

## Efficient Electric: EVOX Cold Climate Heat Pump

# DOE

## COLD CLIMATE HEAT PUMP CHALLENGE MANUFACTURER PARTNER

### A Real Cold Climate Heat Pump Application in Alaska



32"

952\*415\*1333

## EVOX G<sup>3</sup> Air Handler

### EVOX G<sup>3</sup> Air Handler Capacity: 1.5-5 Tons (18-60K)

#### Performance:

SEER2 Up to 19.0

COP@5°F Up to 2.14

Continuous Operation Down to -40°F/-40°C

Up to 100% Output at -31°F/-35°C

Continuous Operation Up to 149°F/65°C

Up to 100% Output at 140°F/60°C

EER2 Up to 12.5

HSPF2 Up to 10.8

#### Static Pressure:

Constant Airflow Up to 1.2 in.W.G.

#### Size (inch):

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

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

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

444.5\*546.1\*1345

#### Exceeding Benchmarks at Lab Testing:

-15°F/-26°C

118% of rated capacity heating output with a COP of 1.92\*

\*COP: Coefficient of Performance (COP) is a basic energy efficiency metric of a HVAC system.

5°F/-15°C

surpassing DOE cold climate specification of 2.4 COP\*

\*Based on testing result of a Midea 3-ton system

# All Electric: EVOX Heat Pump with Electric Heater

1248\*593\*278

## What Makes EVOX Easy

- 

Compatible  
with 485&24V
- 

Computational  
Constant Airflow of Up to 0.8"
- 

Eligible for  
Incentive & Rebates
- 

115V & 208/230V  
Multi-Voltage

**Auxiliary Heater**  
Up to 25 kW  
3-Stage

535\*300\*204


**Wall-Mounted  
Air Handler**

Capacity:  
1.5-3 Tons (18-36K)

**Performance:**  
SEER2 Up to 19.3    EER2 Up to 12.1  
HSPF2 Up to 10.8

**Static Pressure:**  
Constant Airflow Up to 0.8 in.W.G.

**Size (Inch):**  
A: 15-2 Tons    20-1/4 x 15-3/4 x 36-1/2  
B: 2.5-3 Tons    22 x 19 x 40




**Ceiling-Mounted  
Air Handler**

Capacity:  
1.5-3 Tons (18-36K)

**Performance:**  
SEER2 Up to 18.0    EER2 Up to 12.0  
HSPF2 Up to 10.0

**Static Pressure:**  
Constant Airflow Up to 0.8 in.W.G.

**Size (Inch):**  
A: 15 Tons    45-1/2 x 23-3/8 x 10-7/8  
B: 2 Tons    48-1/8 x 23-3/8 x 10-7/8  
C: 2.5 Tons    55-1/4 x 23-3/8 x 10-7/8  
D: 3 Tons    62-1/8 x 23-3/8 x 10-7/8




