



Commercial Air Conditioners



Split Commercial A/C

R410A 60Hz

Green Energy HVAC

Green Energy HVAC is a key division of the Coleman Group, a leading producer of consumer appliances and provider of heating, ventilation and air conditioning solutions. Green Energy has continued with the tradition of innovation upon which it was founded, and emerged as a global leader in the HVAC industry. A strong drive for advancement has created a groundbreaking R&D department that has placed Green Energy at the forefront of a competitive field. Through these independent efforts and joint cooperation with other global enterprises, Green Energy has supplied thousands of innovative solutions to customers worldwide.





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Introduction

Green Energy split type air conditioners are designed and manufactured to meet the requirements of the home, office, hotel and others public occasion use. The units are completely assembled, internally wired, charged outdoor unit with refrigerant at the factory.

Application	Power supply	Series		Nominal cooling capacity						
				76 kBtu/h	90 kBtu/h	96 kBtu/h	120 kBtu/h	150 kBtu/h	180 kBtu/h	240 kBtu/h
				6.25RT	7.5RT	8RT	10RT	12.5RT	15RT	20RT
R410A T1	220V, 3Ph~, 60Hz	Indoor units (Commercial air handler)			○		○			
	208~230V, 3Ph~, 60Hz	Outdoor units			○		○			
	220V, 1Ph~, 60Hz	Indoor units	Med-static Pressure Duct	○		○	○			
R410A Tropical (T3)	380V, 3Ph~, 60Hz	Outdoor units		○		○	○			
	208-2300V, 1Ph~, 60Hz	Indoor units	Med-static Pressure Duct	○		○	○	○	○	○
			Floor-standing	○		○	○			
	208~230V, 3Ph~, 60Hz	Outdoor units		○		○	○			

Notes:

1. Product's cooling capacity as per specification.



General Features

Convenient for unit selection

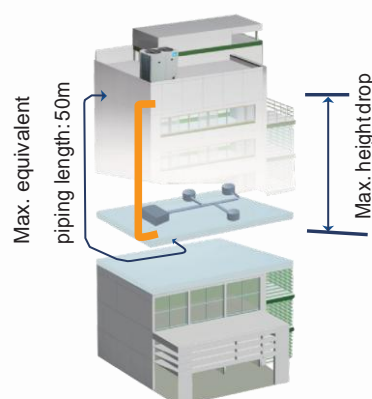
Wide cooling capacity range >>

- ❖ Wide cooling capacity range, from 76,000Btu/h to 240,000Btu/h.

Long piping length >>

- ❖ Max. equivalent piping length is 50m. The outdoor unit can be installed at any ventilation locations.

		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 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 large split 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: 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 for installation

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

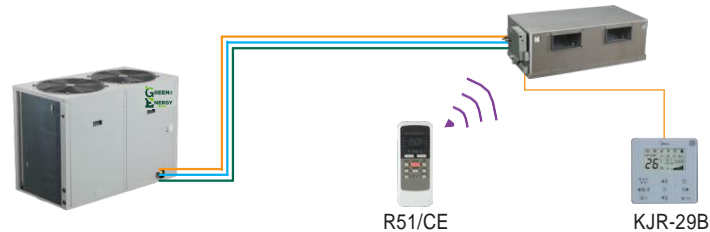


- Liquid pipe
- Gas pipe
- Connecting cable

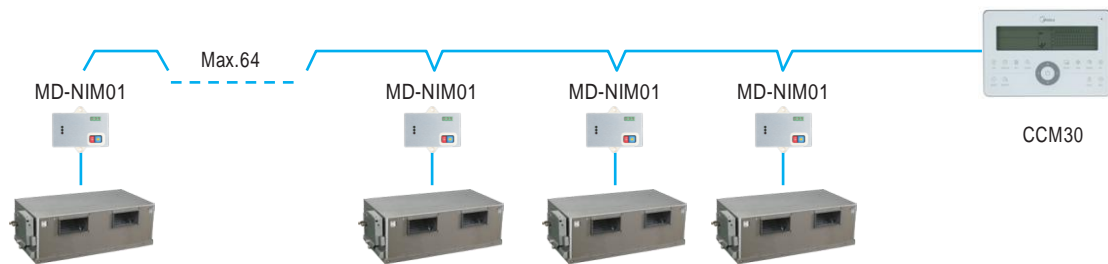
Flexible choice of accessories

Controllers >>

- ❖ Wireless remote controller as standard. (Only available for tropical T3 type units)
- ❖ Wired controller as optional.



