



Midea EVOX

Inverter Heat Pump and Air Handler System

Comfort Enhancement Made Easy for Every Home

Flexible | Comfortable | Sustainable

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Comfort Enhancement Made Easy with Midea EVOX Inverter Heat Pump and Air Handler System

As your customers think about the functionality of their HVAC system, Midea is here and ready to provide you with flexible comfort upgrade solutions like never before. This is a product offering that takes customer and contractor concerns into account. There is something for everyone: an advanced yet affordable system; an easy-to-install system that can adapt to most of the installation conditions and changing demands; an energy-efficient system that doesn't compromise on comfort. This is the Midea EVOX. A system that is designed to provide flexible and competitive HVAC improvement solutions for every home or business.

Single-zone The Bi-COM System



Features and Benefits

- Up to 20 SEER and 12 HSPF
- Available in 2, 3, 4, and 5-Ton models
- Supports heat pump and dual-fuel heating capabilities (1)
- Superior low ambient heat output: 100% output at -4°F with COP up to 2.0, 75% output at -13°F (2)
- User customizable set point for heat pump to auxiliary heat (gas or electric) change over temperatures
- Reduced replacement installation cost by using existing refrigerant lines and control wiring (3)
- Advanced Inverter control powered by Midea GA algorithm logic
- Intelligent diagnostics and adaptive control system
- Omni-Mix: the Midea single-zone units can flexibly mix and match with Midea multi-zone units

- (1) Dual-Fuel is achievable only when gas furnace and A-Coil are connected to one EVOX heat pump
(2) Model dependent
(3) Refer to the installation manual for details on compatibility requirements



Standard Features

- Multi position (up/down/left/right)
- Computational constant air flow up to 0.6 in. w.c. stand pressure up to 10 in. w.c.
- Compatible with both 24V and 48V communication modes
- Aluminum evaporator coil
- Equipped with optional auxiliary heat kit up to 25kW
- Quiet Operation – Inverter system running at significantly lower dB level

. Ingenious Flexibility!



Probably the most
compact and flexible
system available!

BI-COM Technology
Compatible with 24V & 48V
Communication Modes



EVOX provides you with the flexibility to adapt to changing home owner demands and stay ahead of the competition. Midea's industry first BI-COM technology allows the EVOX units to work effectively with both 48V communication and 24V communication modes. This ensures the best control and performance when the EVOX system works as a matched set, regardless of the thermostat.

In the situation where your customer wants to install just the EVOX heat pump unit and match it to your existing equipment, (even non-communicating) the system can still function effectively as a communicating inverter combination so that they can enjoy the superior comfort and energy efficiency of inverter technology. The upgrade can conveniently be accomplished without changing the control wires or refrigerant lines.

Easy to install, easy to enjoy and easy to save
with computational constant airflow

Conventional AHU



The computational constant airflow blower with an advanced algorithm automatically measures static pressure issues caused by blocked coils, dirty filters, kinks in ducts, etc. The ECM motor reacts to these conditions, adjusting the output power and fan speeds to ensure optimized airflow delivery.

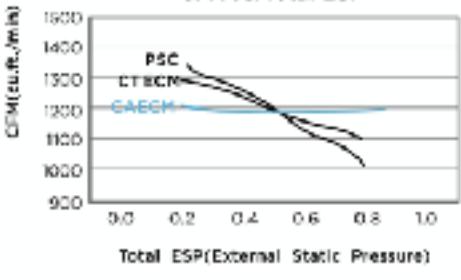
Midea EVOX AHU with Computational Constant Airflow



Convenient Installation

Constant CFM can adapt to the existing ductwork design, this enables you to be free from complicated manual air balance testing.

CFM vs. Total ESP



Energy saving

By delivering the right amount of airflow the system can effectively reduce energy waste due to excess airflow.

CCCF: Midea EVOX AHU | PSC: Conventional AHU

. Ingenious Flexibility!

There is a solution for any climate condition

**-4°F 100% Heating Output
-13°F 75% Heating Output**

Multiple Heating Solutions



Hyper Heat Pumps & M-POWEVI

Traditional heat pump systems may encounter lockout in severe conditions, but this is definitely not the case for the EVOX line of heat pumps. EVOX Hyper Heat Pumps are able to deliver 100% heating output at -5°F, ensuring uninterrupted warmth for moderate winters. For areas that experience extreme cold, Midea offers a top-notch solution – The EVOX M-POWEVI. The EVOX M-POWEVI condenser unit is capable of delivering 100% or more heating output down to -4°F, also offering superior heating performance down to -13°F outdoor temperatures.