**Air Handler**  
Capacity: 1.5-5 Tons (18-60K)

**Performance:**  
SEER2 Up to 19.0    EER2 Up to 12.5  
HSPF2 Up to 10.2



**Static Pressure:**  
Constant Airflow Up to 0.8 in.W.G.

**Size (Inch):**  
A: 15-2 Tons    21 x 17-1/2 x 45  
B: 2.5-3 Tons    21 x 21 x 49  
C: 4-5 Tons    21 x 24-1/2 x 53



980\*415\*975


**EVOX Heat Pump**  
Capacity: 1.5-5 Tons (18-60K)

 Heating Operation Range -22°F-75°F     Cooling Operation Range -22°F-122°F

**Slim Design:**



27%  
Reduction in Height  
36K-48K




37-1/2 x 16-3/8 x 52-1/2    38-5/8 x 16-3/8 x 38-3/8



19%  
Reduction in Height  
24K



37-1/4 x 16-1/8 x 31-7/8    35 x 13-1/2 x 26-1/2



622\*534\*1346

515\*399\*927

# Dual Fuel: EVOX Compatible with Gas Furnace

**Dual Fuel**

**During Winter**  
Dual Fuel Capability

**Cold**  
Superior comfort and efficiency with heat pump.

**Freezing**  
Stays above and continuous heating with gas and heat pump as its backup.

**During Summer**  
Efficient Cooling

**Hot**  
Superior ultimate comfort with highly efficient and powerful cooling.


**A-Coil**

**Capacity:**  
1.5-5 Tons (18-60K)

**Performance:**  
SEER2 Up to 16.5    EER2 Up to 11.5  
HSPF2 Up to 8.5

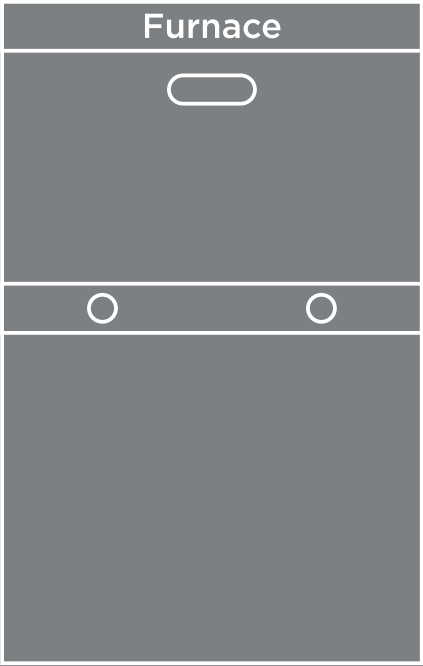
**Size (Inch):**

1.5-2 Tons	14-1/2 x 21 x 18
2.5-3 Tons	14-1/2 x 21 x 23-1/2
1.5-2 Tons	17-1/2 x 21 x 18
2.5-3 Tons	17-1/2 x 21 x 23-1/2
2.5-4 Tons	21 x 21 x 23-1/2
4-5 Tons	21 x 21 x 27-1/2
5 Tons	24-1/2 x 21 x 28



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Heat Pump for Multi-Family Buildings

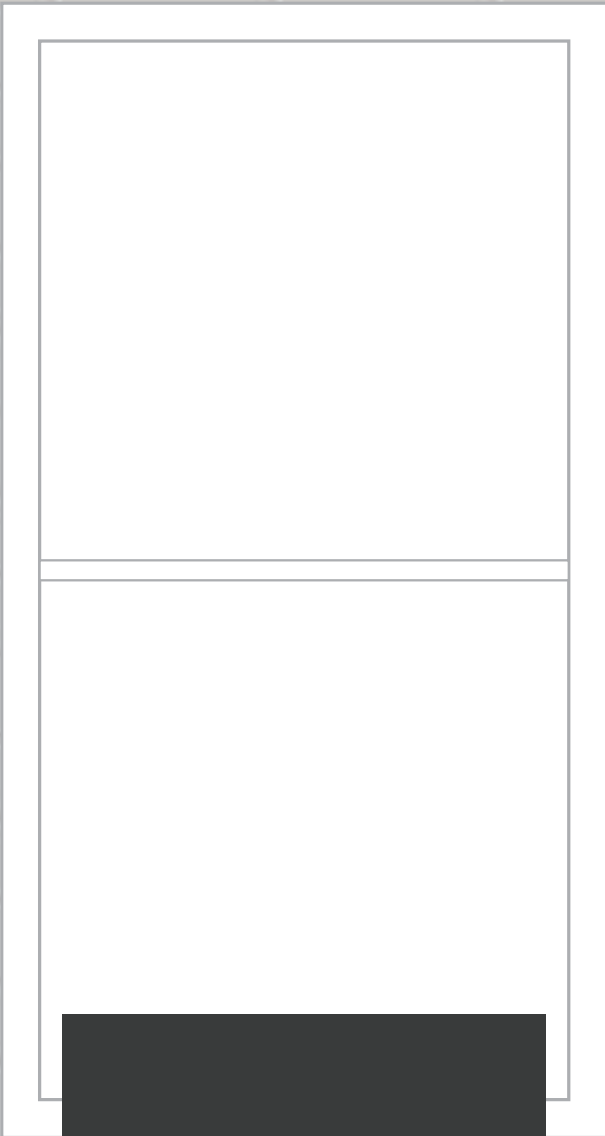
Reliable Winter  
Heat without  
Condensate Lines

