



COMMERCIAL AIR CONDITIONERS 2022

**SPLIT COMMERCIAL
AIR CONDITIONER
R410A 50Hz**

General Features for Normal Conventional Split A/C Series



Convenient for unit selection

General

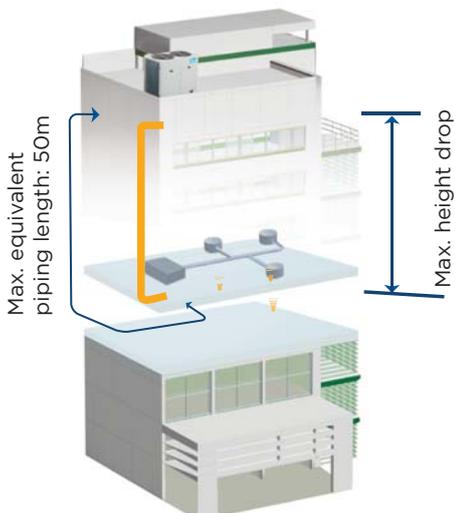
Features for Normal Conventional Split A/C Series

Wide cooling capacity range

❖ Wide cooling capacity range. The duct type split A/C is from 76,000Btu/hr to 192,000Btu/hr.

Long piping length

❖ Max. equivalent piping length is 50m. The outdoor unit can be installed at any ventilation locations. (Unavailable for AHU type)



		Permitted value
Max. Equivalent piping length		50 m
Max. height drop between indoor and outdoor unit	Outdoor unit up	25 m
	Outdoor unit down	30 m

Outstanding reliability

Durable construction

- ❖ Pre-painted exterior cabinet panels passed 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.



Anti-corrosion treatment as optional

- ❖ The large split air conditioners with special anti-corrosion treatment are suitable for seaside areas or the areas expose 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-sided 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: Hitachi, Danfoss, etc. for more reliability.
- ❖ 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 is optional.



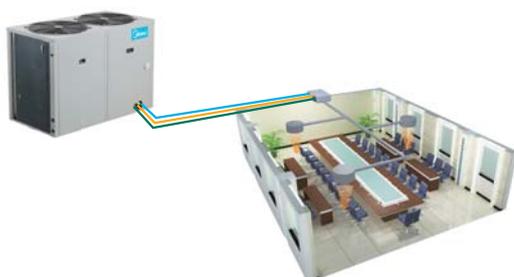
HP/LP switch



Temperature sensor

Easy for installation

- Units are completely assembled, internally wired, charged outdoor unit with refrigerant at the factory.
- The site work only needs to connect refrigerant pipes and communication wires between outdoor unit and indoor unit.



- Liquid pipe
- Gas pipe
- Connecting cable

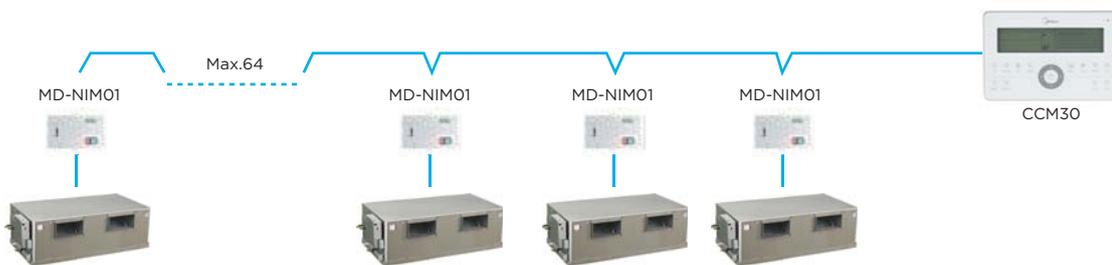
Flexible choice of accessories

Controllers

- ❖ Wireless remote controller is available for conventional split A/C series.
- ❖ Wired controller can be directly connected to indoor units.



- ❖ Centralized control function can be achieved through the centralized controller as optional. MD-NIM01 should be connected between the indoor units and centralized controller.



Notes: The new DC inverter series don't need the MD-NIM01, connect to outdoor unit directly .

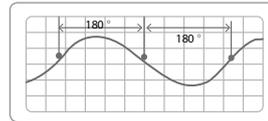
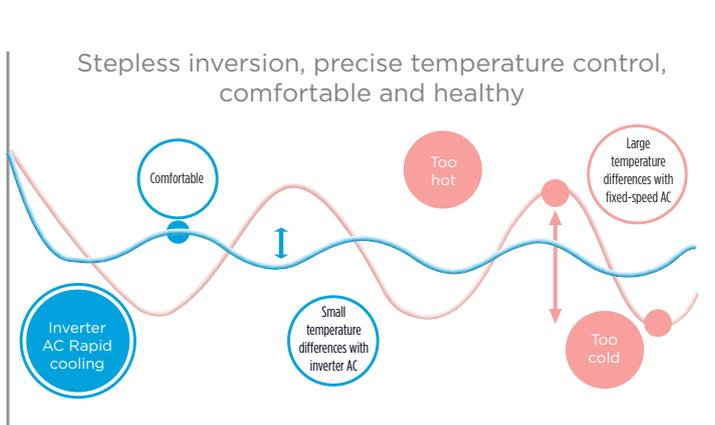
Multi-accessories

Description	Duct		Ceiling Cassette		Floor Standing	
	Standard	Optional	Standard	Optional	Standard	Optional
Filter	√		√		√	
Outlet drainage	√		√		√	
EHK (Electric Heater Kits)		√		√		√
Three-phase protector		√		√		√
Wireless controller		√	√		√	
Wired controller	√			√		√
Centralized controller		√		√		√

General Features for Normal Conventional Split A/C Series Outdoor Unit

DC inverter technology, precise temperature control

The DC inverter compressor system reaches full load rapidly providing less temperature fluctuation and improved living environment.



DC inverter technology
New generation 180° sine wave drive technology, higher energy efficiency.



Compressor seamless inverter main board
Wider inverter range control.



High-precision EXVs
Each EXV part achieves **480 pulse rate** to precisely adjust refrigerant flow.



High-precision temperature sensor
It can react to temperature fluctuations with a precision of **0.5°C**.

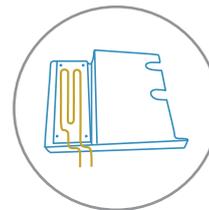
Refrigerant cooling PCB

The outdoor unit uses refrigerant cooling technology to cool the electric control box guaranteeing the stable and safe running control system.