Auxiliary Heat Kit Combinations

Auxiliary heat kits can be added to the heat pump system, so both the fast and intense heat from the electric heater, and the efficient and stable heat generated by the heat pump can be offered. Midea's programmable control enables customized heat pump to electric heat switch over temperatures, that means customers can choose the best heating combination for the climate they live in.



Dual Fuel Compatibility

For colder months or optimizing operational cost, EVOX systems can also be paired with existing gas furnaces to provide a reliable source of heat under the most extreme climates.

Compact Size Fits Any Space

Thinner design and lighter weight provides unmatched flexibility to fit in any unique home space.



Fit more in your tech van or truck; 4's EVOX units as opposed to 1 or 2 traditional.

Easy to bring to the installation site and install on pad – the single fan unit can be transported by a single worker.

Quiet Operation Suits Any Life

With the inverter technology that enables consistent and adjustable operation, the Midea EVOX system can run at a significantly lower decibel level (as low as 54 dBA of a 18K condenser unit; 36dBA of a 10K AHU unit), offering additional acoustical comfort to any environment (inside and out).



Midea EVOX Hyper Heat Pump



Capacity	Model Number	Input Power	Output	Electrical	Overall	Dimensions	Weight
1.5 Ton / 18K BTU/Hr	MEV018H-A	180W/200W/240W	18000BTU/Hr	110V/60Hz/15A	18000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
2.0 Ton / 24K BTU/Hr	MEV024H-A	240W/280W/320W	24000BTU/Hr	110V/60Hz/18A	24000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
2.5 Ton / 30K BTU/Hr	MEV030H-A	300W/360W/420W	30000BTU/Hr	110V/60Hz/22A	30000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
3.0 Ton / 36K BTU/Hr	MEV036H-A	360W/420W/480W	36000BTU/Hr	110V/60Hz/26A	36000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
3.5 Ton / 42K BTU/Hr	MEV042H-A	420W/480W/540W	42000BTU/Hr	110V/60Hz/30A	42000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
4.0 Ton / 48K BTU/Hr	MEV048H-A	480W/540W/600W	48000BTU/Hr	110V/60Hz/34A	48000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
4.5 Ton / 54K BTU/Hr	MEV054H-A	540W/600W/660W	54000BTU/Hr	110V/60Hz/38A	54000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
5.0 Ton / 60K BTU/Hr	MEV060H-A	600W/660W/720W	60000BTU/Hr	110V/60Hz/42A	60000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
5.5 Ton / 66K BTU/Hr	MEV066H-A	660W/720W/780W	66000BTU/Hr	110V/60Hz/46A	66000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
6.0 Ton / 72K BTU/Hr	MEV072H-A	720W/780W/840W	72000BTU/Hr	110V/60Hz/50A	72000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
6.5 Ton / 78K BTU/Hr	MEV078H-A	780W/840W/900W	78000BTU/Hr	110V/60Hz/54A	78000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
7.0 Ton / 84K BTU/Hr	MEV084H-A	840W/900W/960W	84000BTU/Hr	110V/60Hz/58A	84000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
7.5 Ton / 90K BTU/Hr	MEV090H-A	900W/960W/1020W	90000BTU/Hr	110V/60Hz/62A	90000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
8.0 Ton / 96K BTU/Hr	MEV096H-A	960W/1020W/1080W	96000BTU/Hr	110V/60Hz/66A	96000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
8.5 Ton / 102K BTU/Hr	MEV102H-A	1020W/1080W/1140W	102000BTU/Hr	110V/60Hz/70A	102000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
9.0 Ton / 108K BTU/Hr	MEV108H-A	1080W/1140W/1200W	108000BTU/Hr	110V/60Hz/74A	108000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
9.5 Ton / 114K BTU/Hr	MEV114H-A	1140W/1200W/1260W	114000BTU/Hr	110V/60Hz/78A	114000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
