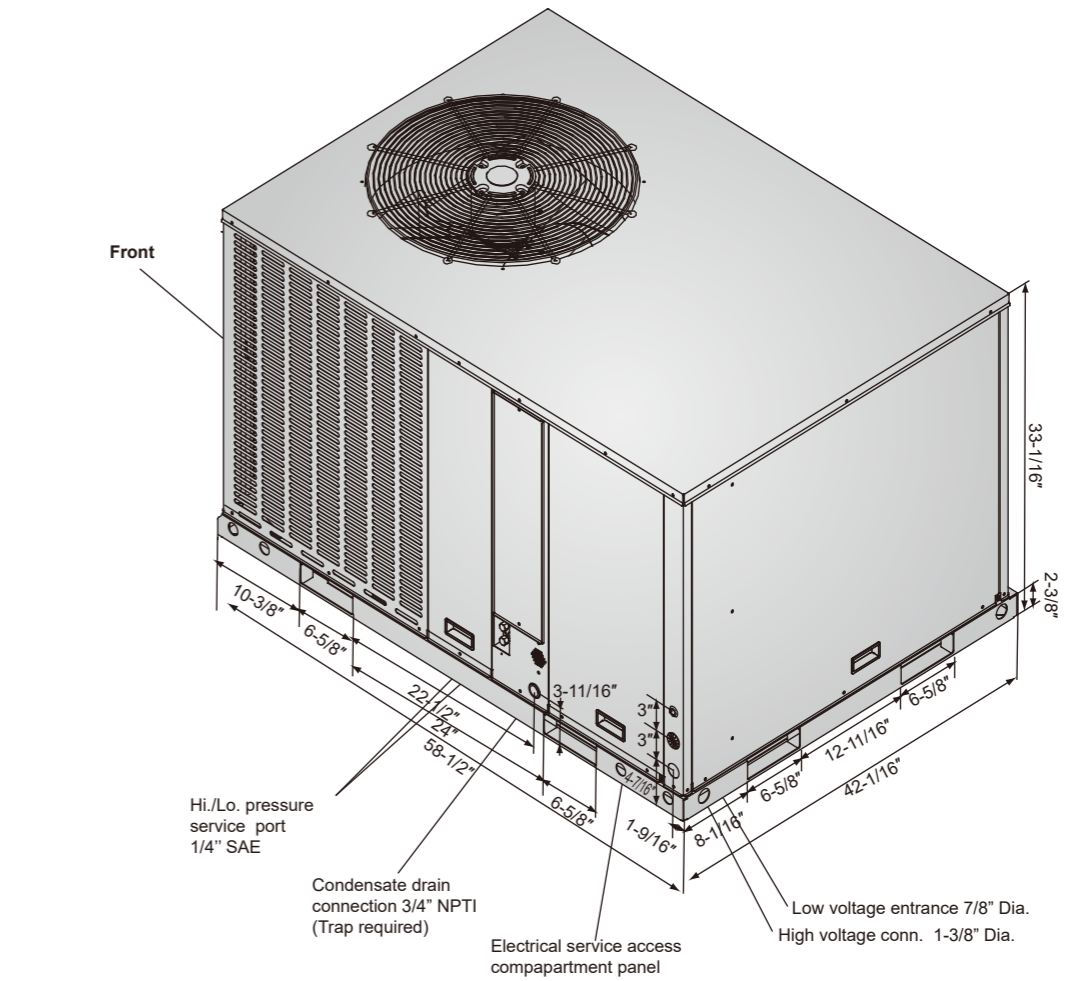


Fig. 3-1

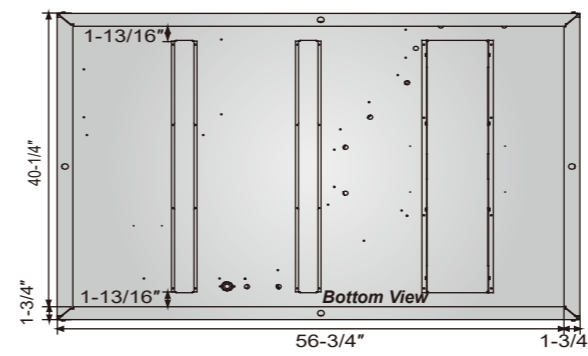


Fig. 3-2