5°F/-15°C

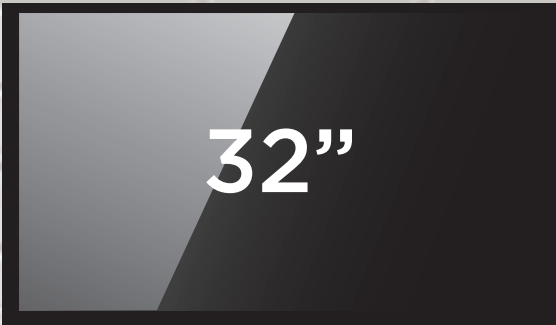
100% Heating  
with COP Up to 2.0

-22°F/-30°C

Continuous  
Operation



640\*860\*530



Lower Carbon Emissions

Radiator Heating

By 2030  
40%  
Supporting the New York City  
Climate Mobilization Act  
To cut greenhouse gas emissions from buildings, the City is requiring all new buildings to be net-zero energy ready by 2030.

Higher Efficiency

Window unit

Up to  
61.5%  
Energy Savings\*  
than Traditional Window Unit  
\*Data calculated and comparison based on the Coefficient of Energy Efficiency Ratio of a 9K traditional window AC with DOE standard and a 9K PWHP.

Simpler Installation

Split system

No  
Refrigerant  
Connections  
No  
Drainage  
Pipe

Packaged Window  
Heat Pump

Capacity: 0.75 Tons (9K)

AHR 2024  
Innovation Award

2023 Integrated Home  
Competition Winner

Performance:

CEER Up to 17.6

HEER Up to 11.0

Size (inches):

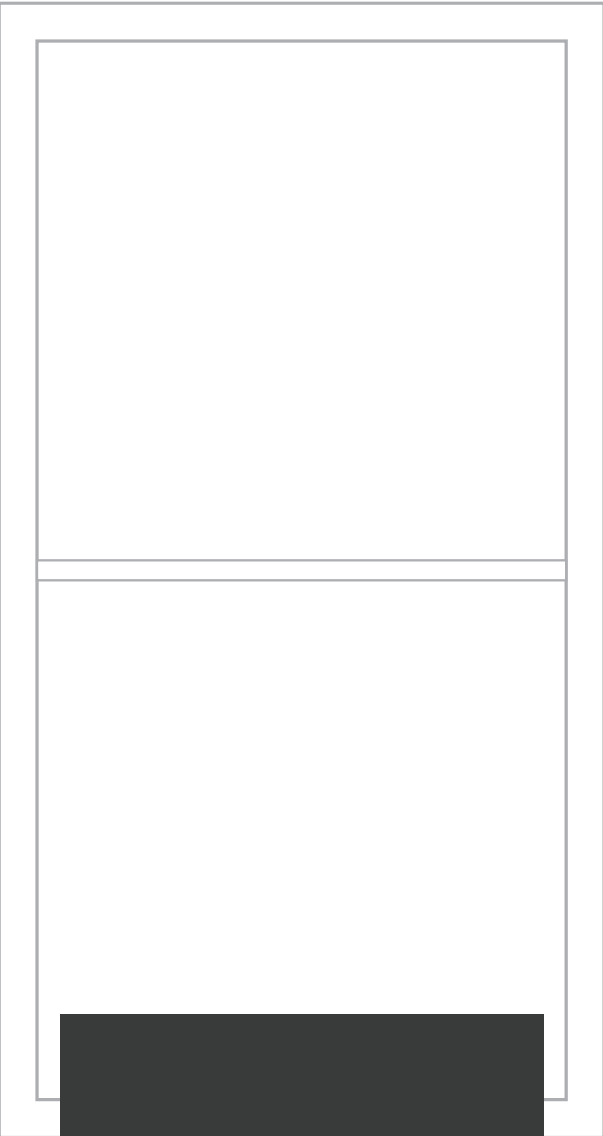
25 x 20-2/8 x 33-5/8 - 41-5/8

Heat Pump for Multi-Family Buildings

“Clean Heat for All” Winner



Teaming up with New York Government Agencies — New York City Housing Authority, New York Power Authority, New York State Energy Research and Development Authority to provide 20,000 units for New York public housing, 36 pilot units, which have been successfully installed in designated New York public housing.



