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Commercial Air Conditioner Division

Midea Group

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Quality Assurance ISO 9001 · Environmental Management ISO 14001 · Occupational Health and Safety Assessment OHSAS 18001

Commercial Air Conditioners **2020**

Midea

Split Commercial A/C

R410A 50/60Hz

Midea CAC

Midea CAC is a key division of the Midea Group, a leading producer of consumer appliances and provider of heating, ventilation and air conditioning solutions. Midea CAC 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 Midea CAC at the forefront of a competitive field. Through these independent efforts and joint cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.

There are four production bases: Shunde, Chongqing, Hefei and Italy.

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.

Clivet S.p.A: 50,000m^2 workshop in Feltre and Verona, covering products such as ELFO system, hydronic, WHLP, packaged, split and close control and so on.

2020 » A new generation 3-pipe heat recovery VRF will be launched in the middle of 2020.
2018-2019 » Launched the All DC Inverter Cooling Only VC Pro VRF,ultra cool for hot regions
2017-2018 » Launched the new generation VRF globally, leading in VRF market
2016 » Acquired 80% stake in Clivet
2014-2015 » Win FIFA World Cup Stadiums project in Brazil Beira Rio, Olympic Games Stadiums project in Brazil Rio de Janeiro and Africa games Stadiums project in Congo Brazzaville successively
2014 » Launched the All DC Inverter V5X globally, outstanding product performance helps Midea leading VRF market
2011-2014 » Launched the DC Inverter V4 Plus Series successively, complete product lines help Mideasuccessfully enter the mainstream VRF market
2011-2012 » J.V. with Carrier LA and Carrier India successively
2009 » Launched the DC Inverter V4 globally
2008 » Developed DC inverter technology with Toshiba
2000-2001 » Cooperated with Toshiba and Copeland, enter VRF field
1999 » Entered the CAC field

MCAC Learning Academy

Objective

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

Training Centers

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

1. Midea CAC Training Center

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

The Midea CAC Training Center is situated 30 kilometers from Baiyun Guangzhou International Airport.

Products: VRF, M-Thermal

2. Chongqing Midea Training Center

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

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

Products: Centrifugal Chiller, Screw/Scroll Chiller and Terminals

VRF training

M-Thermal training

Chiller training

Global Technical Trainings

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

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

Main Courses Offered:

1. Introduction to main Selling points and Features
2. Installation and Commissioning
3. Control Systems
4. Selection Software

Products: VRF, M-Thermal, Chillers and Terminals

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

Main Courses Offered:

1. Product Electric Control and Refrigerant System
2. Control Systems
3. Installation and Commissioning Demonstration
4. Troubleshooting and Maintenance

Products: VRF, M-Thermal, Chillers and Terminals

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

Training Certificates:

The attendees for Global trainings are provided a training certificate highlighting the courses discussed in the training, signed by Mr. Jason Zhao, General Manager of Midea CAC Overseas Sales Company.

Registration:

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

Contents

Introduction

Midea 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.

DX AHU (Air Handler Unit) Series

Application	Power supply	Series	Nominal cooling capactity (kBtu/h)			
			36	60	90	120
R410A T3	220-240V, 1Ph~, 50Hz	Indoor units (DX AHU)	o	o		
	220-240V, 1Ph~, 50Hz	Outdoor units	o			
	380-415V, 3Ph~, 50Hz		o	o		
R410A T1	220V, 3Ph~, 60Hz	Indoor units (DX AHU)			o	o
	208~230V, 3Ph~, 60Hz	Outdoor units			o	o

Notes:
1. Product's cooling capacity as per specification.

New DC Inverter Conventional Split A/C Series

Application	Power Supply	Series		Nominal Cooling Capacity (kBtu/h)			
				38	48	76	96
R410A T1 (DC Inverter) (Heat Pump)	220-240V, 1Ph~,50Hz	Indoor units	Medium static pressure duct indoor unit				o
			High static pressure duct indoor unit				o
			Floor standing indoor unit				o
			Four-way cassette indoor unit		o		
	380-415V, 3Ph~, 50Hz	Outdoor units				o	o
R410A T1 (DC Inverter) (Cooling Only)	220-240V, 1Ph~,50Hz	Indoor units	Medium static pressure duct indoor unit			o	o
			High static pressure duct indoor unit			o	o
			Floor standing indoor unit			o	o
			Four-way cassette indoor unit	o	o		
	380-415V, 3Ph~, 50Hz	Outdoor units				o	o
	220-240V, 1Ph~,60Hz	Indoor units	Medium static pressure duct indoor unit			o	o
			High static pressure duct indoor unit			o	o
			Floor standing indoor unit			o	o
			Four-way cassette indoor unit	o	o		
	380-415V, 3Ph~, 60Hz	Outdoor units				o	o

Normal Conventional Split A/C Series

Application	Power Supply	Series		Nominal Cooling Capacity (kBtu/h)						
				76	96	120	150	180	192	240
R410A T1 (Heat Pump)	220-240V, 1Ph~,50Hz	Indoor Units	Medium static pressure duct indoor unit	o		o				
			High static pressure duct indoor unit	o			o		o	
			Floor standing indoor unit	o						
	380-415V, 3Ph~,50Hz	Outdoor units		o		o	o		o	
R410A T1 (DC Inverter) (Heat Pump)	220-240V, 1Ph~,50Hz	Indoor units	High static pressure duct indoor unit	o	o					
	380-415V, 3Ph~, 50Hz	Outdoor units		o	o					
R410A T3 (Cooling Only)	220-240V, 1Ph~, 50Hz	Indoor units	Medium static pressure duct indoor unit	o	o	o	o			
			High static pressure duct indoor unit	o	o					
			Floor standing indoor unit	o	o	o				
	380-415V, 3Ph~, 50Hz	Outdoor units		o	o	o				
	208~230V, 1Ph~, 60Hz	Indoor units	Medium static pressure duct indoor unit		o	o		o		o
			Floor standing indoor unit		o					
	208~230V, 3Ph~, 60Hz	Outdoor units			o	o				
R410A T3 (Heat Pump)	220-240V, 1Ph~, 50Hz	Indoor units	Medium static pressure duct indoor unit	o	o	o				
			High static pressure duct indoor unit	o	o					
			Floor standing indoor unit	o	o					
	380-415V, 3Ph~, 50Hz	Outdoor units		o	o	o				

Notes:
1. Product's cooling capacity as per specification.

General Features

General Features for Normal Conventional Split A/C Series

Convenient for unit selection

General

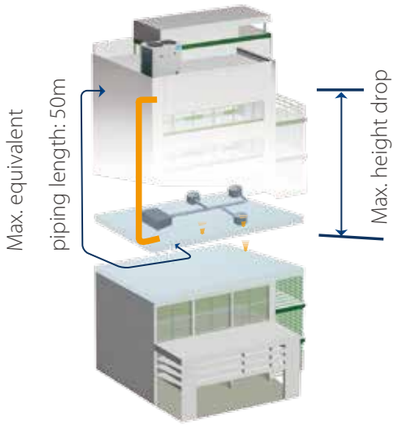
Features for Normal Conventional Split A/C Series

Wide cooling capacity range

- Wide cooling capacity range. The duct type split A/C is from 76,000Btu/h to 240,000Btu/h.

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 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.

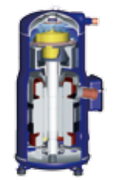
Anti-corrosion treatment as optional

- 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 is optional.

HP/LP switch

Temperature sensor

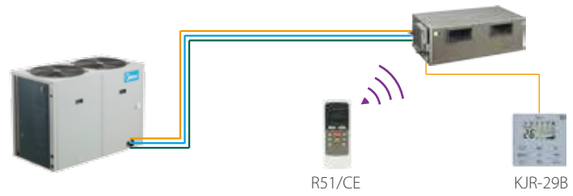
Easy for installation

- 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.

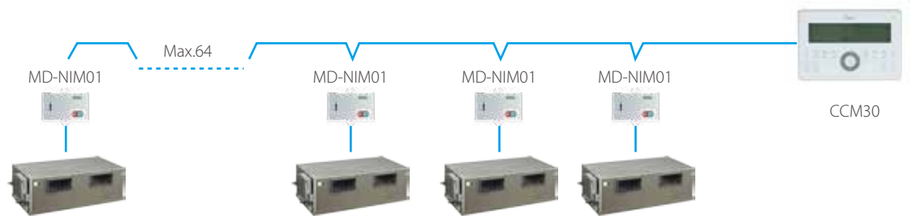
Flexible choise of accessories

Controllers

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



- 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

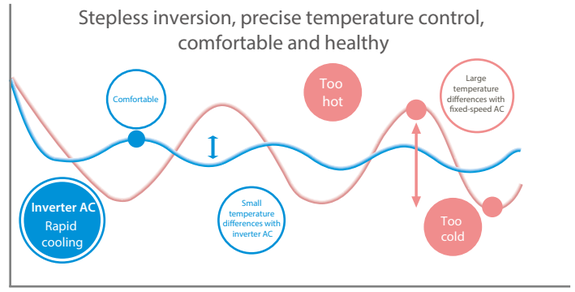
Description	T1, Duct		Tropical (T3), Duct		Floor-standing	
	Standard	Optional	Standard	Optional	Standard	Optional
Filter		√		√	√	
Outlet drainage	√		√		√	
EHK (Electric Heater Kits)		√		√		√
Three-phase protector		√		√		√
Wireless controller		√	√		√	
Wired controller	√			√		√
Centralized controller		√		√		√

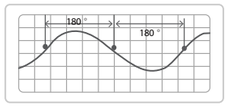
General Features for New DC Inverter Conventional Split A/C Series

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

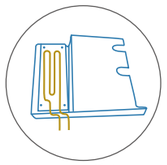
High-precision temperature sensor

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 of the 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 that of conventional ACs.

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



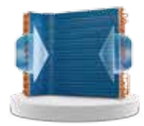
Liquid cooling is more efficient, allowing it to function in high temperature environments and making it more adaptable to high-temperature urban environments.

Brand name components, smart manufacturing, professionalism, and premium quality

Combines a variety of multi-core components such as brand name 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 brand name 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.

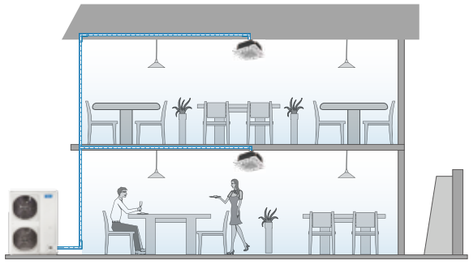
- Newly-designed air guide ring
- Newly-designed air outlet grille
- Motor mount features a vibration-reduction design

- 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.

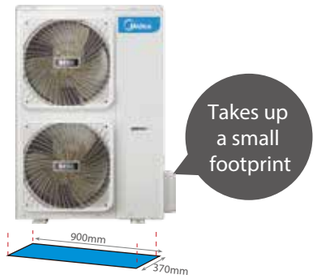


Maximum pipe length
70m

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 apace.



Matchable Table

One drive one system

Medium static pressure duct

High static pressure duct

Floor standing unit

One drive two system

Four-way cassette

DX AHU Series

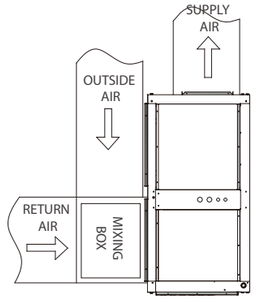
DX AHU (Air Handing Unit)

Wired controller
KJR-25B (Optional)

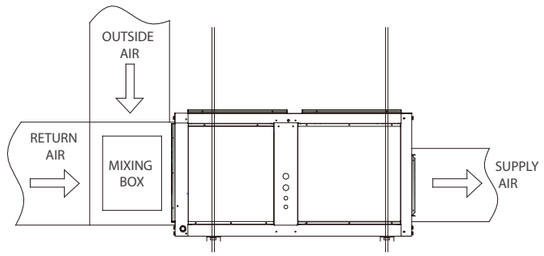
Variable speed pulley design, ESP can be adjusted

- 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

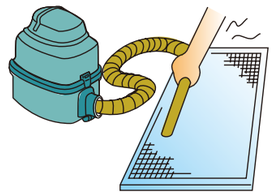


Vertical (Standard)



Horizontal (Optional)

Washable filter as standard



Metal filter, grade G3.

