



# Four Way Cassette

Invisible installation, powerful performance,  
the perfect choice for creating a comfortable space.



US



CA

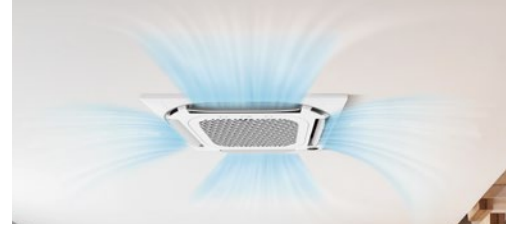
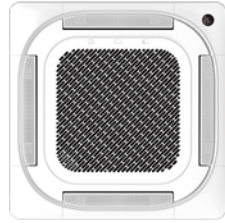


# Core Features



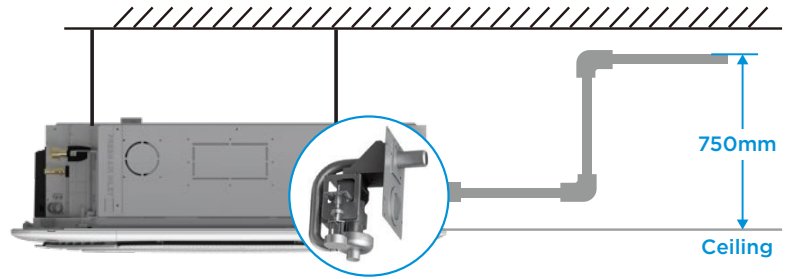
## 360° Air Flow

With nearly 360° of air discharge, it delivers even and powerful airflow, so you won't have to deal with harsh, cold drafts. Enjoy truly impressive airflow in open spaces.



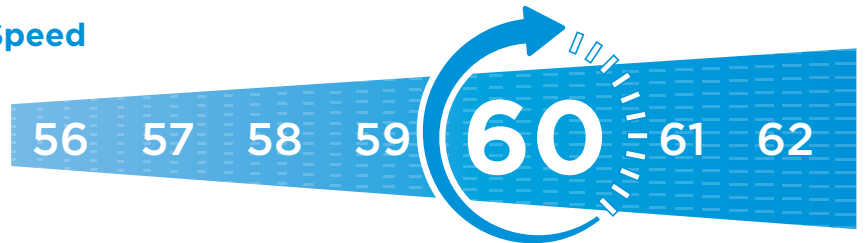
## Built-In Drain Pump

The drain pump can lift the condensed water up to 29-1/2 inches (750mm), which is convenient to install drainage pipes under most conditions. The drainage pipe can be installed on either the left or the right side.



## 0-100% Seamless Fan Speed

0-100% fan speed can be precisely controlled in 1% increments, breaking the traditional fixed fan speed.

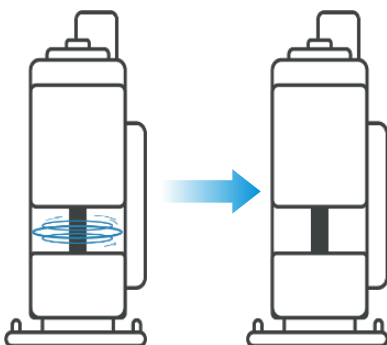


## Refrigerant Leak Detection System

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

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



### 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.





## Temperature & Humidity Control

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

 Precise Temperature Adjustment  
1°F (0.5°C)

 Flexible Humidity Control  
35%-85%



## 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



### Works With Your Home Automation System

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



Google and Google Home are trademarks of Google LLC.



### 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

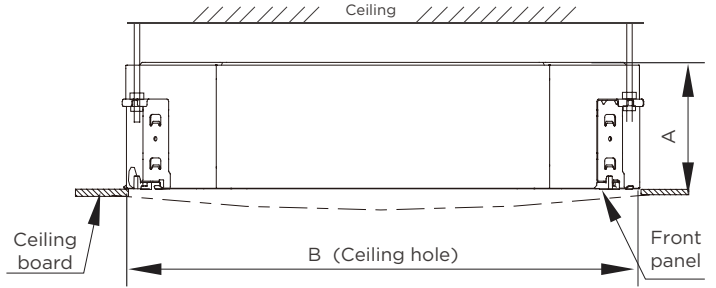
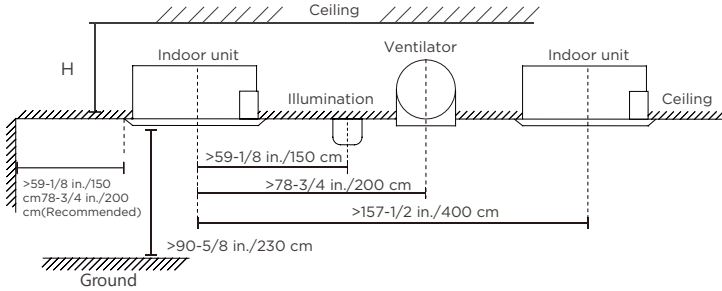