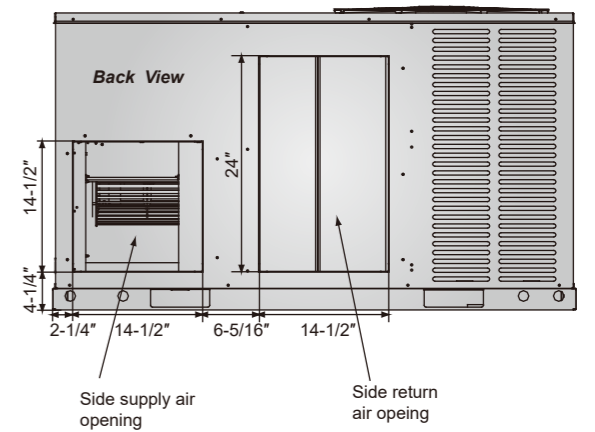
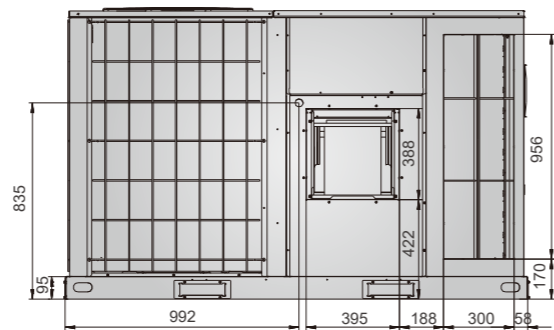
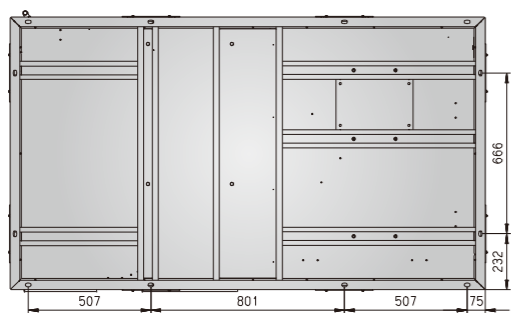
