Midea EVOX Inverter Central Ducted Systems

Easy Upgrade Solutions
Innovative Home Heating

Exclusive distributor in Quebec

DESCAIR

EVOX G³

EVOX G³

An easy replacement solution for the next step forward

- **Heating Performance Upgrade**
- ECO **Energy Efficiency Upgrade**
- **Easy Application Upgrade**

Heating Performance Upgrade

Extraordinary Cold Climate Heating Performance

Continuous Operation
Down to

-30°C/-22°F

Up to

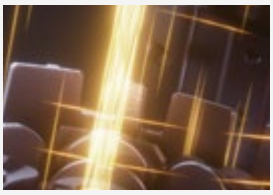
100% Heating
Output at

-25°C/-13°F

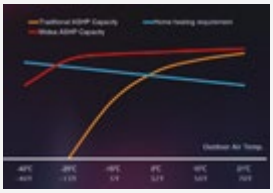
With COP
Up to **1.9**

M-Powevi Compressor Technology

When the system operates under extreme cold conditions, the compressor supplies mid-temperature vapor to increase the total amount of compressed refrigerant, enhancing the heat performance.



High efficiency compressor motor and optimized exhaust channel result in large discharge capacity.



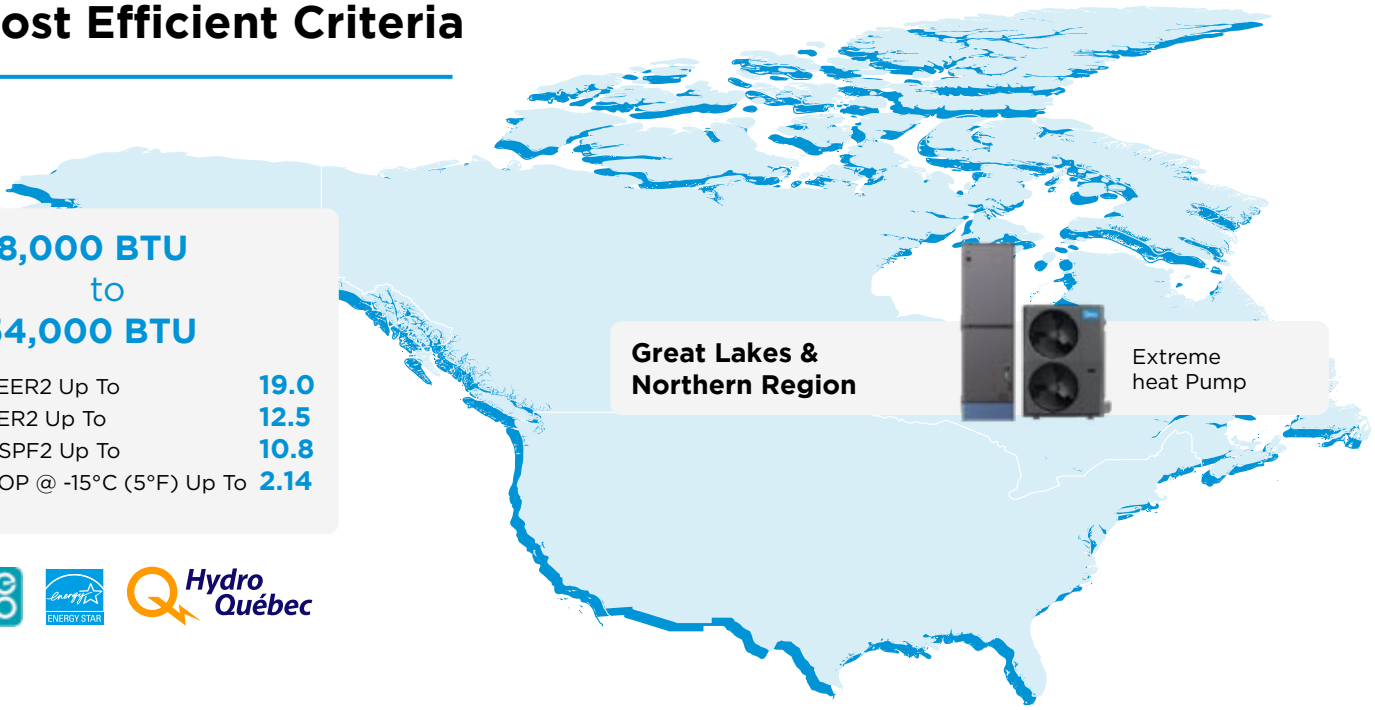
This technology helps conquer the technical challenges of traditional heat pumps.