- ❖ Centralized control function can be achieved through the centralized controller as optional. MD-NIM01 should be connected between the indoor units and centralized controller. (Only available for tropical T3 type units)



Multi-accessories >>

Description	T1 application, Commercial air handler unit	
	Standard accessories	Optional accessories
Filter	√	
Outlet drainage	√	
Drain plug	√	
Three-phase protector		√
Wired controller		√

Description	Tropical (T3) application, Duct		Tropical (T3) application, Floor-standing	
	Standard accessories	Optional accessories	Standard accessories	Optional accessories
Filter		√	√	
Outlet drainage	√		√	
EHK (Electric Heater Kits)		√		√
Three-phase protector		√		√
Wireless controller	√		√	
Wired controller		√		√
Centralized controller		√		√

Mechanical specification

Casing

Unit casing is constructed of heavy gauge galvanized steel plate. Both side of the casing is waterproof and anti-corrosion coated. Unit panel structure is allowed to maintain on one side of the unit. Service panels are removed easily and reinstalled by removing bolts. The inside of indoor unit panels will be covered with 10mm insulation to prevent heat and noise coming out. Units are available for forklift transportation.

Compressor

All units are equipped with direct-drive, hermetic, scroll type compressor, and it's built-in motor is cooled with suction gas. The voltage utilization range is $\pm 10\%$ of unit nameplate voltage. The compressors, incorporating a built-in muffler, are mounted on springs within a steel housing to reduce noise. An electric heater around the compressor crankcase to ensure stability starting.

Heat-exchange coils

Inner-threaded copper tubes mechanically bonded to a configured hydrophilic aluminum fin is standard for the outdoor heat-exchanger. The one which is equipped in indoor unit is standard configured with copper tubes. All the coils are leak tested at 4.4MPa at the factory to ensure the pressure integrity. All the indoor units are standard configured a condensate drain pan.

Outdoor fan

The outdoor fan is multi-blade vane-axial type, made of aluminum alloy for quiet operation and durability. It is directly driven by waterproof motor to ensure reliable continuous operations. Statically and dynamically balanced drive motor design with maintenance-free bearing for outdoor installation.

Indoor fan

The indoor fan is forward-curved blade centrifugal fan. Impeller and casing are made of galvanized steel sheet. The high quality ball bearings are air-sealed with preset lubricating oil. They are coated after assembly in order to provide corrosion resistance. The fan is directly driven by a waterproof motor. The fan and motor assembly is tested and dynamic balance is implemented in the factory.

Three-phase protector

The unit with three-phase power supply is equipped with phase sequence protector as optional. These devices protect motors and compressors against problems caused by phase lack, phase imbalance and phase reversal indication. When the voltage is above or below the normal range, it works and prevents unit from suffering voltage fluctuations.

Controls

Units are completely factory-wired with necessary controls and wiring terminals for power wiring. Microprocessor controls the cooling, heating and ventilating modes in response to signals from sensors measuring indoor and outdoor temperatures. It will keep accurate temperature control, minimum drift from the set point and provide better building comfort.

T1 Applications

Commercial Air Handler



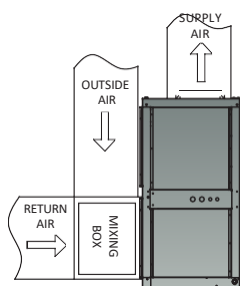
Wired controller
KJR-25B (Optional)

Variable speed pulley design, ESP can be adjusted>>

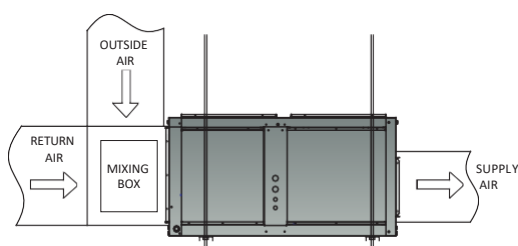
- ❖ Changing the speed of a rotating shaft member, the revolutions per minute of particular shaft can be increased or decreased. At the same time, the indoor air volume can be adjusted.
- ❖ The external static pressure can be adjusted up to 200Pa.



Flexible installation >>



Vertical (Standard)



Horizontal (Optional)

Washable filter as standard >>



Metal filter, grade G3.

Specifications

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



Indoor unit

Indoor unit model			MVA-90CWN1-V	MVA-120CWN1-V
Outdoor unit model				
Indoor unit power supply			220V, 3Ph~, 60Hz	220V, 3Ph~, 60Hz
Cooling	Capacity	Btu/h	88,700	119,400
		kW	26.0	35.0
	Input	kW	9.0	12.1
	EER	W/W	2.89	2.89
Max. power input		W	1,600	1,800
Max. current		A	6.6	7.8
Air flow		CFM [L/s]	3,000 [1,417] @ 0.25 in.H ₂ O [62Pa]	4,000 [1,889] @ 0.30 in.H ₂ O [75Pa]
External static pressure range		in.H ₂ O [Pa]	0.1~0.6 [24.9~149.4]	0.1~0.8 [24.9~199.2]
Noise level		dB(A)	56	60
Fan type / Drive type			Centrifugal / Belt	Centrifugal / Belt
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Wired controller (Optional)	Wired controller (Optional)
Dimension	Net (WxHxD)	in. [mm]	44-7/8x28-3/8x57-1/8 [1,139x721x1,450]	44-7/8x28-3/8x57-1/8 [1,139x721x1,450]
	Packing (WxHxD)	in. [mm]	45-1/16x34-1/8x57-7/8 [1,145x867x1,470]	45-1/16x34-1/8x57-7/8 [1,145x867x1,470]
Net / Gross weight		lbs. [kg]	375 / 443 [170 / 201]	375 / 443 [170 / 201]