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Optimal Efficiency, Optimal Savings

Up to **61.5%\*** ENERGY SAVINGS  
than Traditional Window Unit

CEER **17.6** | HEER **11.0**

\*Data calculated and comparison based on the Coefficient of Energy Efficiency Ratio of a 9K traditional window AC with DOE standard and a 9K PWHP.



# EVOX G<sup>3</sup>

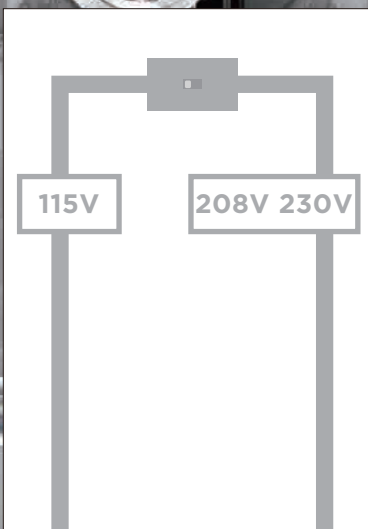
Easy to Control, Easy to Install

32"

**M-Station**  
Midea Next-Gen  
Smart Thermostat

Sub-1  
GHz

**Plug and Play**



# EVOX G<sup>3</sup> Modular Design, Expanded Applications



## Easy to Install & Fit in Different Spaces



**Screwless Connection**  
The EVOX G3 connection method is the only one that requires no screws or nuts, making it the easiest to install.

**Slim Design for Attic Space**  
The EVOX G3 is a slim furnace, making it ideal for installation in attics and other tight spaces.

**One-man operation**  
The EVOX G3 is designed for one-man operation, making it easy to install and service.

**Flexible Installation Ways**  
The EVOX G3 can be installed in a variety of ways, including wall, floor, and ceiling.

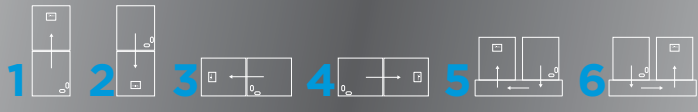
## Fits the Existing Furnace Footprint

14.5"-21.5"

14.5"-21.5"

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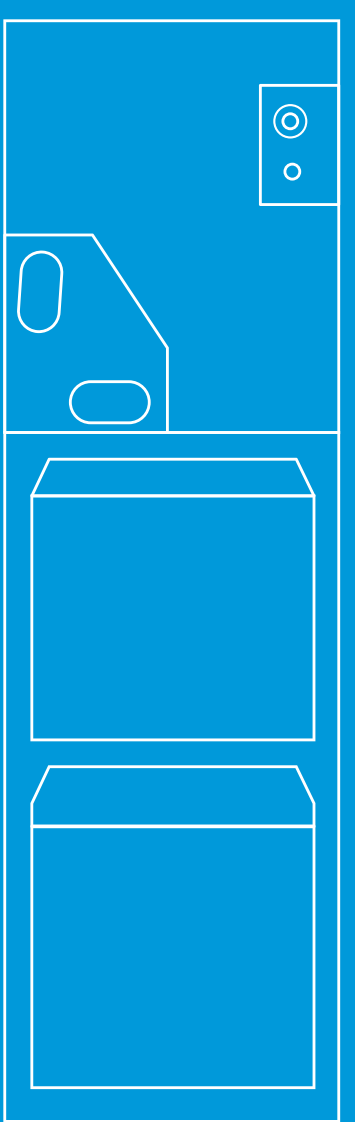
## One SKU-Six Flexible Applications



AIRCARE  
CUBE

EXCLUSIVE  
LOW-BOY  
APPLICATION

1016\*560\*1202



# EVOX G<sup>3</sup> Extreme Heating, Cooling & Efficiency

Full Product Line Exceeds ENERGY STAR Most Efficient Specifications



18,000 BTU -  
54,000 BTU

SEER2 Up to  
**19.0**  
COP@5°F Up to  
**2.14**

EER2 Up to  
**12.5**  
HSPF2 Up to  
**10.8**

**CleanBC**  
Energy Savings Program  
**Up to \$19,000**  
Rebate for the purchase and installation of a heat pump

**FortisBC**  
Dual Fuel Heating System Rebate  
**Up to \$10,000**  
Rebate to offset the cost of installing a new electric heat pump with a new high-efficiency gas furnace