RG10



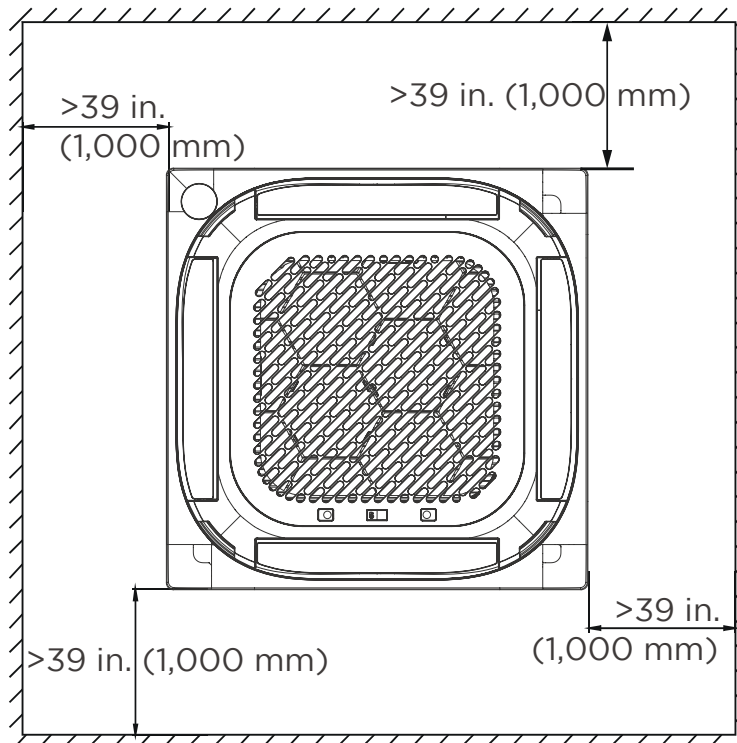
# Installation

## Service Space



MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in. (245 mm)	>10-3/4 in. (275 mm)	23-5/8 in. (600 mm)
24K	8 in. (205 mm)	9 in. (230 mm)	35-3/8 in. (900 mm)
36K	9-5/8 in. (245 mm)	10-3/4 in. (271 mm)	
48K	11-1/4 in. (287 mm)	12-1/4 in. (313 mm)	

## Clearances



## 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



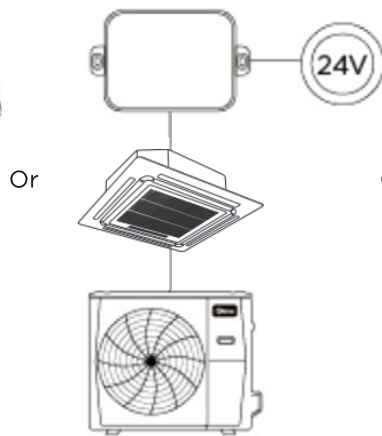
24V Full Function Interface Kit

### 1 Midea System Set



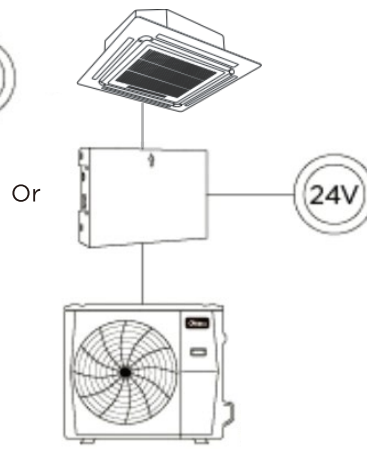
SmartHome App +  
Wired Remote Controller +  
Remote Controller

