

# Commercial Air Conditioners 2017/2018



## Rooftop Package

R410A 60Hz

### Commercial Air Conditioner Division

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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.



iOS Version



Android Version



iOS Version

# COLDPOINT

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

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

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

MIDEA GROUP  
FORTUNE GLOBAL  
**FORTUNE**  
**500**

- 2015 BOSCH in VRF production and Siix in smart control
- 2014 Launched the rooftop package ClimaCreator globally
- 2010 Built the 3rd manufacturing base in Hefei
- 2008 Launched the rooftop package ClimaMaster globally
- 2007 Won the first centrifugal chiller project overseas
- 2006 Launched the first VSD centrifugal chiller
- 2004 Acquired MGRE entered the chiller industry
- 2001 Partnered with Copeland to develop the digital scroll VRF system
- 2000 Developed the first inverter VRF With Toshiba
- 1999 Entered the CAC field



# Introduction

package air conditioners are designed and manufactured to offer the all-in-one solutions for large halls, warehouses or other applications.

package air conditioner are totally two series: ClimaCreator series and ClimaMaster series.

Series					
R410A ClimaCreator series		220V 3Ph~ 60Hz	Tropical (T3)	Cooling only	7.5RT-25RT
R410A ClimaMaster series		208~230V 1Ph~ 60Hz	T1	Cooling only	3RT-5RT
		208~230V 3Ph~ 60Hz	T1	Cooling only	5RT
		220V 3Ph~ 60Hz	Tropical (T3)	Cooling only	5RT-20RT
				Cooling only+EHK	6.2RT-20RT
		380~415V 3Ph~ 60Hz	Tropical (T3)	Cooling only	6.2RT-30RT
Cooling only+EHK	6.2RT-30RT				

Notes:

1. Product's cooling capacity as per specification.



Golden Dragen Mart  
1,320RT  
Barka, Oman



Traki Store  
560RT  
Valencia, Venezuela

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# General Features

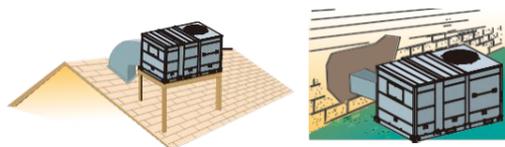
## Convenient for unit selection

### Wide cooling capacity range

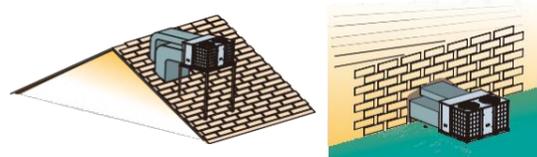
- ❖ Wide cooling capacity range, from 59000Btu/h to 358000Btu/h.

### Design flexibility

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



ClimaMaster series



ClimaCreator series

## Outstanding reliability

### 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.
- ❖ 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, Hitachi, Danfoss, etc. More reliable.
- ❖ No complex internal suction and discharge valves for quieter operation and higher reliability.
- ❖ Compact, light-weight design, and fewer moving parts design.



### Multi-protection design

- ❖ Multi-measurement to ensure units operate normally and reliably:  
System current protection, High/low pressure switch protection, Temperature sensor on/off protection, etc.
- ❖ Three-phase protector can be customized.



HP/LP switch



Temperature sensor

## Easy to 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 access to maintenance

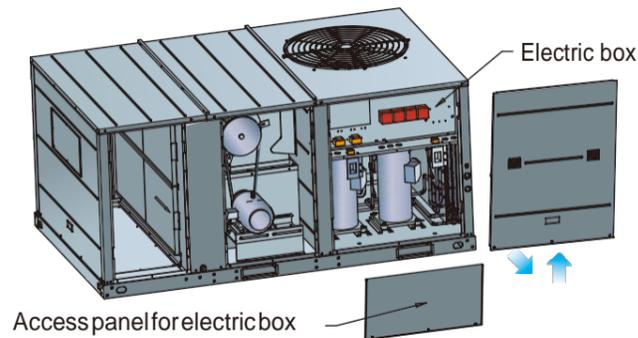
### External pressure gauge ports



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

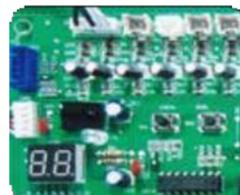
### Easy access doors design

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

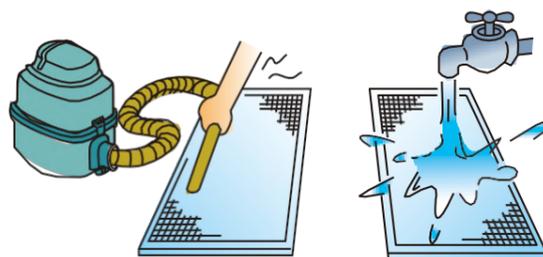


### System self-diagnostic

- ❖ 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



## Flexible choice of accessories

### Controllers

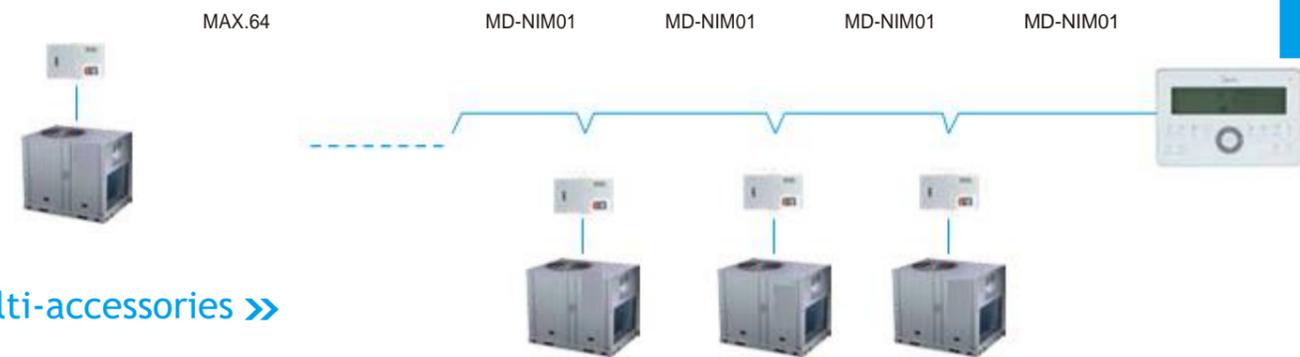
- ❖ Wired controller as standard.
- ❖ Besides standard wired controller, others can be chosen too.



- ❖ 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.



### Multi-accessories

Description	ClimaCreator series		ClimaMaster series	
	Standard accessories	Optional accessories	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

The units are convertible airflow. 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. Wiring internal to the unit 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 A 653, followed by baked on electrostatic polyester dry powder coat paint on all external panels, completely weatherized for outdoor installation and properly 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 are removed easily and reinstalled by removing bolts. 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.

Compressors used in Rooftop Package unit are hermetically sealed reciprocating type. They are equipped with a crankcase heater as standard.

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. It controls one or two stage cooling applications. 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.



## Product lineups

### Tropical (T3) Application, Cooling Only Type

Nominal ton*		7.5	10	15	20	25
220V, 3Ph-, 60Hz	Side-discharge 	●				
	Side-discharge 		●			
	Side-discharge 			●		
	Side-discharge 				●	
	Side-discharge 					●
	Side-discharge 					

Notes:

\* Nominal ton only for reference.

Cooling or heating capacity as per specifications.

### Adjustable pulley >>

Through changing the working pitch diameter of the pulley mounted on drivershaft, in turn the revolutions per minute of the driven shaft will increase or decrease to change air volume.



### Air intake filter & EHK as optional >>

- ❖ Three thickness filter: 0.5inch, 1inch and 2inch;
- ❖ Two kinds of filter materials: Metal or Nylon + Metal frame.
- ❖ EHK (Electric Heater Kits) and control box can be customized.

# Specifications

Tropical (T3) application, 220V 3Ph- 60Hz



Nominal ton*			7.5	10	15	20	25
Model			MRCT-075CWN1-D(C)	MRCT-100CWN1-D(C)	MRCT-150CWN1-D(C)	MRCT-200CWN1-D(C)	MRCT-250CWN1-D(C)
Cooling	Capacity (1)	Btu/h	89,000	120,000	180,000	240,000	300,000
		W	26,100	35,200	52,800	70,300	87,900
	Input (1)	W	7,800	10,700	16,200	21,900	27,800
	EER (1)	Btu/h.W	11.4	11.2	11.1	11.0	10.8
	Capacity (2)	Btu/h	69,600	100,200	146,000	200,500	251,700
		W	20,400	29,370	42,790	58,760	73,770
Input (2)	W	8,600	12,500	18,500	25,200	37,900	
EER (2)	Btu/h.W	8.1	8.0	7.9	8.0	6.6	
Air flow	Indoor side	CFM	2,700	4,120	6,450	8,580	11,138
External static pressure	Pa	Default: 80; 0 ~ 250	Default: 90; 0 ~ 250	Default: 110; 0 ~ 300	Default: 120; 0 ~ 375	Default: 250; 125 ~ 450	
Max. power input	W	11,300	17,500	25,000	36,000	45,000	
Max. current	A	42.4	57.4	88.3	124.6	150.0	
Compressor	Type / Quantity	Scroll / 1	Scroll / 1	Scroll / 2	Scroll / 2	Scroll / 2	
	Brand	Copeland	Copeland	Copeland	Copeland	Copeland	
Indoor fan	Type / Drive type	Centrifugal / Direct	Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt	
Outdoor fan	Type / Drive type	Axial / Direct	Axial / Direct	Axial / Direct	Axial / Direct	Axial / Direct	
Wired controller		KJR-25B	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	
Centralized controller (Optional)		No	Yes	Yes	Yes	Yes	
Sound pressure level	dB(A)	75.6	75.7	76.8	78.3	79.2	
Ambient temperature		10°C ~ 52°C	10°C ~ 52°C	10°C ~ 52°C	10°C ~ 52°C	10°C ~ 52°C	
Dimension	Net (WxHxD)	mm	1,475x840x1,130	1,483x1,231x1,138	1,965x1,230x1,130	1,670x1,247x2,192	2,320x1,245x2,220
	Packing (WxHxD)	mm	1,495x870x1,150	1,500x1,255x1,155	1,995x1,255x1,160	1,695x1,284x2,212	2,330x1,275x2,230
Weight	Net / Gross	kg	235/240	325/335	470/485	670/700	895/925

Notes:

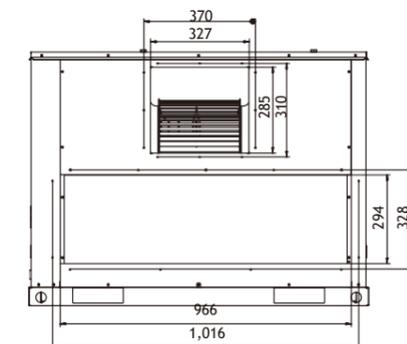
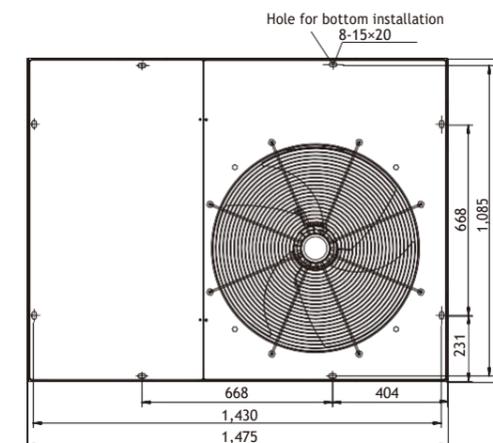
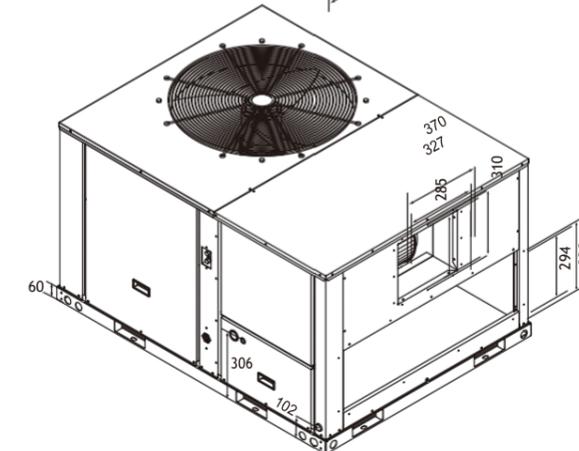
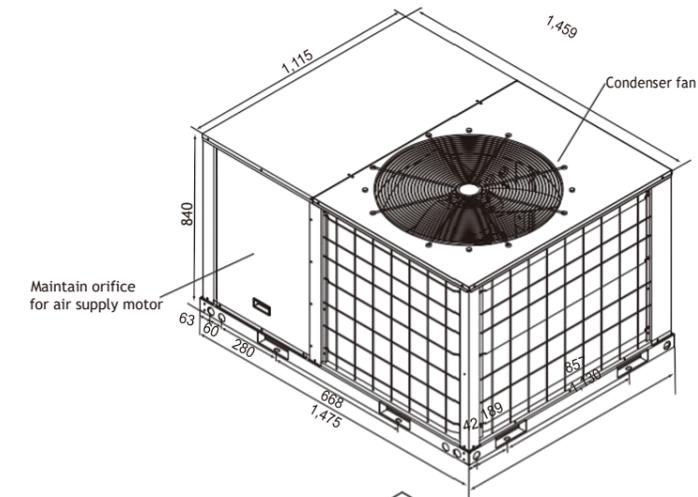
- Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB/19.4°C WB;  
Cooling capacity test condition (2): Outdoor ambient temperature: 46.1°C, indoor temperature 26.7°C DB/19.4°C WB;
- Units are suitable for operation to ±20% of nominal CFM;
- Sound values 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