Specifications

Tropical (T3) application, DX AHU - Indoor unit

Indoor unit model			MVA-36CWN1-13	MVA-60CWN1-13
Outdoor unit model			MOVTA-36CN1-(R)13C	MOVTA-60CN1-R13C
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity (T1/T3)	Btu/h	36,000 / 30,400	58,000 / 49,000
	Capacity (T1)	kW	10.4	17.0
	SEER (T1)		13	13
Air flow (Hi)		CFM	1,470	2,010
Standard external static pressure (Hi)		Pa	60	75
Max. external static pressure (Hi)		Pa	150	150
Noise level (Hi)		dB(A)	55	59
Fan type / Drive type			Centrifugal / Direct	Centrifugal / Direct
Coil			Copper tube and aluminum fin	
Controller			KJR-23B (Optional)	KJR-23B (Optional)
Supply duct dimension (W×D)		mm	457×262	495×262
Dimension	Net (W×H×D)	mm	500×1,180×550	560×1,385×610
	Packing (W×H×D)	mm	573×1,234×610	634×1,438×670
Net / Gross weight		kg	64 / 70	78 / 85

Tropical (T3) application, DX AHU - Outdoor unit

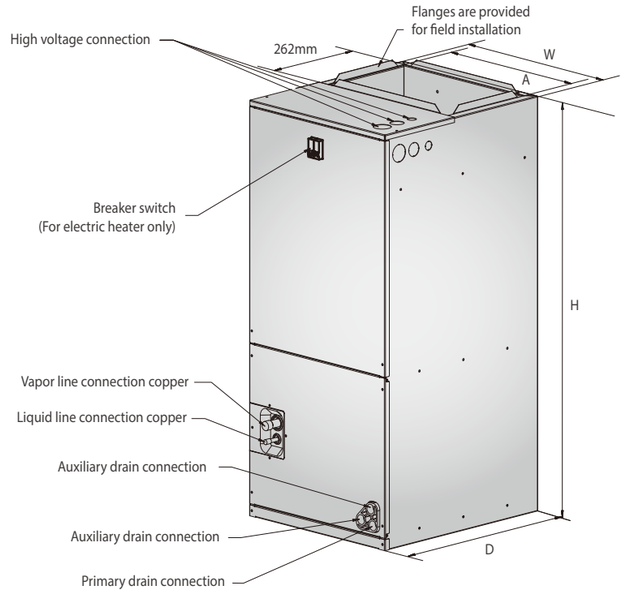
Outdoor unit model			MOVTA-36CN1-13C	MOVTA-36CN1-R13C	MOVTA-60CN1-R13C
Outdoor unit power supply			220-240V, 1Ph~, 50Hz	380-415V, 3Ph~, 50Hz	
Max. power input (Outdoor unit)		W	3,950	4,050	6,800
Noise level		dB(A)	64	64	68
Compressor	Type		Scroll	Scroll	Scroll
	Quantity		1	1	1
Refrigerant	Type		R410A	R410A	R410A
	Charged	kg	3.57	3.62	4.32
Air flow		CFM	3,000	3,000	4,031
Fan	Type		Axial	Axial	Axial
	Drive type		Direct	Direct	Direct
Coil			Copper tube and aluminum fin		
Refrigerant piping size		mm	Φ9.52 / Φ19	Φ9.52 / Φ19	Φ9.52 / Φ22
Ambient temperature		℃	17~52	17~52	17~52
Dimension	Body (W×H×D)	mm	710×759×710	710×759×710	740×843×740
	Packing (W×H×D)	mm	738×793×738	738×793×738	768×877×768
Weight	Net	kg	86	81	98
	Gross	kg	90	85	102

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 29°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. The standard external static pressure and air flow is based on cooling performance without filter in place.
4. Specifications are subject to change without prior notice for product improvement.

Dimensions

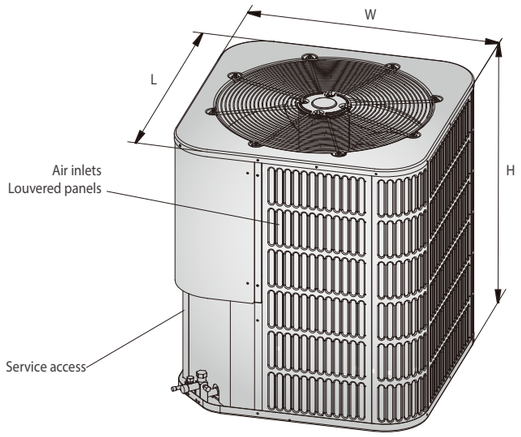
T3 application, DX AHU - Indoor unit



(Unit: mm)

	H	W	D	A
MVA-36CWN1-13	1,180	500	550	456
MVA-60CWN1-13	1,385	560	610	496

T3 application, DX AHU - Outdoor unit



(Unit: mm)

	L	W	H
MOVTA-36CN1-13C	710	710	759
MOVTA-36CN1-R13C	710	710	759
MOVTA-60CN1-R13C	740	740	843

Specifications

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

Indoor unit model			MVA-90CWN1-V	MVA-120CWN1-V
Outdoor unit model			MOV-90CN1-D	MOV-120CN1-D
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_2O [62Pa]	4,000 [1,889] @ 0.30 in.H_2O [75Pa]
External static pressure range		in.H_2O [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]	44-7/8×28-3/8×57-1/8 [1,139×721×1,450]	44-7/8×28-3/8×57-1/8 [1,139×721×1,450]
	Packing (WxHxD)	in. [mm]	45-1/16×34-1/8×57-7/8 [1,145×867×1,470]	45-1/16×34-1/8×57-7/8 [1,145×867×1,470]
Net / Gross weight		lbs. [kg]	375 / 443 [170 / 201]	375 / 443 [170 / 201]

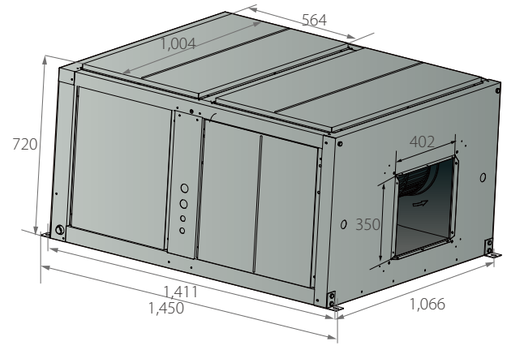
Outdoor unit model			MOV-90CN1-D	MOV-120CN1-D
Outdoor unit power supply			208~230V, 3Ph~, 60Hz	208~230V, 3Ph~, 60Hz
Max. power input		W	16,700	18,200
Max. current		A	44.4	53.1
Noise level		dB(A)	69	70
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 14.3 lbs [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]	49-5/8×35-3/4×27-1/2 [1,260×908×700]	49-5/8×35-3/4×27-1/2 [1,260×908×700]
	Packing (WxHxD)	in. [mm]	52×41-3/4×28-3/4 [1,320×1,060×730]	52×41-3/4×28-3/4 [1,320×1,060×730]
Net / Gross weight		lbs. [kg]	412 / 450 [187 / 204]	439 / 474 [199 / 215]

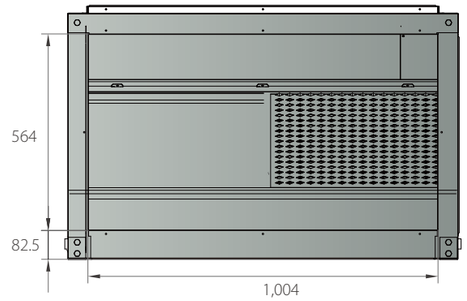
Notes:

1. 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.
2. Specifications are subject to change without prior notice for product improvement.

Dimensions

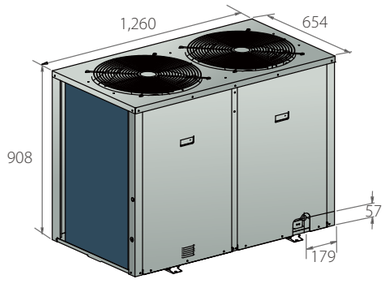
T1 application, commerical air handler, 220V 3Ph~ 60Hz
Indoor unit: MVA-90CWN1-V, MVA-120CWN1-V
(Units: mm)

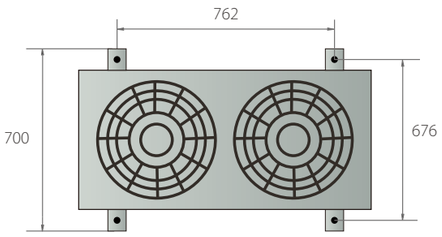




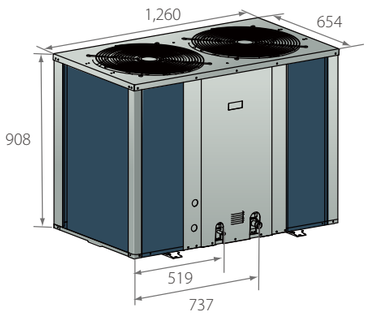
Air intake side

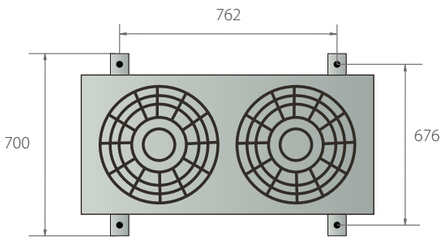
T1 application, commerical air handler, 208-230V 3Ph~ 60Hz
Outdoor unit: MOV-90CN1-D
Units: mm





T1 application, commerical air handler, 208-230V 3Ph~ 60Hz
Outdoor unit: MOV-120CN1-D
Units: mm





Duct Indoor Unit Series

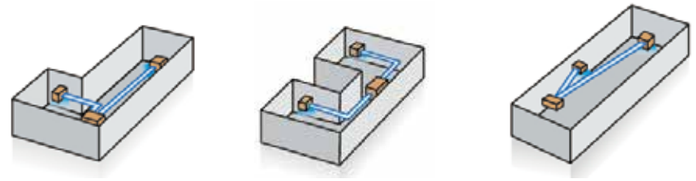
Duct Indoor Unit

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

T1 Application

Medium static pressure duct, heat pump

MTB-76HWN1
MTB-120HWN1

Indoor unit model			MTB-76HWN1	MTB-120HWN1
Outdoor unit model / Quantity			MOV-76HN1-R / 1	MOV-120HN1-R / 1
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity	Btu/h	76,000	120,000
		kW	22.3	35.0
	Input	kW	7.5	11.9
	EER	W/W	2.97	2.94
Heating	Capacity	Btu/h	85,300	129,700
		kW	25.0	38.0
	Input	kW	8.3	12.7
	COP	W/W	3.01	2.99
Max. power input		W	1,300	2,000
Max. current		A	5.2	9.0
Air flow (Hi)		m^3/h	4,250 (2,500CFM)	6,375 (3,750CFM)
Standard external static pressure		Pa	100	100
Noise level (Hi)		dB(A)	56	63
Fan	Type		Centrifugal	Centrifugal
	Drive type		Direct	Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Wired controller	Wired controller
Dimension	Net (W×H×D)	mm	1,452×462×797	1,452×462×797
	Packing (W×H×D)	mm	1,555×500×875	1,555×500×875
Net / Gross weight		kg	94 / 106	97 / 109

Notes:
1. Cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ 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