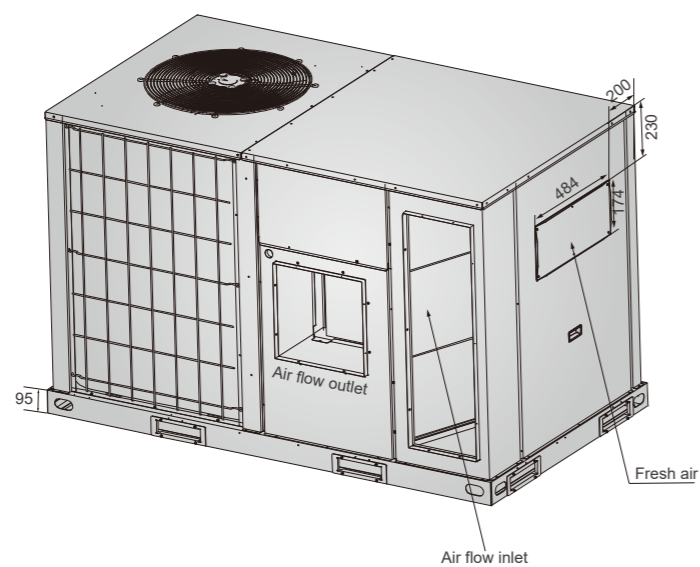
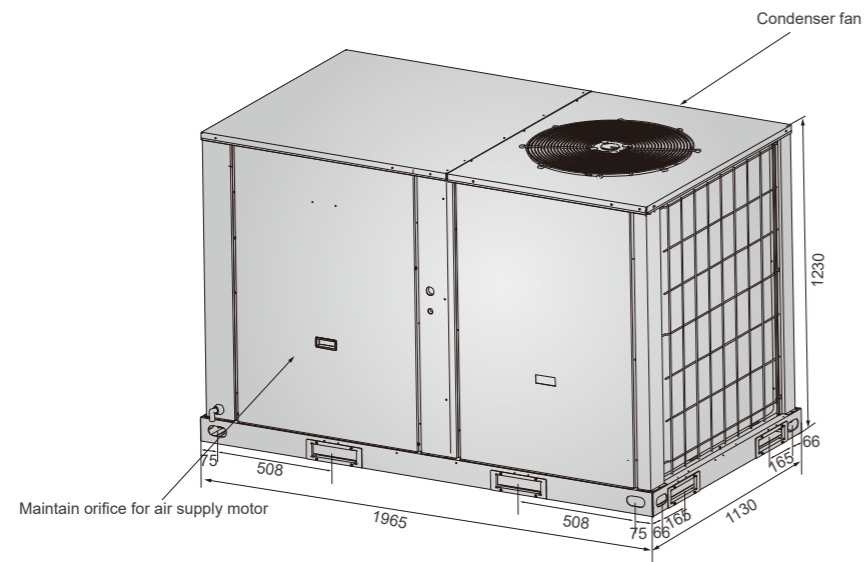
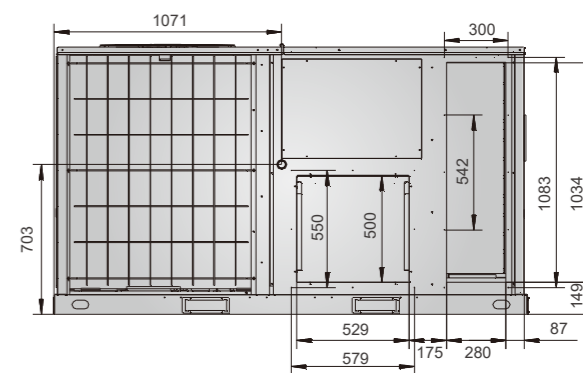
