



**INTERIOS**  
Central Heat Pump Systems

## Inverter Heat Pump and Air Handler System



Comfort  
Enhancement  
Made Easy for  
Every Home



# Canada Greener Homes Grant

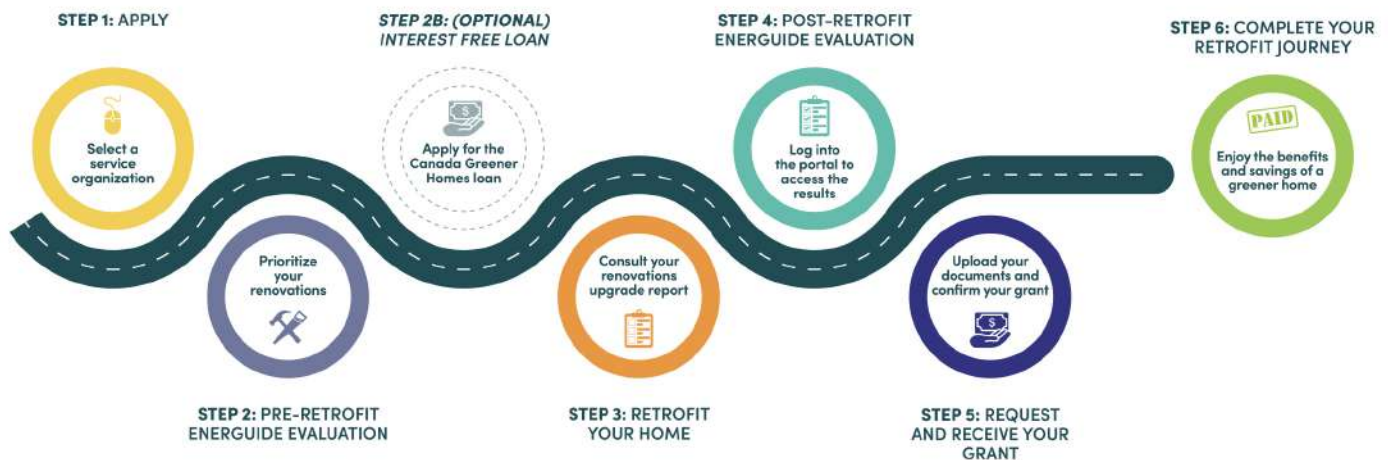


## Helping you **save** energy and make your home more comfortable

### HOW THE GRANT PROCESS WORKS

The Canada Greener Homes Initiative provides grants and a loan for EnerGuide evaluations and for retrofits. It is important that you read all eligibility criteria and grant requirements to be sure that you will qualify for the grant at the end of the process.

You must complete a pre-retrofit EnerGuide evaluation before beginning the retrofits to be eligible for the grant.



## All models are eligible for the Canada Greener Homes Grant

### THE HOMEOWNER JOURNEY

- Select a service organization
- Pre-retrofit EnerGuide evaluation
- (optional) Interest-free loan — Canada Greener Homes Loan
- Retrofit your home - Consult the renovation upgrade report
- Post-retrofit **EnerGuide** evaluation
- Request and receive your grant
- Complete your retrofit journey

Enjoy the benefits and savings of a greener home!

# Standard Features



- Up to 18.4 SEER2
- Available in 1.5-5 ton models
- Superior low ambient heat output: 100% output down to  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) with COP up to 2.0, continuous operation as cold as  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ) (1)
- User customizable set point for heat pump to auxiliary heat change over temperatures
- Reduced replacement installation cost by using existing refrigerant lines and control wiring (2)
- Advanced inverter control
- Intelligent diagnostics and adaptive control system

(1) Model dependent

(2) Refer to the installation manual for details on compatibility requirements



- Multi position (up/down/left/right)
- ECM up to 0.8 in. wc; stand pressure up to 1.0 in. wc
- Compatible with both 24V and 485 communication modes
- Aluminum evaporator coil
- Optional auxiliary heat kit up to 25kW
- Quiet Operation – inverter system running at significantly lower dB level