MOV-76HN1-R

MOV-120HN1-R

Outdoor unit model			MOV-76HN1-R	MOV-120HN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz
Max. power input		kW	11.7 (Outdoor unit)	17.3 (Outdoor unit)
Max. current		A	19.3 (Outdoor unit)	28.6 (Outdoor unit)
Air flow rate		m^3/h	12,500	13,000
Noise level		dB(A)	68	69
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1
Refrigerant (Type / Quantity)			R410A / 5.4kg	R410A / 7.5kg
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), Φ22 (Gas)	Φ12.7 (Liquid), Φ28.6 (Gas)
Ambient temperature	Cooling	℃	17~46	17~46
	Heating	℃	-7~24	-7~24
Dimension	Body (W×H×D)	mm	1,260×908×700	1,260×908×700
	Packing (W×H×D)	mm	1,320×1,060×730	1,320×1,060×730
Net / Gross weight		kg	174 / 193	201 / 217

Notes:
1. Cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ 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

T1 Application

High static pressure duct, heat pump

MHB-76HWN1

MHA-150HWN1
MHA-192HWN1

Indoor unit model			MHB-76HWN1	MHA-150HWN1	MHA-192HWN1
Outdoor unit model / Quantity			MOV-76HN1-R / 1	MOV-150HN1-R / 1	MOV-192HN1-R / 1
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity	Btu/h	76,000	150,100	192,000
		kW	22.3	44.0	56.3
	Input	kW	7.5	16.3	22.0
	EER	W/W	2.97	2.70	2.56
Heating	Capacity	Btu/h	85,300	160,300	200,000
		kW	25.0	47.0	58.6
	Input	kW	8.3	15.7	19.3
	COP	W/W	3.01	2.99	3.04
Max. power input		W	1,300	2,730	4,690
Max. current		A	5.2	12.1	20.9
Air flow (Hi)		m^3/h	4,250 (2,500CFM)	8,500 (5,000CFM)	10,800 (6,350CFM)
Standard external static pressure		Pa	196	196	196
Noise level (Hi)		dB(A)	56	63	65
Fan	Type		Centrifugal	Centrifugal	Centrifugal
	Drive type		Direct	Direct	Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Wired controller	Wired controller	Wired controller
Dimension	Net (WxHxD)	mm	1,452×462×797	1,988×669×906	1,988×669×906
	Packing (WxHxD)	mm	1,555×500×875	2,095×800×964	2,095×800×964
Net / Gross weight		kg	94 / 106	208 / 220	215 / 230

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. Heating capacity test condition: Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°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

MOV-76HN1-R

MOV-150HN1-R

MOV-192HN1-R

Outdoor unit model			MOV-76HN1-R	MOV-150HN1-R	MOV-192HN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz
Max. power input		kW	11.7 (Outdoor unit)	26.9 (Outdoor unit)	32.2 (Outdoor unit)
Max. current		A	19.3 (Outdoor unit)	47.9 (Outdoor unit)	53.8 (Outdoor unit)
Air flow rate		m^3/h	12,500	16,000	16,000
Noise level		dB(A)	68	70	73
Compressor (Type / Quantity)			Scroll / 1	Scroll / 3	Scroll / 3
Refrigerant (Type / Quantity)			R410A / 5.4kg	R410A / 10.0kg	R410A / 11.8kg
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)	Φ16 (Liquid), Φ32 (Gas)	Φ16 (Liquid), Φ35 (Gas)*
Ambient temperature	Cooling	℃	17~46	17~46	17~46
	Heating	℃	-7~24	-7~24	-7~24
Dimension	Body (WxHxD)	mm	1,260×908×700	1,250×1,615×765	1,390×1,615×765
	Packing (WxHxD)	mm	1,320×1,060×730	1,305×1,790×820	1,455×1,790×830
Net / Gross weight		kg	174 / 193	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. Heating capacity test condition: Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°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.
*. The connection pipes between indoor 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

T1 Application
DC inverter medium static pressure duct, heat pump
DC inverter high static pressure duct, heat pump

MTA-96HWAN1
MHA-96HWAN1

Model			MTA-96HWAN1	MHA-96HWAN1
Outdoor unit model / Quantity			MOUB-96HD1N1-R / 1	MOUB-96HD1N1-R / 1
Power supply			220-240V~, 1Ph, 50Hz	220-240V~, 1Ph, 50Hz
Cooling	Capacity	Btu/h	/	/
		kW	26	26.0
	Input	kW	11.3	11.6
	EER	W/W	2.3	2.24
	SEER	W/W	2.87	2.91
Heating	Capacity	Btu/h	/	/
		kW	30	30
	Input	kW	10	10.2
	COP	W/W	3	2.94
Max. power input		W	14000 (Whole unit)	14000 (Whole unit)
Max. current		A	29 （Whole unit）	29 (Whole unit)
Air flow (H)		m^3/h	4400	4600
External static pressure		Pa	100Pa	50 ~ 200
Noise level (H)		dB(A)	55	55
Fan	Type	/	Centrifugal	Centrifugal
	Drive type	/	Direct	Direct
Coil		/	Copper tube and aluminum fin	Copper tube and aluminum fin
Controller		/	Wired controller	Wired controller
Refrigerant pipe	Liquid	mm	Φ9.53	Φ9.52
	Gas	mm	Φ22.2	Φ22
Dimension	Body (W×H×D)	mm	1366×450×722	1,366×450×722
	Packing (W×H×D)	mm	1555×500×875	1,555×500×875
Net / Gross weight		kg	85/94	90/99

Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ 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

MOUB-96HD1N1-R

Model			MOUB-96HD1N1-R
Outdoor unit power supply			380-415V~, 3Ph, 50Hz
Max. power input		kW	12.4
Max. current		A	24.1
Noise level		dB(A)	60
Air flow		m^3/h	11,000
Compressor	Type	/	Rotary
	Quantity	/	1
Rdfrigerant	Type	/	R410A
	Quantity	/	6kg
Fan type		/	Axial fan
Coil		/	Copper tube and aluminum fin
Refrigerant pipe	Liquid	mm	Φ9.52
	Gas	mm	Φ22
Ambient temperature	Cooling	℃	10~55
	Heating	℃	-15~27
Dimension	Body (W×H×D)	mm	1,120×1,558×400
	Packing (W×H×D)	mm	1,270×1,575×480
Net / Gross weight		kg	142/164

Specifications

T1 Application
DC inverter medium static pressure duct, cooling only
DC inverter high static pressure duct, cooling only
MTA-96CWDN1
MTA-76CWDN1
MHA-96CWDN1
MHA-76CWDN1

Indoor unit model/ Quantity			MTA-96CWDN1	MTA-76CWDN1	MHA-96CWDN1	MHA-76CWDN1
Outdoor unit model / Quantity			MOUC-96CDN1-R/1	MOUC-76CDN1-R/1	MOUC-96CDN1-R/1	MOUC-76CDN1-R/1
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity	kW	28.8	23.5	28.8	23.5
	Input	kW	13.9	11.2	14.4	11.5
	EER	W/W	2.07	2.1	2	2.04
	SEER	W/W	3.1	3.3	3.1	3.2
Max. power input		W	1000	1000	1200	1200
Air flow		m^3/h	4400	4400	4600	4600
Standard external static pressure		Pa	100Pa (50-150pa)	100Pa (50-150pa)	150Pa (50-196pa)	150Pa (50-196pa)
Noise level		dB(A)	55/53/51	55/53/51	55/53/51	55/53/51
Fan	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Drive type		Direct	Direct	Direct	Direct
Coil			Copper tube and aluminum fin			
Controller			Wired controller	Wired controller	Wired controller	Wired controller
Refrigerant pipe	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Dimension	Net (WxHxD)	mm	1366×450×722	1366×450×722	1366×450×722	1366×450×722
	Packing (WxHxD)	mm	1555×500×875	1555×500×875	1555×500×875	1555×500×875
Net/Gross weight		kg	85/94	85/94	90/99	90/99

Specifications

MOUC-96CDN1-R
MOUC-76CDN1-R

Outdoor unit model			MOUC-96CDN1-R	MOUC-76CDN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz
Max. power input		kW	14	14
Max. current		A	32	32
Air flow rate		m^3/h	7150	7150
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	Copper tube and aluminum fin
Refrigerant piping size	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Ambient temperature	Cooling	℃	10-55	10-55
Dimension	Body (WxHxD)	mm	900×1325×370	900×1325×370
	Packing (WxHxD)	mm	1030×1456×435	1030×1456×435
Net / Gross weight		kg	115/125	115/125

Specifications

T1 Application
DC inverter medium static pressure duct, cooling only
DC inverter high static pressure duct, cooling only
MTA-96CWDN1-V
MTA-76CWDN1-V
MHA-96CWDN1-V
MHA-76CWDN1-V

Indoor unit model/ Quantity			MTA-96CWDN1-V	MTA-76CWDN1-V	MHA-96CWDN1-V	MHA-76CWDN1-V
Outdoor unit model / Quantity			MOUC-96CDN1-C/1	MOUC-76CDN1-C/1	MOUC-96CDN1-C/1	MOUC-76CDN1-C/1
Indoor unit power supply			220-240V, 1Ph~, 60Hz	220-240V, 1Ph~, 60Hz	220-240V, 1Ph~, 60Hz	220-240V, 1Ph~, 60Hz
Cooling	Capacity	kW	28.8	23.5	28.8	23.5
	Input	kW	13.9	11.2	14.4	11.5
	EER	W/W	2.07	2.1	2	2.04
	SEER	W/W	3.1	3.3	3.1	3.2
Max. power input		W	1000	1000	1200	1200
Air flow		m3/h	4400	4400	4600	4600
Standard external static pressure		Pa	100Pa (50-150pa)	100Pa (50-150pa)	150Pa (50-196pa)	150Pa (50-196pa)
Noise level		dB(A)	55/53/51	55/53/51	55/53/51	55/53/51
Fan	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Drive type		Direct	Direct	Direct	Direct
Coil			Copper tube and aluminum fin			
Controller			Wired controller	Wired controller	Wired controller	Wired controller
Refrigerant pipe	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Dimension	Net (WxHxD)	mm	1366×450×722	1366×450×722	1366×450×722	1366×450×722
	Packing (WxHxD)	mm	1555×500×875	1555×500×875	1555×500×875	1555×500×875
Net/Gross weight		kg	85/94	85/94	90/99	90/99

Specifications

MOUC-96CDN1-C
MOUC-76CDN1-C

Outdoor unit model			MOUC-96CDN1-C	MOUC-76CDN1-C
Outdoor unit power supply			380-415V, 3Ph~, 60Hz	380-415V, 3Ph~, 60Hz
Max. power input		kW	14	14
Max. current		A	32	32
Air flow rate		m³/h	7500	7500
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	Copper tube and aluminum fin
Refrigerant piping size	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Ambient temperature	Cooling	℃	10-55	10-55
Dimension	Body (WxHxD)	mm	900×1325×370	900×1325×370
	Packing (WxHxD)	mm	1030×1456×435	1030×1456×435
Net / Gross weight		kg	115/125	115/125

Specifications

T1 Application
DC inverter high static pressure duct, heat pump
(RCM certification of Australia)

MHC1-76HWD1N1
MHC-96HWD1N1

Model			MHC1-76HWD1N1	MHC-96HWD1N1
Outdoor unit model / Quantity			MOVG1-76HD1N1-R / 1	MOVG-96HD1N1-R / 1
Power supply			220-240V~, 1Ph, 50Hz	220-240V~, 1Ph, 50Hz
	Capacity	Btu/h	/	102,300
		kW	25.0	30.0
	Input	kW	7.50	9.80
	EER	W/W	3.23	3.23
	Capacity	Btu/h	/	102,300
		kW	25.0	30.0
	Input	kW	7.5	9.8
	COP	W/W	3.23	3.31
Max. power input		W	650	850
Max. current		A	4	4.5
		m^3/h	4500	5000
External static pressure		Pa	0 ~ 200	0 ~ 200
Noise level (H)		dB(A)	56	56
	Type	/	Centrifugal	Centrifugal
	Drive type	/	Direct	Direct
		/	Copper tube and aluminum fin	
		/	Wired controller	Wired controller
Refrigerant pipe	Liquid	mm	Φ12.7	Φ12.7
	Gas	mm	Φ28.6	Φ28.6
	Body (WxHxD)	mm	1,470×510×795	1,470×510×795
	Packing (WxHxD)	mm	1,555×545×875	1,555×545×875
Net / Gross weight		kg	83 / 94	83 / 92