It improves the high temperature cooling capabilities, resulting in a system that can provide powerful cooling in 55°C environment with increased high temperature cooling efficiency of 15-20%, rapidly cools in high temperature environments, with a temperature drop rate that is 5-10% faster than conventional split A/C.



* The above data was cited from a nationally accredited laboratory.



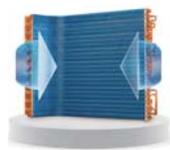
Liquid cooling is more efficient, allowing it to function in high temperature environments and making it more adaptable to high-temperature urban environments.

Branded components, smart manufacturing, professionalism, and premium quality

Combines a variety of multi-core components such as branded DC inverter compressors, high efficiency heat exchanger, and a high functionality motor. This ensures that the system is high quality, energy-saving, quiet, and durable.



Compressor of renowned brand
Utilizes branded high-efficiency DC inverter compressor for powerful operation that is more energy efficient and stable.



Efficient Heat Exchanger
Features an overlapping multiple-outlet route design, distributing the flow of air more evenly, delivering higher heat transfer and increased efficiency.



High functionality motor
Utilizes new manufacturing technology and materials to effectively mitigate wear and tear and improve operating efficiency.



Quiet fan blades
The structure of this unit's fan blades has been optimized using CFD technology, reducing the electric motor's energy consumption and operating noise.

Silence technology ensures a quiet operating environment

To implement quieter running of IDU and ODU, we used advanced technologies such as CFD and FEM, researching the sources of component vibration in air conditioning systems and optimizing the fan's blades, resulting in an air conditioning unit that creates a more comfortable and harmonious work environment for customers



- Newly-designed air guide ring
- Newly-designed air outlet grille
- Motor mount features a vibration-reduction design



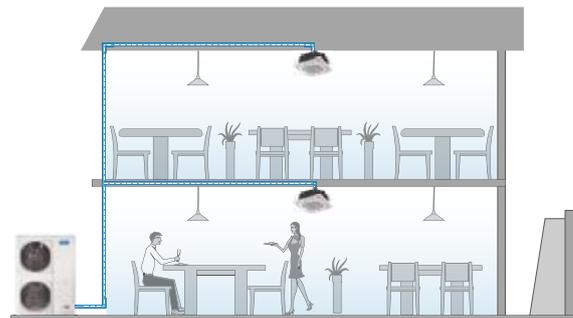
- New-generation DC inverter compressor with high performance and low noise Compressor soundproof enclosure processing
- Vibration-reduction design of 3D simulation pipe



- Large vibration-reduction axial fan
- Refrigerant flow muffling Vibration-reduction outer casing for outdoor unit

A long-pipe high-drop design allows flexible installation and optimizes space

A long-pipe high-drop design allows users to flexibly select the installation location, optimizing the use of space.



Maximum
pipe length
70m

Maximum level
difference between
IDU and ODU
30m

Creates a small footprint, saving installation space

The outdoor unit has a small footprint with only 0.333m² for a 8/10HP cooling only unit, which can significantly save installation space.



Takes up
a small
footprint



Matchable Table

One drive one system



Super high static pressure duct



Floor standing unit

One drive two system



Four-way cassette



Specifications

DC Inverter Duct



MHA-80CWDN1 / MHA-100CWDN1



MOUC-80CDN1-R / MOUC-100CDN1-R

Auto Restart
Function

Timer

Auto
DefrostingAnti-Cold
Air FunctionWired
ControllerIndependent
Dehumidification

Indoor Unit Model			MHA-80CWDN1	MHA-100CWDN1
Indoor Unit Power Supply			220-240V/1Ph/50Hz	220-240V/1Ph/50Hz
Cooling	Capacity	Btu/hr	80,000	100,000
		kW	23.50	29.31
	Input	kW	11.5	14.4
		EER	W/W	2.04
		Btu/hr/W	6.96	6.94
Max. Power Input		W	1,200	1,200
Max. Current		A	5.46	5.46
Air Flow		CMH (CFM)	4,600 (2,700)	4,600 (2,700)
Standard External Static Pressure		Pa	150 (50-196)	150 (50-196)
Noise Level		dB(A)	55/53/51	55/53/51
Fan	Type		Centrifugal	Centrifugal
	Drive Type		Direct	Direct
Coil			Copper tube and aluminum fin	
Controller			Wired controller	Wired controller
Dimension	Net (WxHxD)	mm	1,462x462x797	1,462x462x797
	Packing (WxHxD)	mm	1,555x500x875	1,555x500x875
Net/Gross Weight		kg	90/99	90/99
Outdoor Unit Model/Quantity			MOUC-80CDN1-R/1	MOUC-100CDN1-R/1
Outdoor Unit Power Supply			380-415V/3Ph/50Hz	380-415V/3Ph/50Hz
Max. Power Input		kW	14.0	14.0
Max. Current		A	32.0	32.0
Air Flow Rate		CMH (CFM)	7,150 (4,200)	7,150 (4,200)
Noise Level		dB(A)	62	62
Compressor	Type		Rotary	Rotary
	Quantity		1	1
Refrigerant	Type		R410A	R410A
	Quantity	Kg	3.9	3.9
Fan Type / Drive Type			Axial fan/Direct	Axial fan/Direct
Coil			Copper tube and aluminum fin	
Refrigerant Pipe	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Ambient temperature		Cooling °C	10-55	10-55
Dimension	Net (WxHxD)	mm	978x1,327x400	978x1,327x400
	Packing (WxHxD)	mm	1,030x1,456x435	1,030x1,456x435
Net/Gross Weight		kg	115/125	115/125

Notes:

- Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
- Specifications are subject to change without prior notice for product improvement.