MOV-90CN1-D



MOV-120CN1-D

Outdoor unit model				
Outdoor unit power supply			220V, 3Ph~, 60Hz	220V, 3Ph~, 60Hz
Max. power input		W	16,700	18,200
Max. current		A	44.4	53.1
Noise level		dB(A)	69	70
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 14.3 lbs [6.5kg]	R410A / 16.5 lbs [7.5kg]
Fan type / Drive type			Axial / Direct	Axial / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin
Refrigerant piping size		in. [mm]	3/8 (Liquid), 1 (Gas) [Φ9.52 (Liquid), Φ25 (Gas)]	1/2 (Liquid), 1-1/8 (Gas) [Φ12.7 (Liquid), Φ28.6 (Gas)]
Dimension	Body (WxHxD)	in. [mm]	49-5/8x35-3/4x27-1/2 [1,260x908x700]	49-5/8x35-3/4x27-1/2 [1,260x908x700]
	Packing (WxHxD)	in. [mm]	52x41-3/4x28-3/4 [1,320x1,060x730]	52x41-3/4x28-3/4 [1,320x1,060x730]
Net / Gross weight		lbs. [kg]	412 / 450 [187 / 204]	439 / 474 [199 / 215]

Notes:

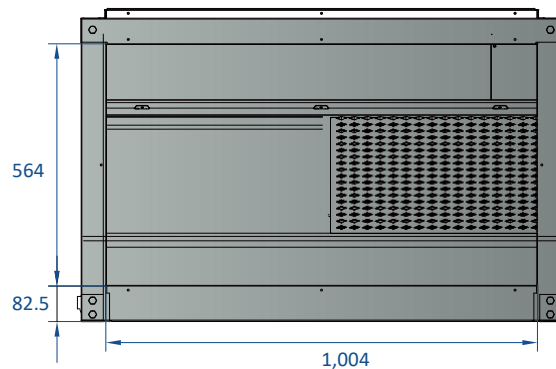
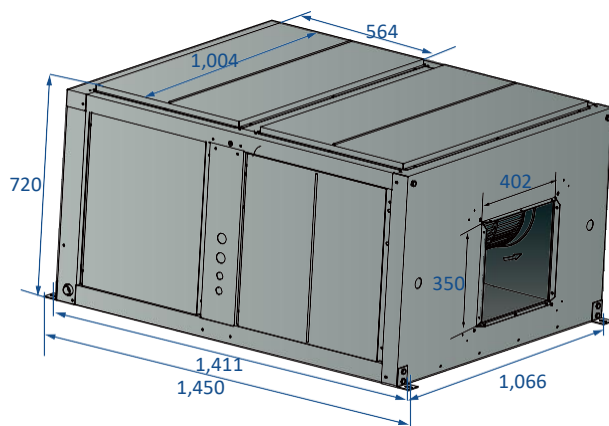
- Cooling capacity test condition: Outdoor ambient temperature: 95°F (35°C), indoor temperature 80.6°F (27°C) DB / 66.2°F (19°C) WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
- Specifications are subject to change without prior notice for product improvement.

Dimensions

T1 application, commercial air handler, 220V 3Ph~ 60Hz

Indoor unit: MVA-90CWN1-V, MVA-120CWN1-V

(Units: mm)

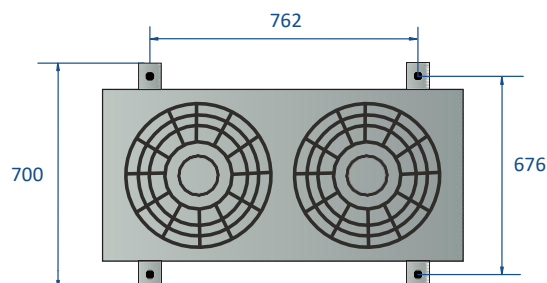
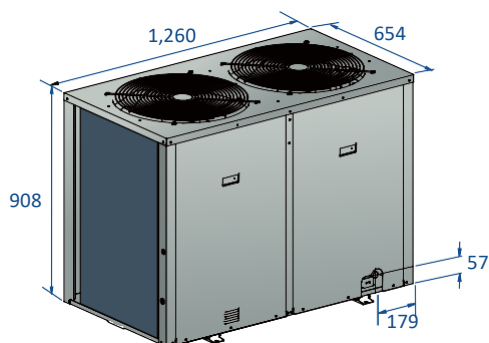


