One-Way Cassette

The Ultimate All-Climate Comfort Solution

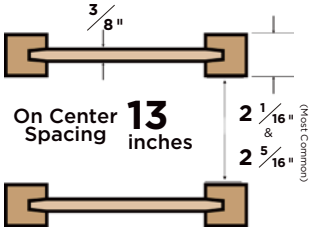
XTREME HEAT

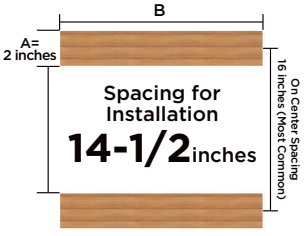
US CA

Core Features

Designed for American Construction Standards

Fits not only in the most common joist space, but also in the I-Joist space, which is a rapidly growing application in the U.S. construction industry.

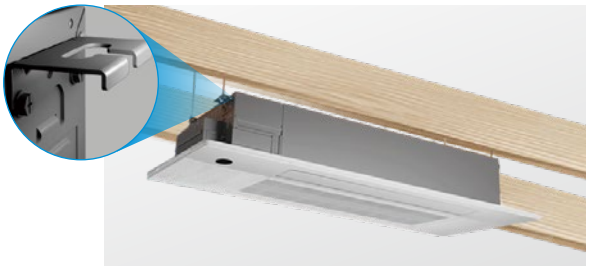




2-Way Installation

1 Hang-Up Installation

Our hangers with optimized anti-cutting design are easy to grab and lift, preventing hands from being scratched by the sharp edge.



2 Push-In Installation

A unique & exclusive Push-In Case is designed for easy installation options. Installers can plug in the IN-cassette unit between the joists and fix it on the beams with screws. Double Row Tack Holes Design adapts to various joist sizes.

Elevation Panel

From now on, no more climbing up and down because the panel can move on its own. By activating the Elevation Panel function on the remote or smart controller, the panel will lower directly to you, making it easier to remove the air filter.

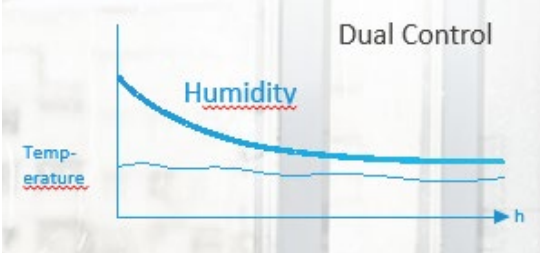
58-3/4 in.
(1.5m) Standard

79-1/4 in.
(2.0m) Optional

Temperature & Humidity Control

By utilizing intelligent control technology, simultaneously adjust the indoor temperature and humidity to provide a more comfortable environment.

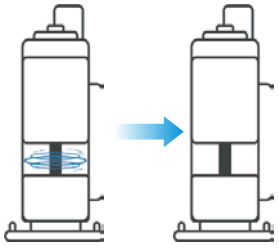
Precise Temperature Adjustment	Flexible Humidity Control
1.8°F (1°C)	35%-85%



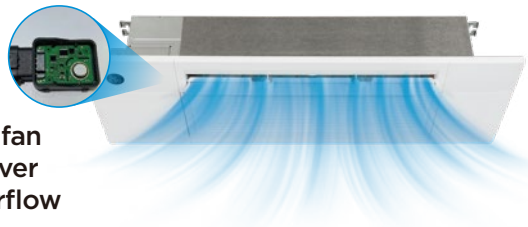
Refrigerant Leak Detection System

The system will stop the compressor operation of the outdoor unit to prevent the refrigerant from flowing into the indoor space continuously.

1 **Compressor stops**



2 **The indoor fan runs to deliver constant airflow**



As a result, the total amount of R454B refrigerant in the indoor space will be reduced to a safe level.

Control

For different usage scenarios, multiple control solutions are provided: the APP remote control allows you to manage your system anytime and anywhere, and the wired controller and remote control meet the needs of different users.

SmartHome App

The SmartHome App is for those who live their life on the go and who want to manage their Midea system from their smartphone.

Download The App

Scan the QR code in the User Manual
Select “SmartHome*” in the App Store.