# Dimensions

ClimaCreator, Tropical (T3) application, 220V-3Ph- -60Hz

MRCT-075CWN1-D(C)

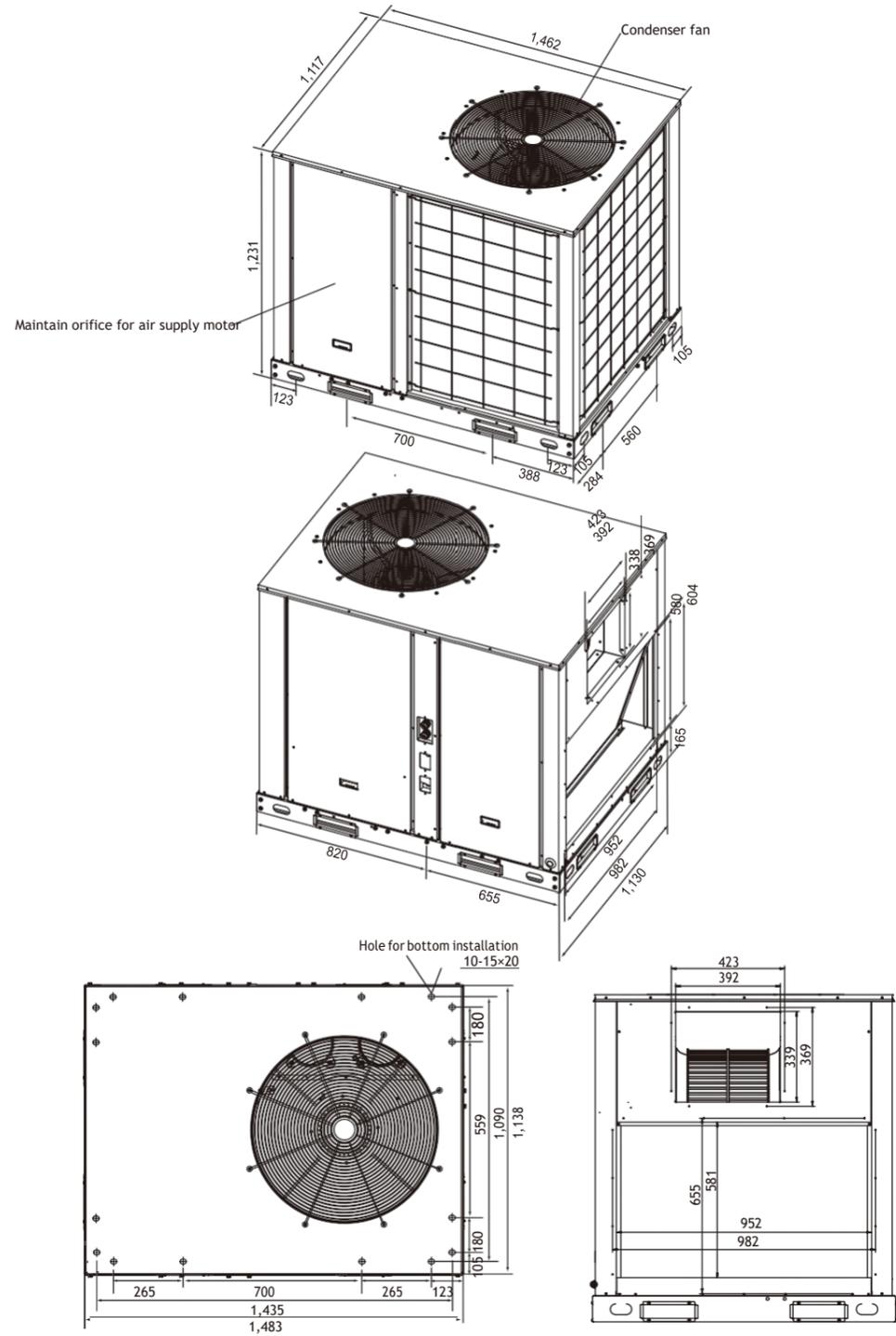
(Units: mm)



ClimaCreator, Tropical (T3) application, 220V-3Ph~ -60Hz

MRCT-100CWN1-D(C)

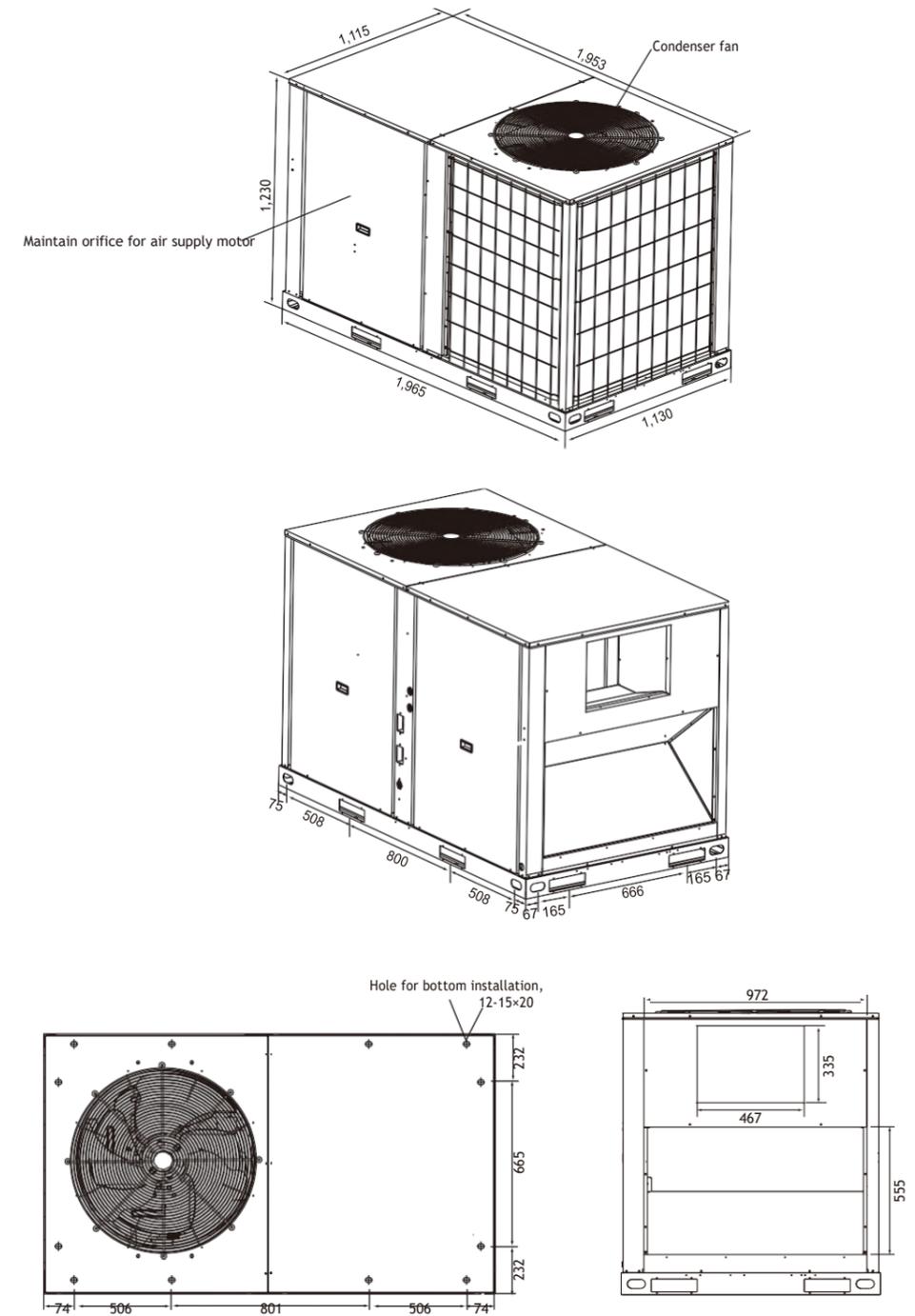
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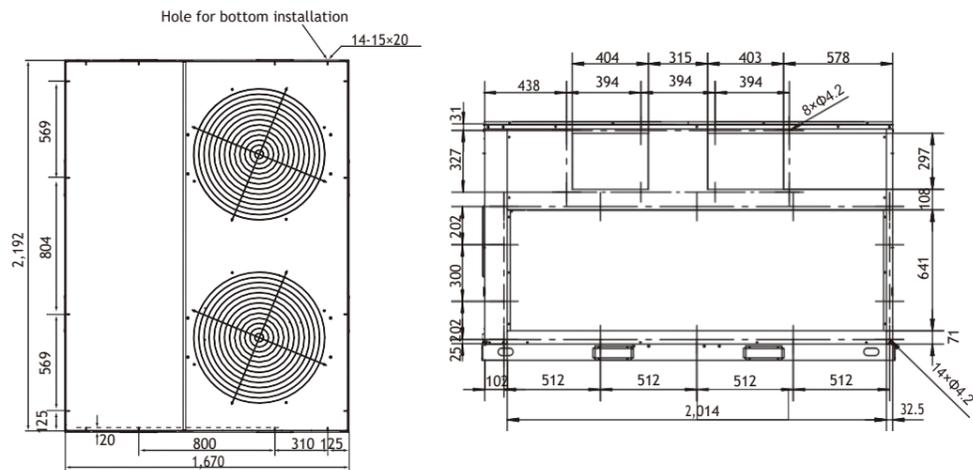
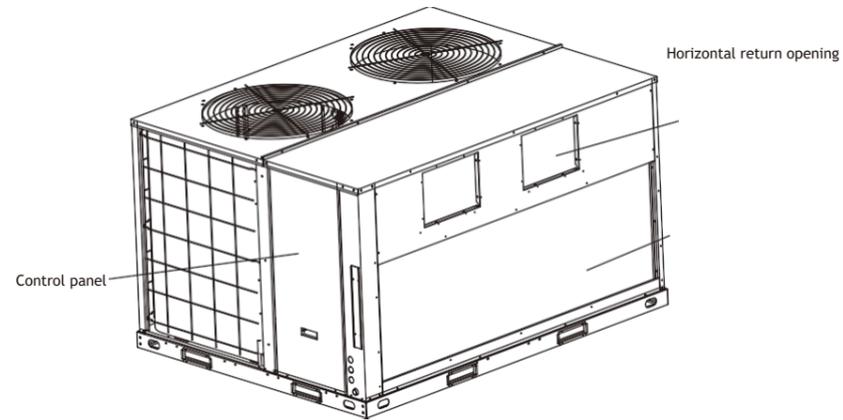
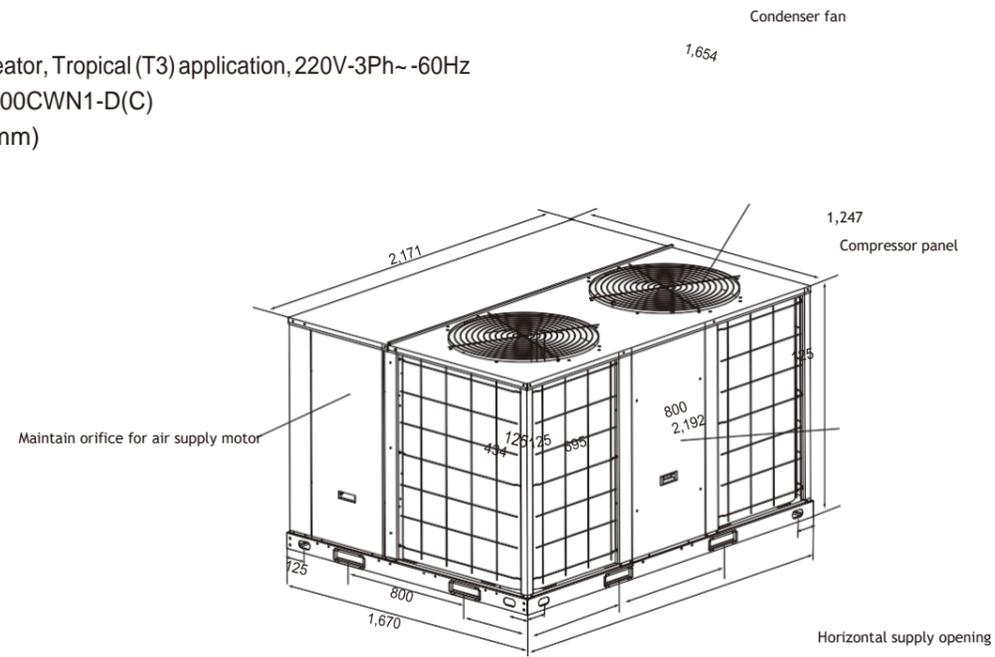
ClimaCreator, Tropical (T3) application, 220V-3Ph~ -60Hz

MRCT-150CWN1-D(C)