Air intake side

T1 application, commercial air handler, 220V 3Ph~ 60Hz

Outdoor unit: MOV-90CN1-D

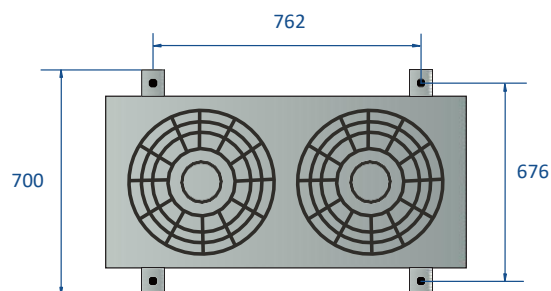
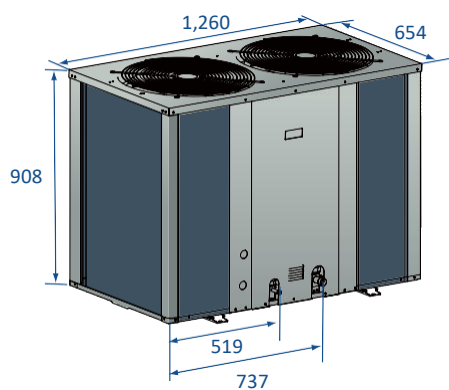
Units: mm



T1 application, commercial air handler, 220V 3Ph~ 60Hz

Outdoor unit: MOV-120CN1-D

Units: mm



Tropical (T3) Application

Duct Indoor Unit



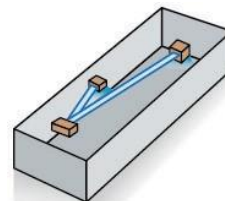
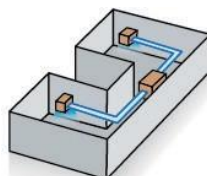
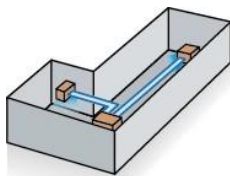
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Convenient installation >>

- ❖ Compact design. Concealed installation without floor space requirement.
- ❖ Hidden in the ceiling, unit installation is not hindered by the location of lighting fixtures or room structure.
- ❖ Air inlet & outlet flange are standard for easy duct connection.
- ❖ Easy maintenance through the inspection port.

Free air duct design >>

- ❖ Multi diffusers from one indoor unit, air-conditioned multi rooms at the same time.
- ❖ Three speeds of air supply can be chosen via controller.
- ❖ The indoor unit is suitable for various applications where there are many rooms or halls, such as restaurant, concert halls and hotels.
- ❖ Flexible duct design for different room styles.



Auto Restart
Function



Auto
Defrosting

Independent
Dehumidification



Timer



PTC Heater



Anti-Cold
Air Function



Wired
Controller

Specifications

Tropical (T3) application

Outdoor unit power supply: 208-230V, 3Ph, 60Hz



MTA1-76CQN1
MTA1-96CQN1



MTA1-120CQN1



MTA1-150CQN1
MTA1-180CQN1
MTA1-240CQN1

Indoor unit model			MTA1-76CQN1	MTA1-96CQN1	MTA1-120CQN1
Outdoor unit model / Quantity			MOV-76CN1-X / 1	MOV-96CN1-X / 1	MOV-120CN1-X / 1
Indoor unit power supply			208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 66,500	95,600 / 90,400	119,400 / 90,400
		kW	22.0 / 19.50	28.0 / 26.50	35.0 / 29.50
	Input (T1/T3)	kW	7.5 / 9.50	9.6 / 11.92	12.0 / 14.50
	EER (T1)	W/W	2.93	2.92	2.92
Max. power input		W	1,700	1,700	1,900
Max. current		A	7.5	8.4	9.0
Air flow (Hi)		m³/h	4,250 (2,500CFM)	5,100 (3,000CFM)	6,375 (3,750CFM)
Standard external static pressure		Pa	100	100	150
Noise level		dB(A)	56	56	58
Fan type / Drive type			Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Remote controller	Remote controller	Remote controller
Dimension	Net (WxHxD)	mm	1,452x462x797	1,452x462x797	1,988x669x906
	Packing (WxHxD)	mm	1,555x500x875	1,555x500x875	2,095x800x964
Net / Gross weight		kg	94 / 106	96 / 108	188 / 220

Indoor unit model			MTA1-150CQN1	MTA1-180CQN1	MTA1-240CQN1
Outdoor unit model / Quantity			MOV-76CN1-X / 2	MOV-96CN1-X / 2	MOV-120CN1-X / 2
Indoor unit power supply			208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz
Cooling	Capacity (T1/T3)	Btu/h	150,100 / 128,530	179,100 / 166,800	238,840 / 209,800
		kW	44.0 / 37.67	52.5 / 48.94	70.0 / 61.50
	Input (T1/T3)	kW	15.0 / 18.25	18.1 / 22.01	24.0 / 30.50
	EER (T1)	W/W	2.93	2.90	2.92
Max. power input		W	2,400	2,500	2,600
Max. current		A	11.5	12.5	13.0
Air flow (Hi)		m³/h	7,650 (4,500CFM)	10,000 (5,880CFM)	12,000 (7,060CFM)
Standard external static pressure		Pa	150	150	150
Noise level		dB(A)	58	60	60
Fan type / Drive type			Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Remote controller	Remote controller	Remote controller
Dimension	Net (W×H×D)	mm	1,988×669×906	1,988×669×906	1,988×669×906
	Packing (W×H×D)	mm	2,095×800×964	2,095×800×964	2,095×800×964
Net / Gross weight		kg	190 / 217	190 / 217	193 / 220