Energy Efficiency Upgrade

EVOX G³ Exceeds ENERGY STAR Most Efficient Criteria

18,000 BTU
to
54,000 BTU

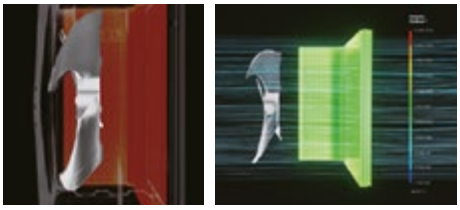
SEER2 Up To	**19.0**
EER2 Up To	**12.5**
HSPF2 Up To	**10.8**
COP @ -15°C (5°F) Up To	**2.14**



Midea's High Efficiency Technology

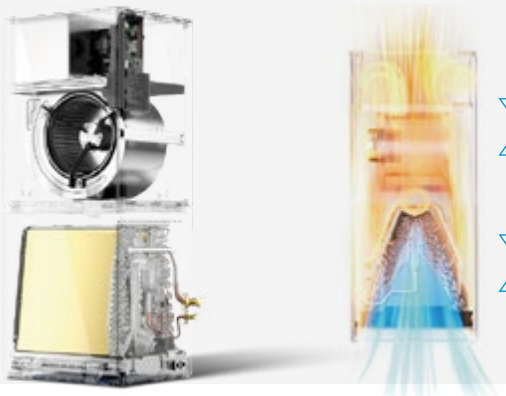
Outdoor unit: Horizontal discharge design

Horizontal discharge fan and vertical high efficiency heat exchanger



The unit structure with horizontal fan and vertical heat exchanger guarantee more uniform and efficient heat exchanging velocity across the entire heat exchanger surface. When the temperature gets low, the system shows higher heat exchanging efficiency and provides stronger heating output.

Indoor Unit: M-Coil & Symmetric Fan Blower



Conventional Air Handler

Traditional fan blower
Uneven airflow

A-Coil
30% airflow difference between evaporators
Up to 0.32 in. W.C. pressure drop

EVOX G³ Air Handler

Symmetric fan blower design
Even airflow & higher efficiency

M-Coil
2% airflow difference between evaporators
Less than 0.02 in. W.C. pressure drop

Easy Application Upgrade

Direct Replacement of Gas Furnaces

Continuous Operation Down to
-30°C/-22°F

Up to **100%** Heating Output at
-25°C/-13°F

With COP Up to **1.9**

Continuous Operation Up to
50°C/122°F

Up to **100%** Cooling Output at
43°C/109°F

Up to **85%** Cooling Output at
46°C/115°F

3-Stage Auxiliary Heat Kit (*Optional*)

- Up to 25kW auxiliary heat
- Allowing for customized setting
- Automatic activation and adjustment according to the temperature changes
- More accurate control over temperature and electricity consumption

5kW | 10kW | 15kW | 20kW | 25kW

Same Width, Adaptive Voltage, Easy Upgrade

Multi-voltage — 115V & 208/230V all in one

Automatically identifying the required voltage, no need for manual conversion.

Automatically adapting to existing voltage system.

Eliminating the hassle of rewiring.

14.5"–21.5" — Same width as the same capacity gas furnace

Narrow design as compared to competitive high-efficient air handlers

EVOX 2

18K/24K BTU
17-1/2" x 21" x 45"

30K/36K BTU
17-1/2" x 21" x 45"

60K BTU
17-1/2" x 21" x 45"

EVOX G³

18K/24K BTU
21-1/2" x 14-1/2" x 49-3/4"

30K/36K BTU
21-1/2" x 17-1/2" x 54"

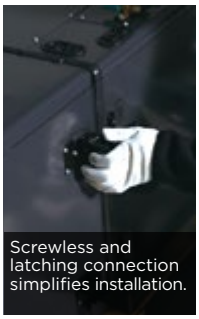
48K/60K BTU
21-1/2" x 21-1/2" x 56"

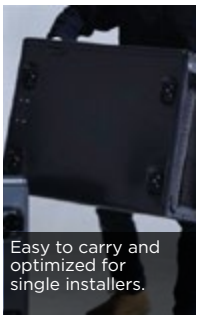
Easy Application Upgrade

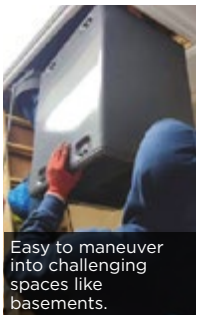
Innovative Latching Modular Design

Block N Lock

“Lightweight, compact, and easy to carry up and down stairs; Solves the big problem of how to get air handlers up into challenging spaces”


Screwless and latching connection simplifies installation.


Easy to carry and optimized for single installers.


Easy to maneuver into challenging spaces like basements.


Allows multi-position installation configuration.

Simplify the Installation Process

For Shifting to Different Installation Styles

Conventional

At least 5 steps:

1. Removing the panel
2. Taking out the coil rotate 180°
3. Reinstalling the coil
4. Attaching the panel
5. Turning over the AHU

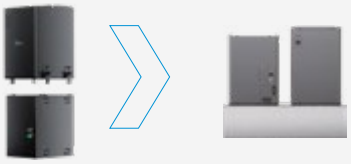
EVOX G³

2 steps:

1. Screwless reconfiguration of the modules
2. Reconnecting the two modules

For Lowboy Application

EVOX G³



Convenient «lowboy» installation for height restricted applications.
We fit where other brands cannot, making G3 highly adaptable.