Specifications

DC Inverter Floor Standing



MFA-80CRDN1 / MFA-100CRDN1



MOUC-80CDN1-R / MOUC-100CDN1-R



Anti-Cold
Air Function



Auto Restart
Function



Independent
Dehumidification



Timer



Auto
Defrosting

Indoor Unit Model			MFA-80CRDN1	MFA-100CRDN1
Indoor Unit Power Supply			220-240V/1Ph/50Hz	220-240V/1Ph/50Hz
Cooling	Capacity	Btu/hr	80,000	100,000
		kW	23.50	29.50
	Input	kW	11.0	13.9
		EER	W/W	2.14
		Btu/hr/W	7.27	7.19
Max. Power Input		W	600	600
Max. Current		A	2.73	2.73
Air Flow		CMH (CFM)	4,500 (2,650)	4,500 (2,650)
Noise Level		dB(A)	60/58/56	60/58/56
Fan	Type		Centrifugal	Centrifugal
	Drive type		Direct	Direct
Coil			Copper tube and aluminum fin	
Controller			Remote controller	Remote controller
Dimension	Net (WxHxD)		mm	1,200x1,860x518
	Packing (WxHxD)		mm	1,362x2,050x582
Net/Gross Weight		kg	140/155	140/155
Outdoor Unit Model/Quantity			MOUC-80CDN1-R/1	MOUC-100CDN1-R/1
Outdoor Unit Power Supply			380-415V/3Ph/50Hz	380-415V/3Ph/50Hz
Max. Power Input		kW	14.0	14.0
Max. Current		A	32.0	32.0
Air Flow Rate		CMH (CFM)	7,150 (4,200)	7,150 (4,200)
Noise Level		dB(A)	62	62
Compressor	Type		Rotary	Rotary
	Quantity		1	1
Refrigerant	Type		R410A	R410A
	Quantity	kg	3.9	3.9
Fan Type/Drive Type			Axial fan/Direct	Axial fan/Direct
Coil			Copper tube and aluminum fin	
Refrigerant Pipe	Liquid	mm	Ø9.53	Ø9.53
	Gas	mm	Ø22.2	Ø22.2
Ambient Temperature	Cooling	°C	10-55	10-55
Dimension	Net (WxHxD)		mm	978x1,327x400
	Packing (WxHxD)		mm	1,030x1,456x435
Net/Gross Weight		kg	115/125	115/125

Notes:

- Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
- Specifications are subject to change without prior notice for product improvement.

Specifications

DC Inverter Four-way Cassette



MQ4A-40CRDN1 / MQ4A-50CRDN1



MOUC-80CDN1-R / MOUC-100CDN1-R



Anti-Cold Air Function



Auto Restart Function



Independent Dehumidification



Timer



Auto Defrosting

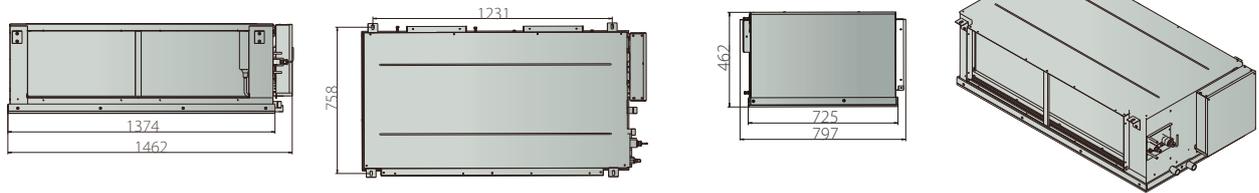
Indoor Unit Model/Quantity			MQ4A-40CRDN1/2	MQ4A-50CRDN1/2	
Panel/Quantity			T-MBQ-02C1/2	T-MBQ-02C1/2	
Branch Joint/Quantity			FQZHN-02D/1	FQZHN-02D/1	
Indoor Unit Power Supply			220-240V/1Ph/50Hz	220-240V/1Ph/50Hz	
Cooling	Capacity	Btu/hr	80,000	100,000	
		kW	23.5	29.31	
	EER	Input	kW	10.5	12.6
		W/W	2.24	2.33	
		Btu/hr/W	7.62	7.94	
Max. Power Input		W	190	190	
Max. Current		A	1.01	1.01	
Air Flow		CMH (CFM)	1,800 (1,060)	1,800 (1,060)	
Noise Level (Single Unit)		dB(A)	41/39/37	41/39/37	
Fan	Type		Centrifugal	Centrifugal	
	Drive type		Direct	Direct	
Coil			Copper tube and aluminum fin		
Controller			Remote controller	Remote controller	
Dimension	Net (WxHxD)	mm	840x300x840 950x950x46 (Panel)	840x300x840 950x950x46 (Panel)	
	Packing (WxHxD)	mm	955x317x955 1,035x1,035x90 (Panel)	955x317x955 1,035x1,035x90 (Panel)	
Net/Gross weight		kg	30.9/36.3 5/8 (Panel)	30.9/36.3 5/8 (Panel)	
Outdoor Unit Model/Quantity			MOUC-80CDN1-R/1	MOUC-100CDN1-R/1	
Outdoor Unit Power Supply			380-415V/3Ph/50Hz	380-415V/3Ph/50Hz	
Max. Power Input		kW	14.0	14.0	
Max. Current		A	32.0	32.0	
Air Flow Rate		CMH (CFM)	7,150 (4,200)	7,150 (4,200)	
Noise Level		dB(A)	62	62	
Compressor	Type		Rotary	Rotary	
	Quantity		1	1	
Refrigerant	Type		R410A	R410A	
	Quantity	Kg	3.9	3.9	
Fan type / Drive type			Axial fan/Direct	Axial fan/Direct	
Coil			Copper tube and aluminum fin		
Refrigerant Pipe	Liquid	mm	Φ9.53	Φ9.53	
	Gas	mm	Φ22.2	Φ22.2	
Ambient Temperature		Cooling °C	10-55	10-55	
Dimension	Net (WxHxD)	mm	978x1,327x400	978x1,327x400	
	Packing (WxHxD)	mm	1,030x1,456x435	1,030x1,456x435	
Net / Gross weight		kg	115/125	115/125	

Notes:

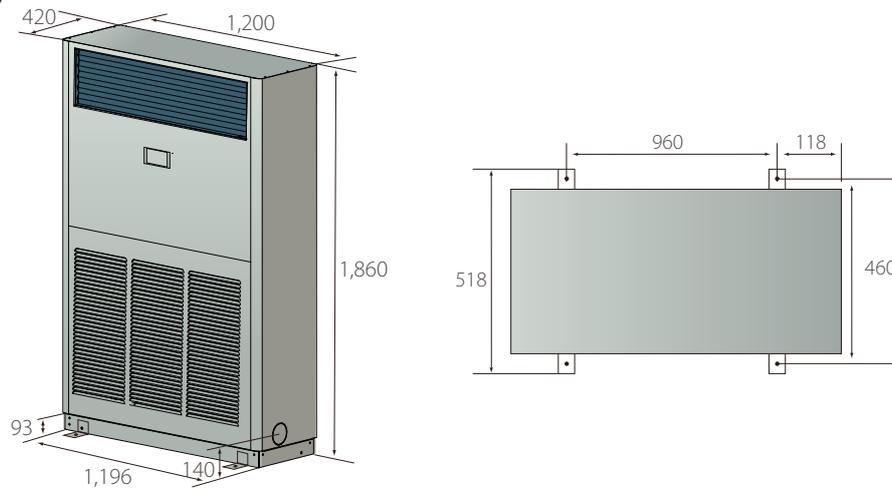
- Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
- Specifications are subject to change without prior notice for product improvement.