SmartHome
Download the app & activate product

Download on the App Store

GET IT ON Google Play

Works With Your Home Automation System

Use the SmartHome App or integrate your air conditioner into your Alexa or Google Home systems.

works with alexa

works with Google Home

Google and Google Home are trademarks of Google LLC.

Smart Home

Available Controllers

Midea has a variety of wired or remote controls available.

Wired Wall Controllers

120N

120L

MTL04-1

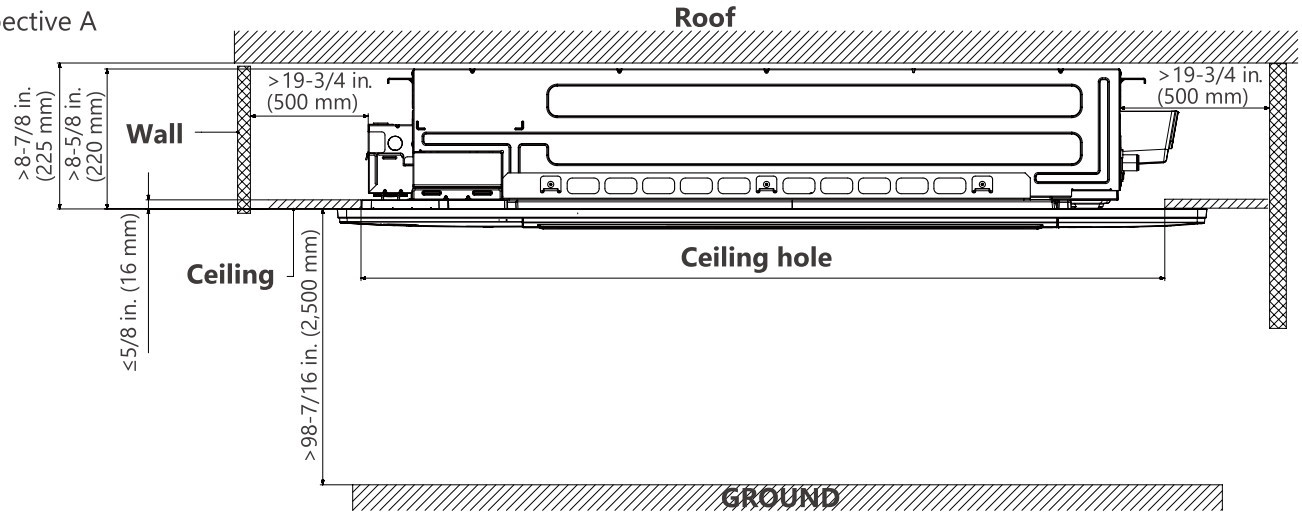
MTR03-1
(Coming Soon)