6-Way Installations

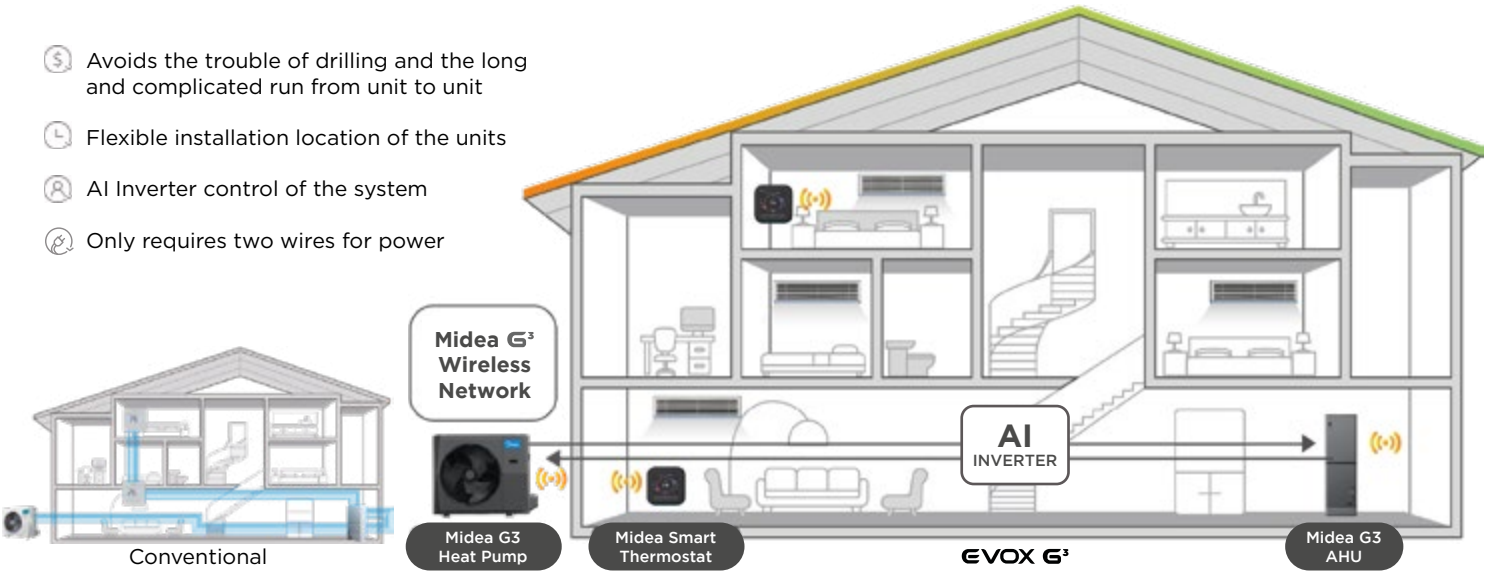
1 UPFLOW
2 DOWNFLOW
3 HORIZONTAL RIGHT
4 HORIZONTAL LEFT
5 6 LOW-BOY (TOP RETURN/SUPPLY)

Easy Application Upgrade

Wireless Communication Gets Rid of Cumbersome Communication Wiring*

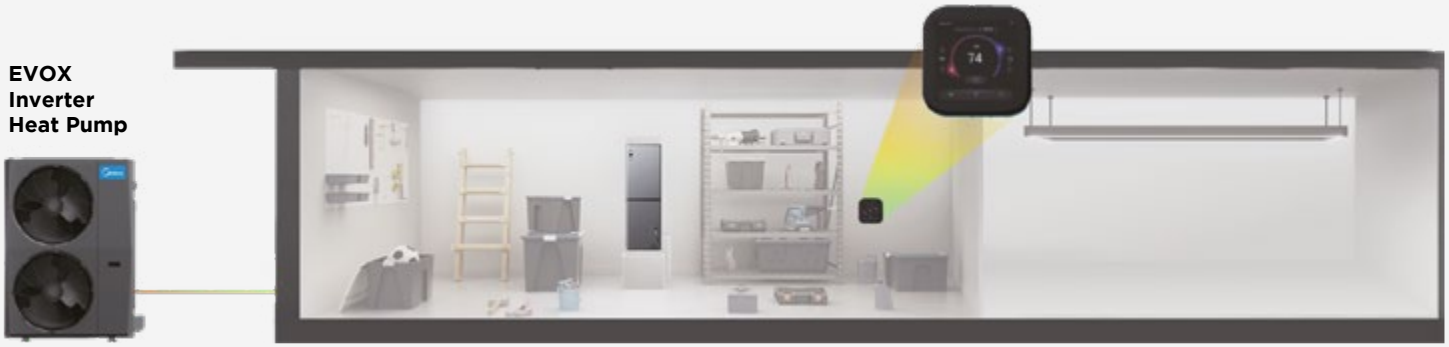
Applying Sub-1 GHz control modules gets rid of communication wiring between G³ AHU, G³ inverter heat pump & Midea's communicating thermostat.