Dimensions

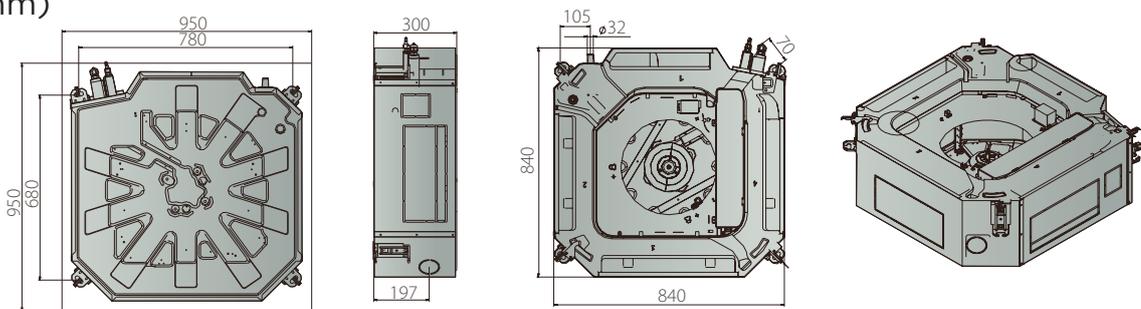
DC Inverter Duct Indoor Unit: MHA-80CWDN1, MHA-100CWDN1
(Units: mm)



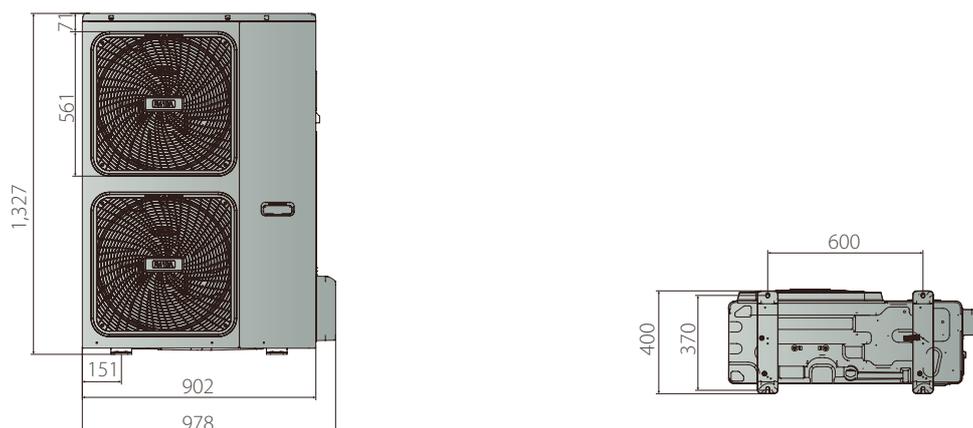
DC Inverter Floor-standing indoor unit: MFA-80CRDN1, MFA-100CRDN1
(Units: mm)



DC inverter four-way cassette unit: MQ4A-40CRDN1, MQ4A-50CRDN1
(Units: mm)



Outdoor unit: MOUC-80CDN1-R, MOUC-100CDN1-R
(Units: mm)



Specifications

Non Inverter Duct



MTA-76CRN1



MTBIT-96CWN1



MTA-120CRN1



MOV-76CN1-C / MOVTA-96CN1-R



MOV-120CN1-C

Auto Restart
Function

Timer

Auto
DefrostingAnti-Cold
Air FunctionWired
ControllerIndependent
Dehumidification

Indoor Unit Model			MTA-76CRN1	MTBIT-96CWN1	MTA-120CRN1
Indoor Unit Power Supply			220-240V/1Ph/50Hz	220-240V/1Ph/50Hz	220-240V/1Ph/50Hz
Cooling	Capacity	Btu/hr	76,000	96,000	120,000
		kW	22.27	28.10	35.17
	Input	kW	7.5	9.6	12.0
		EER	W/W	2.97	2.93
		Btu/hr/W	10.13	10.00	10.00
Max. power input		W	1,732	1,400	2,576
Max. current		A	7.5	5.8	11.2
Air flow (Hi)		CMH (CFM)	4,250 (2,500)	5,100 (3,000)	6,375 (3,750)
Standard External Static Pressure		Pa	100 (20-180)	100 (20-200)	150 (20-230)
Noise level (Hi)		dB(A)	58	56	63
Fan	Type		Centrifugal	Centrifugal	Centrifugal
	Drive Type		Direct	Direct	Direct
Coil			Copper tube and aluminum fin		
Controller			Wired controller	Wired controller	Wired controller
Dimension	Net (WxHxD)	mm	1,443x450x846	1,452x462x797	1,988x669x906
	Packing (WxHxD)	mm	1,549x476x917	1,555x500x875	2,095x800x964
Net/Gross weight		kg	105/120	97/109	168/196
Outdoor Unit Mode / Quantity			MOV-76CN1-C / 1	MOVTA-96CN1-R / 1	MOV-120CN1-C / 1
Outdoor Unit Power Supply			380-415V/3Ph/50Hz	380-415V/3Ph/50Hz	380-415V/3Ph/50Hz
Max. Power Input		kW	11.2	14.4	15.6
Max. Current		A	17.5	23.7	25.0
Air Flow Rate		CMH (CFM)	12,500 (7,350)	12,500 (7,350)	13,000 (7,650)
Noise Level		dB(A)	65	68	69
Compressor	Type		Scroll	Scroll	Scroll
	Quantity		1	1	1
Refrigerant	Type		R410A	R410A	R410A
	Quantity	kg	5.4	6.0	7.2
Fan Type/Drive Type			Axial fan/Direct	Axial fan/Direct	Axial fan/Direct
Coil			Copper tube and aluminum fin		
Refrigerant Pipe	Liquid	mm	Φ9.53	Φ12.7	Φ12.7
	Gas	mm	Φ22.2	Φ25.4*	Φ28.6
Ambient Temperature	Cooling	°C	17-52	17-52	17-52
Dimension	Net (WxHxD)	mm	1,260x908x700	1,312x919x658	1,260x908x700
	Packing (WxHxD)	mm	1,320x1,060x730	1,320x1,060x730	1,320x1,060x730
Net / Gross weight		kg	171/190	168/183	199/215

Notes:

1. Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.