Remote Control

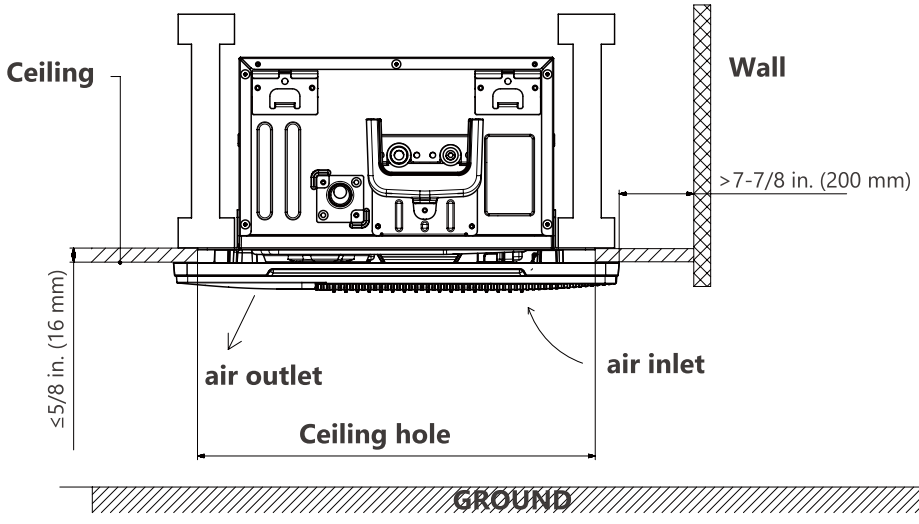
RG10

Installation

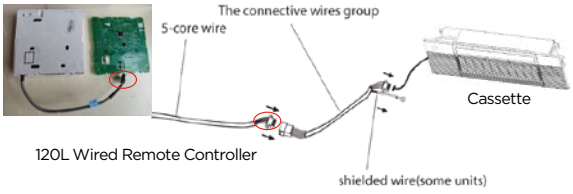
Perspective A



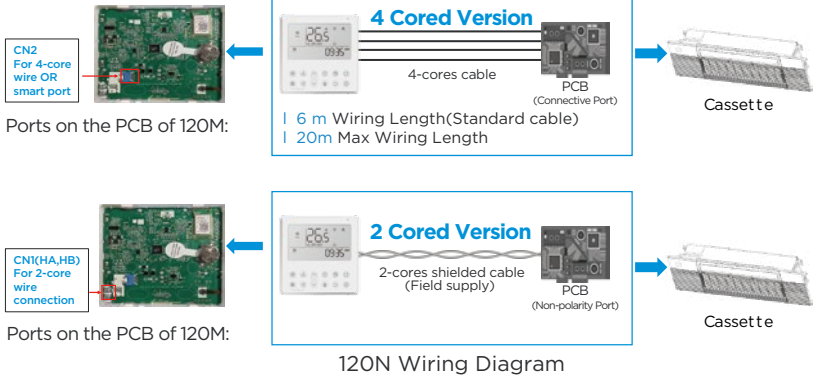
Perspective B



Wired Remote Controller Wiring Diagram



120L Wiring Diagram



120N Wiring Diagram

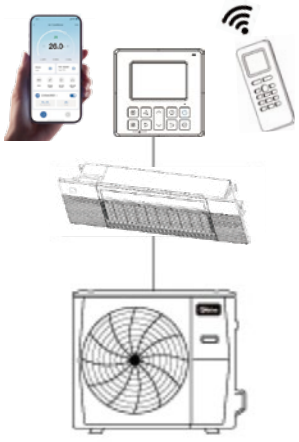
Single-Family Homes & Town-houses Types

Old Unit Replacement Scenario:
In the case where both indoor and outdoor units are replaced, existing piping, wiring, and 24V thermostats can be used (using a 24V Mini interface or a 24V Full Function interface kit). The air outlet of the indoor unit needs to be adjusted according to the size of the model.