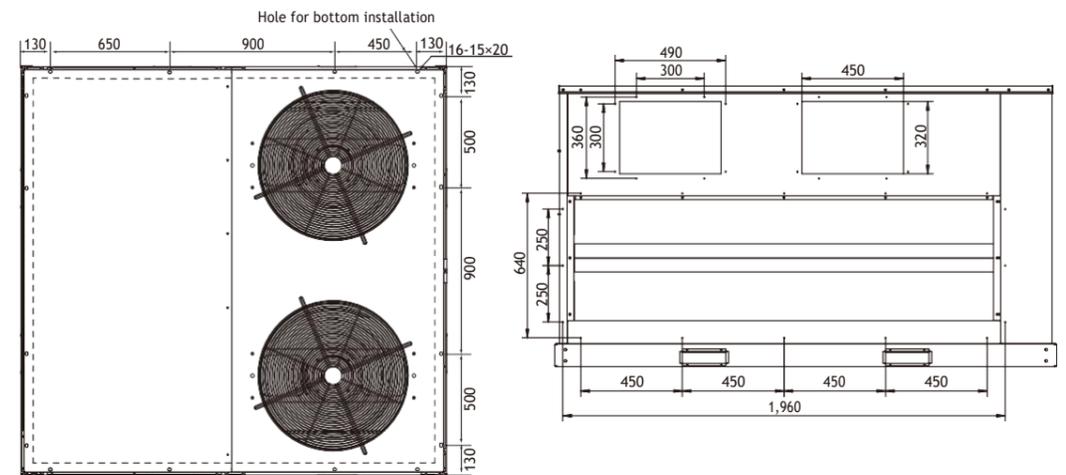
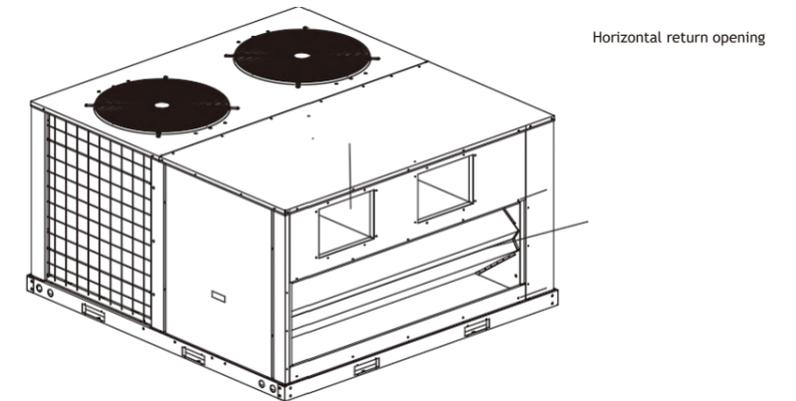
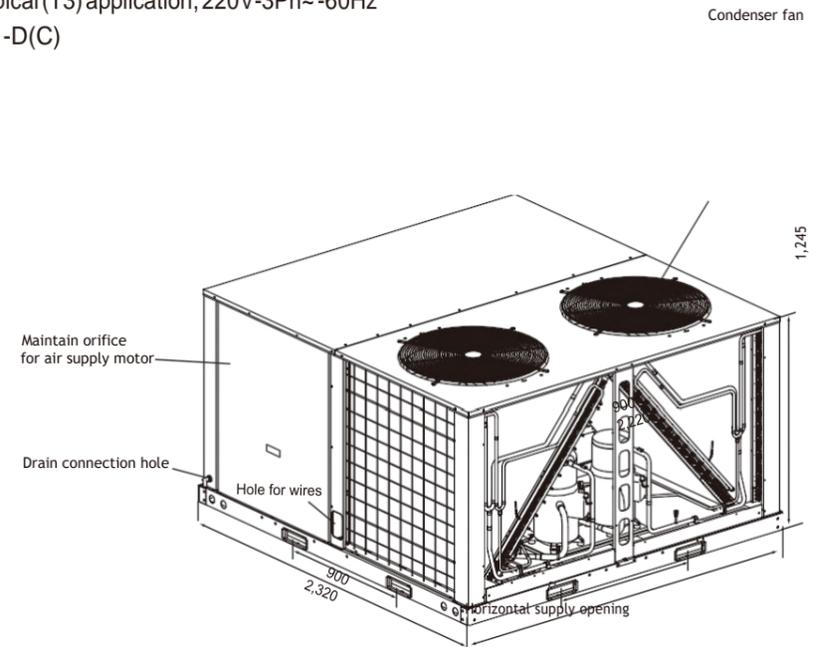
(Units: mm)



ClimaCreator, Tropical (T3) application, 220V-3Ph~ -60Hz  
 MRCT-200CWN1-D(C)  
 (Units: mm)



ClimaCreator, Tropical (T3) application, 220V-3Ph~ -60Hz  
 MRCT-250CWN1-D(C)  
 (Units: mm)



# ClimaMaster Series

## Product lineups

### T1 Application, Cooling Only Type

Nominal ton*		3	4	5
208~230V, 1Ph~,60Hz		●	●	●
208~230V, 3Ph~,60Hz				●

### Tropical (T3) Application

Nominal ton*		5	6.2	7.5	8.5	10	12.5	15	17.5	20
220V, 3Ph~, 60Hz		●								
			● ●	● ●						
					● ●	● ●				
							●			
								● ●	● ●	
										● ●

Nominal ton*		6.2	7.5	8.5	10	12.5	15	17.5	20	25	30
380~415V, 3Ph~,60Hz		● ●									
			● ●	● ●							
					● ●						
						● ●	● ●				
								● ●			
									● ●	● ●	
											● ●

Notes:

- \* Nominal ton only for reference.
- means cooling type product; ● means cooling type product with EHK.
- Cooling or heating capacity as per specifications.

## Specifications

T1 application, 208~230V 1Ph/3Ph~ 60Hz



Nominal ton*		3	4	5	5	
Model		MRC-36CWN1-V10(A)	MRC-48CWN1-V10(A)	MRC-60CWN1-V10(A)	MRC-60CWN1-X10(A)	
Power supply		208~230V 1Ph~ 60Hz	208~230V 1Ph~ 60Hz	208~230V 1Ph~ 60Hz	208~230V 3Ph~ 60Hz	
Type		Side-discharge	Side-discharge	Side-discharge	Side-discharge	
Cooling	Capacity	Btu/h	36,000	48,000	60,000	60,000
		kW	10.5	14.0	17.6	17.6
	Input	kW	3.6	4.8	6.0	6.0
	EER	Btu/h.W	10.0	10.0	10.0	10.0
Air flow	Indoor side	CFM	1,380	1,400	1,450	1,450
External static pressure		Pa	50	50	50	50
Max. power input		kW	4.5	7.5	8.8	7.8
Max. current		A	24.8	41.5	48.4	25.5
Compressor	Type / Quantity	Scroll / 1				
	Brand	LG				
Indoor fan	Type / Drive type	Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct	
Outdoor fan	Type / Drive type	Axial / Direct	Axial / Direct	Axial / Direct	Axial / Direct	
Wired controller		-				
Centralized controller (Optional)		No				
Sound pressure level		dB(A)	64.9	66.4	66.3	67.1
Ambient temperature		18°C ~ 46°C				
Dimension	Net (WxHxD)	mm	1,116x830x744	1,116x830x744	1,116x830x744	1,116x830x744
	Packing (WxHxD)	mm	1,152x855x765	1,152x855x765	1,152x855x765	1,152x855x765
Weight	Net / Gross	kg	127/130	142/145	146/149	150/153

Notes:

- Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB / 19.4°C WB;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, Cooling only, 220V 3Ph ~ 60 Hz Tropical (T3) applications, Cooling only, 220V 3Ph~ 60Hz



5RT



6.2RT & 7.5RT



8.5RT & 10RT



12.5RT



15RT & 17.5RT



20RT

Nominal ton*			5	6.2	7.5	8.5	10
Model			MRBT-60CWN1-D	MRBT-062CWN1-D	MRBT-075CWN1-D	MRBT-085CWN1-D	MRBT-100CWN1-D
Type			Two-way air out-in	Side-discharge	Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	59,000	75,000	89,000	103,000	120,000
		kW	17.3	22.0	26.1	30.2	35.2
	Input (1)	kW	5.9	7.7	9.2	10.5	11.4
	EER (1)	Btu/h.W	10.0	9.7	9.7	9.8	10.5
	Capacity (2)	Btu/h	49,000	62,700	74,500	85,600	100,000
		kW	14.4	18.4	21.8	25.1	29.3
	Input (2)	kW	7.2	8.6	9.9	11.4	13.6
	EER (2)	Btu/h.W	6.8	7.3	7.5	7.5	7.4
Air flow	Indoor side	CFM	1,990	2,600	3,000	3,600	3,800
External static pressure		Pa	50	60	60	75	75
Max. power input		kW	8.3	13.2	13.2	14.7	16.8
Max. current		A	28.5	42	42	47.1	55.0
Compressor	Type / Quantity		Scroll / 1	Scroll / 1	Scroll / 1	Scroll / 1	Scroll / 1
	Brand		Copeland	Danfoss	Danfoss	Danfoss	Danfoss
Indoor fan	Type / Drive type		Centrifugal / Direct	Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct	Axial / Direct	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 controller (Optional)			Yes	Yes	Yes	Yes	Yes
Sound pressure level		dB(A)	62.9	70.3	70.3	72.2	72.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	1,920x840x1,068	1,630x1,068x1,065	1,630x1,068x1,065	2,165x1,002x1,335	2,165x1,002x1,335
	Packing (WxHxD)	mm	1,955x870x1,085	1,700x1,110x1,155	1,700x1,110x1,155	2,220x1,040x1,415	2,220x1,040x1,415
Weight	Net / Gross		kg	228/232	315/338	315/335	445/458

Notes:

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Nominal ton*			12.5	15	17.5	20
Model			MRBT-125CWN1-D	MRBT-150CWN1-D	MRBT-175CWN1-D	MRBT-200CWN1-D
Type			Side-discharge	Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	150,000	180,000	205,000	240,000
		kW	44.0	52.8	60.1	70.3
	Input (1)	kW	15.3	18.1	20.1	23.6
	EER (1)	Btu/h.W	9.8	10.0	10.2	10.1
	Capacity (2)	Btu/h	125,600	159,600	180,600	213,000
		kW	34.2	46.7	52.9	62.4
	Input (2)	kW	16.8	20.2	23.5	27.7
	EER (2)	Btu/h.W	7.5	7.9	7.7	7.7
Air flow	Indoor side	CFM	5,200	6,600	7,300	8,400
External static pressure		Pa	90	90	100	100
Max. power input		kW	20.9	26.8	32.8	38.2
Max. current		A	69.2	87.9	98.6	127.3
Compressor	Type / Quantity		Scroll / 2	Scroll / 2	Scroll / 2	Scroll / 2
	Brand		Copeland	Danfoss	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 controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes	Yes
Sound pressure level		dB(A)	72.3	72.4	72.4	74.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	2,229x1,245x1,400	2,229x1,245x1,825	2,229x1,245x1,825	2,753x1,245x2,157
	Packing (WxHxD)	mm	2,265x1,280x1,455	2,236x1,280x1,855	2,236x1,280x1,855	2,760x1,280x2,175
Weight	Net / Gross		kg	520/535	710/730	720/740

Notes:

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, Cooling only + EHK, 220V 3Ph~ 60Hz



6.2RT & 7.5RT



8.5RT & 10RT

Nominal ton*			6.2	7.5	8.5	10
Model						
Type			Side-discharge	Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	75,000	89,000	103,000	120,000
		kW	22.0	26.1	30.2	35.2
	Input (1)	kW	7.7	9.2	10.4	11.4
	EER (1)	Btu/h.W	9.7	9.7	9.8	10.5
	Capacity (2)	Btu/h	62,700	74,500	85,600	100,000
		kW	18.4	21.8	25.1	29.3
	Input (2)	kW	8.6	9.9	11.4	13.6
EER (2)	Btu/h.W	7.3	7.5	7.5	7.4	
Electric heater	Input	kW	14	14	21	21
Air flow	Indoor side	CFM	2,600	3,000	3,600	3,800
External static pressure		Pa	60	60	75	75
Max. power input		kW	13.2	13.2	14.7	16.8
Max. current		A	42	42	47.1	55
Compressor	Type / Quantity		Scroll / 1	Scroll / 1	Scroll / 1	Scroll / 1
	Brand		Danfoss	Danfoss	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 controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes	Yes
Sound pressure level		dB(A)	70.3	70.3	72.2	72.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	1,630x1,068x1,065	1,630x1,068x1,065	2,165x1,002x1,335	2,165x1,002x1,335
	Packing (WxHxD)	mm	1,700x1,110x1,155	1,700x1,110x1,155	2,220x1,040x1,415	2,220x1,040x1,415
Weight	Net / Gross	kg	323/343	323/343	455/468	455/468

Notes:

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, cooling only + EHK, 220V 3Ph~ 60Hz