- Avoids the trouble of drilling and the long and complicated run from unit to unit
- Flexible installation location of the units
- AI Inverter control of the system
- Only requires two wires for power

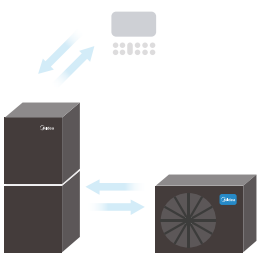


**This optional accessory will be available soon. Check with your Midea dealer for availability.*

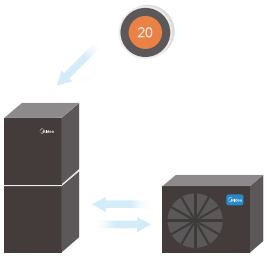
Compatible with 485 or 24V Automatic Identification of the Control Mode



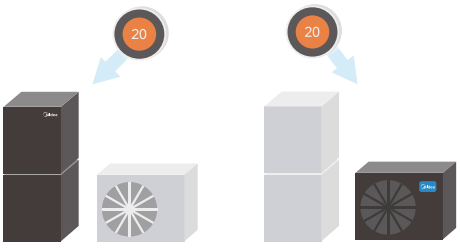
No matter the pre-existing set-up, the EVOX system can flexibly mix and match with most third-party indoor units, outdoor units, and thermostats, even without changing wiring or refrigerant lines.



485 Communication Mode
EVOX Heat pump
EVOX Air Handler
Midea Wired Controller



OR
EVOX Heat Pump
EVOX Air Handler
Third-Party 24V Thermostat

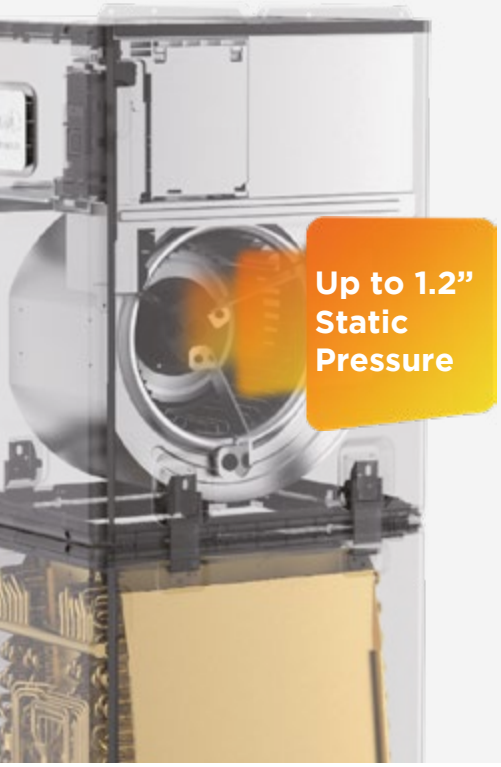


24V Self-Adapt Mode
EVOX/Third-Party Heat Pump
EVOX/Third-Party Air Handler
Third-Party 24V Thermostat

Easy Application Upgrade

Computational Constant Airflow 2.0
Adapts to Different Ductwork Conditions & Filtration Needs

Computational Constant Airflow technology enables airflow to automatically adapt to the existing ductwork design, or issues caused by blocked coils, dirty filters and improper duct sizing. This is done by adjusting output power and fan speeds



Total Static Pressure **0.4"**

Total Airflow Volume **1,200 CFM**

Total Static Pressure **1.2"**

Total Airflow Volume **1,200 CFM**

NORMAL FILTER

Total Static Pressure **0.4"**

Total Airflow Volume **1,200 CFM**

MERV 13

Total Static Pressure **1.2"**

Total Airflow Volume **1,200 CFM**

Allows Customized Air Volume for The Whole Home of Up to 60 Levels

The upgraded Computational Constant Airflow technology also offers flexibility to adjust air volume according to the customers' personal needs. All of the adjustments can be made easily through the "Engineer Mode" on the remote control/wired controller.