24V Mini interface

24V Full Function Interface Kit

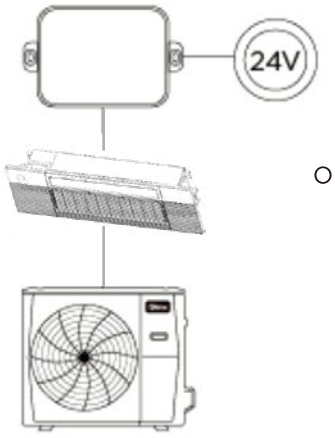
1 Midea System Set



SmartHome App + Wired Remote Controller + Remote Controller

Or

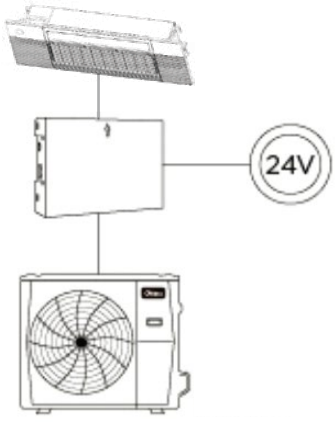
2 Midea System Set



24V Mini Interface

Or

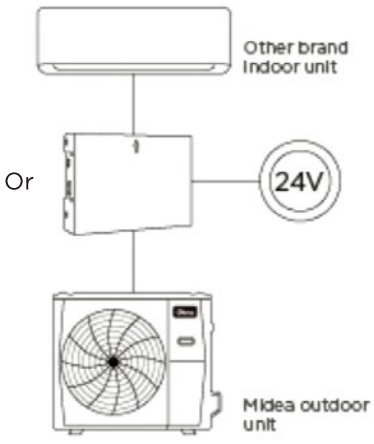
3 Midea System Set



24V Full Function Interface Kit

Or

4 Midea Outdoor Unit + Other Brand Indoor Unit*



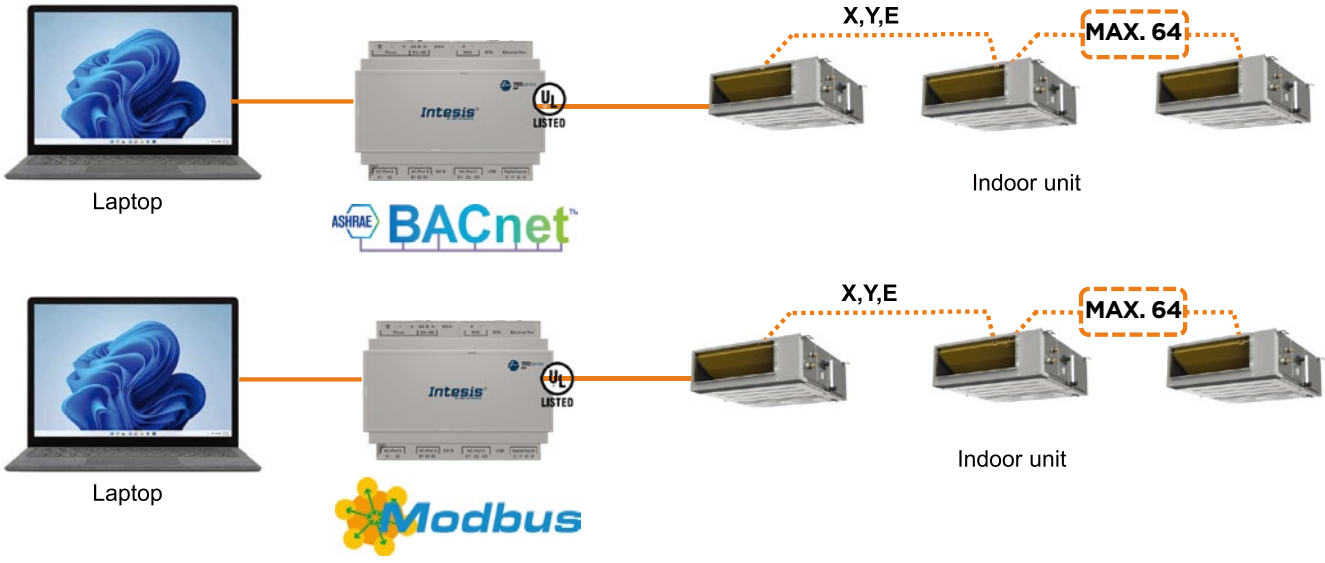
24V Full Function Interface Kit

Outdoor Unit ONLY Replacement Scenario:
Use the existing indoor unit, piping, wiring, and 24V thermostat (a 24V Full Function interface kit).