### 2 Midea System Set



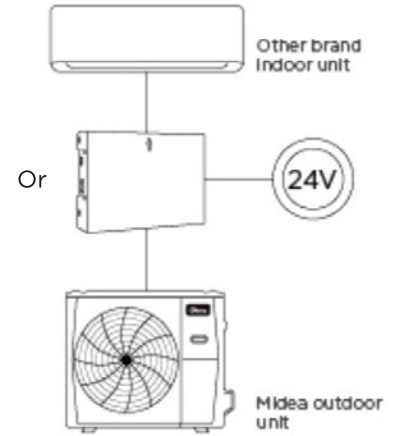
24V Mini Interface

### 3 Midea System Set



24V Full Function Interface Kit

### 4 Midea Outdoor Unit + Other Brand Indoor Unit\*



24V Full Function Interface Kit

### Outdoor Unit ONLY Replacement Scenario:

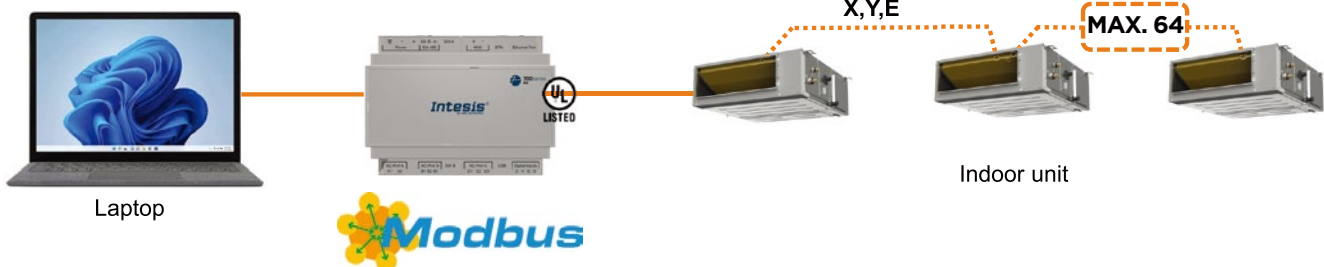
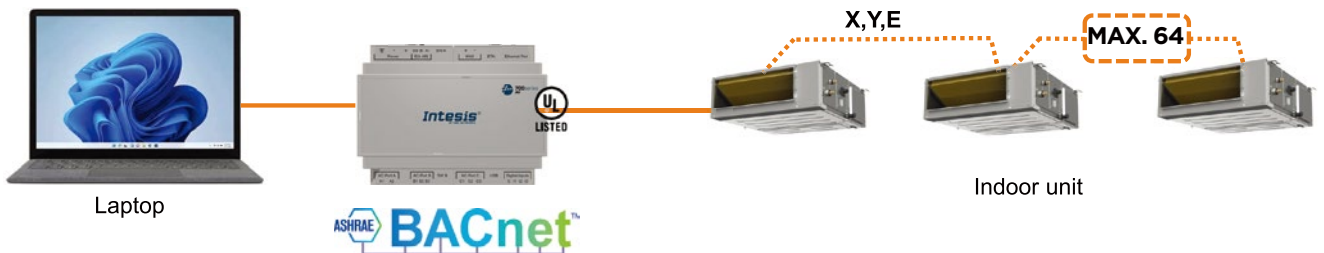
Use the existing indoor unit, piping, wiring, and 24V thermostat (a 24V Full Function interface kit).