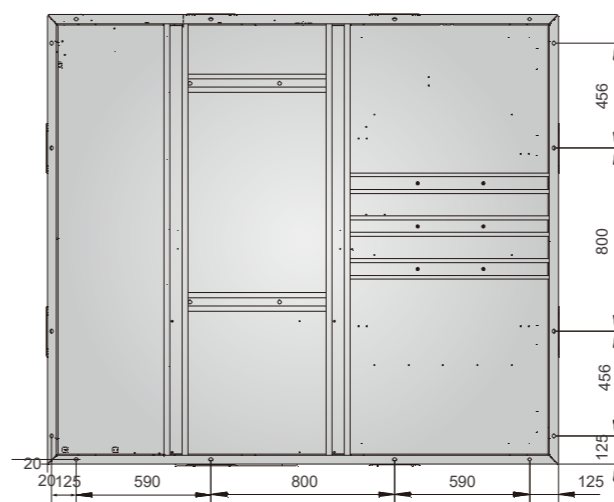
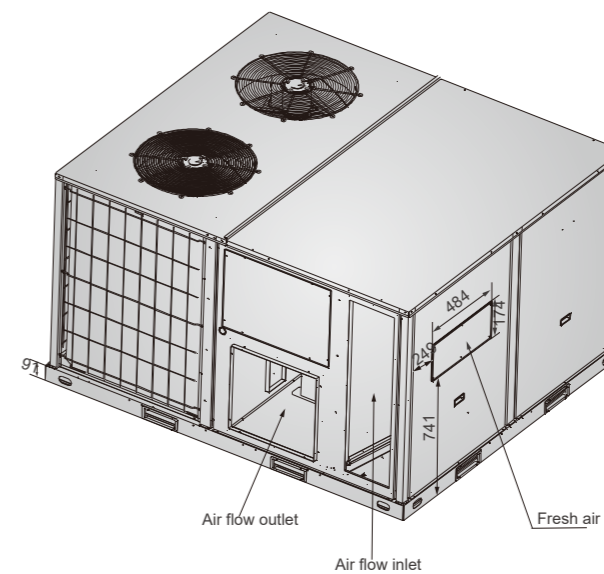
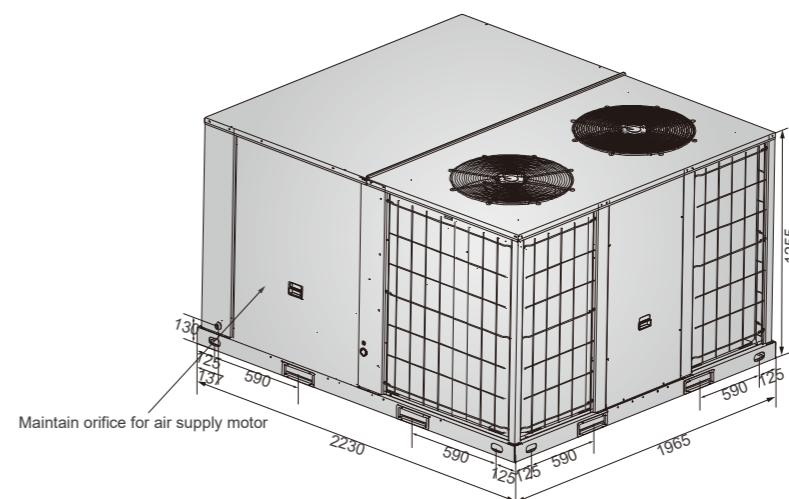