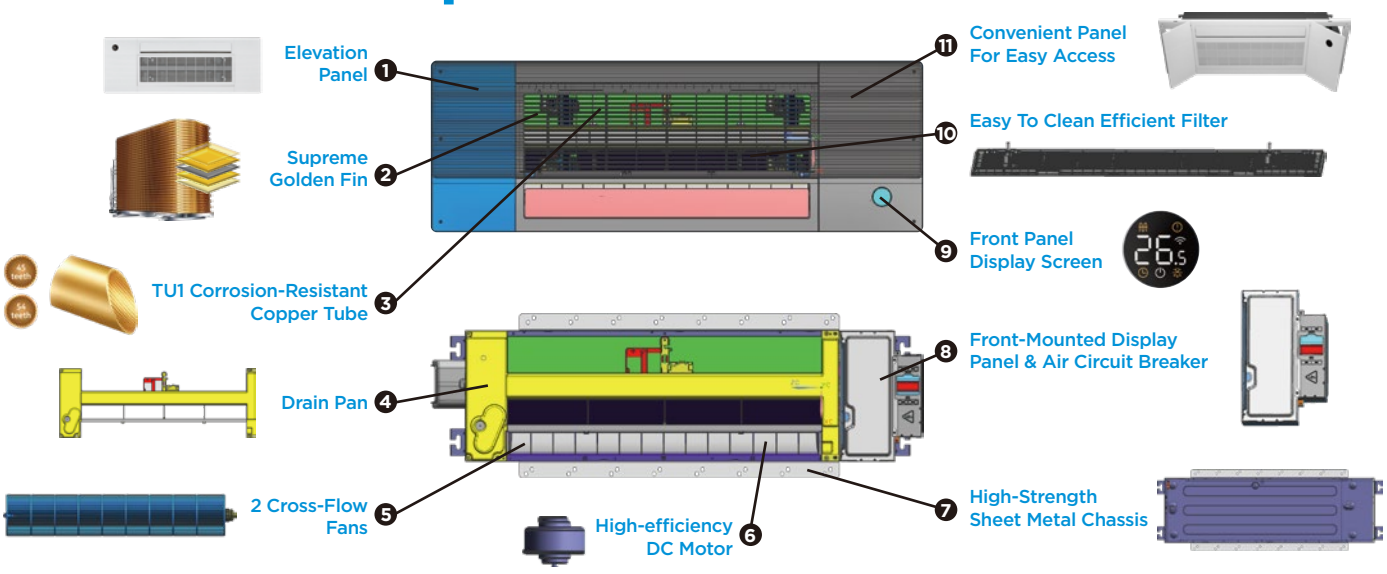
Note: *Communication between indoor and outdoor units must remain consistent.

Building Management Scenarios

Single-Family Homes & Town-houses types
BMS Gateways Control Systems Application Scenario