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. Heating capacity test condition: Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°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

MOVG1-76HD1N1-R
MOVG-96HD1N1-R

Model			MOVG1-76HD1N1-R	MOVG-96HD1N1-R
Outdoor unit power supply			380-415V~, 3Ph, 50Hz	380-415V~, 3Ph, 50Hz
Max. power input		kW	8 (Whole unit)	9.25 (Whole unit)
Max. current		A	16	16
Noise level		dB(A)	66	66
Air flow		m^3/h	13,500	13,500
Compressor	Type	/	Inverter scroll	Inverter scroll
	Quantity	/	1	1
Rdfrigerant	Type	/	R410A	R410A
	Quantity	/	9.0kg	10.0kg
Fan type		/	Axial fan	Axial fan
Coil		/	Copper tube and aluminum fin	
Refrigerant pipe	Liquid	mm	Φ12.7	Φ12.7
	Gas	mm	Φ28.6	Φ28.6
Ambient temperature	Cooling	℃	-15~48	-15~48
	Heating	℃	-15~24	-15~24
Dimension	Body (WxHxD)	mm	948×1,585×968	948×1,585×968
	Packing (WxHxD)	mm	1,010×1,705×1,000	1,010×1,705×1,000
Net / Gross weight		kg	231 / 242	231 / 256

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. Heating capacity test condition: Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°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

T1 Application
DC inverter high static pressure duct, heat pump
MHC-75HWD1N1(A)
MHC-96HWD1N1(A)

Model			MHC-75HWD1N1(A)	MHC-96HWD1N1(A)
Outdoor unit model / Quantity			MOUA-75HD1N1-R / 1	MOUA-96HD1N1-R / 1
Power supply			220-240V~, 1Ph, 50Hz	220-240V~, 1Ph, 50Hz
Cooling	Capacity	Btu/h	/	95,500
		kW	22.4	28.0
	Input	kW	7.20	9.00
	EER	W/W	3.11	3.11
Heating	Capacity	Btu/h	/	107,000
		kW	24.5	31.5
	Input	kW	6.6	8.50
	COP	W/W	3.17	3.71
Max. power input		W	850	850
Max. current		A	4.5	4.5
Air flow (H)		m^3/h	4800	4800
External static pressure		Pa	0 ~ 150	0 ~ 150
Noise level (H)		dB(A)	52	52
	Type	/	Centrifugal	Centrifugal
	Drive type	/	Direct	Direct
		/	Copper tube and aluminum fin	
Controller		/	Wired controller	Wired controller
Refrigerant pipe	Liquid	mm	Φ9.52	Φ9.52
	Gas	mm	Φ25.4	Φ25.4
Dimension	Body (W×H×D)	mm	1,470×512×775	1,470×512×775
	Packing (W×H×D)	mm	1,555×545×875	1,555×545×875
Net / Gross weight		kg	83 / 92	83 / 92

Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ 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

MOUA-75HD1N1-R
MOUA-96HD1N1-R

Model			MOUA-75HD1N1-R	MOUA-96HD1N1-R
Outdoor unit power supply			380-415V~, 3Ph, 50Hz	380-415V~, 3Ph, 50Hz
Max. power input		kW	11.1 (Whole unit)	11.7 (Whole unit)
Max. current		A	15	16
Noise level		dB(A)	58	59
Air flow		m^3/h	9,400	9,800
Compressor	Type	/	Rotary	Rotary
	Quantity	/	1	1
Rdfrigerant	Type	/	R410A	R410A
	Quantity	/	7.2kg	7.2kg
Fan type		/	Axial fan	Axial fan
Coil		/	Copper tube and aluminum fin	
Refrigerant pipe	Liquid	mm	Φ9.52	Φ9.52
	Gas	mm	Φ25.4	Φ25.4
Ambient temperature	Cooling	℃	-15~48	-15~48
	Heating	℃	-15~24	-15~24
Dimension	Body (W×H×D)	mm	1,120×1,558×528	1,120×1,558×528
	Packing (W×H×D)	mm	1,270×1,720×565	1,270×1,720×565
Net / Gross weight		kg	147 / 163	148 / 164

Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ 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

Medium static pressure duct, heat pump

MTA-76HRN1

MTB1T-96HWN1

MTA-120HRN1

Indoor unit model			MTA-76HRN1	MTB1T-96HWN1	MTA-120HRN1
Outdoor unit model / Quantity			MOV-76HN1-C / 1	MOVTA-96HN1-R / 1	MOV-120HN1-C / 1
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 64,100	96,000 / 87,860	119,400 / 102,400
		kW	22.0 / 18.8	28.1 / 25.75	35.0 / 30.0
	Input (T1/T3)	kW	7.5 / 8.85	9.6 / 15.00	12.0 / 13.25
	EER (T1)	W/W	2.93	2.93	2.92
Heating	Capacity	Btu/h	85,000	106,000	130,000
		kW	25.0	31.1	38.0
	Input	kW	8.3	10.3	12.6
	COP	W/W	3.01	3.02	3.02
Max. power input		W	11,700 (Whole units)	1,400 (IDU)	17,300 (Whole units)
Max. current		A	19.3 (Whole units)	5.8 (IDU)	28.6 (Whole units)
Air flow (Hi)		m^3/h	4,250 (2,500CFM)	5,100 (3,000CFM)	6,375 (3,750CFM)
Standard external static pressure		Pa	100	100	150
Noise level (Hi)		dB(A)	58	56	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			Wireless controller	Wired controller	Wireless controller
Dimension	Net (W×H×D)	mm	1,443×450×846	1452×462×797	1,988×669×906
	Packing (W×H×D)	mm	1,549×476×917	1,555×500×875	2,095×800×964
Net / Gross weight		kg	105 / 120	97 / 109	188 / 220

Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
4. Specifications are subject to change without prior notice for product improvement.

Specifications

MOV-76HN1-C
MOVTA-96HN1-R

MOV-120HN1-C

Outdoor unit model			MOV-76HN1-C	MOVTA-96HN1-R	MOV-120HN1-C
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz	380-400V, 3Ph~, 50Hz
Max. power input		kW	11.7 (Whole units)	14.4 (ODU)	17.3 (Whole units)
Max. current		A	19.3 (Whole units)	23.7 (ODU)	28.6 (Whole units)
Air flow rate		m^3/h	12,500	12,500	13,000
Noise level		dB(A)	65	68	69
Compressor(Type / Quantity)			Scroll / 1	Scroll / 1	Scroll / 1
Refrigerant(Type / Quantity)			R410A / 5.4kg	R410A / 6.0kg	R410A / 7.2kg
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)	Φ12.7(Liquid), Φ25(Gas) #	Φ12.7(Liquid), Φ28.6(Gas)
Ambient temperature	Cooling	℃	17~52	17~52	17~52
	Heating	℃	-7~24	-7~24	-7~24
Dimension	Body (W×H×D)	mm	1,260×908×700	1,312×919×658	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	174 / 193	177 /192	201 / 217

Notes:
#. Connection piping diameter is the inlet and outlet pipe of the indoor unit and stop valves of outdoor unit. When the length of the refrigerant pipe between indoor and outdoor is not more than 30m, please connect the straight pipes as the accessory in indoor and outdoor unit with liquid pipe joints to change the diameter of liquid pipes 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 gas pipe joints to change the diameter of gas pipe to Φ28.1.
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
4. Specifications are subject to change without prior notice for product improvement.

Specifications

Tropical (T3) Application

Medium static pressure duct, cooling only

MTA-76CRN1

MTB1T-96CWN1

MTA-120CRN1

MTA-150CRN1

Indoor unit model			MTA-76CRN1	MTB1T-96CWN1	MTA-120CRN1	MTA-150CRN1
Outdoor unit model / Quantity			MOV-76CN1-C / 1	MOVTA-96CN1-R / 1	MOV-120CN1-C / 1	MOV-76CN1-C / 2
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 64,100	96,000 / 87,860	119,400 / 102,400	150,100 / 130,300
		kW	22.0 / 18.8	28.1 / 25.75	35.0 / 30.0	44.0 / 38.2
	Input (T1/T3)	kW	7.5 / 8.85	9.6 / 15.0	12.0 / 13.25	15.1 / 18.00
	EER (T1)	W/W	2.93	2.93	2.92	2.91
Heating	Capacity	Btu/h	-	-	-	-
		kW	-	-	-	-
	Input	kW	-	-	-	-
	COP	W/W	-	-	-	-
Max. power input		kW	11.7 (Whole units)	1.4 (IDU)	17.3 (Whole units)	21.2 (Whole units)
Max. current		A	19.3 (Whole units)	5.8 (IDU)	28.6 (Whole units)	35.0 (Whole units)
Air flow (Hi)		m^3/h	4,250 (2,500CFM)	5,100 (3,000CFM)	6,375 (3,750CFM)	7,650 (4,500CFM)
Standard external static pressure		Pa	100	100	150	150
Noise level (Hi)		dB(A)	58	56	63	68
Fan type / Drive type			Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Wireless controller	Wired controller	Wireless controller	Wireless controller
Dimension	Net (W×H×D)	mm	1,443×450×846	1,452×462×797	1,988×669×906	1,988×669×906
	Packing (W×H×D)	mm	1,549×476×917	1,555×500×875	2,095×800×964	2,095×800×964
Net / Gross weight		kg	105 / 120	97 / 109	168 / 196	188 / 200

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 29°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

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

MOV-120CN1-C

Outdoor unit model			MOV-76CN1-C	MOVTA-96CN1-R	MOV-120CN1-C
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz	380-400V, 3Ph~, 50Hz
Max. power input		kW	11.7 (Whole units)	14.4 (ODU)	17.3 (Whole units)
Max. current		A	19.3 (Whole units)	23.7 (ODU)	28.6 (Whole units)
Air flow rate		m^3/h	12,500	12,500	13,000
Noise level		dB(A)	65	68	69
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 5.4kg	R410A / 6.0kg	R410A / 7.2kg
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)	Φ12.7 (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	1,312×919×658	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	171 / 190	168 / 183	199 / 215

Notes:
#. Connection piping diameter is the inlet and outlet pipe of the indoor unit and stop valves of outdoor unit. When the length of the refrigerant pipe between indoor and outdoor is not more than 30m, please connect the straight pipes as the accessory in indoor and outdoor unit with liquid pipe joints to change the diameter of liquid pipes 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 gas pipe joints to change the diameter of gas pipe to Φ28.1.
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 29°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
Medium static pressure duct, cooling only
Outdoor unit power supply: 208-230V, 3Ph, 60Hz

MTA1-96CQN1

MTA1-120CQN1

MTA1-180CQN1
MTA1-240CQN1

Indoor unit model			MTA1-96CQN1	MTA1-120CQN1
Outdoor unit model / Quantity			MOV-96CN1-X / 1	MOV-120CN1-X / 1
Indoor unit power supply			208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz
Cooling	Capacity (T1/T3)	Btu/h	95,600 / 90,400	119,400 / 90,400
		kW	28.0 / 26.50	35.0 / 29.50
	Input (T1/T3)	kW	9.6 / 11.92	12.0 / 14.50
	EER (T1)	W/W	2.92	2.92
Max. power input		W	1,700	1,900
Max. current		A	8.4	9.0
Air flow (Hi)		m^3/h	5,100 (3,000CFM)	6,375 (3,750CFM)
Standard external static pressure		Pa	100	150
Noise level		dB(A)	56	58
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	1,452×462×797	1,988×669×906
	Packing (W×H×D)	mm	1,555×500×875	2,095×800×964
Net / Gross weight		kg	96 / 108	188 / 220