A

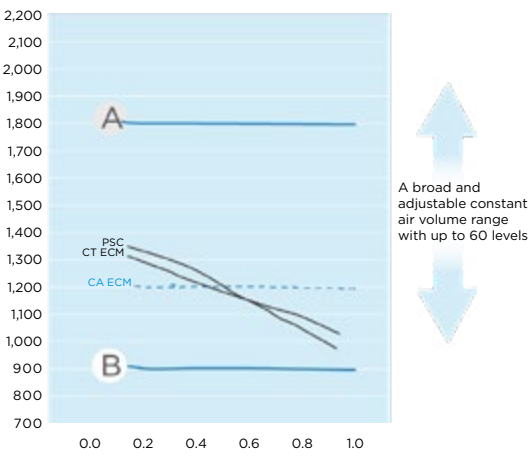
Case 1:
A house in a southern hot region like Las Vegas needs faster cooling

B

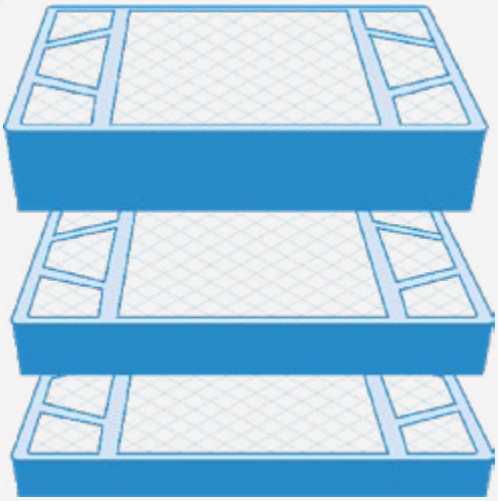
Case 2:
A limited space needs smaller airflow

Case 3:
Some homeowners prefer a quieter environment

CFM vs Total ESP



Engineer Mode



Easy to Enjoy

Your Healthy Home

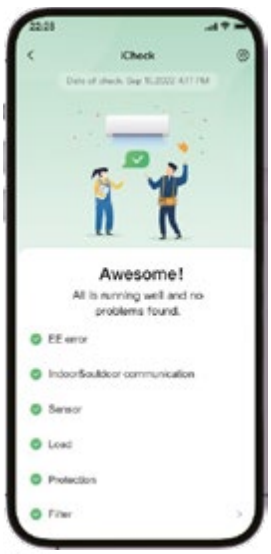
Enhanced Filtration Module
Compatible with 1″, 2″ and 4″ MERV 13 filter (filters not included) that will capture more dust, pollen, particulates, and pet hair/dandruff out of the air, keeping the evaporator coil cleaner and leading to higher efficiency and comfort.

Your Evolving System

Remote Upgrade & Self-Diagnosis Capability

OTA

Remotely upgrade your systems for the latest software update *(optional)*



iCheck

It's like a doctor's appointment for your HVAC, so that you can check your system's health at home *(optional)*

Your Smart Home

Smart Control with Midea Communicating Thermostat & SmartHome App *(optional)*

SmartHome App

Next-Gen
Communicating Thermostat

Set your schedule
Customize your specific comfort schedule

Manage your comfort
Enjoy your desired air flow, temperature and relative humidity at home

Keep an eye on your electricity usage
Take a look at your power consumption at any time

Easy to Conserve

Demand Response/CTA 2045 for the Smart Grid Community

1

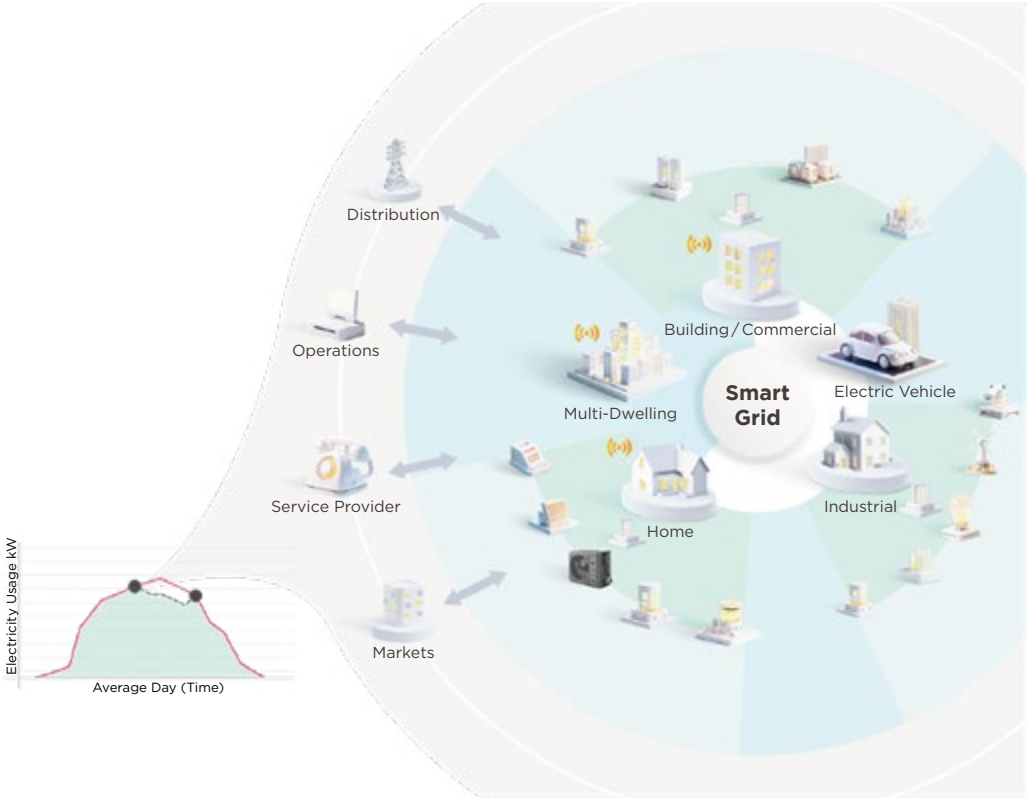
Complying with and benefiting from local utility policies