2. Specifications are subject to change without prior notice for product improvement.

*Connection piping diameter of outdoor unit is the stop valve diameter of the outdoor unit. When the length of the refrigerant pipe between indoor and outdoor is not more than 30m, please connect the straight pipe as the accessory in outdoor unit with high pressure stop valve to change the diameter of liquid pipe to Φ9.52. When the length of the refrigerant pipe is more than 30m and less than 50m, please connect the straight pipe (prepared in site) with low pressure stop valve to change the diameter of gas pipe to Φ28.1.

Specifications

Non Inverter Duct



MHA-150HWN1 / MHA-192HWN1



MOV-150HN1-R



MOV-192HN1-R

Auto Restart
Function

Timer



Auto Defrosting

Anti-Cold
Air FunctionWired
ControllerIndependent
Dehumidification

Indoor Unit Model			MHA-150HWN1	MHA-192HWN1
Indoor Unit Power Supply			220-240V/1Ph/50Hz	220-240V/1Ph/50Hz
Cooling	Capacity	Btu/hr	151,000	192,000
		kW	44.00	56.30
	Input	kW	16.3	22.0
		EER	W/W	2.70
Heating	Capacity	Btu/hr	160,300	200,000
		kW	47.0	58.6
	Input	kW	15.7	19.3
		COP	W/W	2.99
Max. Power Input		W	2,370	4,690
Max. Current		A	12.1	20.9
Air Flow		CMH (CFM)	8,500 (5,000)	10,800 (6,350)
Standard External Static Pressure		Pa	196 (50-280)	196 (50-280)
Noise Level		dB(A)	63	65
Fan	Type		Centrifugal	Centrifugal
	Drive type		Direct	Direct
Coil			Copper tube and aluminum fin	
Controller			Wired controller	Wired controller
Dimension	Net (WxHxD)	mm	1,988x669x906	1,988x669x906
	Packing (WxHxD)	mm	2,095x800x964	2,095x800x964
Net/Gross Weight		kg	208/220	215/230
Outdoor Unit Model / Quantity			MOV-150HN1-R/1	MOV-192HN1-R/1
Outdoor Unit Power Supply			380-415V/3Ph/50Hz	380-415V/3Ph/50Hz
Max. Power Input		kW	26.9	32.2
Max. Current		A	47.9	53.8
Air Flow Rate		CMH (CFM)	16000 (9412)	16000 (9412)
Noise Level		dB(A)	70	73
Compressor	Type		Scroll	Scroll
	Quantity		3	3
Refrigerant	Type		R410A	R410A
	Quantity	kg	10.0	11.8
Fan Type/Drive Type			Axial fan/Direct	Axial fan/Direct
Coil			Copper tube and aluminum fin	
Refrigerant pipe	Liquid	mm	Φ16.0	Φ16.0
	Gas	mm	Φ32.0	Φ35.0*
Ambient Temperature	Cooling	°C	17-46	17-46
Dimension	Net (WxHxD)	mm	1,250x1,615x765	1,390x1,615x765
	Packing (WxHxD)	mm	1,305x1,790x820	1,455x1,790x830
Net / Gross weight		kg	288/308	320/336

Notes:

1. Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.

2. Specifications are subject to change without prior notice for product improvement.

*The connection pipes between indoor unit and outdoor unit are Φ16/Φ35. The Φ32 stop valve of outdoor unit should be connected with the straight pipe packaged with outdoor unit to change to Φ35.

Specifications

Non Inverter Floor Standing



MFA-76CRN1 / MFA3T-96CRN1 /
MFAT-120CRN1



MOV-76CN1-C / MOVTA-96CN1-R



MOV-120CN1-C



Anti-Cold
Air Function



Auto Restart
Function



Independent
Dehumidification



Timer



Auto
Defrosting

Indoor Unit Model			MFA-76CRN1	MFA3T-96CRN1	MFAT-120CRN1	
Indoor Unit Power Supply			220-240V/1Ph/50Hz	220-240V/1Ph/50Hz	220-240V/1Ph/50Hz	
Cooling	Capacity	Btu/hr	76,000	96,000	120,000	
		kW	22.27	28.10	35.17	
	Input	kW	7.5	9.6	12.0	
		EER	W/W	2.97	2.93	2.93
		Btu/hr/W	10.13	10.00	10.00	
Max. Power Input			W	805	700	1,070
Max. Current			A	3.5	3.0	4.7
Air Flow			CMH (CFM)	4,250 (2,500)	5,100 (3,000)	6,060 (3,560)
Noise Level			dB(A)	58	56	65
Fan	Type	Centrifugal				
	Drive Type	Direct				
Coil			Copper tube and aluminum fin			
Controller			Remote controller	Remote controller	Remote controller	
Dimension	Net (WxHxD)	mm	1,200x1,860x518	1,200x1,860x518	1,200x1,860x518	
	Packing (WxHxD)	mm	1,362x2,050x582	1,362x2,050x582	1,362x2,050x582	
Net/Gross Weight			kg	138/153	140/154	148/163
Outdoor Unit Model/Quantity			MOV-76CN1-C/1	MOVTA-96CN1-R/1	MOV-120CN1-C/1	
Outdoor Unit Power Supply			380-415V/3Ph/50Hz	380-415V/3Ph/50Hz	380-415V/3Ph/50Hz	
Max. Power Input			kW	11.2	14.4	15.6
Max. Current			A	17.5	23.7	25.0
Air Flow Rate			CMH (CFM)	12,500 (7,350)	12,500 (7,350)	13,000 (7,650)
Noise Level			dB(A)	65	68	69
Compressor	Type	Scroll				
	Quantity	1				
Refrigerant	Type	R410A				
	Quantity	kg	5.4	6.0	7.2	
Fan Type/Drive Type			Axial fan/Direct			
Coil			Copper tube and aluminum fin			
Refrigerant Pipe	Liquid	mm	Φ9.53	Φ12.7	Φ12.7	
	Gas	mm	Φ22.2	Φ25.4*	Φ28.6	
Ambient Temperature	Cooling	°C	17-52	17-52	17-52	
Dimension	Net (WxHxD)	mm	1,260x908x700	1,312x919x658	1,260x908x700	
	Packing (WxHxD)	mm	1,320x1,060x730	1,320x1,060x730	1,320x1,060x730	
Net / Gross weight			kg	171/190	168/183	199/215