Indoor unit model			MTA1-180CQN1	MTA1-240CQN1
Outdoor unit model / Quantity			MOV-96CN1-X / 2	MOV-120CN1-X / 2
Indoor unit power supply			208~230V, 1Ph~, 60Hz	208~230V, 1Ph~, 60Hz
Cooling	Capacity (T1/T3)	Btu/h	179,100 / 166,800	238,840 / 209,800
		kW	52.5 / 48.94	70.0 / 61.50
	Input (T1/T3)	kW	18.1 / 22.01	24.0 / 30.50
	EER (T1)	W/W	2.90	2.92
Max. power input		W	2,500	2,600
Max. current		A	12.5	13.0
Air flow (Hi)		m^3/h	10,000 (5,880CFM)	12,000 (7,060CFM)
Standard external static pressure		Pa	150	150
Noise level		dB(A)	60	60
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	1,988×669×906	1,988×669×906
	Packing (W×H×D)	mm	2,095×800×964	2,095×800×964
Net / Gross weight		kg	190 / 217	193 / 220

Specifications

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

MOV-120CN1-X

Outdoor unit model			MOV-96CN1-X	MOV-120CN1-X
Outdoor unit power supply			208~230V, 3Ph~, 60Hz	208~230V, 3Ph~, 60Hz
Max. power input		W	16,700	18,200
Max. current		A	44.4	53.1
Air flow rate		m^3/h	12,500	13,000
Noise level		dB(A)	69	70
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 6.5kg	R410A / 7.5kg
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), Φ22 (Gas)	Φ12.7 (Liquid), Φ25 (Gas)
Ambient temperature		℃	17~52	17~52
Dimension	Body (W×H×D)	mm	1,260×908×700	1,260×908×700
	Packing (W×H×D)	mm	1,320×1,060×730	1,320×1,060×730
Net / Gross weight		kg	187 / 204	199 / 215

Notes:
1. T1 Cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 Cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ 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

High static pressure duct, heat pump & cooling only

Heat pump:
MHB-76HRN1
Cooling only:
MHB-76CRN1

Heat pump:
MHB1T-96HWN1
Cooling only:
MHB1T-96CWN1

Indoor unit model			MHB-76HRN1	MHB1T-96HWN1	MHB-76CRN1	MHB1T-96CWN1
Outdoor unit model / Quantity			MOV-76HN1-C / 1	MOVTA-96HN1-R / 1	MOV-76CN1-C / 1	MOVTA-96CN1-R / 1
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 64,100	96,000 / 87,860	75,100 / 64,100	96,000 / 87,860
		kW	22.0 / 18.8	28.1 / 25.75	22.0 / 18.8	28.1 / 25.75
	Input (T1/T3)	kW	7.5 / 8.85	9.6 / 15.00	7.5 / 8.85	9.6 / 15.00
	EER (T1)	W/W	2.93	2.93	2.93	2.93
Heating	Capacity	Btu/h	85,000	106,000	-	-
		kW	25.0	31.1	-	-
	Input	kW	8.3	10.3	-	-
	COP	W/W	3.01	3.02	-	-
Max. power input		kW	11.7 (Whole units)	1.4 (IDU)	11.7 (Whole units)	1.4 (IDU)
Max. current		A	19.3 (Whole units)	5.8 (IDU)	19.3 (Whole units)	5.8 (IDU)
Air flow (Hi)		m^3/h	4,250 (2,500CFM)	5,100 (3,000CFM)	4,250 (2,500CFM)	5,100 (3,000CFM)
Standard external static pressure		Pa	196	196	196	196
Noise level (Hi)		dB(A)	58	56	58	56
Fan type / Drive type			Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct	Centrifugal / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Controller			Wireless controller	Wired controller	Wireless controller	Wired controller
Dimension	Net (W×H×D)	mm	1,443×450×846	1,452×462×797	1,443×450×846	1,452×462×797
	Packing (W×H×D)	mm	1,549×476×917	1,555×500×875	1,549×476×917	1,555×500×875
Net / Gross weight		kg	105 / 120	97 / 109	105 / 120	97 / 109

Notes:

1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ 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

Heat pump:
MOV-76HN1-C MOVTA-96HN1-R
Cooling only:
MOV-76CN1-C MOVTA-96CN1-R

Outdoor unit model			MOV-76HN1-C	MOVTA-96HN1-R	MOV-76CN1-C	MOVTA-96CN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz
Max. power input		kW	11.7 (Whole units)	14.4 (ODU)	11.7 (Whole units)	14.4 (ODU)
Max. current		A	19.3 (Whole units)	23.7 (ODU)	19.3 (Whole units)	23.7 (ODU)
Air flow rate		m^3/h	12,500	12,500	12,500	12,500
Noise level		dB(A)	65	68	65	68
Compressor(Type / Quantity)			Scroll / 1	Scroll / 1	Scroll / 1	Scroll / 1
Refrigerant(Type / Quantity)			R410A / 5.4kg	R410A / 6.0kg	R410A / 5.4kg	R410A / 6.0kg
Fan type / Drive type			Axial / Direct	Axial / Direct	Axial / Direct	Axial / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Refrigerant piping size		mm	Φ9.52(Liquid), Φ22(Gas)	Φ12.7(Liquid), Φ25(Gas) #	Φ9.52(Liquid), Φ22(Gas)	Φ12.7(Liquid), Φ25(Gas) #
Ambient temperature		℃	17~52(Cooling) / -7~24(Heating)	17~52(Cooling) / -7~24(Heating)	17~52(Cooling)	17~52(Cooling)
Dimension	Body (W×H×D)	mm	1,260×908×700	1,312×919×658	1,260×908×700	1,312×919×658
	Packing (W×H×D)	mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730
Net / Gross weight		kg	174 / 193	177 /192	171 / 190	168 /183

Notes:

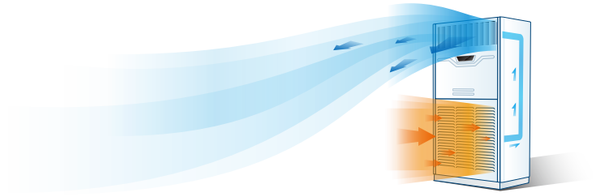
#. Connection piping diameter is the inlet and outlet pipe of the indoor unit and stop valves of outdoor unit. When the length of the refrigerant pipe between indoor and outdoor is not more than 30m, please connect the straight pipes as the accessory in indoor and outdoor unit with liquid pipe joints to change the diameter of liquid pipes 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 gas pipe joints to change the diameter of gas pipe to Φ28.1.

1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
4. Specifications are subject to change without prior notice for product improvement.

Floor-standing Indoor Unit Seires

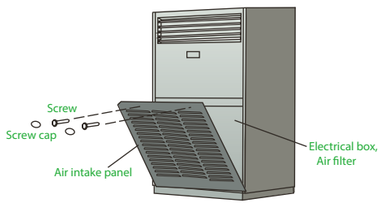
Floor-standing Indoor Unit

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

T1 Application

Heat pump

Indoor unit model			MFA2-76HRN1
Outdoor unit model / Quantity			MOV-76HN1-R / 1
Indoor unit power supply			220-240V, 1Ph~, 50Hz
Cooling	Capacity	Btu/h	76,000
		kW	22.3
	Input	kW	7.5
	EER	W/W	2.97
Heating	Capacity	Btu/h	85,300
		kW	25.0
	Input	kW	8.3
	COP	W/W	3.01
Max. power input		W	700
Max. current		A	3.0
Air flow (Hi)		m^3/h	4,300 (2,530CFM)
Noise level		dB(A)	56
Fan type / Drive type			Centrifugal / Direct
Coil			Copper tube and aluminum fin
Controller			Remote controller
Dimension	Net (W×H×D)	mm	1,200×1,860×518
	Packing (W×H×D)	mm	1,362×2,050×582
Net / Gross weight		kg	130 / 145

Outdoor unit model			MOV-76HN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz
Max. power input		kW	11.7
Max. current		A	19.3
Air flow rate		m^3/h	12,500
Noise level		dB(A)	68
Compressor (Type / Quantity)			Scroll / 1
Refrigerant (Type / Quantity)			R410A / 5.4kg
Fan type / Drive type			Axial / Direct
Coil			Copper tube and aluminum fin
Refrigerant piping size		mm	Φ9.52 (Liquid), Φ22 (Gas)
Ambient temperature		℃	17~46 (Cooling) / -7~24 (Heating)
Dimension	Body (W×H×D)	mm	1,260×908×700
	Packing (W×H×D)	mm	1,320×1,060×730
Net / Gross weight		kg	174 / 193

Notes:
1. Cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ 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

T1 Application

Heat pump

Indoor unit model			MFA-96HWAN1-R
Outdoor unit model / Quantity			MOUB-96HD1N1-R
Indoor unit power supply			220-240V, 1Ph~, 50Hz
Cooling	Capacity	Btu/h	/
		kW	28
	Input	kW	11
	EER	W/W	2.54
	SEER	W/W	3.4
Heating	Capacity	Btu/h	/
		kW	30
	Input	kW	9.8
	COP	W/W	3
Max. power input		W	13000 (Whole unit)
Max. current		A	27 (Whole unit)
Air flow (Hi)		m^3/h	4500
Noise level		dB(A)	60
Fan type / Drive type			Centrifugal / Direct
Coil			Copper tube and aluminum fin
Controller			Remote controller
Dimension	Net (W×H×D)	mm	1,200×1,860×420
	Packing (W×H×D)	mm	1,362×2,050×582
Net / Gross weight		kg	137 / 164

Outdoor unit model			MOUB-96HD1N1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz
Max. power input		kW	12.4
Max. current		A	24.1
Air flow rate		m^3/h	11, 000
Noise level		dB(A)	60
Compressor (Type / Quantity)			Scroll / 1
Refrigerant (Type / Quantity)			R410A / 6kg
Fan type / Drive type			Axial / Direct
Coil			Copper tube and aluminum fin
Refrigerant piping size		mm	Φ9.52 (Liquid), Φ22 (Gas)
Ambient temperature		℃	10~55 (Cooling) / -15~27 (Heating)
Dimension	Body (W×H×D)	mm	1,120×1,558×400
	Packing (W×H×D)	mm	1,270×1,575×480
Net / Gross weight		kg	142 / 164

Notes:
1. Cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ 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

T1 Application
Cooling only

Indoor unit model/ Quantity			MFA-96CRDN1	MFA-76CRDN1
Outdoor unit model / Quantity			MOUC-96CDN1-R/1	MOUC-76CDN1-R/1
Panel / Quantity			/	/
Branch joint / Quantity			/	/
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity	kW	29.5	23.5
	Input	kW	13.92	11
	EER	W/W	2.12	2.14
	SEER	W/W	3.3	3.4
Max. power input		W	600	600
Air flow		m^3/h	4500	4500
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
Refrigerant pipe	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Dimension	Net (W×H×D)	mm	1200×1860×420	1200×1860×420
	Packing (W×H×D)	mm	1362×2050×582	1362×2050×582
Net/Gross weight		kg	137 / 164	137 / 164

Outdoor unit model			MOUC-96CDN1-R	MOUC-76CDN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz
Max. power input		kW	14	14
Max. current		A	32	32
Air flow rate		m^3/h	7150	7150
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	Copper tube and aluminum fin
Refrigerant piping size	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Ambient temperature	Cooling	℃	10-55	10-55
Dimension	Body (W×H×D)	mm	900×1325×370	900×1325×370
	Packing (W×H×D)	mm	1030×1456×435	1030×1456×435
Net / Gross weight		kg	115/125	115/125

Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Speci cations are subject to change without prior notice for product improvement.