15RT & 17.5RT



20RT

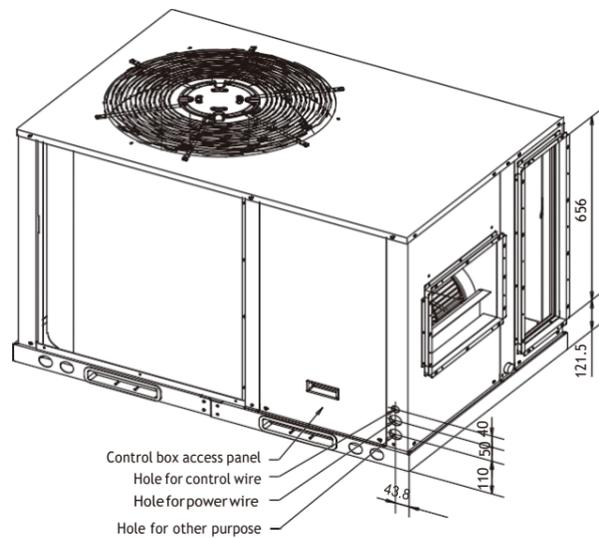
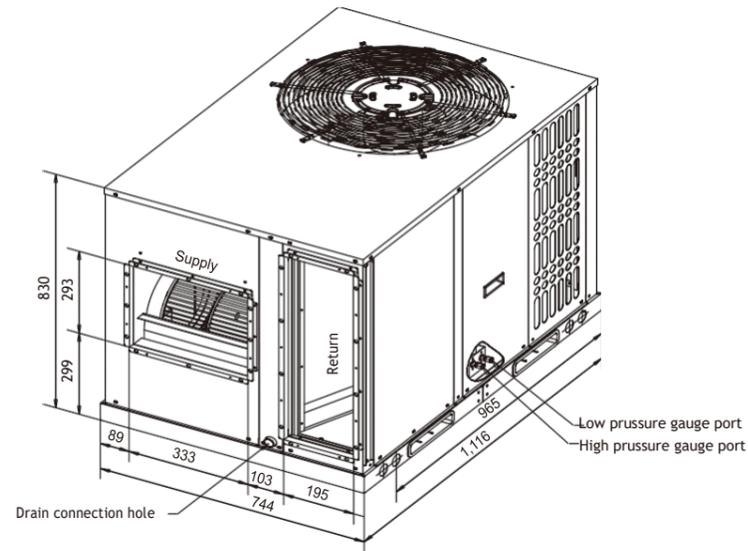
Nominal ton*			15	17.5	20
Model					
Type			Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	180,000	205,000	240,000
		kW	52.8	60.1	70.3
	Input (1)	kW	18.1	20.1	23.6
	EER (1)	Btu/h.W	10.0	10.2	10.1
	Capacity (2)	Btu/h	159,600	180,600	213,000
		kW	46.7	52.9	62.4
	Input (2)	kW	20.2	23.5	27.7
EER (2)	Btu/h.W	7.9	7.7	7.7	
Electric heater	Input	kW	30	30	35
Air flow	Indoor side	CFM	6,600	7,300	8,400
External static pressure		Pa	90	100	100
Max. power input		kW	26.8	32.8	38.2
Max. current		A	87.9	98.6	127.3
Compressor	Type / Quantity		Scroll / 2	Scroll / 2	Scroll / 2
	Brand		Danfoss	Danfoss	Danfoss
Indoor fan	Type / Drive type		Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralize controller			Yes	Yes	Yes
Sound pressure level		dB(A)	72.4	72.4	74.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	2,229x1,245x1,825	2,229x1,245x1,825	2,753x1,245x2,157
	Packing (WxHxD)	mm	2,236x1,280x1,855	2,236x1,280x1,855	2,760x1,280x2,175
Weight	Net / Gross	kg	720/740	730/750	940/955

Notes:

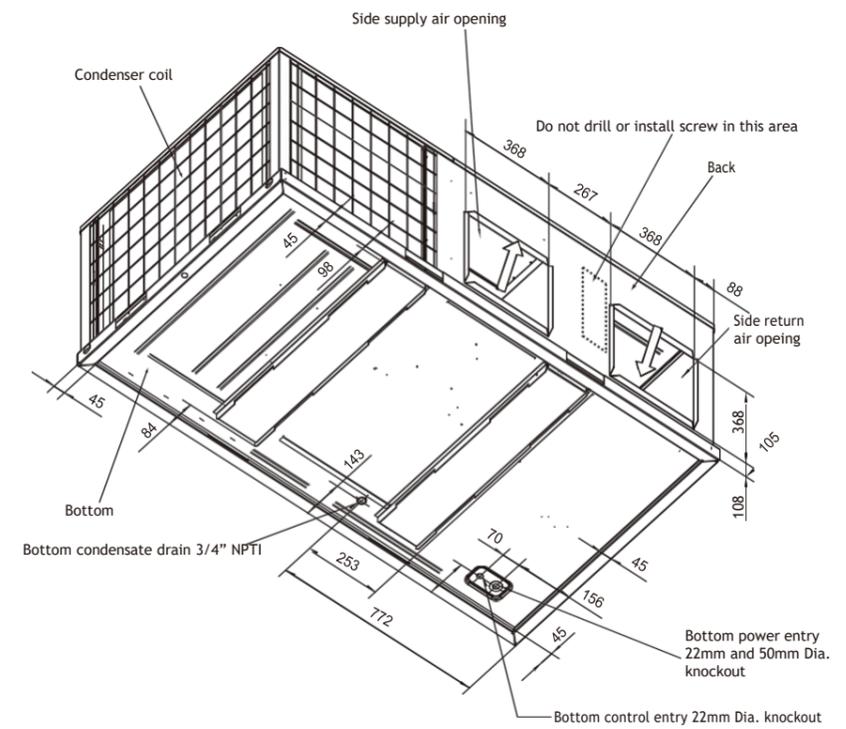
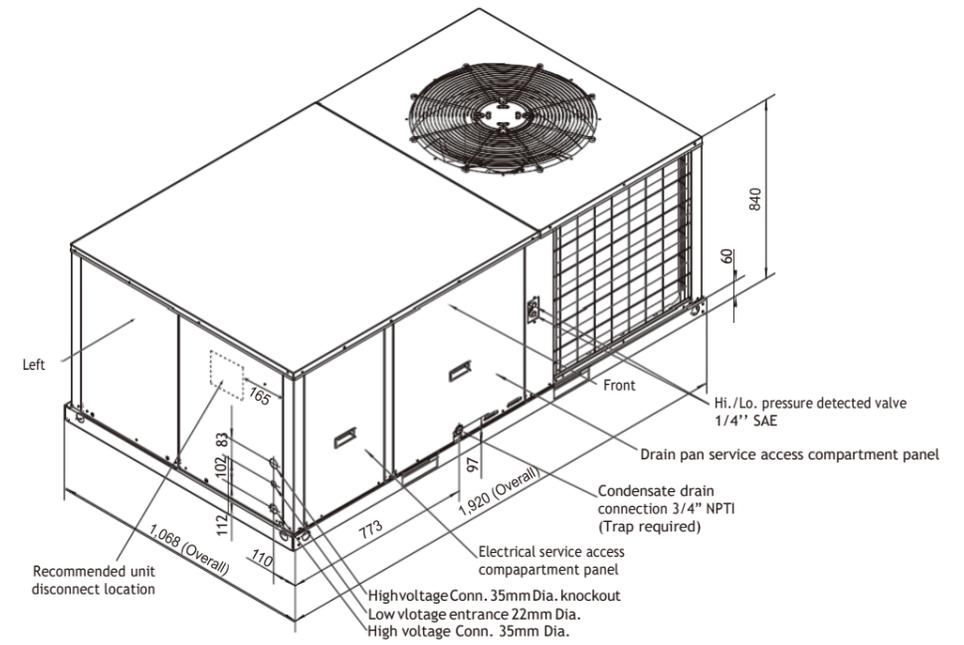
- Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB/19.4°C WB;  
Cooling capacity test condition (2): Outdoor ambient temperature: 46.1°C, indoor temperature 26.7°C DB / 19.4°C WB;
- Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and (1 meter + height of unit)/2 above the floor.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

# Dimensions

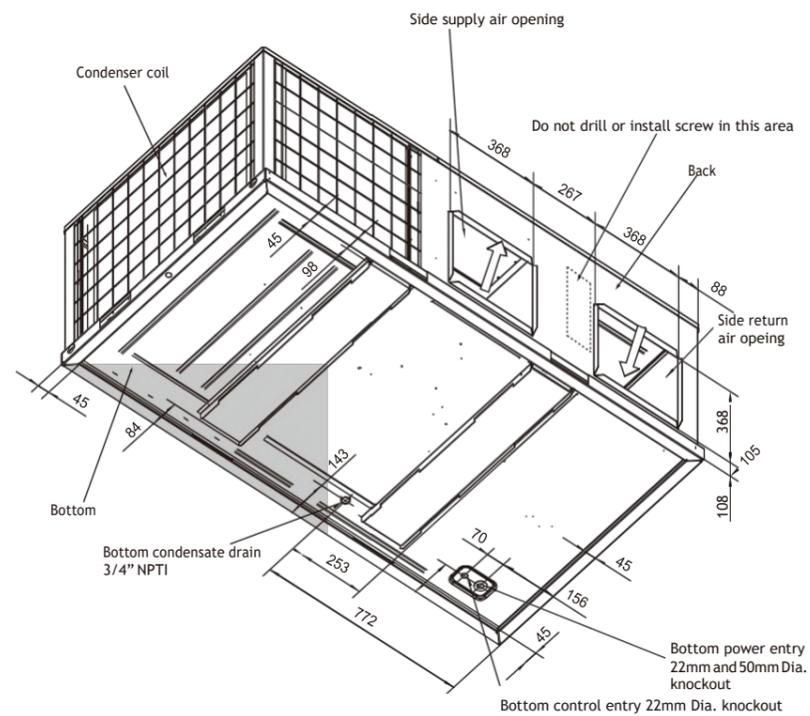
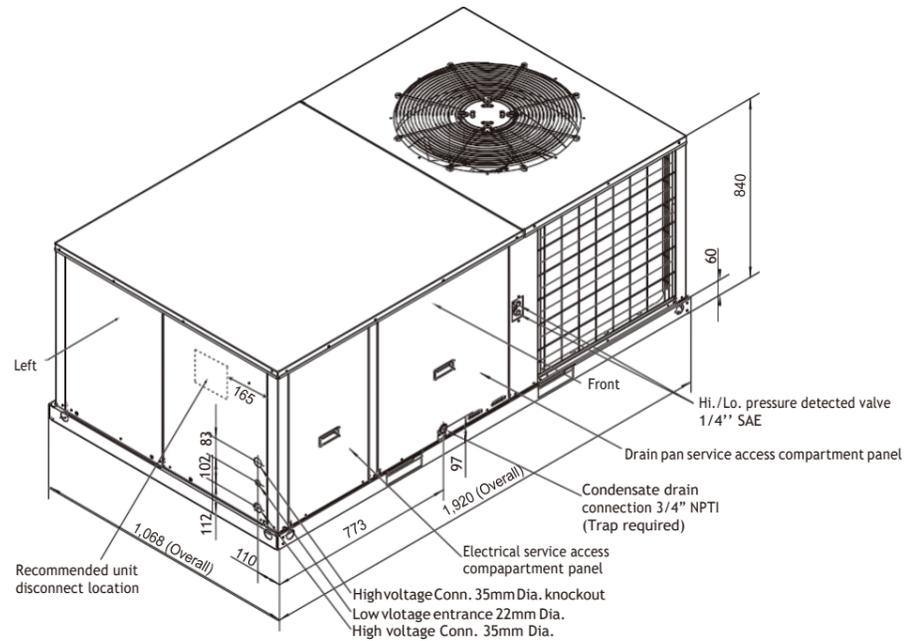
ClimaMaster, T1 application, 208~230V-1/3Ph~ - 60Hz  
 MRC-36CWN1-V10(A), MRC-48CWN1-V10(A), MRC-60CWN1-V10(A), MRC-60CWN1-X10(A)  
 (Units: mm)