MOV-76CN1-X
MOV-96CN1-X



MOV-120CN1-X

Outdoor unit model			MOV-76CN1-X	MOV-96CN1-X	MOV-120CN1-X
Outdoor unit power supply			208~230V, 3Ph~, 60Hz	208~230V, 3Ph~, 60Hz	208~230V, 3Ph~, 60Hz
Max. power input	W		11,100	16,700	18,200
Max. current	A		32.5	44.4	53.1
Air flow rate	m ³ /h		12,500	12,500	13,000
Noise level	dB(A)		65	69	70
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 4.5kg	R410A / 6.5kg	R410A / 7.5kg
Fan type / Drive type			Axial / Direct	Axial / Direct	Axial / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Refrigerant piping size	mm		Φ9.52 (Liquid), Φ19 (Gas)	Φ9.52 (Liquid), Φ22 (Gas)	Φ12.7 (Liquid), Φ25 (Gas)
Ambient temperature	°C		17~52	17~52	17~52
Dimension	Body (W×H×D)	mm	1,260×908×700	1,260×908×700	1,260×908×700
	Packing (W×H×D)	mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730
Net / Gross weight	kg		148 / 167	187 / 204	199 / 215

Notes:

1. T1 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. T3 Cooling capacity test condition: Outdoor ambient temperature: 46°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Specifications are subject to change without prior notice for product improvement.

Specifications

Tropical (T3) application

Outdoor unit power supply: 380V, 3Ph, 60Hz



MTA-76CQN1
MTA-96CQN1



MTA-120CQN1

Indoor unit model			MTA-76CQN1	MTA-96CQN1	MTA-120CQN1
Outdoor unit model / Quantity			MOV-76CN1-P / 1	MOV-96CN1-P / 1	MOV-120CN1-P / 1
Indoor unit power supply			208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 64,000	95,600 / 80,400	119,400 / 102,300
		kW	22.0 / 18.75	28.0 / 23.55	35.0 / 29.98
	Input (T1/T3)	kW	7.5 / 8.85	9.7 / 11.55	12.0 / 13.25
	EER (T1)	W/W	2.89	2.89	2.92
Max. power input (Whole units)		W	10,400	14,100	17,000
Max. current (Whole units)		A	16.6	22.5	28.0
Air flow (Hi)		m³/h	4,250 (2,500CFM)	5,100 (3,000CFM)	6,375 (3,750CFM)
Standard external static pressure		Pa	100	100	150
Noise level		dB(A)	56	61	63
Fan type / Drive type			Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Remote controller	Remote controller	Remote controller
Dimension	Net (W×H×D)	mm	1,350×450×760	1,350×450×760	1,988×669×906
	Packing (W×H×D)	mm	1,549×476×917	1,549×476×917	2,095×800×964
Net / Gross weight		kg	105 / 120	105 / 120	188 / 220

Notes:

1. T1 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. T3 Cooling capacity test condition: Outdoor ambient temperature: 46°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Specifications are subject to change without prior notice for product improvement.



MOV-76CN1-P
MOV-96CN1-P



MOV-120CN1-P

Outdoor unit model			MOV-76CN1-P	MOV-96CN1-P	MOV-120CN1-P
Outdoor unit power supply			380V, 3Ph~, 60Hz	380V, 3Ph~, 60Hz	380V, 3Ph~, 60Hz
Max. power input (Whole units)	W		10,400	14,100	17,000
Max. current (Whole units)	A		16.6	22.5	28.0
Air flow rate	m ³ /h		12,500	12,500	13,000
Noise level	dB(A)		65	67	69
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 5.5kg	R410A / 5.7kg	R410A / 6.9kg
Fan type / Drive type			Axial / Direct	Axial / Direct	Axial / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Refrigerant piping size	mm		Φ9.52 (Liquid), Φ22 (Gas)	Φ9.52 (Liquid), Φ25 (Gas)	Φ12.7 (Liquid), Φ28.6 (Gas)
Ambient temperature	°C		17~52	17~52	17~52
Dimension	Body (W×H×D)	mm	1,260×908×700	1,260×908×700	1,260×908×700
	Packing (W×H×D)	mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730
Net / Gross weight			151 / 166	187 / 204	199 / 215

Notes:

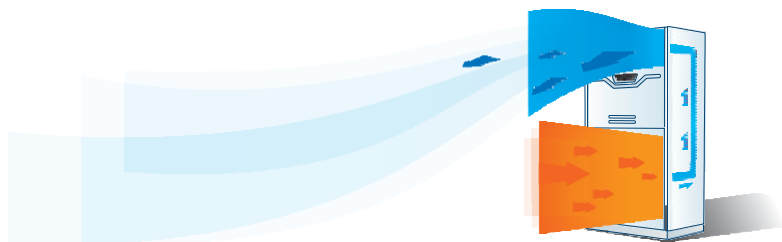
1. T1 Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 Cooling capacity test condition: Outdoor ambient temperature: 46°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Specifications are subject to change without prior notice for product improvement.