2

Reducing or diverting electricity consumption during peak hours

Messages:

- Day, hour, minute ahead
- Real time
- Negotiation messages
- Price events
- Power increase/decrease
- Reporting
- Others



Standard Features

Reliability ❯

Refrigerant Leakage Detect

Indoor unit will show error code ·ec· and stops automatically when refrigerant leakage is detected. This function can better protect compressor being damaged by high temperature due to refrigerant leakage.

Self-diagnosis and Auto-protection

Once abnormal operation or parts failure happen, the unit will shut off automatically to protect the system. Meanwhile it will indicate protection or error code for fast service.

Emergency Using

When temperature sensor error happens, the air conditioner will display error code and stop immediately, while Midea AC will display error and continue running in a proper status, to avoid an urgent need of the AC.

Low Ambient Cooling

With built-in low ambient kit or special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C.

Fire-proof Electric Box

Electrical control box adopts new design, which can meet higher tire safety requirement to prevent the internal fire due to electric spark accident.

Wired Control *(optional)*

Compared with infrared remote controller, wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.

Chassis Heating Belt

Healing belt is fitted on the base plate of outdoor unit to prevent accumulated defrosted water, which improves heat transfer efficiency.

Compressor Heating Belt

Heating belt is fitted on the compressor of outdoor unit to prevent accumulated defrosted water, which improves heat transfer efficiency.

Auto Defrosting

Prevent evaporator from freezing and maintain dehumidifying affect under low temperature environment.

Auxiliary Electric Heater *(optional)*

With a built-in auxiliary electric heater, the heating system will be more powerful.

Extreme Heat Pump
SIDE DISCHARGE CENTRAL SYSTEM EVOX G³

MODEL ⟫	Indoor Unit ⟫		MAUSE-H18B-2A	MAUSE-H24B-2A	MAUSE-H30B-2A
	Outdoor Unit ⟫		MO1HE-H18B-2A	MO1HE-H24B-2A	MO1HE-H30B-2A
	AHRI Reference Number ⟫		215471339	215471340	215471341
CERTIFICATION					
ENERGY STAR®			●	●	●
ENERGY STAR® – Cold Climate V6.1			●	●	●
EFFICIENCY					
Tons		T	1.5	2	2.5
Capacity	Cooling	BTU/hr.	18,000 (4,600 ~ 23,100)	24,000 (6,400 ~ 28,700)	30,000 (11,200 ~ 40,000)
	Heating	BTU/hr.	18,000 (5,700 ~ 23,100)	24,000 (6,700 ~ 29,100)	33,000 (9,700 ~ 35,800)
SEER2		BTU/W	19.0	18.6	17.2
EER2		BTU/W	12.5	12.0	12.0
HSPF2 IV		BTU/W	10.1	10.0	10.8
HSPF2 V		BTU/W	8.5	8.1	8.8
Outdoor Operating Conditions	Cooling	°C °F	-30 ~ 50 -22 ~ 122	-30 ~ 50 -22 ~ 122	-30 ~ 50 -22 ~ 122
	Heating	°C °F	-30 ~ 24 -22 ~ 75	-30 ~ 24 -22 ~ 75	-30 ~ 24 -22 ~ 75
Heating at -15°C (5°F)	Rated capacity	BTU/W	18,600	20,600	33,200
	COP	W/W	2.12	2.14	1.97
INDOOR UNIT					
Fan Motor	Model		ZKFW-600-10-1	ZKFW-600-10-1	ZKFW-600-10-1
	RLA	A	2	2.5	4.5
Indoor Airflow	Turbo / Hi / Mi / Lo	CFM	618.0 / 576.8 / 529.7 / 488.5	824.0 / 759.3 / 694.5 / 629.8	988.8 / 894.7 / 806.4 / 712.2
Indoor Noise Level	Turbo / Hi / Mi / Lo	dB(A)	*n/a* / 42.5 / 40.5 / 37	*n/a* / 47.5 / 44 / 33	49 / 47 / 45.5 / 31.5
ELECTRICAL DATA					
Power Supply		V, Ph, Hz	115 / 208/230, 1, 60	115 / 208/230, 1, 60	115 / 208/230, 1, 60
Min. Circuit Ampacity		A	5.5 / 3.5	5.5 / 3.5	8.0 / 6.0
Max. Fuse		A	15	15	15
DIMENSIONS AND WEIGHT					
Net Dimensions	W x D x H	in	21.50 x 14.49 x 48.11	21.50 x 14.49 x 48.11	21.50 x 17.52 x 52.36
Net Weight		lbs	123.02	123.02	149.25
OUTDOOR UNIT					
ELECTRICAL DATA					
Power Supply		V, Ph, Hz	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Min. Circuit Ampacity		A	16.0	19.0	29.5
Max. Fuse		A	20.0	20.0	30.0
FEATURES					
Outdoor Airflow		CFM	1,765.8	1,765.8	3,001.9
Outdoor Noise Level	Hi	dB(A)	56.5	59.0	62.0
Refrigerant			R-454b	R-454b	R-454b
Refrigerant charge		oz	74.08	74.08	105.82
Outdoor Additional Refrigerant per ft		oz/ft	0.7	0.7	0.7
Preloaded		ft	24.6	24.6	24.6
Refrigerant Piping	Liquid & Gas	in	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4
Max. Refrigerant Pipe Lenght		ft	164	164	164
Max. Height Difference		ft	82	82	82
Connection Wiring			AWG 20-2	AWG 20-2	AWG 20-2
DIMENSIONS AND WEIGHT					
Net Dimensions	W x D x H	in	35.04 x 13.46 x 26.50	35.04 x 13.46 x 26.50	37.24 x 16.14 x 31.89
Net Weight		lbs	101.41	102.29	166.67