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

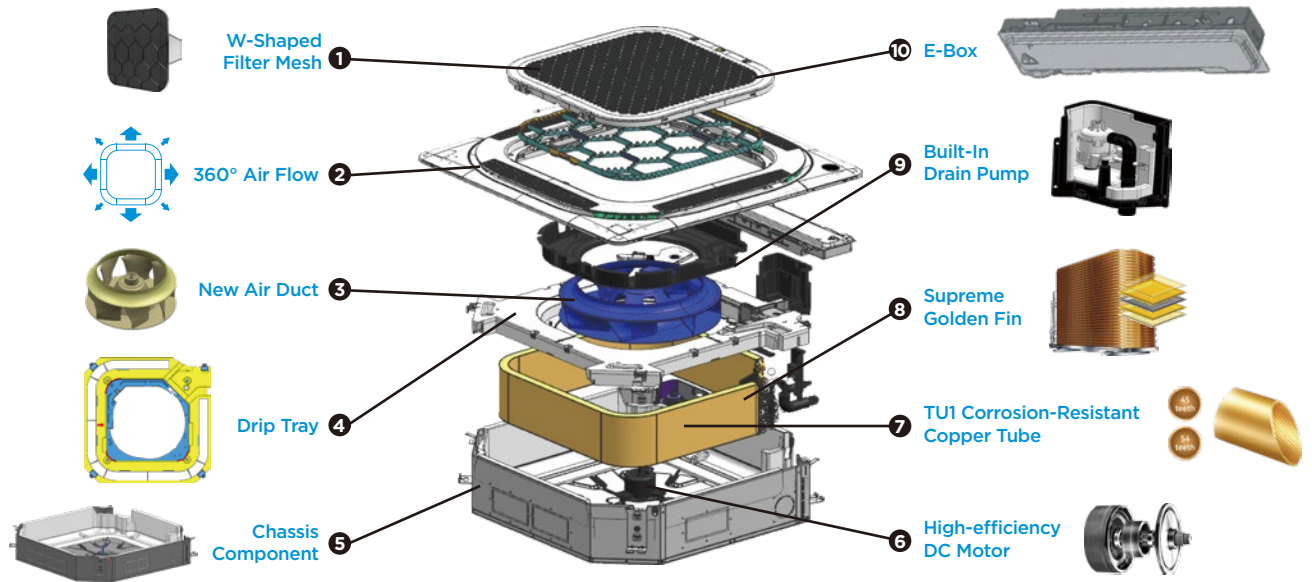
## Building Management Scenarios

### Single-Family Homes & Town-houses types

BMS Gateways Control Systems Application Scenario

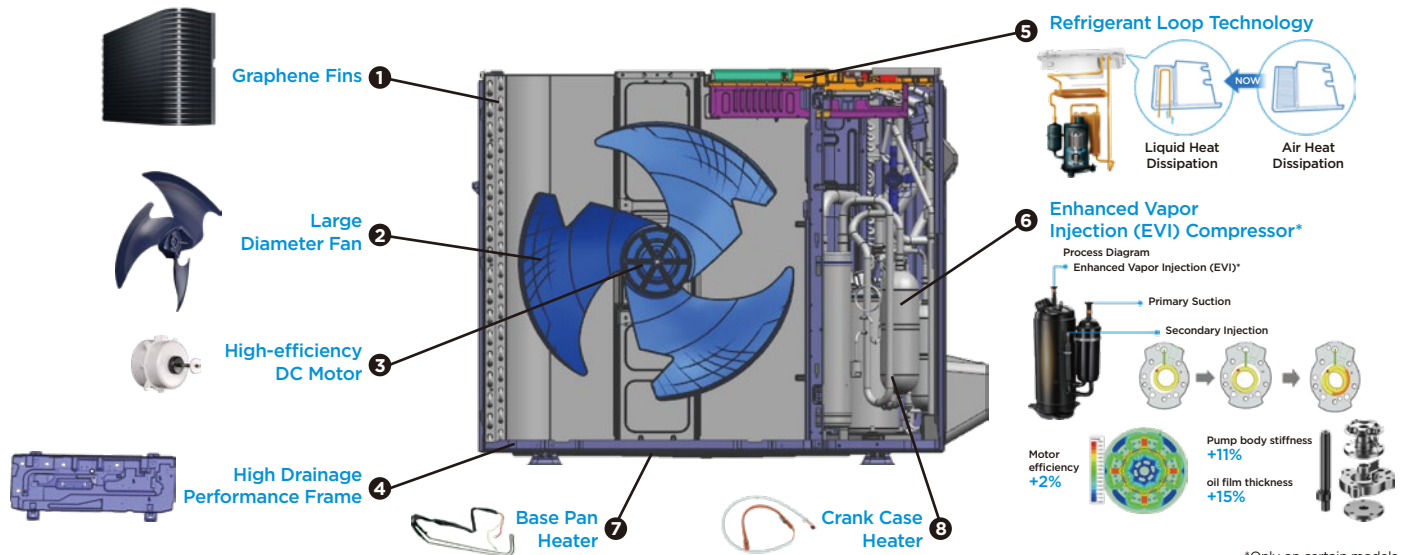


# A Closer Look At The Indoor Unit



1. With a larger dust capacity and longer intervals between cleaning.
2. The 360° design enables even airflow distribution, covering the entire space without dead zones, enhancing comfort.
3. Features a 360° air outlet design, combined with an arc guide of the air guide ring and a small gap design between the fan guide surface and the air guide ring, which reduces small airflow leakage.
4. Made of 1/16 inches (2mm) ABS injection moulding + EPS foam, offering greater durability and strength.
5. High-strength sheet metal structure, offering excellent robustness and durability.
6. Features high energy efficiency, low noise, precise control, and long lifespan, enhancing comfort and reliability comprehensively.
7. Advanced techniques create a homogeneous micro-structure for TUI tubes, featuring high-density copper with 70% fewer impurities than standard tubes, and ensuring no harm to human health, unlike coated tubes.
8. 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.
9. From gravity drainage to the increase of the head to 39-3/8 inches (1000 mm) after installing the water pump, the installation flexibility and speed have been improved.
10. Safely integrated inside the indoor unit, offering a compact design for easy installation and simple maintenance by opening the air-return grille.

# A Closer Look At The Outdoor Unit



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.

\*Only on certain models.

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

## Flexible Installation

The four-way cassette unit's installation height and 0.75 meter lift drainage pump design can easily adapt to complex spatial layouts.



## Wide Coverage

Cooling capacity from 9K to 48K, 360° Air Flow ensures uniform air supply.



## Quiet Comfort

Upgraded hardware for low noise operation.



# Summary of Features

	Vacation mode	•
	Fan only	•
	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 app	•