**Save on Energy and Enbridge Gas**  
Home Renovation Savings Program  
**Up to \$7,500**  
For cold climate air source heat pump on Natural Resources Canada's qualified products list

**Natural Resources Canada (NRCan)**  
Oil to Heat Pump Affordability Program  
**Up to \$10,000**  
Upfront payment paid directly to the homeowner to switch from oil heating to new, energy-efficient heat pumps

**Hydro-Québec**  
LogisVert Efficient Homes Program  
**Up to \$6,700**  
Subsidy for the purchase of an efficient heat pump

## All Climate Heat Pump



Continuous Operation Down to **-40°F/-40°C**  
Up to 100% Output at **-31°F/-35°C**



Continuous Operation Up to **149°F/65°C**  
Up to 100% Output at **140°F/60°C**

**27%**  
Reduction in Height  
\*vs the same capacity at double fan ODU

980\*415\*975

# Heat Pump Water Heater

# Heat Pump for Domestic Hot Water

750\*1900      750\*1900

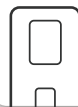
Power  
1K

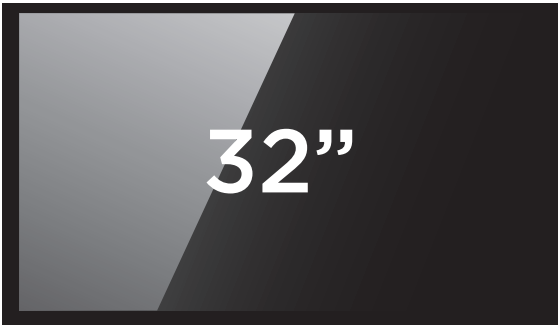
**Heat Pump Water Heater**

**Performance:**  
Top Tier Energy Efficiency  
Eligible for All Major Incentives & Rebate

**Optional:**  
Leakage Detection / Air Duct Adapter

50 gallon	UEF 3.75
65 gallon	UEF 3.90
80 gallon	UEF 4.00

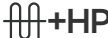

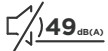





**15+ Years Extended Lifespan of Water Tank**  
\*Estimated based on the results of 100k impact tests and 500-hour acid resistance test in Midea lab.

- Anti-Corrosion •
- Magnesium Anode Rod •
- Enamel Coating •



-  **+HP**  
5 Modes for Versatile Applications
-   
No exhaust vents or gas lines
-  **49 dB(A)**  
Quiet Operation Down to 49 dB(A)
-   
First Hour Rating of Up to 91 Gallon