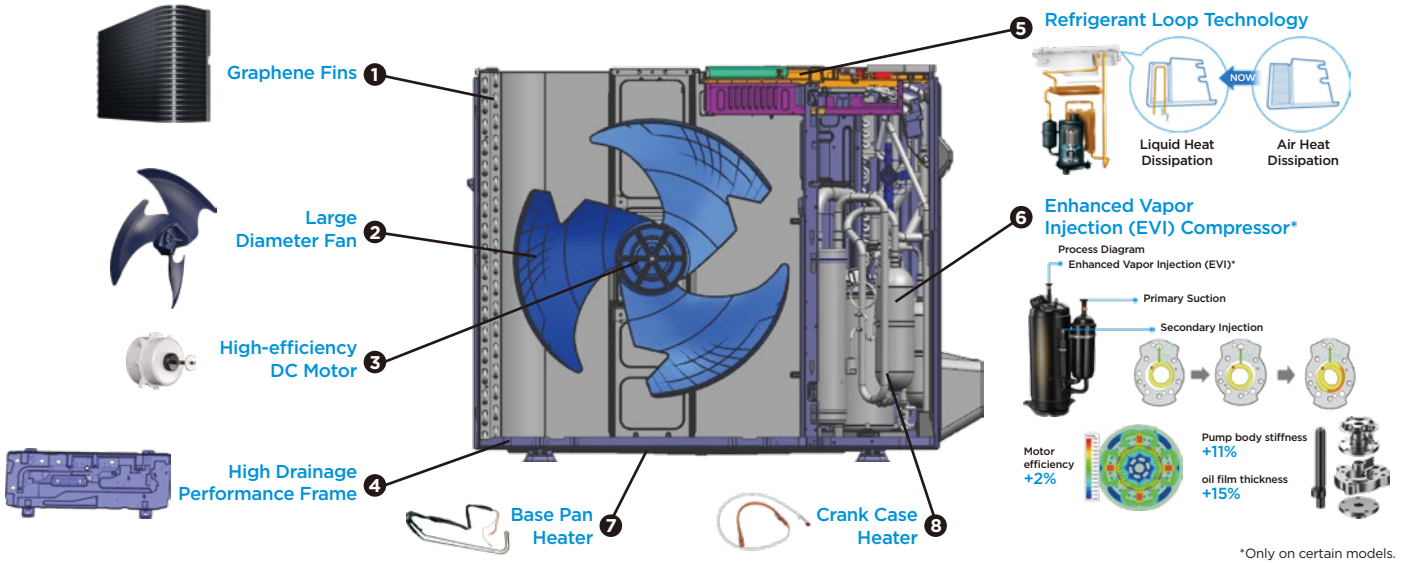


Advanced Components



1. The panel can move up and down, and the height can be adjusted via the remote control, making filter removal more convenient.
2. Features a double-sided five-layer structure, enhancing hydrophilic performance by 68% and tripling corrosion resistance. Golden Coating Technology provides superior resistance to oxidation, corrosion, bacteria, and harsh environmental elements, ensuring a durable and stable working environment.
3. Advanced techniques create a homogeneous micro-structure for TU1 tubes, featuring high-density copper with 70% fewer impurities than standard tubes, and ensuring no harm to human health, unlike coated tubes.
4. Using an integrated injection-molded plastic drain pan offers higher strength and reduces installation risks.
5. A specially optimized fan creates high energy efficiency while reducing noise level.
6. Features high energy efficiency, low noise, precise control, and long lifespan, enhancing comfort and reliability comprehensively.
7. High-strength sheet metal structure offers excellent robustness and durability.
8. Integrated control interface and terminal connections, ergonomic design ensures convenient wiring and meets customer requirements. During maintenance, the air circuit breaker can quickly cut off the power supply, ensuring the safety of maintenance personnel.
9. The display screen is designed with high resolution, allowing easy reading of temperature and other key information. It is also highly durable with a long service life.
10. Efficient filtration improves indoor air quality, is easy to clean, and low maintenance cost.
11. Adopting the design of the high wall split, installers only have to open the front panel to gain access to the PCB box and water pump sections.

A Closer Look At The Outdoor Unit



*Only on certain models.

1. Graphene fins offer superior corrosion resistance, effectively resisting the erosion caused by acidic and alkaline substances, as well as moisture in the external environment, thereby extending the lifespan of the outdoor unit of the air conditioner.
2. Adopting a large diameter fan 17-1/16-22-1/16 inches (434-560 mm), the increased airflow improves energy efficiency.
3. Features high energy efficiency, low noise, precise control, and a long lifespan, improving comfort and dependability overall.
4. Through meticulous design of the drainage holes and the slope of the drainage path, the drainage performance is improved, and the re-freezing of the base plate is suppressed.
5. More efficient heat dissipation, allowing powerful cooling in extremely hot environments, is better suited for harsh urban heat conditions than regular air conditioners.
6. Stable operation at -22°F (-30°C) on certain models: achieves no electric heating for the indoor unit, ensuring energy efficiency and safety.
7. Through meticulous design of the drainage holes and the inclination of the drainage path, the drainage performance is improved, and the re-freezing of the base plate is suppressed.
8. Prevents freezing of refrigerant oil and liquid slugging in low-temperature environments, ensuring stable equipment operation. It also reduces wear, extends compressor lifespan, and improves operational efficiency.

Flexible Installation Options: Single-Family & Multi-Family Homes

Aesthetic and Practical

Embedded installation matches the high-end decor style of villas, enhancing the overall beauty of the space.

Wide Space Coverage

Effectively covers large spaces, ideal for spacious room layouts.

Efficient Cooling and Heating

Quickly adjusts indoor temperature, meeting the high comfort demands of residents.

Quiet Operation

Low noise levels, suitable for quiet living environments.

Summary of Features

	Vacation mode	•
	Fan only	•
ECO	ECO mode	•
	Silent Mode	•
	Auto-defrost	•
	Anti-cold air function	•
	Constant air volume	
	360° air flow panel	
	Sleep mode	•
	Air filter	•
	Dry mode	•
Smart Home	Smart home app	•
	Timer	•
	Infrared remote control	•
	WIFI	•
	Wired controller	•
	Self-diagnosis&auto-protection	•
	Build-in drain pump	
	Power down memory	•
	i-Clean	•
GEAR	Gear	•
	Remote on/off	•
	Central controller	•
	Alarm	•
	Humidify control	•
	follow me	•
	Golden fin	•
	Refrigerant leakage detect	•
	Swing (up and down)	•
	Vertical Swing (left and right)	
	Turbo	•
	LED	•
WEEK	Weekly Timer	•
100	1%~100% Fan Speed Setting	•
°F	°C and °F Change	•
	Child Lock	•
	Engineering Mode Available	•
	OTA	•
	TU1 Copper Tubes	•
	ODU Base Pan Heater	•
	ODU Crankcase Heater	•
	ODU Multiple Hole Base Pan	•
	Low ambient cooling	•
	auto-restart	•