Notes:

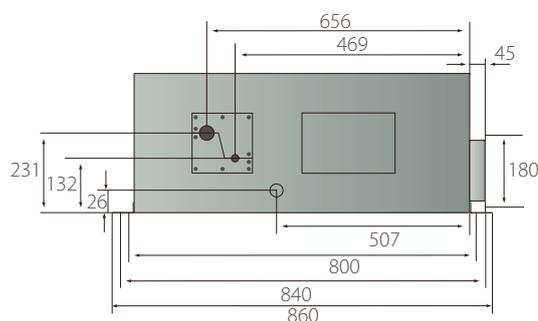
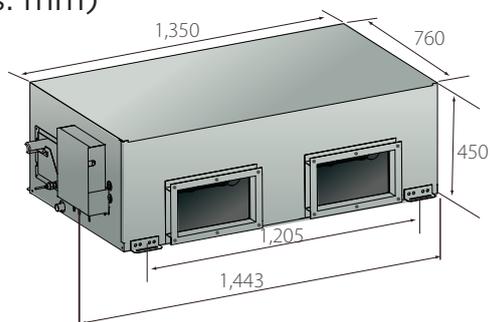
1. Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.

2. Specifications are subject to change without prior notice for product improvement.

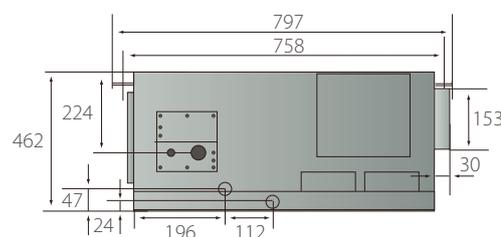
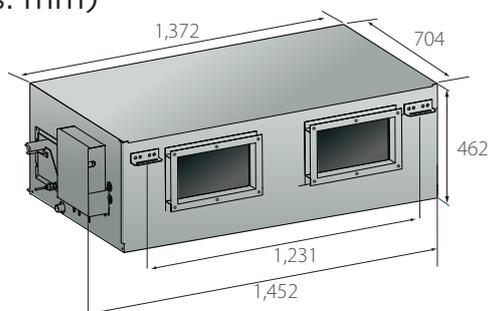
*Connection piping diameter of outdoor unit is the stop valve diameter of the outdoor unit. When the length of the refrigerant pipe between indoor and outdoor is not more than 30m, please connect the straight pipe as the accessory in outdoor unit with high pressure stop valve to change the diameter of liquid pipe to Φ9.52. When the length of the refrigerant pipe is more than 30m and less than 50m, please connect the straight pipe (prepared in site) with low pressure stop valve to change the diameter of gas pipe to Φ28.1.

Dimensions

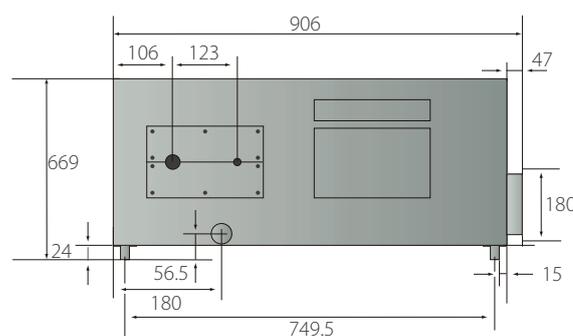
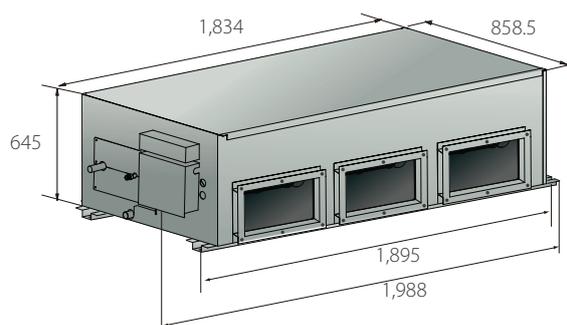
Duct indoor unit: MTA-76CRN1
(Units: mm)



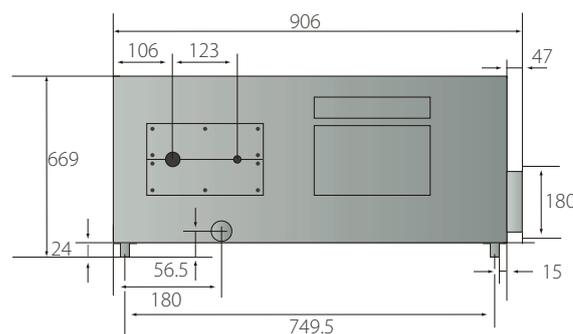
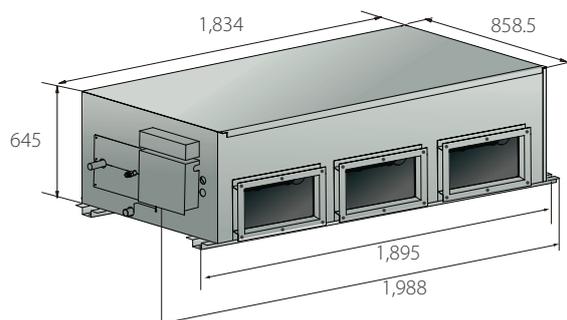
Duct indoor unit: MTBIT-96CWN1
(Units: mm)