	Timer	•
	Infrared remote control	•
	WIFI	•
	Wired controller	•
	Self-diagnosis&auto-protection	•
	Build-in drain pump	•
	Power down memory	•
	i-Clean	•
<b>GEAR</b>	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	•
<b>WEEK</b>	Weekly Timer	•
<b>100</b>	1%~100% Fan Speed Setting	•
<b>°F</b>	°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	•
<b>KK</b>	auto-restart	•

# Four Way Cassette Extreme Heat Specification

Model	Indoor Unit		MCDHU-H09B-2A	MCDHU-H12B-2A	MCDHU-H18B-2A	MCDHU-H24B-2A	MCDHS-H36B-2A	MCDHS-H48B-2A
	Outdoor Unit		MOIHS-H09B-2A	MOIHS-H12B-2A	MOIHS-H18B-2A	MOIHS-H24B-2A	MOIHU-H36B-2A	MOIHU-H48B-2A
<b>Performance</b>								
Power Supply		V, Ph, Hz	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
SEER2 (AHRJ 210/240-2023)	Cooling Capacity	Btu/h	9,000	12,000	16,000	23,400	36,600	48,000
	Heating Capacity	Btu/h	10,000	12,000	19,000	25,000	37,000	53,000
	SEER2	Btu/W	22.6	22.2	20.0	20.7	21.2	18.0
	EER2	Btu/W	14.0	12.5	12.5	12.0	12.0	10.0
	HSPF2-4	Btu/W	12.1	11.6	12.3	11.6	10.6	11.0
	HSPF2-5	Btu/W	9.3	8.9	9.5	9.2	8.8	8.8
Heating at 5°F (-15°C)	Rated capacity	Btu/h	11,000	11,500	17,000	23,800	37,000	47,500
	COP	W/W	1.84	2.00	1.90	2.23	1.95	1.96
<b>Indoor unit</b>								
Air Flow Volume	Turbo/Hu/Hi/La/Si	CFM	353/512/265/183/147	418/565/306/194/147	447/589/318/194/147	765/706/636/547/547	1042/948/854/753/659	1236/1124/1018/901/689
Noise Level	Turbo/Hu/Hi/La/Si	dB(A)	43/40/38/26/24	46/43/40/28/26	48/45/41/28/24	49/45/43/34/34	52/52/48/40/38	52/52/50/42/38
Net Dimension	WxDxH	mm	570x570x245	570x570x245	570x570x245	830x830x205	830x830x245	830x830x287
	WxDxH	inch	22-1/2x22-1/2x9-5/8	22-1/2x22-1/2x9-5/8	22-1/2x22-1/2x9-5/8	32-5/8x32-5/8x8-1/8	32-5/8x32-5/8x9-5/8	32-5/8x32-5/8x11-1/4
Packing Dimension	WxDxH	mm	715x640x295	715x640x295	715x640x295	910x910x250	910x910x290	910x910x330
	WxDxH	inch	28-1/8x25-1/4x11-5/8	28-1/8x25-1/4x11-5/8	28-1/8x25-1/4x11-5/8	35-7/8x35-7/8x9-7/8	35-7/8x35-7/8x11-3/8	35-7/8x35-7/8x13
Net/ Gross Weight		kg	16/19	16.0/19.0	16.0/19.0	21.4/26.8	26.9/32.4	29.3/34.5
		lbs	35/42	35/42	35/42	47/59	59/71	65/76
Piping Size	Liquid side	inch	1/4	1/4	1/4	3/8	3/8	3/8
	Gas side	inch	3/8	3/8	1/2	5/8	3/4	3/4