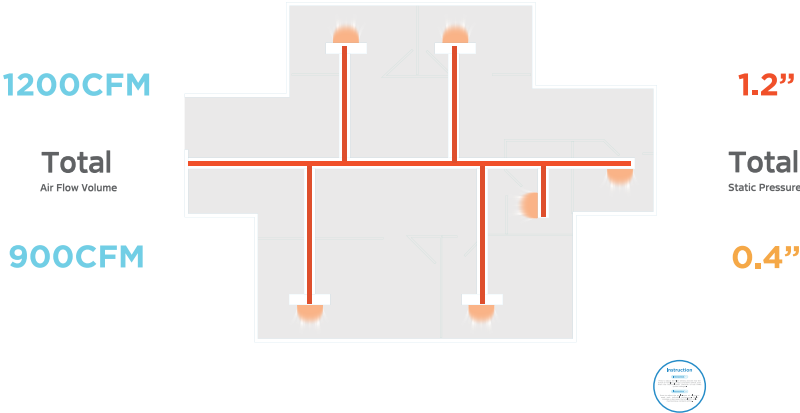
Heat Output Up To  
**4KW**



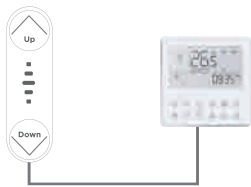
# Constant Airflow Air Handler

Adapts to different ductwork designs

Different Static Pressure, Same CFM



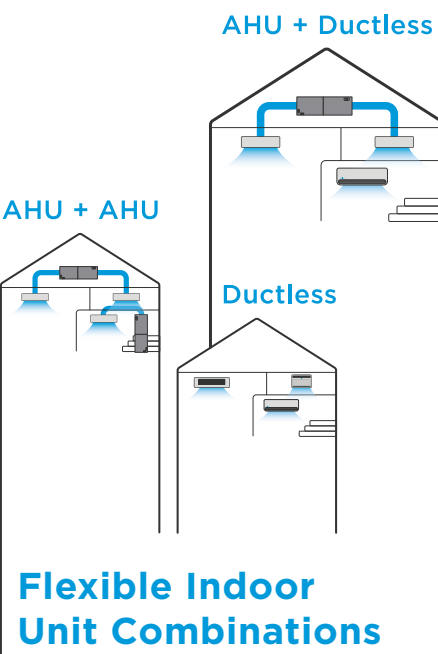
Press to Adjust the Constant Air Volume



Press to Change the External Static Pressure

Normal Filter      MERV 13

Multi-Zone Flexibility Tailored to Your Comfort



**Ducted & Ductless Compatible Multi-Zone System**

Capacity: 1.5-5 Tons (18-60K)

**Performance:**

Power Up to 4 Zones: SEER2 Up to 26  
EER2 Up to 16

Heating Operation Range: 2°F-75°F

Cooling Operation Range: 2°F-95°F

**Compact Round Flow Cassette**

Capacity: 0.75-2 Tons (9-24K)

**Size (inHxW):**

96 59K 21-1/2" x 14-1/2" x 19-3/4"

24K 21-1/2" x 15-1/2" x 14"

Single Zone & Multi-Zone Applications

**All Easy Pro**

Capacity: 0.5-3 Tons (6-36K)

Single Zone & Multi-Zone Applications

**Intelligent Sensor**

Temperature & Humidity Dual Control

30 minutes: When you are away for 30 minutes, it automatically enters the Economy mode to save energy.

2 hours: When you are away for 2 hours, it automatically enters the Sleep mode, frequency platform and shuts down.

The unit will automatically start and resume operation upon detecting human activity again.

**Incorporating up to 3-ton AHU into the multi-zone system**

The system's versatility makes it applicable across a wider range of scenarios and conditions, allowing homeowners to keep their ducted system while missing space units for additional climate control.

952\*414\*1333

570\*570\*260

965\*319\*240

534\*445\*1143

Multi-Zone Flexibility Tailored to Your Comfort

1000\*245\*750

**High Static Pressure Slim Duct**

Capacity: 0.75-2 Tons (9-24K)

**Static Pressure:** Constant Airflow Up to 0.8 inWG.

**Minimum height:** 9'-5/8"

Single Zone & Multi-Zone Applications

- Slim Height Design
- Constant Airflow
- Two-Way Installation

- Dual-Air Outlets
- Two-Way Installation
- Humidity Sensor

794\*200\*621

**Console**

Capacity: 0.75-1.5 Tons (9-18K)

**Size (inHxW):** 34" x 11" x 28-1/4"

Single Zone & Multi-Zone Applications

1278\*335\*228

50-3/8"(W) 13-1/4"(D) 9"(H)

**IN-Cassette**

Capacity: 0.5-1.5 Tons (6-18K)

**Size (inHxW):** 30-1/4" x 15-1/4" x 9"

Single Zone & Multi-Zone Applications

32"

980\*415\*975

# Success Through Commitment



**AHR Innovation Awards  
Finalist 2024**  
Sustainable Solution Award Winner



**The U.S. Department of Energy Residential  
Cold-Climate Heat Pump Challenge**  
Successfully Developed Next-Generation Prototypes



**Red Dot Winner 2023**  
Packaged Window Heat Pump



**International Design Excellence Award 2023**  
Packaged Window Heat Pump



**CEE Integrated Home Competition 2023 Winner**  
Packaged Window Heat Pump