Amperage electrical elements 208/230 V

		CIRCUIT #1			CIRCUIT #2			CIRCUIT #3			TOTAL		
MODEL	Kw	AMP	MCA	MOP	AMP	MCA	MOP	AMP	MCA	MOP	AMP	MCA	MOP
EAH-05F(UL)	5	18	23	30							18	23	30
EAH-10F(UL)	10	36	46	60							36	46	60
EAH-15F(UL)	15	18	23	30	36	46	60				54	69	90
EAH-20F(UL)	20	36	46	60	36	46	60				72	92	120
EAH-25F(UL)	25	18	23	30	36	46	60	36	46	60	90	115	150

UP TO 19 SEER2 | UP TO 10.8 HSPF2 | HEATING UP TO -30°C | nep COLD CLIMATE V6.1 | ENERGY STAR | A2L R-454B

	MAUSE-H36B-2A	MAUSE-H48B-2A	MAUSE-H60B-2A
	MO1SE-H36B-2A	MO1HE-H48B-2A	MO1HE-H60B-2A
	215471343	215471344	215471345
	●	●	●
	●	●	●
	3	4	5
	36,000 (12,100 ~ 43,000)	48,000 (18,000 ~ 52,000)	54,000 (11,400 ~ 60,000)
	37,000 (11,400 ~ 47,000)	48,000 (13,500 ~ 52,000)	55,000 (8,600 ~ 60,000)
	18.0	17.5	17.5
	12.0	12.0	12.0
	10.0	9.5	9.5
	8.2	7.7	7.7
	-30 ~ 50 -22 ~ 122	-30 ~ 50 -22 ~ 122	-30 ~ 50 -22 ~ 122
	-30 ~ 24 -22 ~ 75	-30 ~ 24 -22 ~ 75	-30 ~ 24 -22 ~ 75
	37,400	48,000	54,000
	1.90	2.0	1.9
	ZKFW-600-10-1	ZKFW-1000-10-1	ZKFW-1000-10-1
	4.5	8	8
	1,236.1 / 1,147.8 / 1,059.5 / 971.2	1,601.0 / 1,442.1 / 1,265.5 / 1,088.9	1,801.1 / 1,648.1 / 1,500.9 / 1,236.1
	48 / 46.5 / 45.0 / 33	*n/a* / 53.0 / 49.5 / 33.5	60.0 / 57.0 / 54.5 / 37.0
	115 / 208/230, 1, 60	115 / 208/230, 1, 60	115 / 208/230, 1, 60
	8.0 / 6.0	14.5 / 10	14.5 / 10
	15	15	15
	21.50 x 17.52 x 52.36	21.50 x 21.50 x 54.33	21.50 x 21.50 x 54.33
	149.25	186.51	188.05
	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	29.0	38.0	40.0
	30.0	40.0	40.0
	3,001.9	3,037.2	2,648.7
	63.0	65.0	64.5
	R-454b	R-454b	R-454b
	126.99	134.04	183.42
	0.7	0.7	0.7
	24.6	24.6	24.6
	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4
	246	246	246
	98.4	98.4	98.4
	AWG 20-2	AWG 20-2	AWG 20-2
	38.58 x 16.34 x 38.39	38.58 x 16.34 x 38.39	37.48 x 16.34 x 52.48
	204.15	232.59	242.95