# Four Way Cassette Energy Star & Regular Heat Specification

Model	Indoor Unit		MCDHU-H09B-2A	MCDHU-H12B-2A	MCDHU-H18B-2A	MCDHU-H24B-2A	MCDHS-H36B-2A	MCDHS-H48B-2A
	Outdoor Unit		MOIES-H09B-2A	MOIES-H12B-2A	MOIES-H18B-2A	MOIES-H24B-2A	MOIBU-H36B-2A	MOIBU-H48B-2A
<b>Performance</b>								
Power Supply		V, Ph, Hz	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
SEER2 (AHRJ 210/240-2023)	Cooling Capacity	Btu/h	9,000	12,000	16,800	24,000	36,000	48,000
	Heating Capacity	Btu/h	10,000	12,000	18,000	25,000	38,000	50,000
	SEER2	Btu/W	21.6	21.1	20.7	22.0	20.0	19.0
	EER2	Btu/W	14.3	12.5	12.5	12.0	9.6	9.5
	HSPF2-4	Btu/W	11.3	10.4	11.4	10.5	10.3	9.9
	HSPF2-5	Btu/W	8.8	7.9	8.5	8.1	7.9	7.7
Heating at 5°F (-15°C)	Rated capacity	Btu/h	8,500	8,400	12,800	18,500	26,600	40,500
	COP	W/W	2.17	2.40	2.20	2.30	2.20	2.11
<b>Indoor unit</b>								
Air Flow Volume	Turbo/Hu/Hi/La/Si	CFM	353/512/265/183/147	418/565/306/194/147	447/589/318/194/147	765/706/636/547/547	1042/948/854/753/659	1236/1124/1018/901/689
Noise Level	Turbo/Hu/Hi/La/Si	dB(A)	43/40/38/27/24	46/42/38/27/24	48/44/41/28/25	46/46/43/34/31	54/53/47/40/37	56/53/50/43/39
Net Dimension	WxDxH	mm	570x570x245	570x570x245	570x570x245	830x830x205	830x830x245	830x830x287
	WxDxH	inch	22-1/2x22-1/2x9-5/8	22-1/2x22-1/2x9-5/8	22-1/2x22-1/2x9-5/8	32-5/8x32-5/8x8-1/8	32-5/8x32-5/8x9-5/8	32-5/8x32-5/8x11-1/4
Packing Dimension	WxDxH	mm	715x640x295	715x640x295	715x640x295	910x910x250	910x910x290	910x910x330
	WxDxH	inch	28-1/8x25-1/4x11-5/8	28-1/8x25-1/4x11-5/8	28-1/8x25-1/4x11-5/8	35-7/8x35-7/8x9-7/8	35-7/8x35-7/8x11-3/8	35-7/8x35-7/8x13
Net/ Gross Weight		kg	16/19	16.0/19.0	16.0/19.0	21.4/26.8	26.9/32.4	29.3/34.5
		lbs	35/42	35/42	35/42	47/59	59/71	65/76
Piping Size	Liquid side	inch	1/4	1/4	1/4	3/8	3/8	3/8
	Gas side	inch	3/8	3/8	1/2	5/8	3/4	3/4