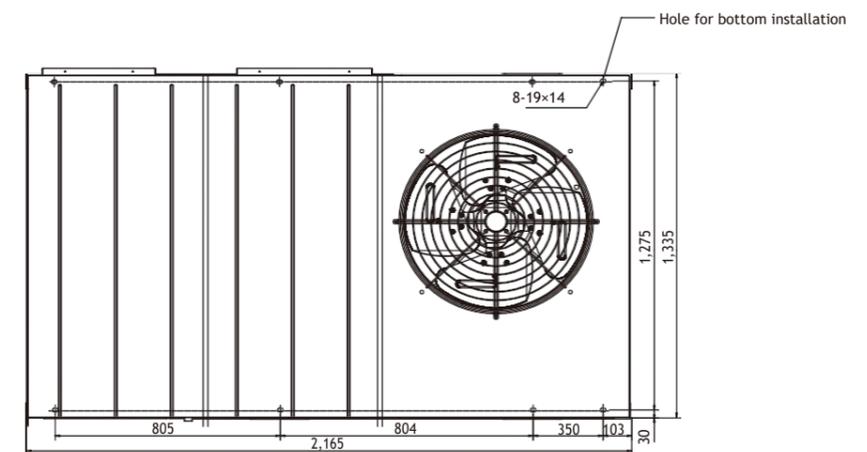
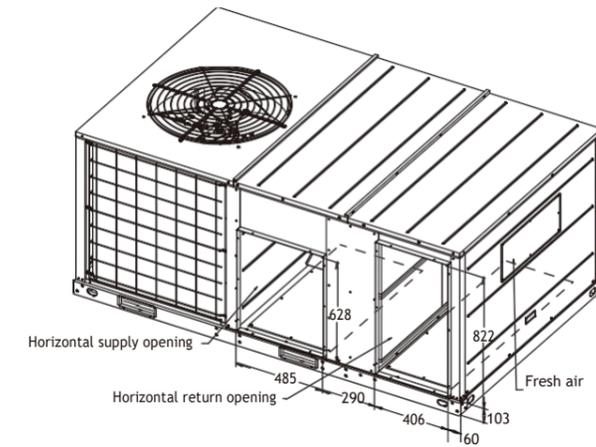
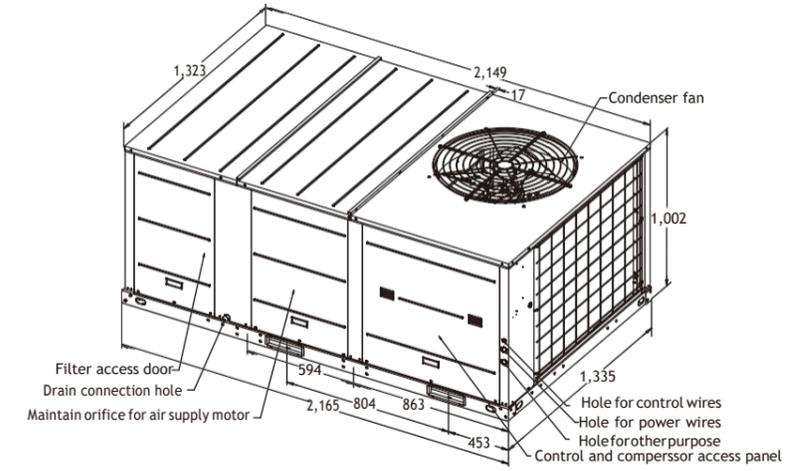
ClimaMaster, Tropical (T3) application, 220V-3Ph~ - 60Hz  
 MRBT-60CWN1-D  
 (Units: mm)



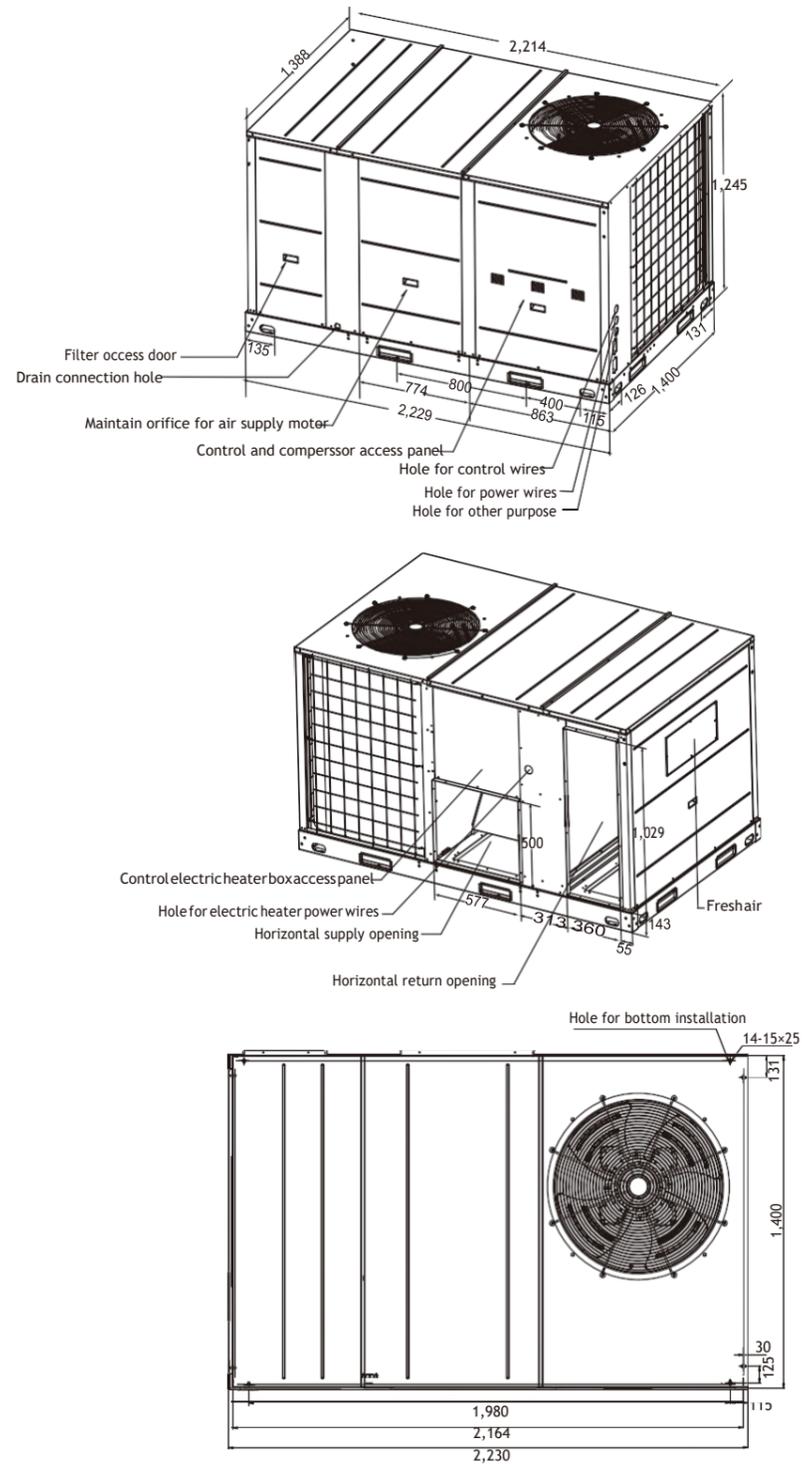
ClimaMaster, Tropical (T3) application, 220V-3Ph~ -60Hz  
 MRBT-062CWN1-D, MRCT-062EWN1-D, MRBT-075CWN1-D, MRCT-075EWN1-D  
 (Units: mm)



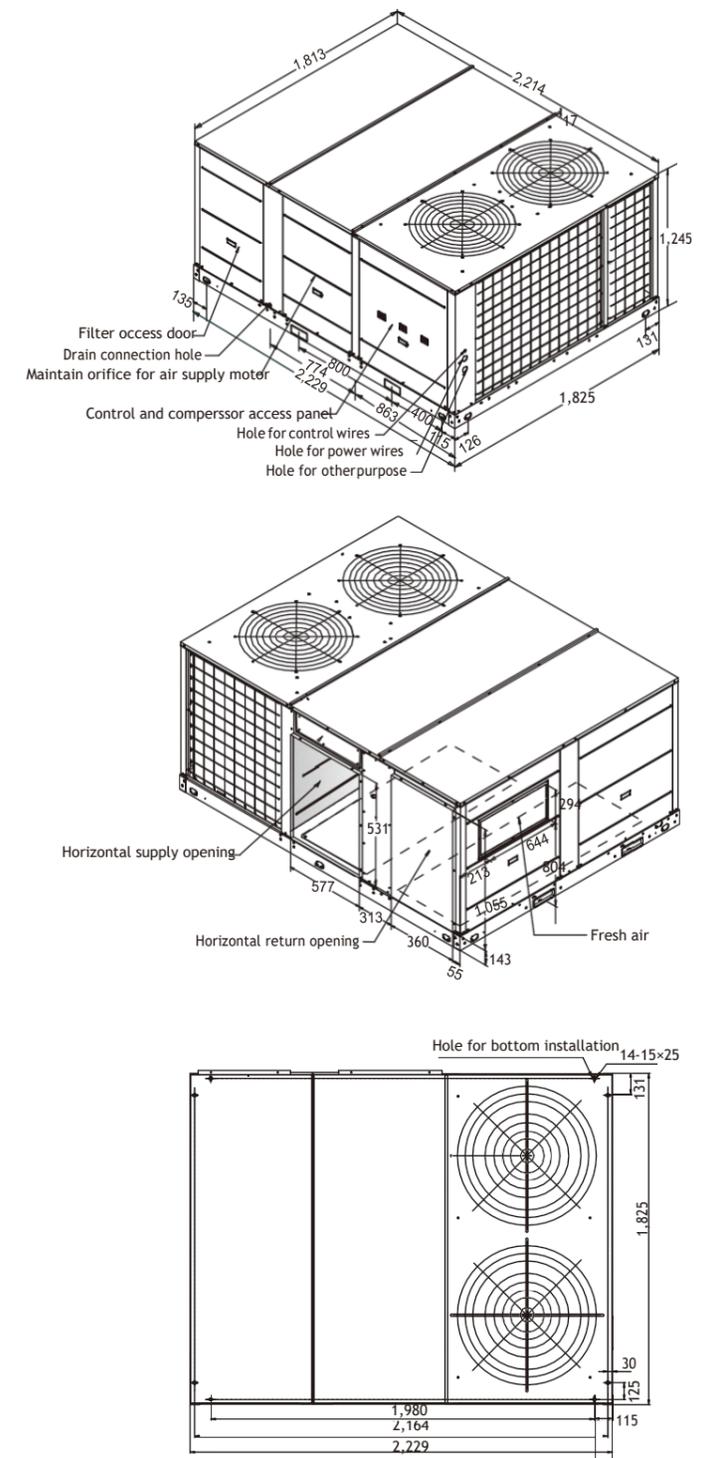
ClimaMaster, Tropical (T3) application, 220V-3Ph~ -60Hz  
 MRBT-085CWN1-D, MRCT-085EWN1-D, MRBT-100CWN1-D, MRCT-100EWN1-D  
 (Units: mm)



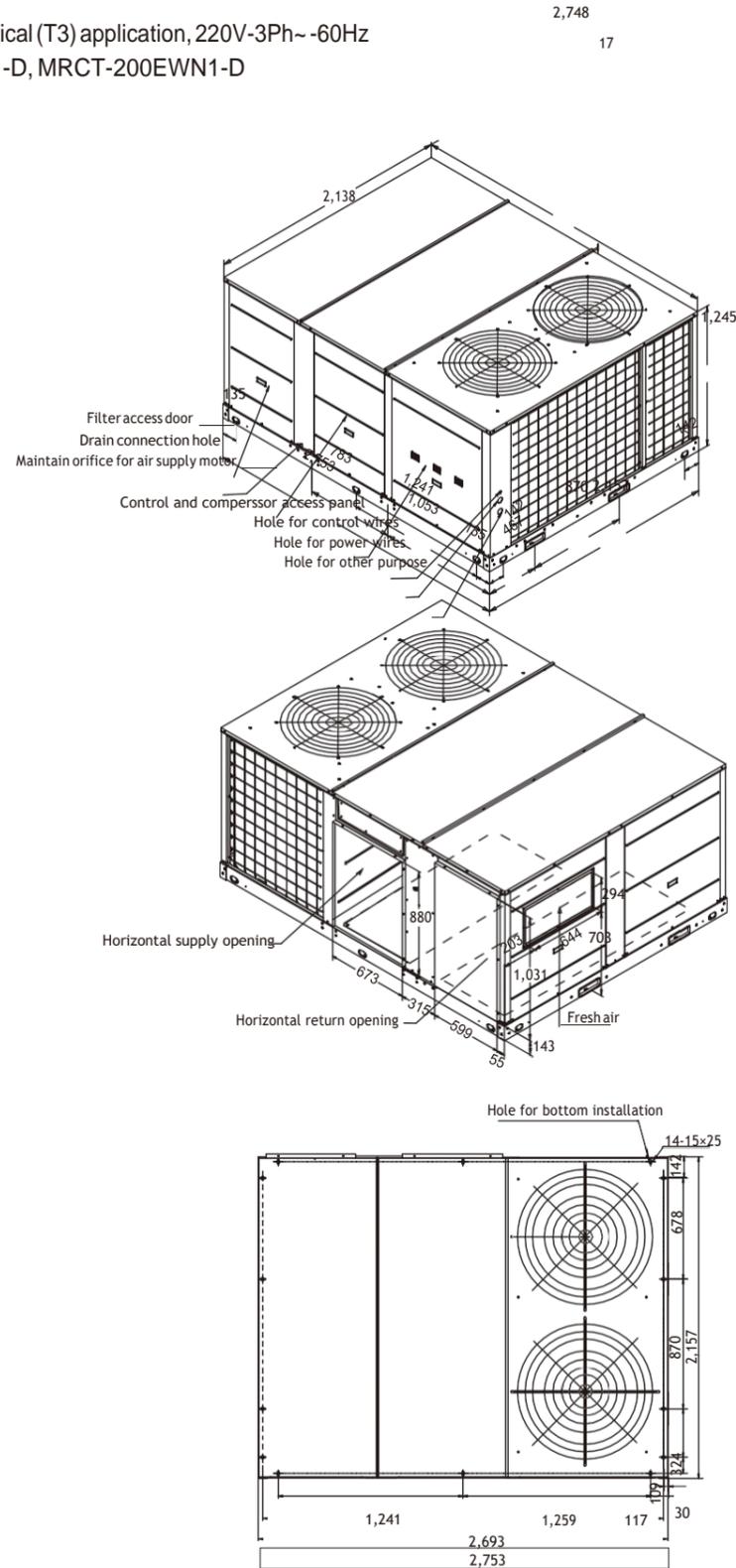
ClimaMaster, Tropical (T3) application, 220V-3Ph~ -60Hz  
MRBT-125CWN1-D  
(Units: mm)