Floor-standing Indoor Unit



R51/CE

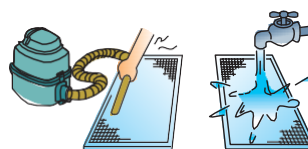
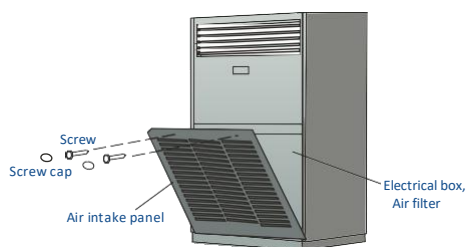
Strong wind, long distance air supply >>



Touch screen control >>



Washable inlet air filter >>



Anti-Cold Air Function



Auto Restart Function



Auto Defrosting



Independent Dehumidification



Timer



PTC Heater

Features: ■ Standard ■ Optional

Specifications

Tropical (T3) application

Outdoor unit power supply: 208-230V, 3Ph, 60Hz



Indoor unit model			MFA1-76CRN1	MFA1-96CRN1
Outdoor unit model / Quantity			MOV-76CN1-X / 1	MOV-96CN1-X / 1
Indoor unit power supply			208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 66,500	95,500 / 90,400
		kW	22.0 / 19.50	28.0 / 26.50
	Input (T1/T3)	kW	7.6 / 9.50	9.6 / 11.92
	EER (T1)	W/W	2.89	2.92
Max. power input (Whole units)		W	1,400	1,700
Max. current (Whole units)		A	7.5	8.4
Air flow (Hi)		m³/h	4,250 (2,500CFM)	5,100 (3,000CFM)
Standard external static pressure		Pa	\	\
Noise level		dB(A)	56	56
Fan type / Drive type			Centrifugal / Direct	Centrifugal / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Remote controller	Remote controller
Dimension	Net (W×H×D)	mm	1,200×1,860×518	1,200×1,860×518
	Packing (W×H×D)	mm	1,362×2,050×582	1,362×2,050×582
Net / Gross weight		kg	132 / 147	140 / 154



Outdoor unit model				
Outdoor unit power supply			208~230V, 3Ph~, 60Hz	208~230V, 3Ph~, 60Hz
Max. power input		W	11,100	16,700
Max. current		A	32.5	44.4
Air flow rate		m³/h	12,500	12,500
Noise level		dB(A)	65	69
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 4.5kg	R410A / 6.5kg
Fan type / Drive type			Axial / Direct	Axial / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin
Refrigerant piping size		mm	Φ9.52 (Liquid), Φ19 (Gas)	Φ9.52 (Liquid), Φ22 (Gas)
Ambient temperature		°C	17~52	17~52
Dimension	Body (WxHxD)	mm	1,260x908x700	1,260x908x700
	Packing (WxHxD)	mm	1,320x1,060x730	1,320x1,060x730
Net / Gross weight		kg	148 / 167	187 / 204

Notes:

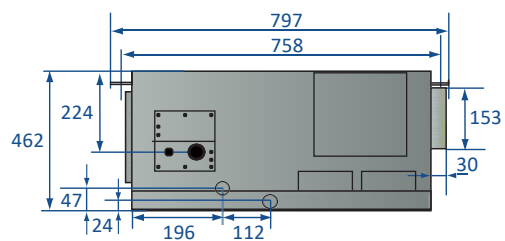
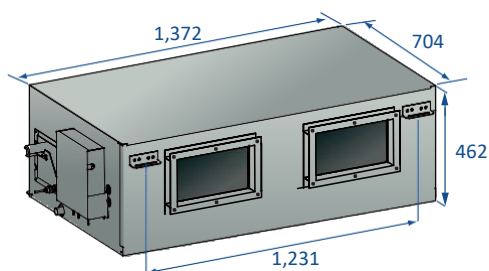
1. T1 Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 Cooling capacity test condition: Outdoor ambient temperature: 46°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Specifications are subject to change without prior notice for product improvement.

Dimensions

T3 application, 208~230V 1Ph~ 60Hz

Duct indoor unit: MTA1-76CQN1, MTA1-96CQN1

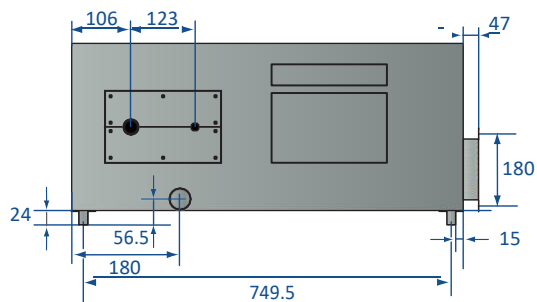
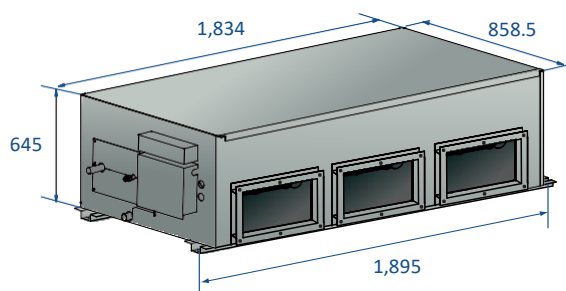
(Units: mm)