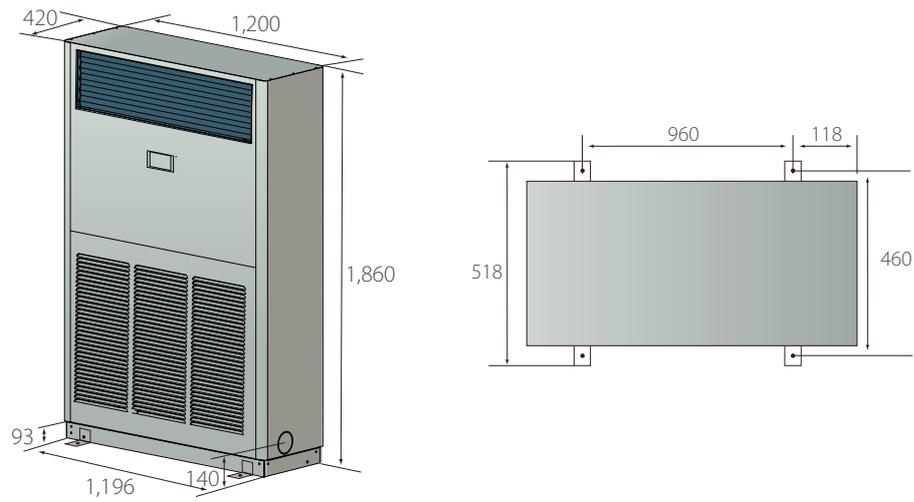
Duct indoor unit: MTA-120CRN1
(Units: mm)



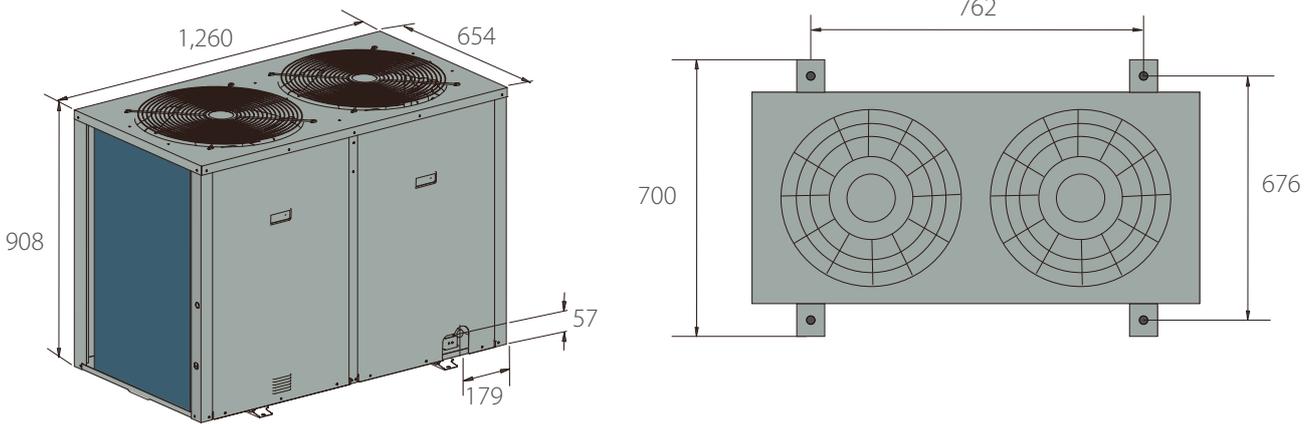
Duct indoor unit: MHA-150HWN1 / MHA-192HWN1
(Units: mm)



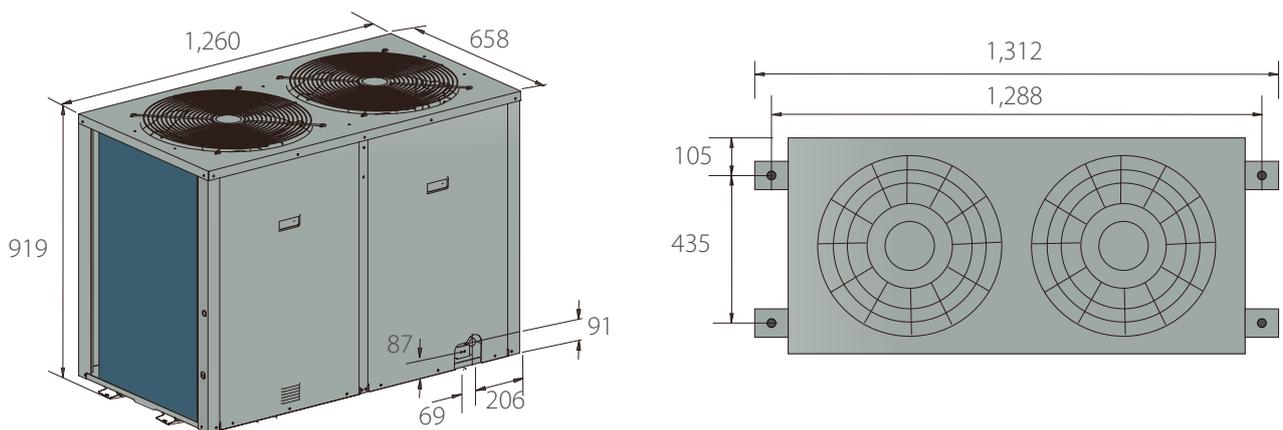
Floor-standing indoor unit: MFA-76CRN1, MFA3T-96CRN1, MFAT-120CRN1
(Units: mm)



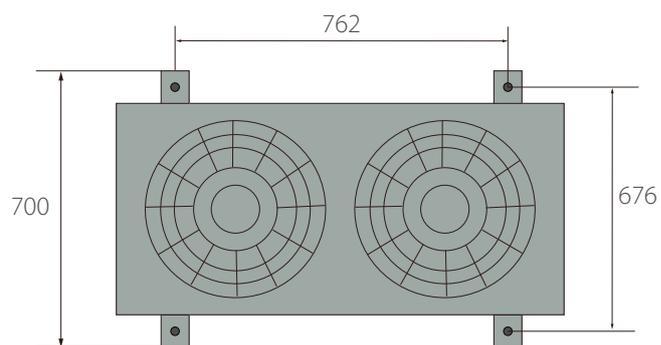
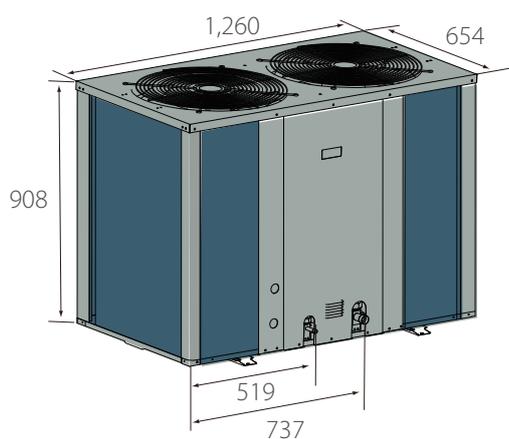
Outdoor unit: MOV-76CN1-C
(Units: mm)