ClimaMaster, Tropical (T3) application, 220V-3Ph~ -60Hz  
MRBT-150CWN1-D, MRCT-150EWN1-D, MRBT-175CWN1-D, MRCT-175EWN1-D  
(Units: mm)



ClimaMaster, Tropical (T3) application, 220V-3Ph~ -60Hz  
 MRBT-200CWN1-D, MRCT-200EWN1-D  
 (Units: mm)



## Specifications

Tropical (T3) application, cooling only, 380~415V 3Ph~ 60Hz



6.2RI



7.5RI & 8.5RI

Nominal ton*			6.2	7.5	8.5
Model			MRBT-062CWN1-Y	MRBT-075CWN1-Y	MRBT-085CWN1-Y
Type			Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	75,000	89,000	103,000
		kW	22.0	26.1	30.2
	Input (1)	kW	7.0	8.7	10.3
		EER (1)	Btu/h.W	10.7	10.2
	Capacity (2)	Btu/h	60,700	68,800	79,600
		kW	17.8	20.2	23.3
Input (2)	kW	8.2	9.5	11.0	
	EER (2)	Btu/h.W	7.4	7.2	7.2
Air flow	Indoor side	CFM	2,100	3,500	3,500
External static pressure		Pa	60	60	60
Max. power input		kW	10.1	15.8	15.8
Max. current		A	18.0	25.0	25.0
Compressor	Type / Quantity		Scroll / 1	Scroll / 2	Scroll / 2
	Brand		Hitachi	Hitachi	Hitachi
Indoor fan	Type / Drive type		Centrifugal / Direct	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes
Sound pressure level		dB(A)	63.6	73.6	73.7
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	1,920x840x1,068	1,630x1,068x1,065	1,630x1,068x1,065
	Packing (WxHxD)	mm	1,955x870x1,085	1,700x1,110x1,155	1,700x1,110x1,155
Weight	Net / Gross	kg	248/252	320/340	320/340

**Notes:**

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, cooling only, 380~415V 3Ph~ 60Hz



10RT



12.5RT & 15RT

Nominal ton*			10	12.5	15
Model			MRBT-100CWN1-Y	MRBT-125CWN1-Y	MRBT-150CWN1-Y
Type			Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	120,000	150,000	180,000
		kW	35.2	44.0	52.8
	Input (1)	kW	11.9	14.6	18.8
		EER (1)	Btu/h.W	10.1	10.3
	Capacity (2)	Btu/h	100,000	124,000	144,600
		kW	29.3	36.3	42.4
	Input (2)	kW	13.6	16.9	19.8
EER (2)		Btu/h.W	7.4	7.3	7.3
Air flow	Indoor side	CFM	3,700	5,600	5,800
External static pressure		Pa	75	90	90
Max. power input		kW	19.1	21.3	27.4
Max. current		A	30.0	40.0	50.0
Compressor	Type / Quantity		Scroll / 2	Scroll / 2	Scroll / 3
	Brand		Hitachi	Hitachi	Hitachi
Indoor fan	Type / Drive type		Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes
Sound pressure level		dB(A)	73.7	73.9	74.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	2,165x1,002x1,335	2,229x1,245x1,400	2,230x1,245x1,400
	Packing (WxHxD)	mm	2,220x1,040x1,415	2,265x1,280x1,455	2,265x1,280x1,455
Weight	Net / Gross	kg	425/438	525/540	605/630

Notes:

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, Cooling only, 380~415V 3Ph~ 60Hz



17.5RT



20RT & 25RT



30RT

Nominal ton*			17.5	20	25	30
Model			MRBT-175CWN1-Y	MRBT-200CWN1-Y	MRCT-250CWN1-Y	MRCT-300CWN1-Y
Type			Side-discharge	Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	208,000	240,000	297,000	358,000
		kW	61.0	70.3	87.0	104.9
	Input (1)	kW	21.4	25.0	30.3	35.8
		EER (1)	Btu/h.W	9.7	9.6	9.8
	Capacity (2)	Btu/h	180,600	196,000	245,700	328,600
		kW	52.9	57.4	72.0	96.3
	Input (2)	kW	24.7	27.2	34.1	40.3
EER (2)		Btu/h.W	7.3	7.2	7.2	8.2
Air flow	Indoor side	CFM	6,600	9,100	10,500	11,900
ESP		Pa	90	100	140	250
Max. power input		kW	37.4	43.7	49.6	50.4
Max. current		A	63.0	82.0	93.0	90.0
Compressor	Type / Quantity		Scroll / 3	Scroll / 4	Scroll / 4	Scroll / 2
	Brand		Hitachi	Hitachi	Hitachi	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 controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes	Yes
Sound pressure level		dB(A)	76.3	78.1	78.1	81.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	2,229x1,245x1,825	2,753x1,245x2,157	2,753x1,245x2,157	2,753x1,674x2,157
	Packing (WxHxD)	mm	2,236x1,280x1,855	2,760x1,280x2,175	2,760x1,280x2,175	2,755x1,690x2,180
Weight	Net / Gross	kg	690/710	915/955	965/1,010	1,090/1,110

Notes:

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, cooling only + EHK, 380~415V 3Ph~ 60Hz



6.2RT



7.5RT & 8.5RT

Nominal ton*			6.2	7.5	8.5
Model			MRBT-062EWN1-Y	MRCT-075EWN1-Y	MRCT-085EWN1-Y
Type			Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	75,000	89,000	103,000
		kW	22.0	26.1	30.2
	Input (1)	kW	7.0	8.7	10.3
	EER (1)	Btu/h.W	10.7	10.2	10.0
	Capacity (2)	Btu/h	60,700	68,800	79,600
		kW	17.8	20.2	23.3
	Input (2)	kW	8.2	9.5	11.0
EER (2)	Btu/h.W	7.4	7.2	7.2	
Electric heater	Input	kW	15	14	14
Air flow	Indoor side	CFM	2,000	3,300	3,300
External static pressure		Pa	60	60	60
Max. power input		kW	10.1	15.8	15.8
Max. current		A	18.0	25.0	25.0
Compressor	Type / Quantity		Scroll / 1	Scroll / 2	Scroll / 2
	Brand		Hitachi	Hitachi	Hitachi
Indoor fan	Type / Drive type		Centrifugal / Direct	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes
Sound pressure level		dB(A)	63.6	73.6	73.7
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	1,920x840x1,068	1,630x1,068x1,065	1,630x1,068x1,065
	Packing (WxHxD)	mm	1,955x870x1,085	1,700x1,110x1,155	1,700x1,110x1,155
Weight	Net / Gross	kg	251/255	325/345	325/345

Notes:

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, cooling only + EHK, 380~415V 3Ph~ 60Hz



10RT



12.5RT & 15RT

Nominal ton*			10	12.5	15
Model			MRCT-100EWN1-Y	MRCT-125EWN1-Y	MRCT-150EWN1-Y
Type			Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	120,000	150,000	180,000
		kW	35.2	44.0	52.8
	Input (1)	kW	11.9	14.6	18.8
	EER (1)	Btu/h.W	10.1	10.3	9.6
	Capacity (2)	Btu/h	100,000	124,000	144,600
		kW	29.3	36.3	42.4
	Input (2)	kW	13.6	16.9	19.8
EER (2)	Btu/h.W	7.4	7.3	7.3	
Electric heater	Input	kW	21	30	30
Air flow	Indoor side	CFM	3,500	5,400	5,600
External static pressure		Pa	75	90	90
Max. power input		kW	19.1	21.3	27.4
Max. current		A	30.0	40.0	50.0
Compressor	Type / Quantity		Scroll / 2	Scroll / 2	Scroll / 3
	Brand		Hitachi	Hitachi	Hitachi
Indoor fan	Type / Drive type		Centrifugal / Belt	Centrifugal / Belt	Centrifugal / Belt
Outdoor fan	Type / Drive type		Axial / Direct	Axial / Direct	Axial / Direct
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes
Sound pressure level		dB(A)	73.7	73.9	74.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	2,165x1,002x1,335	2,229x1,245x1,400	2,230x1,245x1,400
	Packing (WxHxD)	mm	2,220x1,040x1,415	2,265x1,280x1,455	2,265x1,280x1,455
Weight	Net / Gross	kg	435/448	535/550	615/640

Notes:

- 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;
- 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.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

Tropical (T3) application, cooling only + EHK, 380-415V 3Ph- 60Hz



17.5RT



20RT & 25RT



30RT

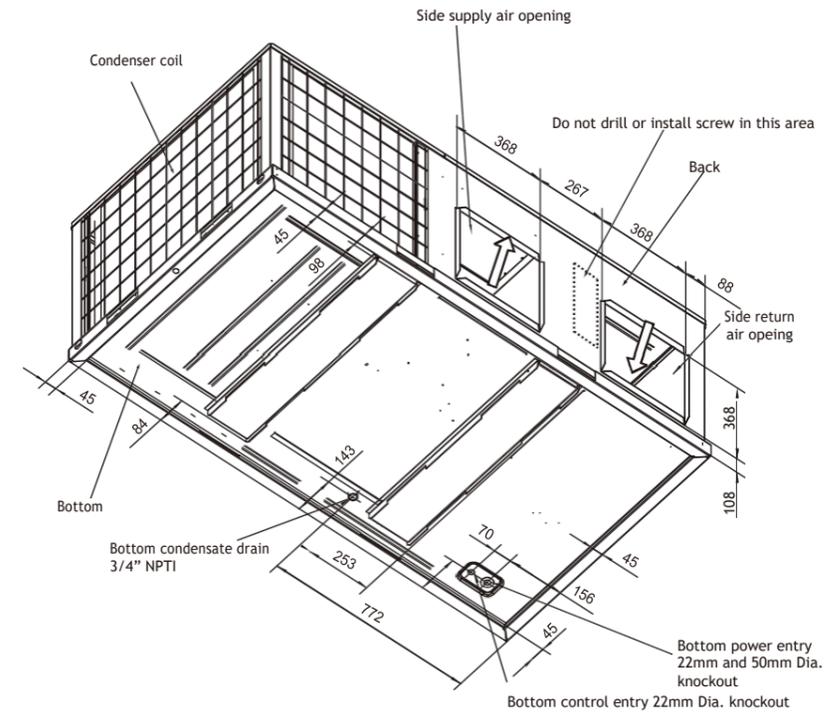
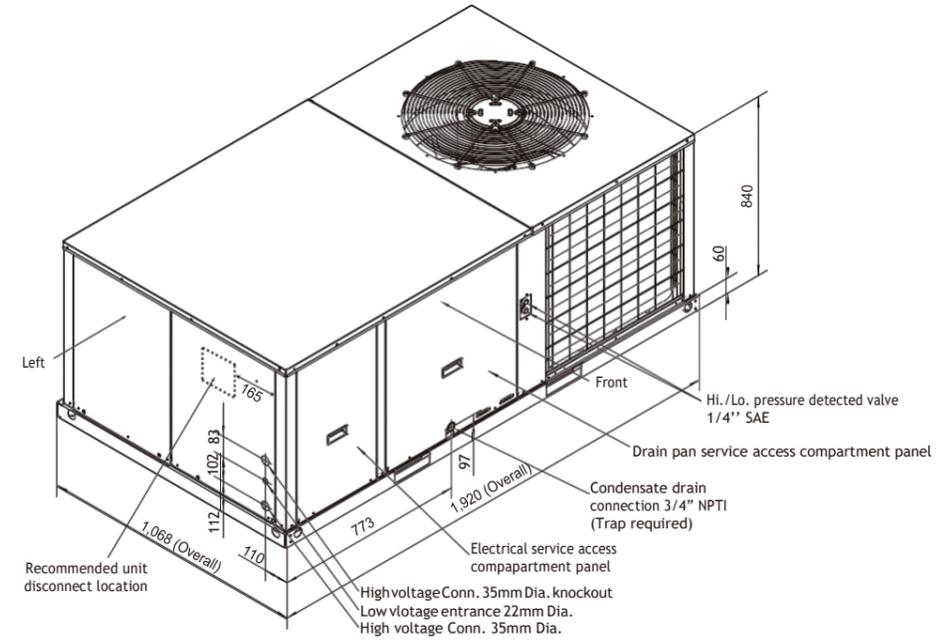
Nominal ton*			17.5	20	25	30
Model			MRCT-175EWN1-Y	MRCT-200EWN1-Y	MRCT-250EWN1-Y	MRCT-300EWN1-Y
Type			Side-discharge	Side-discharge	Side-discharge	Side-discharge
Cooling	Capacity (1)	Btu/h	208,000	240,000	297,000	358,000
		kW	61.0	70.3	87.0	104.9
	Input (1)	kW	21.4	25.0	30.3	35.8
	EER (1)	Btu/h.W	9.7	9.6	9.8	10.0
	Capacity (2)	Btu/h	180,600	196,000	245,700	328,600
		kW	52.9	57.4	72.0	96.3
Input (2)	kW	24.7	27.2	34.1	40.3	
EER (2)	Btu/h.W	7.3	7.2	7.2	8.2	
Electric heater	Input	kW	30	39	39	39
Air flow	Indoor side	CFM	6,400	8,300	10,000	11,000
External static pressure		Pa	90	100	140	250
Max. power input		kW	37.4	43.7	49.6	50.4
Max. current		A	63.0	82.0	93.0	90.0
Compressor	Type / Quantity		Scroll / 3	Scroll / 4	Scroll / 4	Scroll / 2
	Brand		Hitachi	Hitachi	Hitachi	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 controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes	Yes
Sound pressure level		dB(A)	76.3	78.1	78.1	81.2
Ambient temperature			18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C	18°C ~ 52°C
Dimension	Net (WxHxD)	mm	2,229x1,245x1,825	2,753x1,245x2,157	2,753x1,245x2,157	2,753x1,674x2,157
	Packing (WxHxD)	mm	2,236x1,280x1,855	2,760x1,280x2,175	2,760x1,280x2,175	2,755x1,690x2,180
Weight	Net / Gross	kg	700/720	930/970	980/1,025	1,100/1,120