T3 application, 208~230V 1Ph~ 60Hz

Duct indoor unit: MTA1-120CQN1

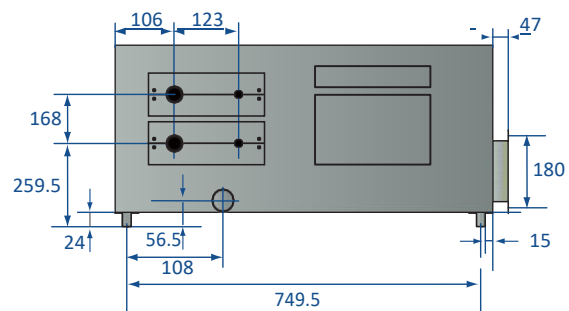
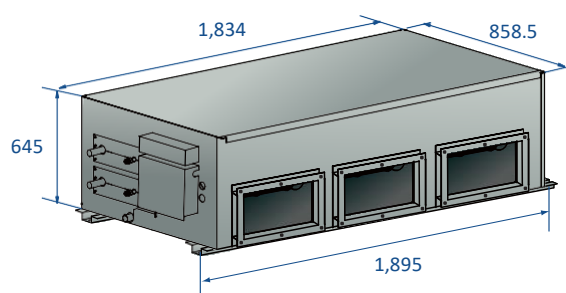
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T3 application, 208~230V 1Ph~ 60Hz

Duct indoor unit: MTA1-150CQN1, MTA1-180CQN1, MTA1-240CQN1

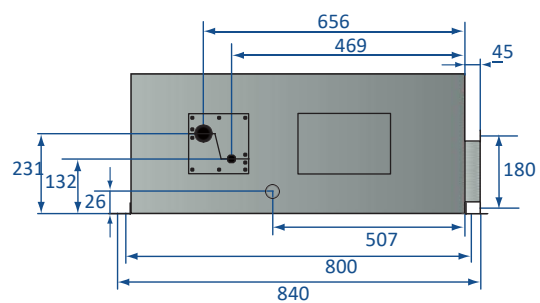
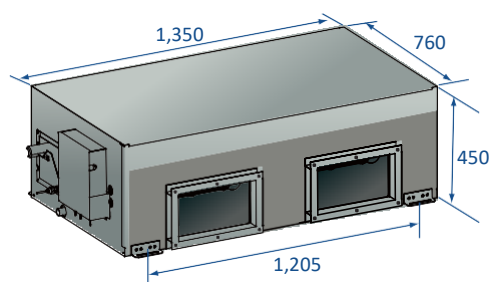
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T3 application, 380V 1Ph~ 60Hz

Duct indoor unit: MTA-76CQN1, MTA-96CQN1

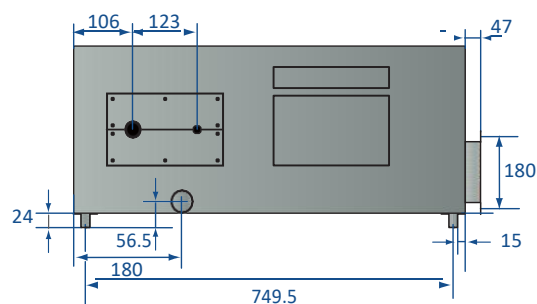
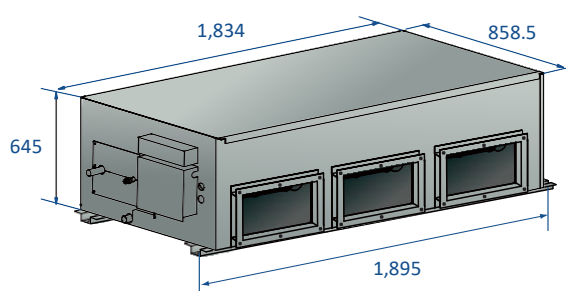
(Units: mm)