Specifications – Indoor Units

T1 Application
Cooling only

Indoor unit model/ Quantity			MFA-96CRDN1-V	MFA-76CRDN1-V
Outdoor unit model / Quantity			MOUC-96CDN1-C/1	MOUC-76CDN1-C/1
Panel / Quantity			/	/
Branch joint / Quantity			/	/
Indoor unit power supply			220-240V, 1Ph~, 60Hz	220-240V, 1Ph~, 60Hz
Cooling	Capacity	kW	29.5	23.5
	Input	kW	13.92	11
	EER	W/W	2.12	2.14
	SEER	W/W	3.3	3.4
Max. power input		W	600	600
Air flow		m^3/h	4500	4500
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
Refrigerant pipe	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Dimension	Net (W×H×D)	mm	1200×1860×420	1200×1860×420
	Packing (W×H×D)	mm	1362×2050×582	1362×2050×582
Net/Gross weight		kg	137 / 164	137 / 164

Outdoor unit model			MOUC-96CDN1-C	MOUC-76CDN1-C
Outdoor unit power supply			380-415V, 3Ph~, 60Hz	380-415V, 3Ph~, 60Hz
Max. power input		kW	14	14
Max. current		A	32	32
Air flow rate		m^3/h	7500	7500
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	Copper tube and aluminum fin
Refrigerant piping size	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Ambient temperature	Cooling	℃	10-55	10-55
Dimension	Body (W×H×D)	mm	900×1325×370	900×1325×370
	Packing (W×H×D)	mm	1030×1456×435	1030×1456×435
Net / Gross weight		kg	115/125	115/125

Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Speci cations are subject to change without prior notice for product improvement.

Specifications

Tropical (T3) Application

Heat pump

Indoor unit model			MFA-76HRN1	MFA3T-96HRN1
Outdoor unit model / Quantity			MOV-76HN1-C / 1	MOVTA-96HN1-R / 1
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 64,800	96,000 / 87,860
		kW	22.0 / 19.0	28.1 / 25.75
	Input (T1/T3)	kW	7.5 / 8.98	9.6 / 15.00
	EER (T1)	W/W	2.93	2.93
Heating	Capacity	Btu/h	85,000	106,000
		kW	25.0	31.1
	Input	kW	8.3	10.3
	COP	W/W	3.01	3.02
Max. power input		kW	11.7 (Whole units)	0.7 (IDU)
Max. current		A	19.3 (Whole units)	3.0 (IDU)
Air flow (Hi)		m^3/h	4,250 (2,500CFM)	5,100 (3,000CFM)
Noise level		dB(A)	58	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	158 / 174	140 / 154

Outdoor unit model			MOV-76HN1-C	MOVTA-96HN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz
Max. power input		kW	11.7 (Whole units)	14.4 (ODU)
Max. current		A	19.3 (Whole units)	23.7 (ODU)
Air flow rate		m^3/h	12,500	12,500
Noise level		dB(A)	65	68
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1
Refrigerant (Type / Quantity)			R410A / 5.4kg	R410A / 6.0kg
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), Φ22 (Gas)	Φ12.7 (Liquid), Φ25 (Gas) #
Ambient temperature		℃	17~52 (Cooling) / -7~24 (Heating)	17~52 (Cooling) / -7~24 (Heating)
Dimension	Body (W×H×D)	mm	1,260×908×700	1,312×919×658
	Packing (W×H×D)	mm	1,320×1,060×730	1,320×1,060×730
Net / Gross weight		kg	174 / 193	177 /192

Notes:

#. Connection piping diameter is the inlet and outlet pipe of the indoor unit and stop valves of outdoor unit. When the length of the refrigerant pipe between indoor and outdoor is not more than 30m, please connect the straight pipes as the accessory in indoor and outdoor unit with liquid pipe joints to change the diameter of liquid pipes 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 gas pipe joints to change the diameter of gas pipe to Φ28.1.

1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
4. Specifications are subject to change without prior notice for product improvement.

Specifications

Tropical (T3) Application

Cooling only

Indoor unit model			MFA-76CRN1	MFA3T-96CRN1	MFAT-120CRN1
Outdoor unit model / Quantity			MOV-76CN1-C / 1	MOVTA-96CN1-R / 1	MOV-120CN1-C / 1
Indoor unit power supply			220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz	220-240V, 1Ph~, 50Hz
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 64,800	96,000 / 87,860	121,000 / 110,900
		kW	22.0 / 19.0	28.1 / 25.75	35.0 / 32.5
	Input (T1/T3)	kW	7.5 / 8.98	9.6 / 15.00	13.0 / 15.50
	EER (T1)	W/W	2.93	2.93	2.69
Heating	Capacity	Btu/h	-	-	-
		kW	-	-	-
	Input	kW	-	-	-
	COP	W/W	-	-	-
Max. power input		kW	11.7 (Whole units)	0.7 (IDU)	17.3 (Whole units)
Max. current		A	19.3 (Whole units)	3.0 (IDU)	28.6 (Whole units)
Air flow (Hi)		m^3/h	4,250 (2,500CFM)	5,100 (3,000CFM)	6,060 (3,560CFM)
Noise level		dB(A)	58	56	65
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	1,200×1,860×518	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	1,362×2,050×582
Net / Gross weight		kg	158 / 174	140 / 154	148 / 174

Outdoor unit model			MOV-76CN1-C	MOVTA-96CN1-R	MOV-120CN1-C
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz	380-400V, 3Ph~, 50Hz
Max. power input		kW	11.7 (Whole units)	14.4 (ODU)	17.3 (Whole units)
Max. current		A	19.3 (Whole units)	23.7 (ODU)	28.6 (Whole units)
Air flow rate		m^3/h	12,500	12,500	13,000
Noise level		dB(A)	65	68	69
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 5.4kg	R410A / 6.0kg	R410A / 7.2kg
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)	Φ12.7 (Liquid), Φ25 (Gas) #	Φ12.7 (Liquid), Φ28.6 (Gas)
Ambient temperature		℃	17~52	17~52	17~52
Dimension	Body (W×H×D)	mm	1,260×908×700	1,312×919×658	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	171 / 190	168 / 183	199 / 215

Notes:

#. Connection piping diameter is the inlet and outlet pipe of the indoor unit and stop valves of outdoor unit. When the length of the refrigerant pipe between indoor and outdoor is not more than 30m, please connect the straight pipes as the accessory in indoor and outdoor unit with liquid pipe joints to change the diameter of liquid pipes 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 gas pipe joints to change the diameter of gas pipe to Φ28.1.

1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
4. Specifications are subject to change without prior notice for product improvement.

Specifications

Tropical (T3) application

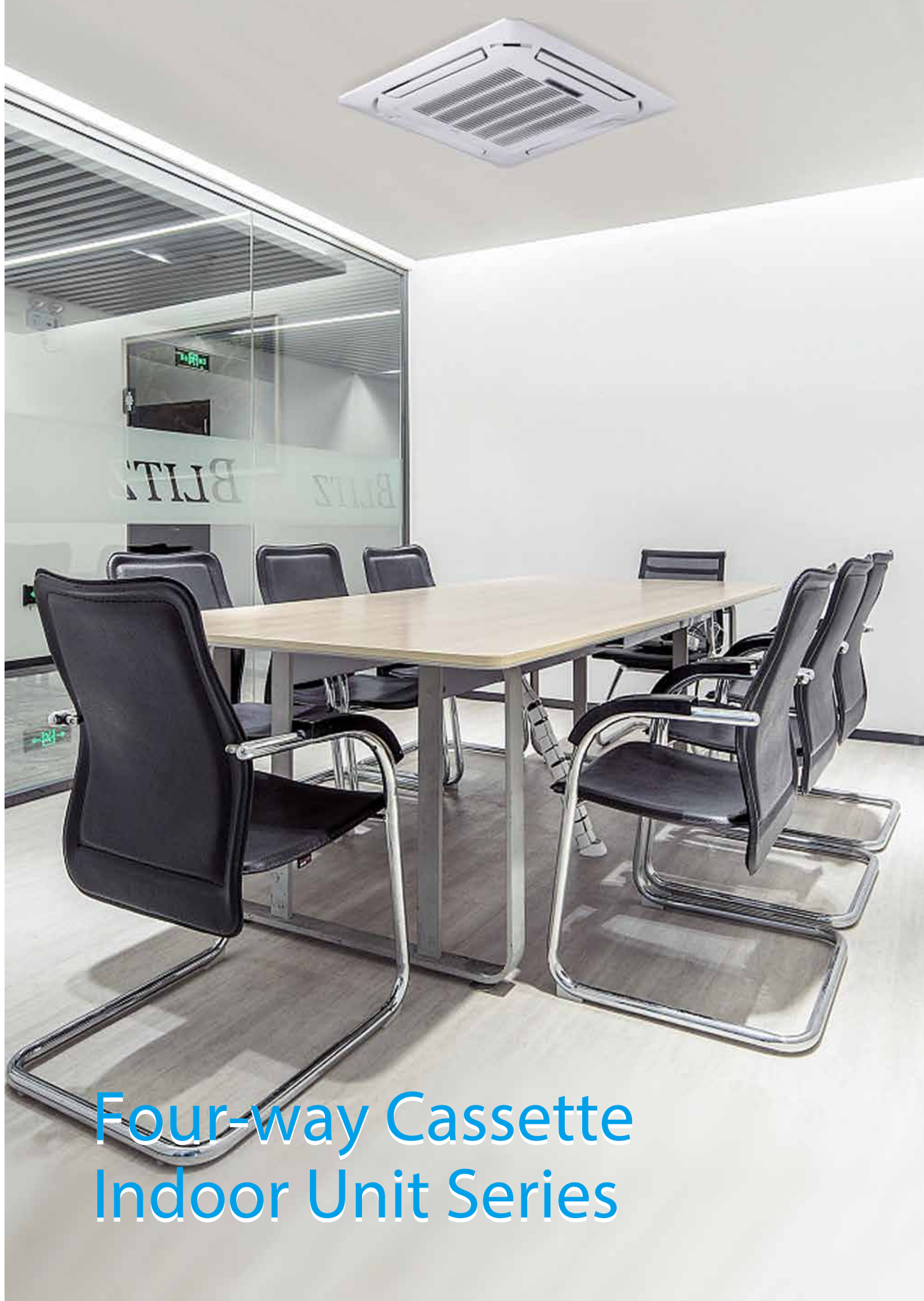
Outdoor unit power supply: 208-230V, 3Ph, 60Hz

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

Outdoor unit model		MOV-96CN1-X
Outdoor unit power supply		208~230V, 3Ph~, 60Hz
Max. power input	W	16,700
Max. current	A	44.4
Air flow rate	m^3/h	12,500
Noise level	dB(A)	69
Compressor (Type / Quantity)		Scroll / 1
Refrigerant (Type / Charged)		R410A / 6.5kg
Fan type / Drive type		Axial / Direct
Coil		Copper tube and aluminum fin
Refrigerant piping size	mm	Φ9.52 (Liquid), Φ22 (Gas)
Ambient temperature	℃	17~52
Dimension	Body (W×H×D)	mm	1,260×908×700
	Packing (W×H×D)	mm	1,320×1,060×730
Net / Gross weight	kg	187 / 204

Notes:

1. T1 Cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 Cooling capacity test condition: Outdoor ambient temperature: 46℃, indoor temperature 29℃ DB / 19℃ 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.



Four-way Cassette Indoor Unit Series

Four-way Cassette Indoor Unit Series

RM05

Fresh Air Intake

Fresh air can enter through the cassette unit so you can enjoy even fresher air in a room.

Easy Troubleshooting

For Four-way Cassette: By adding digital tube on the display board, Error Codes can be displayed directly for troubleshooting.

360°Airflow Outlet

For Compact Four-way Cassette: 360 ° air outlet provides strong air flow circulation to cool or heat every corner of a room and evenly control temperatures.

High-lift Drain Pump

For Compact Four-way Cassette: Drain pump with a 500mm pump head is fitted as standard; maximum 600mm pump head is available.

For Four-way Cassette: Drain pump can pump condenser water up to 750mm high, which simplifies installation of the drain piping system.