Notes:

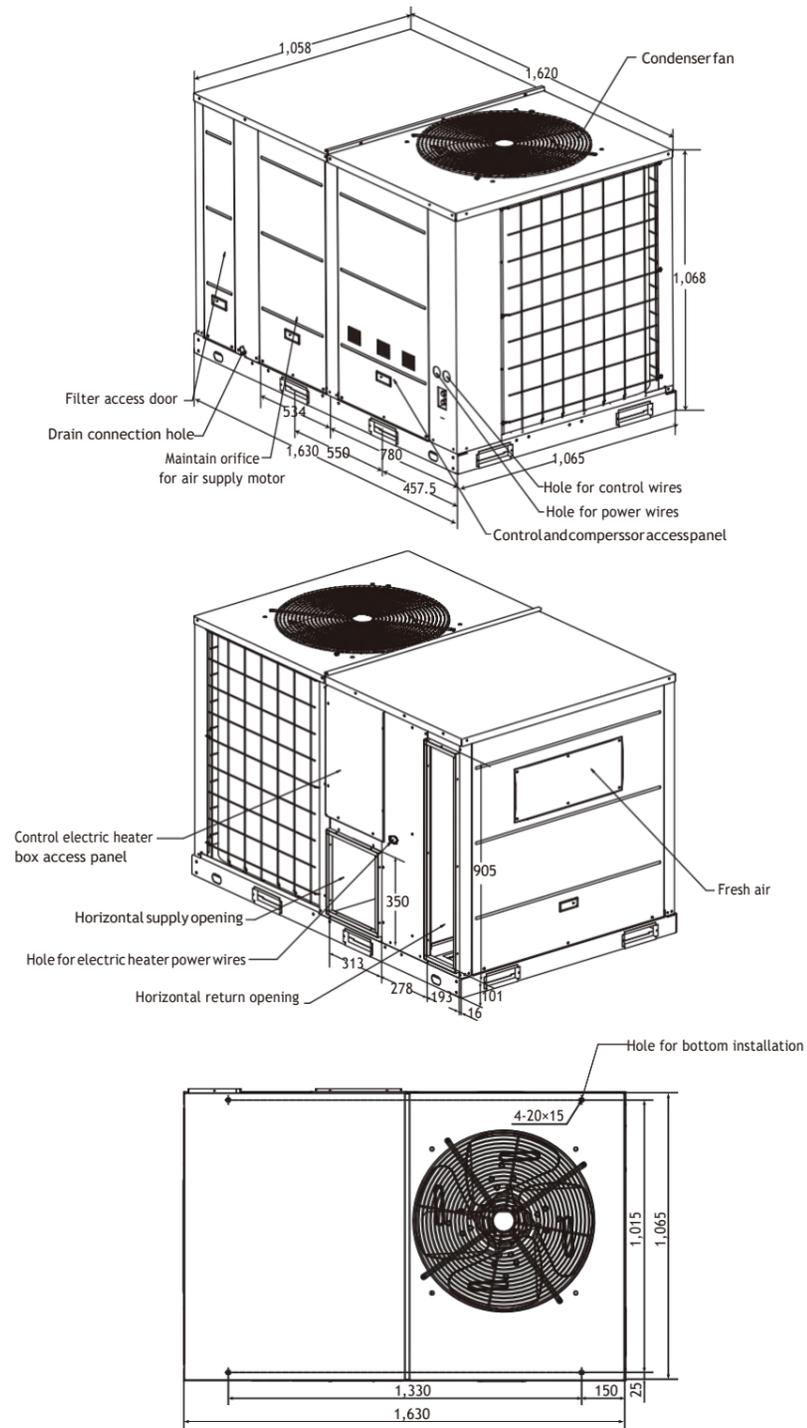
- Cooling capacity test condition (1): Outdoor ambient temperature: 35°C, indoor temperature 26.7°C DB/19.4°C WB;  
Cooling capacity test condition (2): Outdoor ambient temperature: 46.1°C, indoor temperature 26.7°C DB / 19.4°C WB;
- Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and (1 meter + height of unit)/2 above the floor.
- Specifications are subject to change without prior notice for product improvement.
- \* Nominal ton only for reference.
- Cooling or heating capacity as per specifications.

## Dimensions

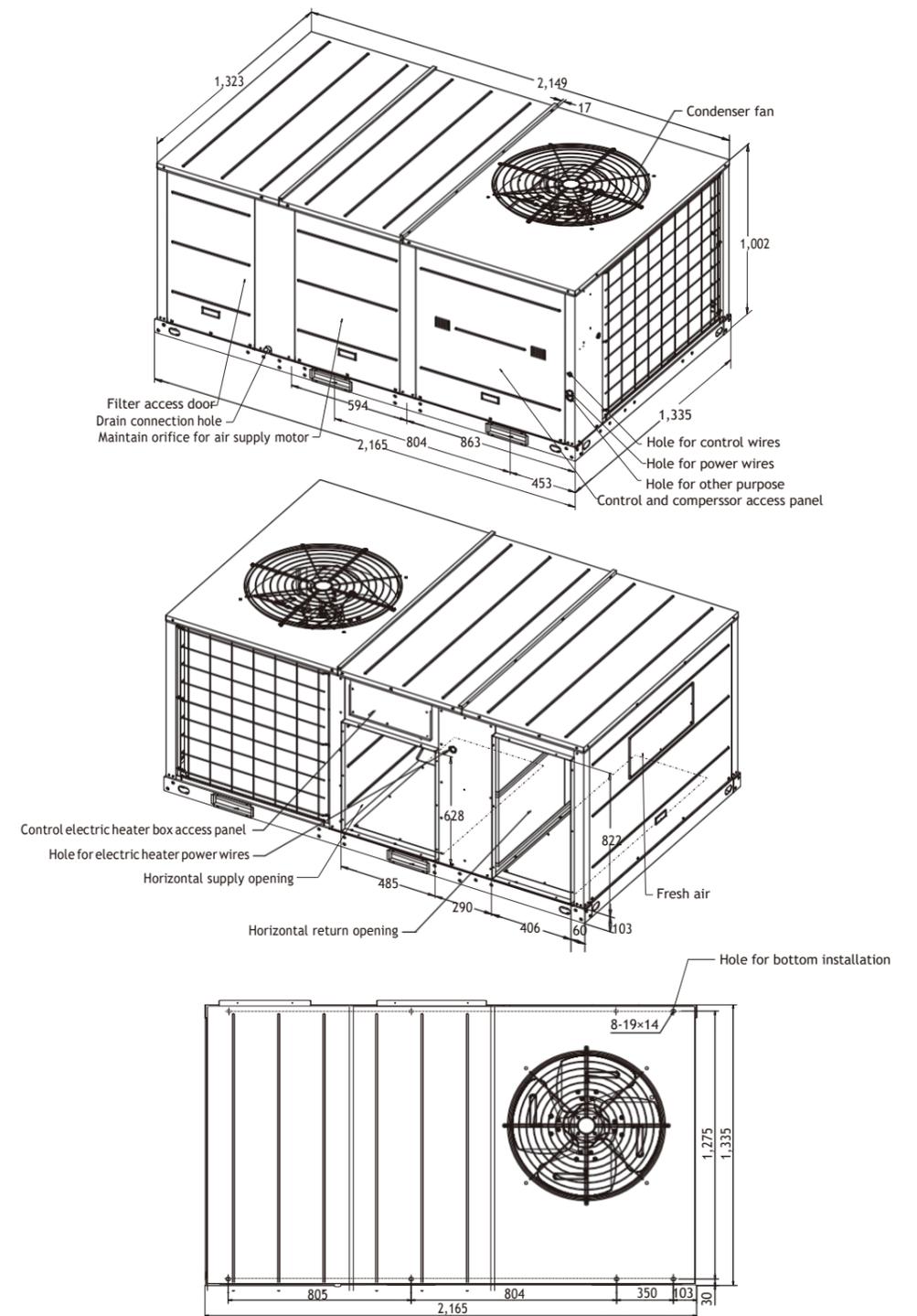
ClimaMaster, Tropical (T3) application, 380-415V-3Ph- -60Hz  
MRBT-062CWN1-Y, MRBT-062EWN1-Y  
(Units: mm)



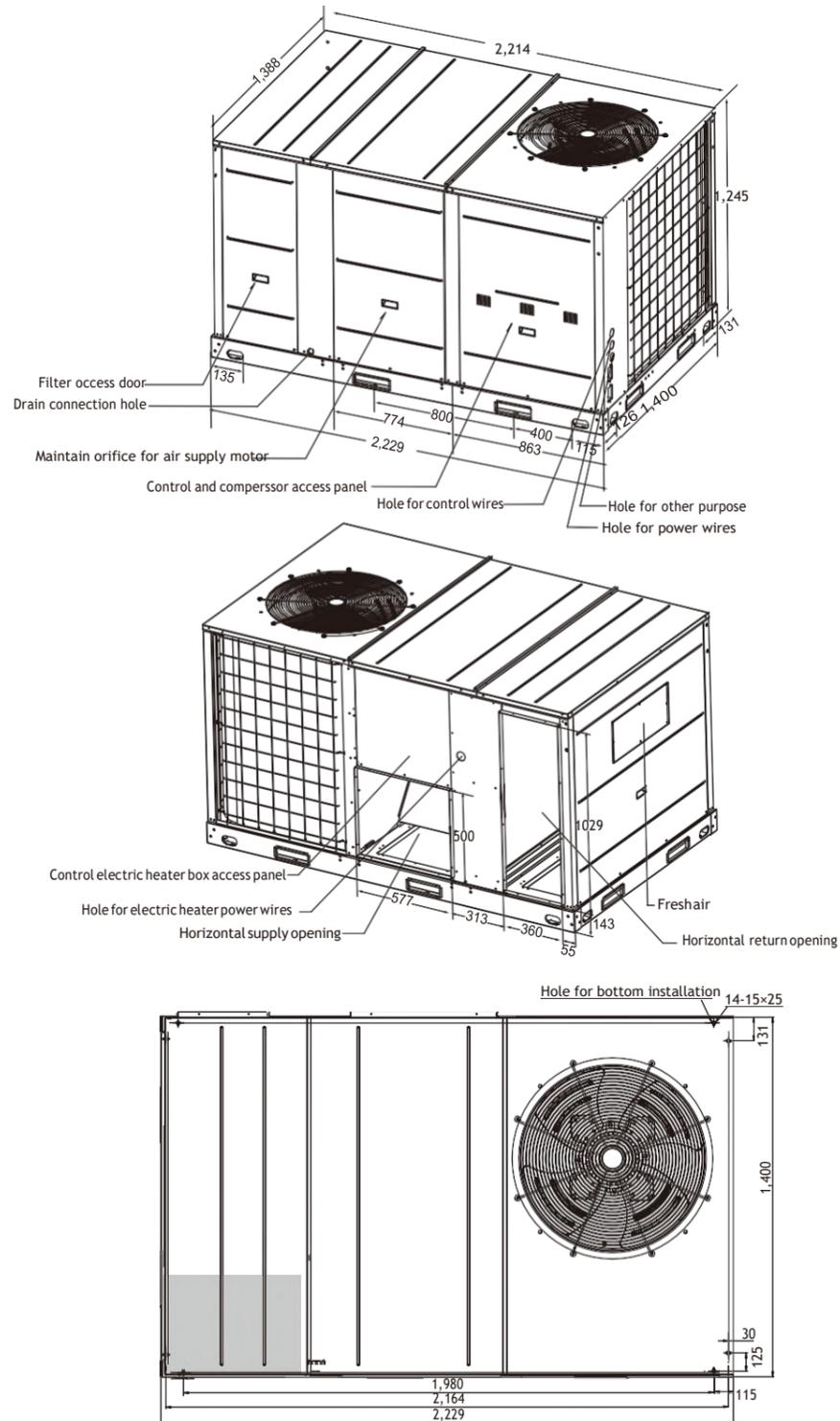
ClimaMaster, Tropical (T3) application, 380-415V-3Ph- -60Hz  
 MRBT-075CWN1-Y, MRCT-075EWN1-Y, MRBT-085CWN1-Y, MRCT-085EWN1-Y  
 (Units: mm)