One-Way Cassette Xtreme Heat Specification

Model	Indoor Unit		MCAHU-H06B-2A	MCAHU-H09B-2A	MCAHU-H12B-2A	MCAHU-H18B-2A
	Outdoor Unit		MO1HS-H06B-2A	MO1HS-H09B-2A	MO1HS-H12B-2A	MO1HS-H18B-2A
Performance						
Power Supply		V, Ph, Hz	208/230V, 1Ph, 60Hz			
SEER2 (AHRI 210/240 - 2023)	Cooling Capacity	Btu/h	6,500	9,000	12,000	16,700
	Heating Capacity	Btu/h	7,400	10,900	12,500	20,000
	SEER2	Btu/W	22.0	24.0	23	20.6
	EER2	Btu/W	15	14.6	13	12.5
	HSPF2-4	Btu/W	12.0	12.1	10	12.2
	HSPF2-5	Btu/W	10.3	9.5	8	9.2
Heating at 5°F (-15°C)	Rated Capacity	Btu/h	8,100	10,600	11,500	17,500
	COP	W/W	2.40	1.83	2.0	1.89
Indoor unit						
Air Flow Volume	Turbo/Hi/Mi/Lo/Si	CFM	341/294/259/235/235	341/294/259/235/235	353/312/283/247/177	400/352/300/207/207
Noise Level	Turbo/Hi/Mi/Lo/Si	dB(A)	47/38/36/26/24	38/38/36/33/24	41/41/37/33/24	44/44/42/31/26
Net Dimension	WxDxH	mm	1278×335×228			
	WxDxH	inch	50-1/4 x 13-1/4 x 9			
Packing Dimension	WxDxH	mm	1463×571×575			
	WxDxH	inch	57-5/8 x 22-1/2 x 22-5/8			
Net/Gross Weight		kg	20.5/37.4			20.5/37.6
		lbs	45 / 82			
Piping Size	Liquid side	inch	1/4			
	Gas side	inch	3/8			1/2

One-Way Cassette Advanced Heat Specification

Model	Indoor Unit		MCAHU-H09B-2A	MCAHU-H12B-2A	MCAHU-H18B-2A
	Outdoor Unit		MO1ES-H09B-2A	MO1ES-H12B-2A	MO1ES-H18B-2A
Performance					
Power Supply		V, Ph, Hz	208/230V, 1Ph, 60Hz		
SEER2 (AHRI 210/240 - 2023)	Cooling Capacity	Btu/h	9,000	12,000	18,000
	Heating Capacity	Btu/h	11,000	12,000	18,000
	SEER2	Btu/W	22.1	22.1	22.2
	EER2	Btu/W	14.4	12.3	12.5
	HSPF2-4	Btu/W	11.8	10	12.2
	HSPF2-5	Btu/W	9.0	7.8	8.6
Heating at 5°F (-15°C)	Rated capacity	Btu/h	8,000	8,600	13,100
	COP	W/W	2.18	2.48	2.24
Indoor unit					
Air Flow Volume	Turbo/Hi/Mi/Lo/Si	CFM	341/294/259/235 /235	353/312/283/247/177	400/352/300/207/207
Noise Level	Turbo/Hi/Mi/Lo/Si	dB(A)	47/38/36/26/24	43/43/38/26/22	44/44/41/30/24
Net Dimension	WxDxH	mm	1278×335×228	1278×335×228	1278×335×228
	WxDxH	inch	50-1/4x13-1/4x9	50-1/4x13-1/4x9	50-1/4x13-1/4x9
Packing Dimension	WxDxH	mm	1463×571×575	1463×571×575	1463×571×575
	WxDxH	inch	57-5/8x22-1/2x22-5/8	57-5/8x 2-1/2x22-5/8	57-5/8x22-1/2x22-5/8
Net/Gross Weight		kg	20.5/37.4	20.5/37.4	20.5/37.6
		lbs	45/82	45/82	45/82
Piping Size	Liquid side	inch	1/4	1/4	1/4
	Gas side	inch	3/8	3/8	1/2