INDOOR UNIT

OUTDOOR UNIT

1.5T to 4T **5T**

A-COIL EVOX

MODEL ⟫	Indoor Unit ⟫		MAAHE-H24B-AA	MAAHE-H24B-BA	MAAHE-H24B-AA	MAAHE-H24B-BA	MAAHE-H36B-AA
	Compatible Outdoor Unit ⟫		MO1HE-H18B-2A	MO1HE-H18B-2A	MO1HE-H24B-2A	MO1HE-H24B-2A	MO1HE-H30B-2A
	AHRI Reference Number ⟫		216623518	216623520	216623519	216623521	216623522
CERTIFICATION ⟱							
ENERGY STAR®			●	●	●	●	●
ENERGY STAR® – Cold Climate V6.1			●	●	●	●	●
EFFICIENCY ⟱							
Tons		T	1.5	1.5	2	2	2.5
Capacity	Cooling	BTU/hr.	18,000	18,000	24,000	24,000	30,000
	Heating	BTU/hr.	19,000	19,000	25,000	25,000	30,000
SEER2		BTU/W	16.1	16.1	16.0	16.0	15.3
EER2		BTU/W	11.7	11.7	10,0	10,0	10,0
HSPF2 IV		BTU/W	9.5	9.5	9.5	9.5	9.3
HSPF2 V		BTU/W	7.8	7.8	7.0	7.0	7.7
Heating at -15°C (5°F)	Rated capacity	BTU/W	18,000	18,000	21,000	21,000	30,400
	COP	W/W	2.06	2.06	1.80	1.80	1.80
Indoor Coil	Type of Fins		Hydrophilic Aluminium				
Regulator Type			VET	VET	VET	VET	VET
Drain Pipe Outdoor Diameter		in	3/4	3/4	3/4	3/4	3/4
Refrigerant			R-454b				
Refrigerant Piping	Liquid & Gas	in	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4
DIMENSIONS AND WEIGHT ⟱							
Net Dimensions	W x D x H	in	14-1/2 x 21 x 18	17-1/2 x 21 x 18	14-1/2 x 21 x 18	17-1/2 x 21 x 18	14-1/2 x 21 x 23-5/16
Net Weight		lbs	42.0	42.0	42	42	57.0

R-454b Refrigerant Was Chosen For the Full Midea Product Line

Enjoy lower carbon emissions with A2L refrigerant.

Refrigerant Leakage Detect

Indoor unit will show error code ·ec· and stop automatically when refrigerant leakage is detected. This function can better protect the compressor being damaged by high temperature due to refrigerant leakage.

A-Coil

The tubes and fins of the coil are made entirely of aluminium, which protects from the corrosive elements circulating inside your house as well as offering maximum heat transfer.

Durable Cabinet

Galvanized steel with a polyester urethane finish, wich is 50% more corrosion resistant than regular finishes.

Installation

Vertical up, vertical down or horizontal.

	MAAHE-H36B-BA	MAAHE-H36B-CA	MAAHE-H36B-BA	MAAHE-H36B-CA	MAAHE-H60B-CA	MAAHE-H60B-CA	MAAHE-H60B-DA
	MO1HE-H30B-2A	MO1HE-H30B-2A	MO1SE-H36B-2A	MO1SE-H36B-2A	MO1HE-H48B-2A	MO1HE-H60B-2A	MO1HE-H60B-2A
	216623523	216623525	216623524	216623526	216684129	216623527	216623528
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	2.5	2.5	3	3	4	5	5
	29,000	29,000	36,000	36,000	45,000	52,000	47,000
	30,000	30,000	38,000	38,000	48,000	56,000	58,000
	16.0	16.0	15.8	15.8	15.2	16.0	15.2
	11.0	11.0	10.7	10.7	10.0	10.0	10.0
	9.6	9.6	9.4	9.4	8.8	8.5	8.1
	8.2	8.2	7.9	7.9	7.4	7.0	6.8
	32,000	32,000	36,000	36,000	42,000	45,000	43,000
	1.85	1.85	1.90	1.90	1.85	1.80	1.83
	Hydrophilic Aluminium						
	VET	VET	VET	VET	VET	VET	VET
	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	R-454b						
	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4	3/8 & 3/4
	17-1/2 x 21 x 23-1/2	21 x 21 x 24	17-1/2 x 21 x 23-1/2	21 x 21 x 24	21-5/8 x 21-1/2 x 27-3/4	21-5/8 x 21-1/2 x 27-3/4	24-1/2 x 21 x 28
	59.5	64.0	59.5	64.0	97.0	97.0	81.0

Designed to last

One of the best warranty programs in the industry

We guarantee long-lasting units because we use top-quality materials. Since our heat pumps are built to last, we can offer one of the best warranty programs in the industry.

In addition, **Midea** focuses on optimizing both its operations and its product design in order to minimize harmful effects on the environment, thanks to a strong investment in R&D.

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COMMERCIAL WARRANTY

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