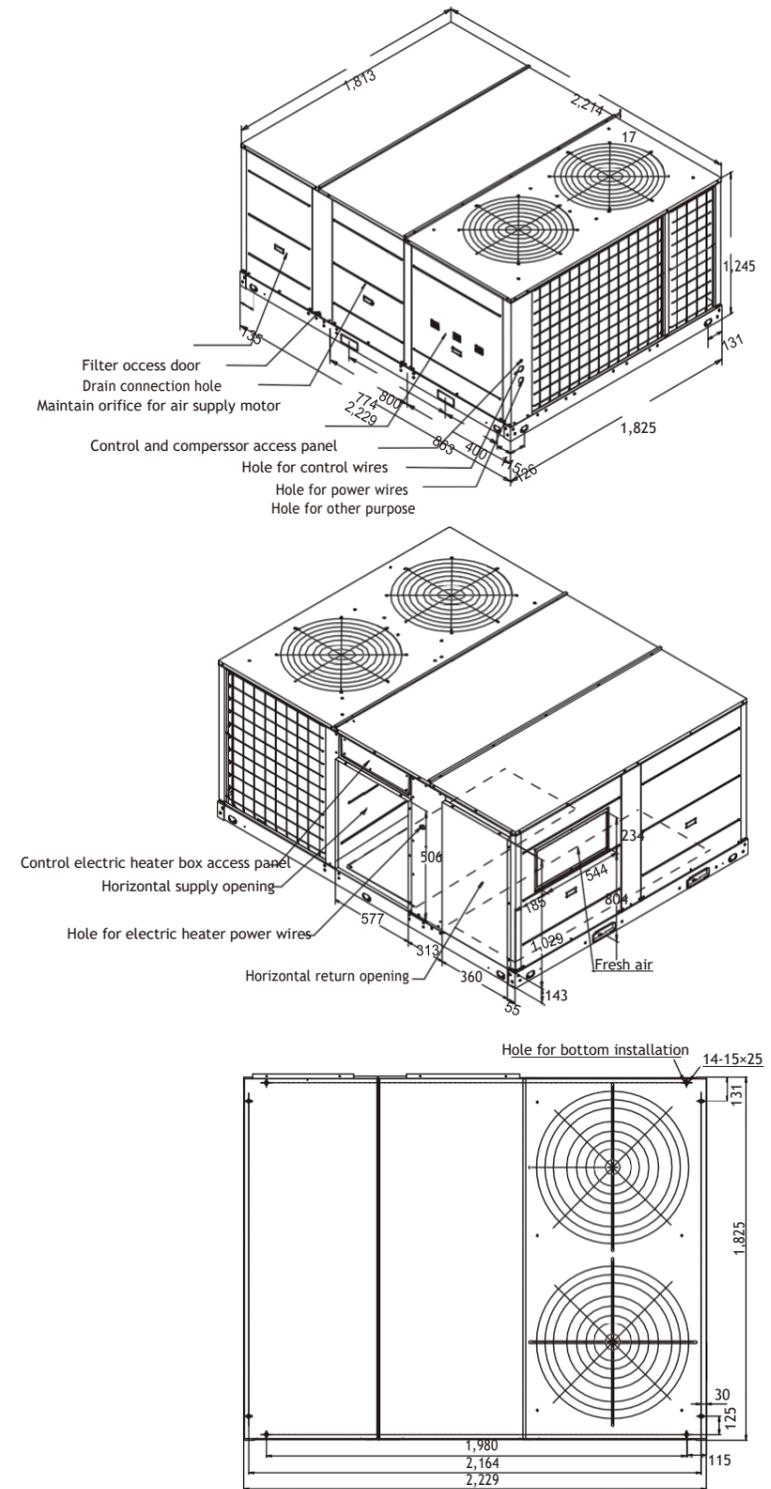
ClimaMaster, Tropical (T3) application, 380-415V-3Ph- -60Hz  
 MRBT-100CWN1-Y, MRCT-100EWN1-Y  
 (Units: mm)



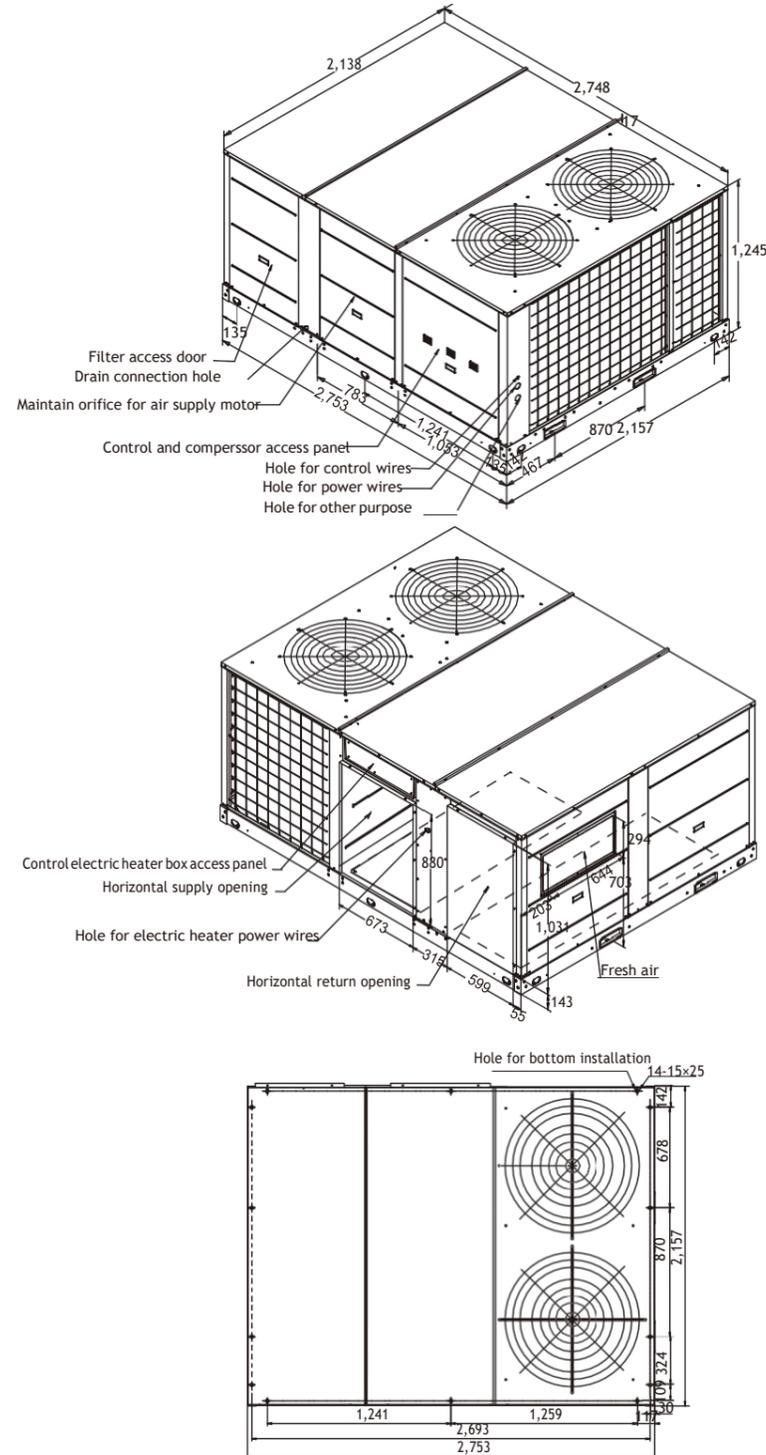
ClimaMaster, Tropical (T3) application, 380-415V-3Ph- -60Hz  
 MRBT-125CWN1-Y, MRCT-125EWN1-Y, MRBT-150CWN1-Y, MRCT-150EWN1-Y  
 (Units: mm)



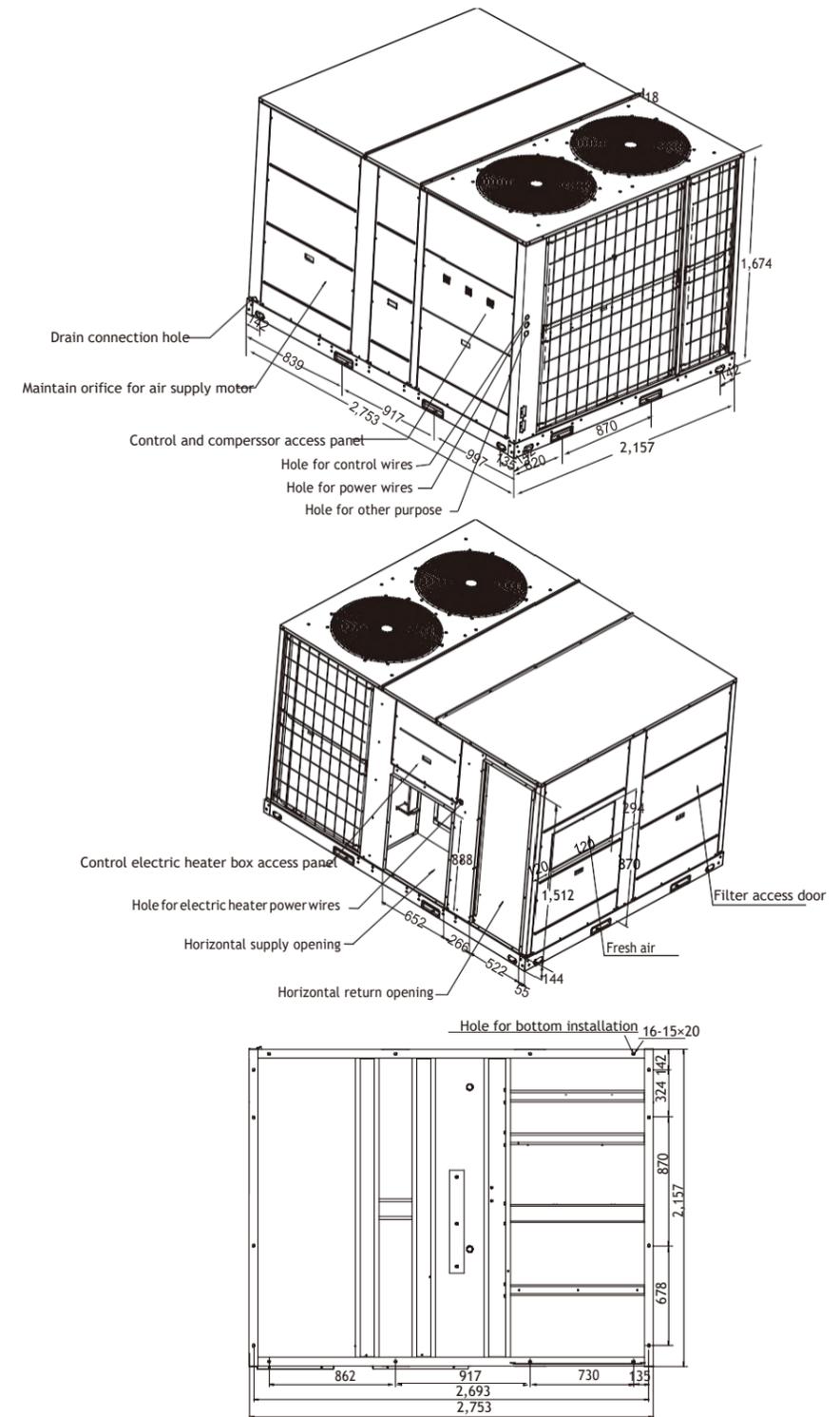
ClimaMaster, Tropical (T3) application, 380-415V-3Ph- -60Hz  
 MRBT-175CWN1-Y, MRCT-175EWN1-Y  
 (Units: mm)



ClimaMaster, Tropical (T3) application, 380-415V-3Ph- -60Hz  
 MRBT-200CWN1-Y, MRCT-200EWN1-Y, MRCT-250CWN1-Y, MRCT-250EWN1-Y  
 (Units: mm)



ClimaMaster, Tropical (T3) application, 380-415V-3Ph- -60Hz  
 MRCT-300CWN1-Y, MRCT-300EWN1-Y  
 (Units: mm)



# Controllers

## Wired controllers >>>



KJR-12B/dP(T)-E

- ❖ It is easy and convenient to select cooling, heating and fan operation mode.
- ❖ Digital display, setting temperature in 1°C.
- ❖ Controller with Follow Me function, it helps making the room environment comfortable.
- ❖ Daily timer function.



KJR-23B

- ❖ 4-minute delay function. The restarted compressor can be delayed for 4 minutes by this controller.
- ❖ Filter-monitor function. When the run-time of operations reaches certain hours, the Filter-change Indicator of controller will flash to remind checking the filter of unit.
- ❖ Easy to change °C and °F in site.



KJR-25B

## Centralized controllers >>>



CCM30



MD-NIM01

- ❖ Centralized control function. It is a multifunctional device which is able to control up to 64 units.
- ❖ It provides a superior way to manage the units. Users are able to make their own choice from locking wired controller, running mode, wireless remote controller or the CCM30's keyboard.



- ❖ The control object can be either single or all, making the controlling operation convenient. It also easy to check all units status.
- ❖ It is able to bridge up to 64 units to the network monitoring system and the building managements system.



- ❖ Two structures of centralized controller design, easy installation.



Structure A (Model No. CCM30/BKE-A) should be embedded into the wall and structure B (Model No. CCM30/BKE-B) doesn't need.