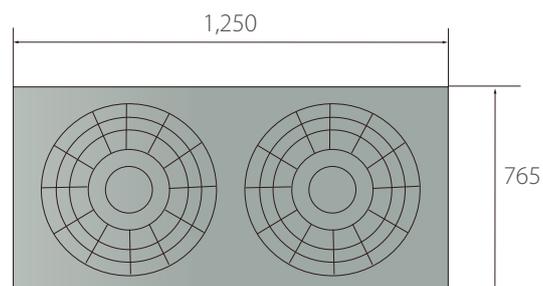
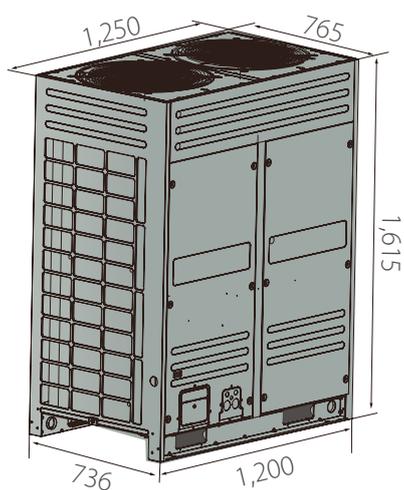
Outdoor unit: MOVTA-96CN1-R
(Units: mm)



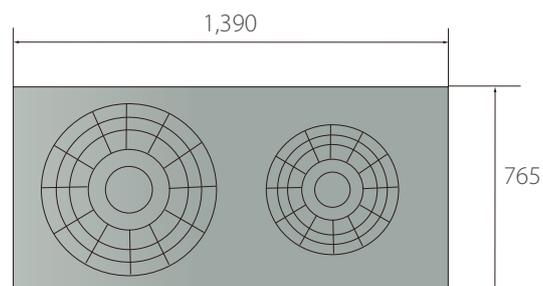
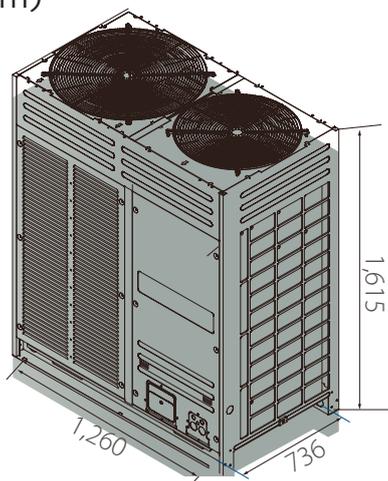
Outdoor unit: MOV-120CN1-C
(Units: mm)



Outdoor unit: MOV-150HN1-R
(Units: mm)



Outdoor unit: MOV-192HN1-R
(Units: mm)



Controller



Remote Controller - R51



Parameter

Model: R51/CE (Cooling only type)
R51/E (Heat pump type)
Dimension (mm): 140×60×15
Power: 1.5V (LR03/AAA)×2

RM05



Parameter

Model: RM05
Dimension (mm): 150×65×20
Power: 1.5V (LR03/AAA)×2

Standard features

- ❖ It provides a convenient way for users to control the air conditioners everywhere within a range up to 11m.
- ❖ Built-in daily timer offers the convenience of automatically starting and turning down the air conditioners according to the set time.

Wired Controller - KJR-29B



Parameter

Model: KJR-29B (Touch-style key)
Dimension (mm): 120×120×20
Power: From the display panel,
extra power is unnecessary.

Standard features

- ❖ Keyboard locking function as standard, it can be used to prevent other people from using the controller.
- ❖ Built-in daily timer offers the convenience of automatically starting and turning down the air conditioners according to the set time.

Remote signal receiving function

- ❖ KJR-29B provides a signal receiver to receive the signal from remote controller.
- ❖ The received signal can be directly sent to the indoor unit by wired controller to ease the control of the air conditioner.



Silent mode

- ❖ When operating under the silent mode, the units can reduce the running noise through setting the fan speed to low automatically. It will help to provide a quieter environment.

Centralized Controller - CCM30



Parameter

Model: CCM30 + MD-NIM01

Dimension (mm): 180×122×78 (CCM30BKE-B)

180×122×68 (CCM30BKE-A)

81.8×46.8×15.5 (MD-NIM01)

Power: 198-242V, 50/60Hz (MD-CCM30)

DC+5V (MD-NIM01)

Centralized control

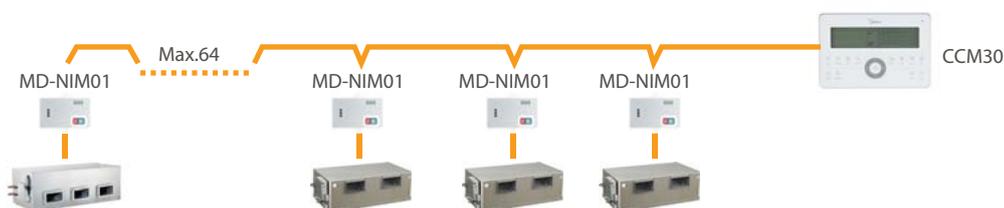
- ❖ MD-CCM30, centralized controller, is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1200m.
- ❖ User can group control or individual control and the setting of each unit's temperature can be difference.
- ❖ The indoor units operating status and error codes can be displayed in the screen of CCM30. Via checking the error codes table in the user manual, user can easily find out the malfunction and contact service team.

Three lock modes

- ❖ Centralized controller provides a superior way to manage the indoor units. Users can be able to make their own choice from three locking mode: locking the wireless controller, locking the running mode or locking centralized controller keyboard as preferred.

Access to network monitoring

- ❖ MD-CCM30 is able to bridge up to 64 indoor units to network monitoring system and building management system.



Note: The new DC inverter series connected to outdoor unit XYE port directly.

Easy installation

- ❖ Two structures design, easy installation. Structure A (Model No. CCM30/BKE-A) requires be embedded into the wall while structure B (Model No. CCM30/BKE-B) doesn't require.



Structure A



Structure B





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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.