Anti-Cold Air Function

Auto Restart Function

Auto Defrosting

Independent Dehumidification

Timer

PTC Heater

Features: Standard Optional

Specifications

T1 Application
DC inverter four-way cassette, heat pump

Indoor unit model/ Quantity			MQ4A-48HWAN1/2
Outdoor unit model / Quantity			MOUB-96HD1N1-R/1
Panel / Quantity			T-MBQ-02C1/2
Branch joint / Quantity			FQZHN-02D/1
Indoor unit power supply			220-240V, 1Ph~, 50Hz
Cooling	Capacity	Btu/h	/
		kW	26
	Input	kW	8.2
	EER	W/W	3.17
	SEER	W/W	3
Heating	Capacity	Btu/h	/
		kW	27.5
	Input	kW	7.85
	COP	W/W	3.5
Max. power input		W	11800
Max. current		A	21
Air flow (Hi)		m^3/h	1800
Noise level (Hi/MED/LOW)		dB(A)	41/39/37 (single unit)
Fan	Type		Centrifugal
	Drive type		Direct
Coil			Copper tube and aluminum fin
Controller			Remote controller
Dimension	Net (W×H×D)	mm	840×300×840 950×950×46 (Panel)
	Packing (W×H×D)	mm	955×317×955 1035×1035×90 (Panel)
Net / Gross weight		kg	29.2/35.2 5.3/7.9 (Panel)

Outdoor unit model			MOUB-96HD1N1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz
Max. power input		kW	12.4
Max. current		A	24.1
Air flow rate		m^3/h	11, 052
Noise level		dB(A)	60
Compressor (Type / Quantity)			Scroll / 1
Refrigerant (Type / Quantity)			R410A / 6kg
Fan type / Drive type			Axial / Direct
Coil			Copper tube and aluminum fin
Refrigerant piping size		mm	Φ9.52 (Liquid), Φ22 (Gas)
Ambient temperature		°C	10~55 (Cooling) / -15~27 (Heating)
Dimension	Body (W×H×D)	mm	1,120×1,558×400
	Packing (W×H×D)	mm	1,270×1,575×480
Net / Gross weight		kg	142 / 157

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. Heating capacity test condition: Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°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

T1 Application
DC inverter four-way cassette

Indoor unit model/ Quantity			MQ4A-48CRDN1	MQ4A-38CRDN1
Outdoor unit model / Quantity			MOUC-96CDN1-R/1	MOUC-76CDN1-R/1
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	kW	28	23.5
	Input	kW	12.61	10.5
	EER	W/W	2.22	2.24
	SEER	W/W	3	3.4
Max. power input		W	190	190
Air flow		m^3/h	1800	1800
Noise level		dB(A)	41/39/37(single unit)	41/39/37(single unit)
Fan	Type		Centrifugal	Centrifugal
	Drive type		Direct	Direct
Coil			Copper tube and aluminum fin	
Controller			Remote controller	Remote controller
Refrigerant pipe	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Dimension	Net (WxHxD)	mm	840×300×840 950×950×46 (Panel)	840×300×840 950×950×46 (Panel)
	Packing (WxHxD)	mm	955×317×955 1035×1035×90 (Panel)	955×317×955 1035×1035×90 (Panel)
Net/Gross weight		kg	29.2/35.2 5.3/7.9 (Panel)	29.2/35.2 5.3/7.9 (Panel)

Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Speci cations are subject to change without prior notice for product improvement.

Outdoor unit model			MOUC-96CDN1-R	MOUC-76CDN1-R
Outdoor unit power supply			380-415V, 3Ph~, 50Hz	380-415V, 3Ph~, 50Hz
Max. power input		kW	14	14
Max. current		A	32	32
Air flow rate		m^3/h	7150	7150
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	Copper tube and aluminum fin
Refrigerant piping size	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Ambient temperature	Cooling	℃	10-55	10-55
Dimension	Body (WxHxD)	mm	900×1325×370	900×1325×370
	Packing (WxHxD)	mm	1030×1456×435	1030×1456×435
Net / Gross weight		kg	115/125	115/125

Specifications

T1 Application
DC inverter four-way cassette, cooling only

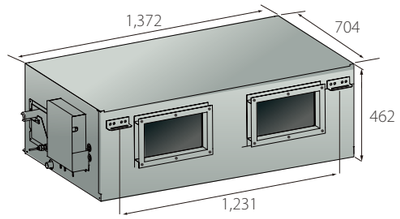
Indoor unit model/ Quantity			MQ4A-48CRDN1-V/2	MQ4A-38CRDN1-V/2
Outdoor unit model / Quantity			MOUC-96CDN1-C/1	MOUC-76CDN1-C/1
Panel / Quantity			T-MBQ-02C1/2	T-MBQ-02C1/2
Branch joint / Quantity			FQZHN-02D/1	FQZHN-02D/1
Indoor unit power supply			220-240V, 1Ph~, 60Hz	220-240V, 1Ph~, 60Hz
Cooling	Capacity	kW	28	23.5
	Input	kW	12.61	10.5
	EER	W/W	2.22	2.24
	SEER	W/W	3	3.4
Max. power input		W	190	190
Air flow		m^3/h	1800	1800
Noise level		dB(A)	41/39/37(single unit)	41/39/37(single unit)
Fan	Type		Centrifugal	Centrifugal
	Drive type		Direct	Direct
Coil			Copper tube and aluminum fin	
Controller			Remote controller	Remote controller
Refrigerant pipe	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Dimension	Net (WxHxD)	mm	840×300×840 950×950×46 (Panel)	840×300×840 950×950×46 (Panel)
	Packing (WxHxD)	mm	955×317×955 1035×1035×90 (Panel)	955×317×955 1035×1035×90 (Panel)
Net/Gross weight		kg	29.2/35.2 5.3/7.9 (Panel)	29.2/35.2 5.3/7.9 (Panel)

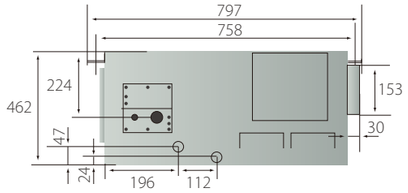
Notes:
1. T1 cooling capacity test condition: Outdoor ambient temperature: 35℃, indoor temperature 27℃ DB / 19℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. Heating capacity test condition: Outdoor ambient temperature: 7℃ DB / 6℃ WB, indoor temperature 20℃ DB / 15℃ WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Speci cations are subject to change without prior notice for product improvement.

Outdoor unit model			MOUC-96CDN1-C	MOUC-76CDN1-C
Outdoor unit power supply			380-415V, 3Ph~, 60Hz	380-415V, 3Ph~, 60Hz
Max. power input		kW	14	14
Max. current		A	32	32
Air flow rate		m^3/h	7500	7500
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	Copper tube and aluminum fin
Refrigerant piping size	Liquid	mm	Φ9.53	Φ9.53
	Gas	mm	Φ22.2	Φ22.2
Ambient temperature	Cooling	℃	10-55	10-55
Dimension	Body (WxHxD)	mm	900×1325×370	900×1325×370
	Packing (WxHxD)	mm	1030×1456×435	1030×1456×435
Net / Gross weight		kg	115/125	115/125

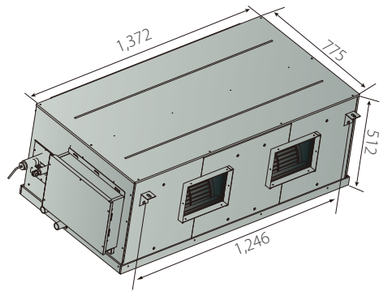
Dimensions

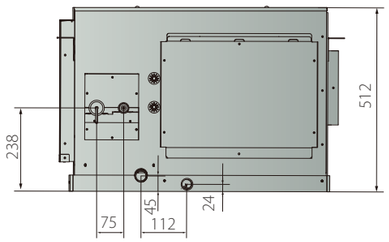
T1 application
Duct indoor unit: MTB-76HWN1, MTB-120HWN1, MHB-76HWN1,
(Units: mm)



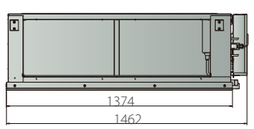


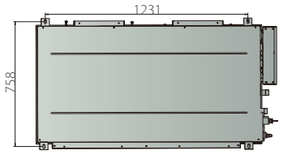
T1 application
Duct indoor unit: MHC1-76HWD1N1, MHC-75HWD1N1(A),
MHC-96HWD1N1, MHC-96HWD1N1(A)
(Units: mm)

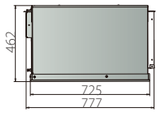


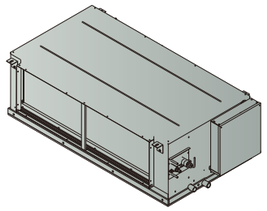


T1 application
Indoor unit: MHA-96HWAN1, MTA-96HWAN1,MHA-96CWDN1, MHA-76CWDN1, MTA-96CWDN1,
MTA-76CWDN1, MHA-96CWDN1-V, MHA-76CWDN1-V, MTA-96CWDN1-V, MTA-76CWDN1-V
(Units: mm)

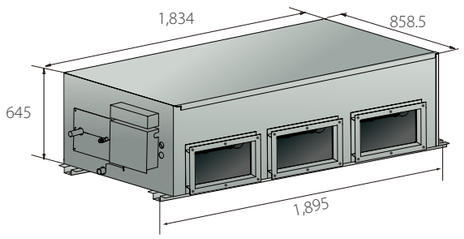


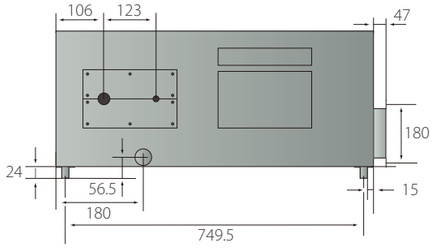




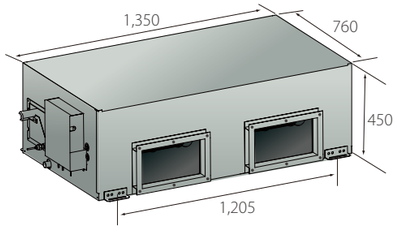


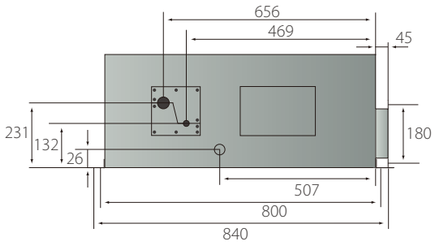
T1 application
Duct indoor unit: MHA-150HWN1, MHA-192HWN1
(Units: mm)



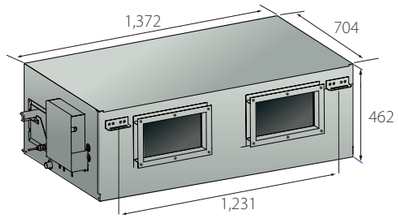


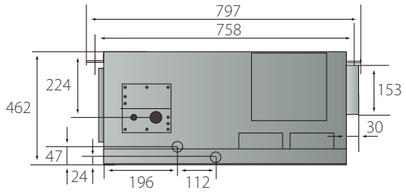
Tropical (T3) application
Duct indoor unit: MTA-76HRN1, MTA-76CRN1
MHB-76HRN1, MHB-76CRN1
(Units: mm)



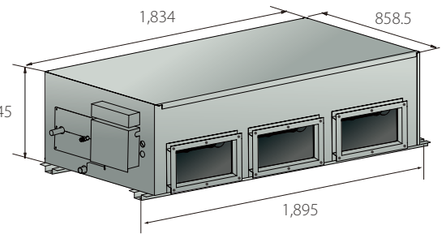


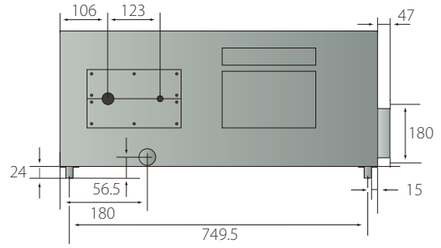
Tropical (T3) application
Duct indoor unit: MTB1T-96HWN1, MTB1T-96CWN1
MHB1T-96HWN1, MHB1T-96CWN1, MTA1-96CQN1
(Units: mm)