T3 application, 380V 1Ph~ 60Hz

Duct indoor unit: MTA-120CQN1

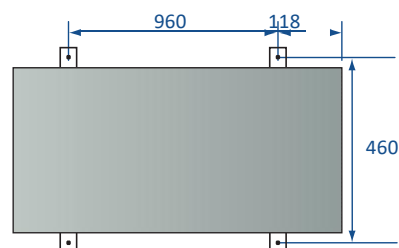
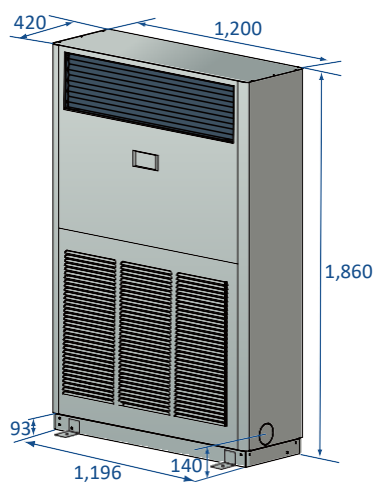
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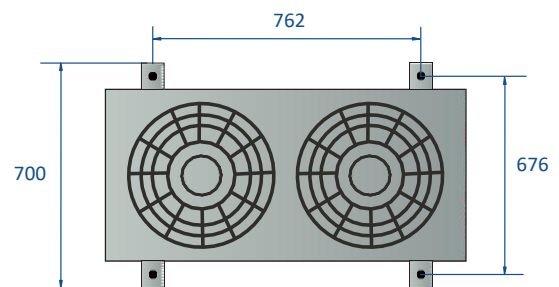
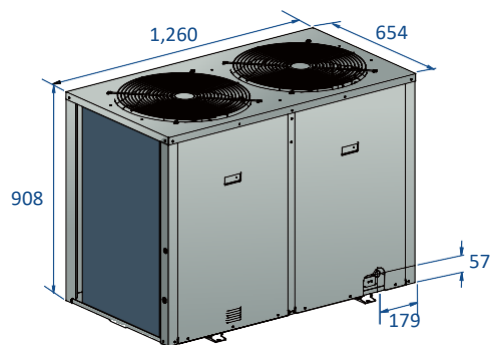
T3 application, 208~230V 1Ph~ 60Hz

Duct indoor unit: MTA1-76CQN1, MTA1-96CQN1

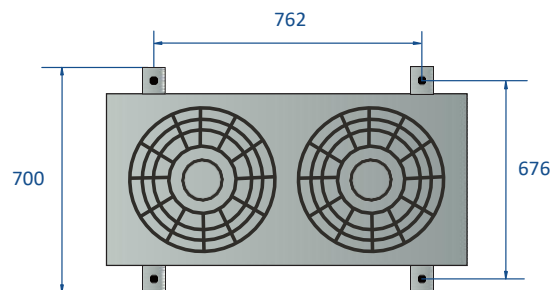
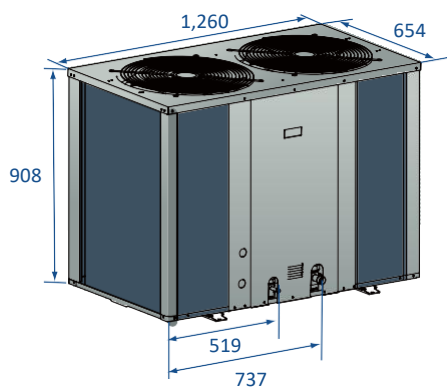
(Units: mm)



T3 application, 208~230V/380V 3Ph~ 60Hz
 Outdoor unit: MOV-76CN1-P, MOV-96CN1-P
 MOV-76CN1-X, MOV-96CN1-X
 (Units: mm)



T3 application, 208~230V/380V 3Ph~ 60Hz
 Outdoor unit: MOV-120CN1-P
 MOV-120CN1-X
 (Units: mm)



Controllers

Remote Controller - R51/CE



Parameter >>

Model: R51/CE (Cooling only type)

Dimension (mm): 140×60×15

Power: 1.5V (LR03/AAA)×2

Only available for duct & floor-standing unit

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.

Only available for duct & floor-standing unit

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. It is convenient to control the air conditioner.



Wired Controller - KJR-25B



Parameter >>

Model: KJR-25B

Power: AC 24V

Only available for commercial AHU

Standard features >>

- ❖ 4-minute delay function. The restarted compressor can be delayed for 4 minutes by this controller.
- ❖ 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.

Centralized Controller - CCM30



CCM30



MD-NIM01

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)

Only available for duct & floor-standing unit

Centralized control >>

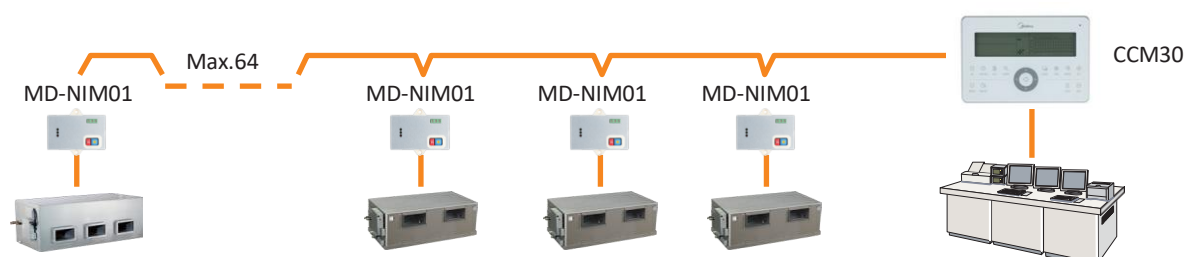
- ❖ MD-CCM30, centralized controller, is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1200m.
- ❖ User can group control or individual control and the set temperature of each units can also different.
- ❖ The indoor units working status and error 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 call the service engineer.

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 they wish.

Access to network monitoring >>

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





Commercial Air Conditioner Division
Green Energy Group