10.0 Ton / 120K BTU/Hr	MEV120H-A	1200W/1260W/1320W	120000BTU/Hr	110V/60Hz/82A	120000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
10.5 Ton / 126K BTU/Hr	MEV126H-A	1260W/1320W/1380W	126000BTU/Hr	110V/60Hz/86A	126000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
11.0 Ton / 132K BTU/Hr	MEV132H-A	1320W/1380W/1440W	132000BTU/Hr	110V/60Hz/90A	132000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
11.5 Ton / 138K BTU/Hr	MEV138H-A	1380W/1440W/1500W	138000BTU/Hr	110V/60Hz/94A	138000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
12.0 Ton / 144K BTU/Hr	MEV144H-A	1440W/1500W/1560W	144000BTU/Hr	110V/60Hz/98A	144000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
12.5 Ton / 150K BTU/Hr	MEV150H-A	1500W/1560W/1620W	150000BTU/Hr	110V/60Hz/102A	150000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
13.0 Ton / 156K BTU/Hr	MEV156H-A	1560W/1620W/1680W	156000BTU/Hr	110V/60Hz/106A	156000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
13.5 Ton / 162K BTU/Hr	MEV162H-A	1620W/1680W/1740W	162000BTU/Hr	110V/60Hz/110A	162000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
14.0 Ton / 168K BTU/Hr	MEV168H-A	1680W/1740W/1800W	168000BTU/Hr	110V/60Hz/114A	168000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
14.5 Ton / 174K BTU/Hr	MEV174H-A	1740W/1800W/1860W	174000BTU/Hr	110V/60Hz/118A	174000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
15.0 Ton / 180K BTU/Hr	MEV180H-A	1800W/1860W/1920W	180000BTU/Hr	110V/60Hz/122A	180000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
15.5 Ton / 186K BTU/Hr	MEV186H-A	1860W/1920W/1980W	186000BTU/Hr	110V/60Hz/126A	186000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
16.0 Ton / 192K BTU/Hr	MEV192H-A	1920W/1980W/2040W	192000BTU/Hr	110V/60Hz/130A	192000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
16.5 Ton / 198K BTU/Hr	MEV198H-A	1980W/2040W/2100W	198000BTU/Hr	110V/60Hz/134A	198000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
17.0 Ton / 204K BTU/Hr	MEV204H-A	2040W/2100W/2160W	204000BTU/Hr	110V/60Hz/138A	204000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
17.5 Ton / 210K BTU/Hr	MEV210H-A	2100W/2160W/2220W	210000BTU/Hr	110V/60Hz/142A	210000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
18.0 Ton / 216K BTU/Hr	MEV216H-A	2160W/2220W/2280W	216000BTU/Hr	110V/60Hz/146A	216000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
18.5 Ton / 222K BTU/Hr	MEV222H-A	2220W/2280W/2340W	222000BTU/Hr	110V/60Hz/150A	222000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
19.0 Ton / 228K BTU/Hr	MEV228H-A	2280W/2340W/2400W	228000BTU/Hr	110V/60Hz/154A	228000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
19.5 Ton / 234K BTU/Hr	MEV234H-A	2340W/2400W/2460W	234000BTU/Hr	110V/60Hz/158A	234000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
20.0 Ton / 240K BTU/Hr	MEV240H-A	2400W/2460W/2520W	240000BTU/Hr	110V/60Hz/162A	240000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
20.5 Ton / 246K BTU/Hr	MEV246H-A	2460W/2520W/2580W	246000BTU/Hr	110V/60Hz/166A	246000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
21.0 Ton / 252K BTU/Hr	MEV252H-A	2520W/2580W/2640W	252000BTU/Hr	110V/60Hz/170A	252000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
21.5 Ton / 258K BTU/Hr	MEV258H-A	2580W/2640W/2700W	258000BTU/Hr	110V/60Hz/174A	258000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
22.0 Ton / 264K BTU/Hr	MEV264H-A	2640W/2700W/2760W	264000BTU/Hr	110V/60Hz/178A	264000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
22.5 Ton / 270K BTU/Hr	MEV270H-A	2700W/2760W/2820W	270000BTU/Hr	110V/60Hz/182A	270000BTU/Hr	205Lx39.5Wx19H	205Lx39.5Wx19H
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