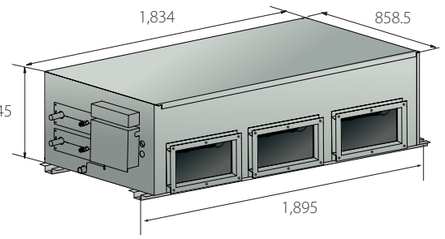


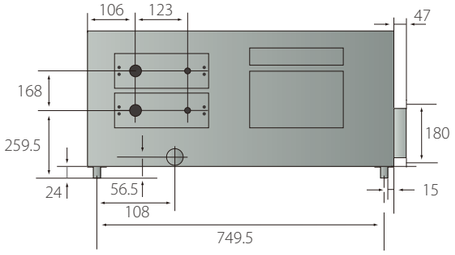
Tropical (T3) application
Duct indoor unit: MTA-120HRN1, MTA-120CRN1,
MTA1-120CQN1
(Units: mm)



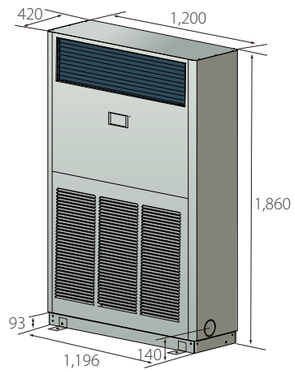


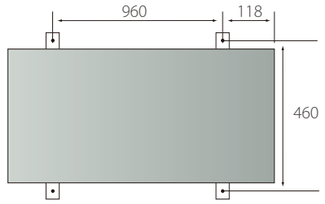
Tropical (T3) application
Duct indoor unit: MTA-150CRN1
MTA1-180CQN1,MTA1-240CQN1
(Units: mm)



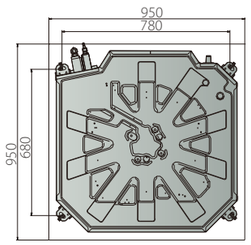


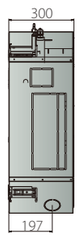
T1 & Tropical (T3) application
Floor-standing indoor unit: MFA2-76HRN1, MFA-76HRN1, MFA-76CRN1,
MFA3T-96HRN1, MFA3T-96CRN1, MFA-96HWAN1-R,MFA1-96CRN1,MFAT-120CRN1, MFA-96CRDN1, MFA-76CRDN1,
MFA-96CRDN1-V, MFA-76CRDN1-V
(Units: mm)

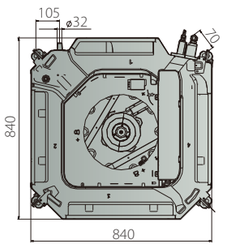


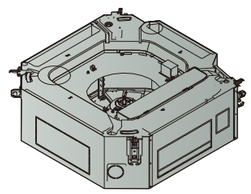


T1 application
Indoor unit: MQ4A-48HWAN1, MQ4A-48CRDN1, MQ4A-38CRDN1, MQ4A-48CRDN1-V, MQ4A-38CRDN1-V
(Units: mm)

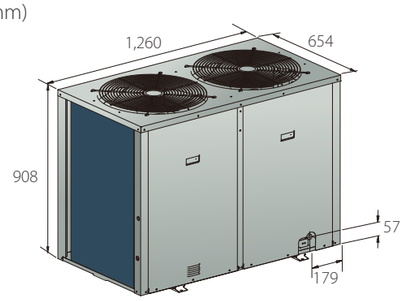


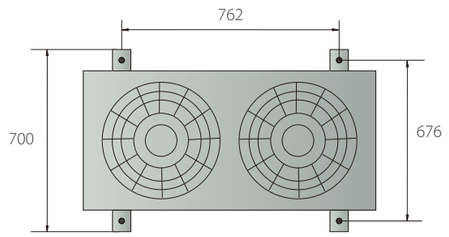




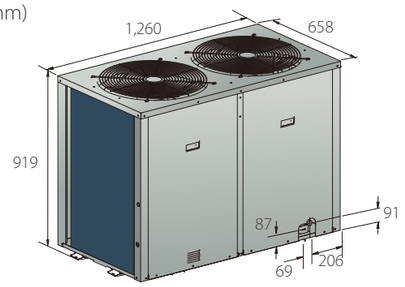


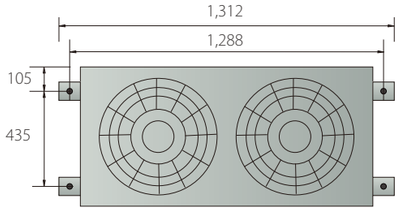
T1 & Tropical (T3) application
Outdoor unit: MOV-76HN1-R, MOV-76HN1-C, MOV-76CN1-C
(Units: mm)



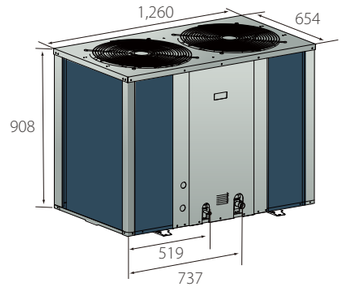


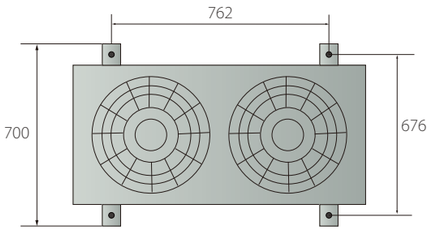
T1 & Tropical (T3) application
Outdoor unit: MOVTA-96HN1-R, MOVTA-96CN1-R
(Units: mm)



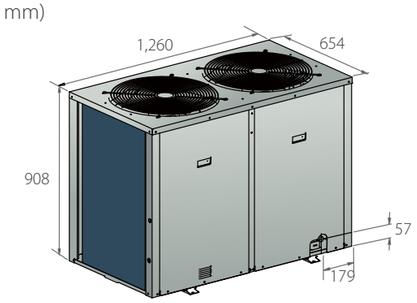


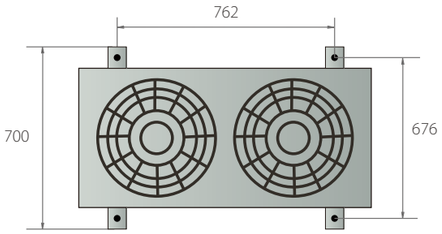
T1 & Tropical (T3) application
Outdoor unit: MOV-120HN1-R, MOV-120HN1-C, MOV-120CN1-C
(Units: mm)



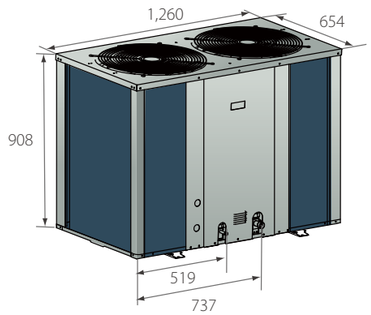


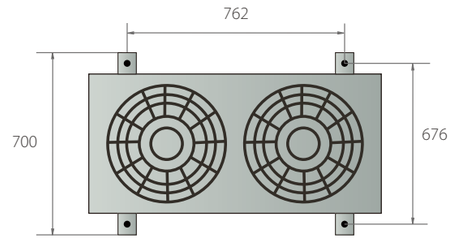
T3 application, 208~230V/380V 3Ph~ 60Hz
Outdoor unit: MOV-96CN1-X
(Units: mm)



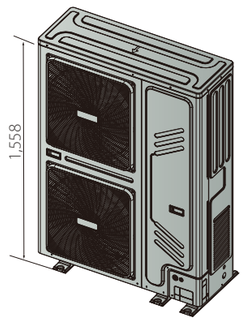


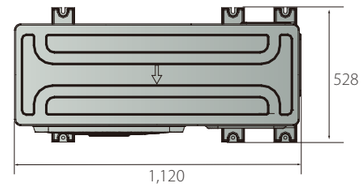
T3 application, 208~230V/380V 3Ph~ 60Hz
Outdoor unit: MOV-120CN1-X
(Units: mm)



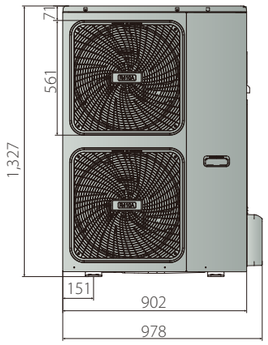


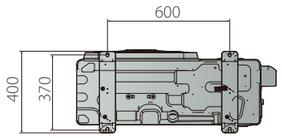
T1 application
Outdoor unit: MOUA-96HD1N1-R, MOUB-96HD1N1-R
(Units: mm)



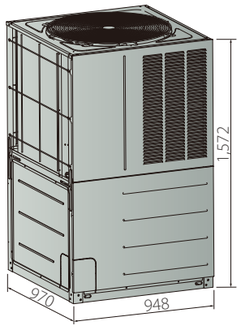


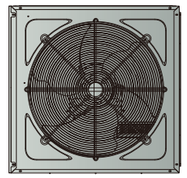
T1 application
Outdoor unit: MOUC-96CDN1-R, MOUC-76CDN1-R, MOUC-96CDN1-C, MOUC-76CDN1-C
(Units: mm)



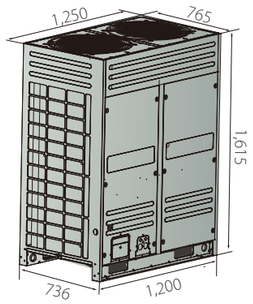


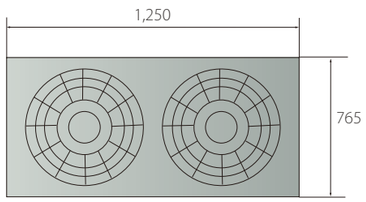
T1 Application
Outdoor unit: MOVG1-76HD1N1-R, MOVG-96HD1N1-R
(Units: mm)



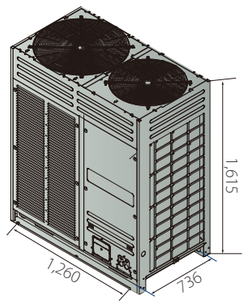


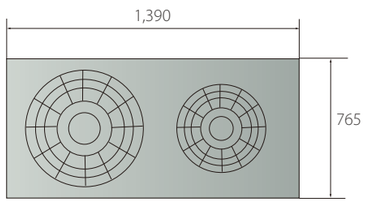
T1 application
Outdoor unit: MOV-150HN1-R
(Units: mm)





T1 application
Outdoor unit: MOV-192HN1-R
(Units: mm)





Controllers

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

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.

RM05

Parameter

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

Wired Controller - KJR-29B

Parameter

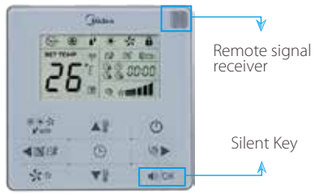
Model: KJR-29B (Touch-style key)
Dimension (mm): 120×120×20
Power: From the display panel,
extra power is unnecessary.

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. It is convenient to control the air conditioner.



Silent mode

- During the operating, when operate the silent mode, the units can reduce the running noise through setting the fan speed to low automatically. It will help you bring a quieter environment.

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)

Centralized control

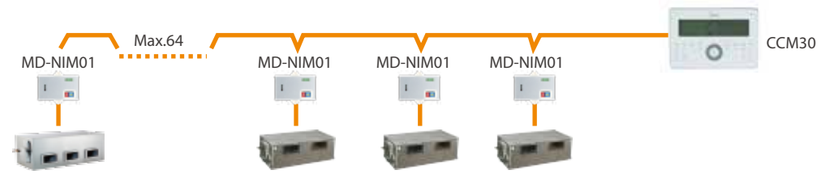
- MD-CCM30, centralized controller, is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1200m.
- User can group control or individual control and the set temperature of each units can also different.
- The indoor units working status and error codes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



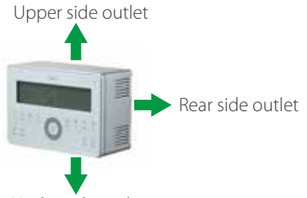
Note: The new DC inverter series connected to outdoor unit XYE port directly .

Easy installation

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

Structure A

Structure B



Structure B leading-out mode sketch