Fig. 3-3

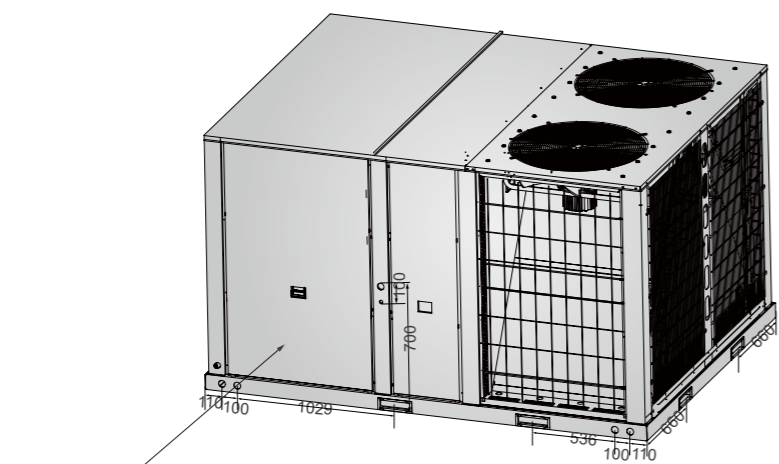
6.25RT&7.5RT
(Units:mm)



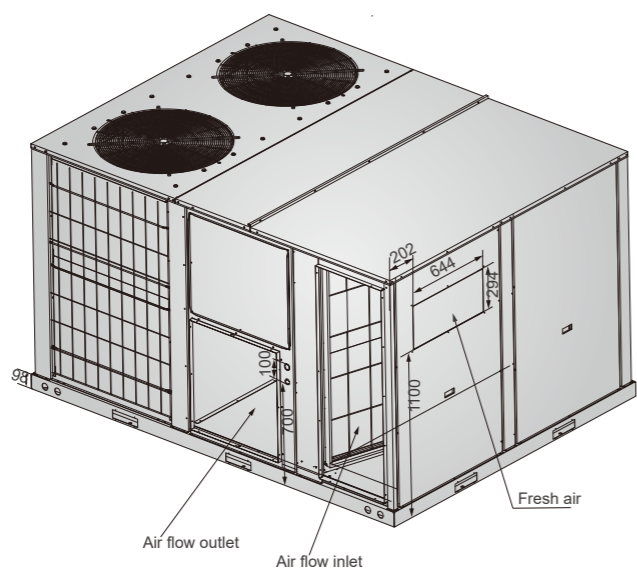
10RT&12.5RT&15RT
(Units:mm)



20RT&25RT&30RT
(Units:mm)



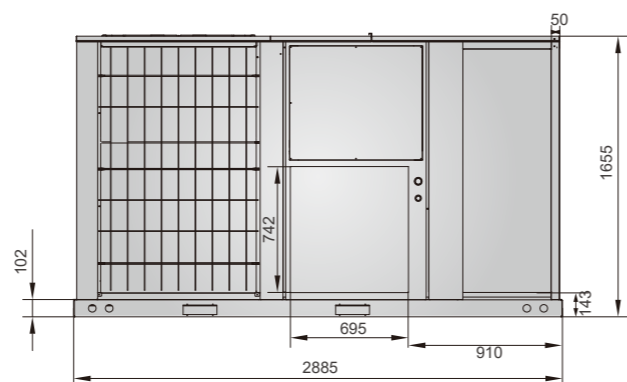
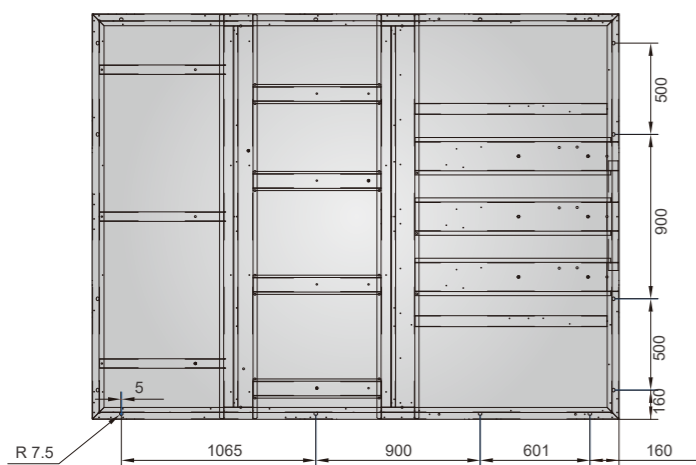
Maintain orifice for air supply motor



Air flow outlet

Air flow inlet

Fresh air



Controllers



Wired controllers

Model	 KJR-90K/BK-E	 KJR-125ABMWKS-E	 KJR-29B/BK-E
Key type	Touch key	Touch screen	Touch key
On / Off	●	●	●
Mode selection	●	●	●
Clock	x	●	●
Temperature setting	1°C	1°C	1°C
Fan mode	●	●	●
Follow me	●	x	●
Eco mode	●	x	x
Room temperature display	●	●	●
°F/°C display	●	●	●
Daily timer	●	●	●
Weekly schedule	x	●	x
Keyboard lock	x	●	●
Mode lock	●	●	x
Background light	●	●	●
Bi-directional communication	●	x	x
Clean filter reminder	●	●	●
Language	English	English	English
Error check function	●	x	x
System parameter querying	x	x	x
Dimensions (WxHxD) (mm)	86x86x18	124.5x84.5x22.5	120x120x20
Power supply	18V DC	AC 24V	5V DC

Note:

●: equipped as standard; x: without this function

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

Central controller



CCM30



MD-NIM01

❖ 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.



❖ Two structures of central controller design, easy installation.



Structure A



Structure B



Structure B leading-out mode sketch