# Core Features

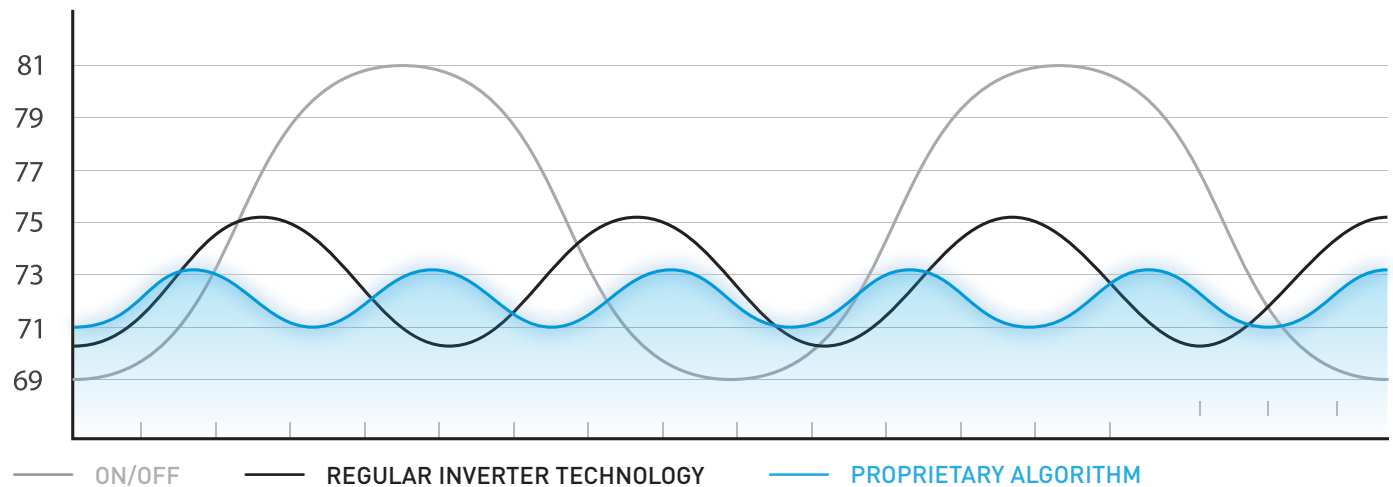
## Panasonic Inverter Heat Pump

### ADVANCED INVERTER CONTROL

#### Minimal Indoor Temperature Fluctuation



Set Temperature: 22°C (72°F)



Proprietary algorithms enable a more precise analysis of indoor temperature variations and an optimization of the compressor in advance to reduce the temperature fluctuation. This means that compared to standard inverter technology, this advanced inverter technology provides more accurate temperature control, providing a consistent, and comfortable environment.



FLASH  
COOLING/HEATING



ULTRA STABLE ROOM  
COMFORT



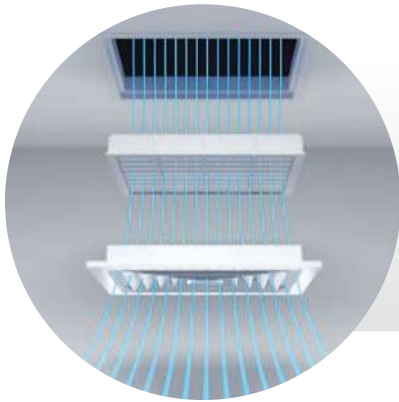
LOWER  
OPERATING COST

# Core Features

## Panasonic Air Handling Unit

### COMPUTATIONAL CONSTANT AIRFLOW

Computational Constant Airflow 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.



### CONSTANT AIRFLOW

The Panasonic air handler is capable of ensuring optimal airflow even when the air passes through a high-density MERV13 filter.



#### CONVENIENT INSTALLATION

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



#### OPTIMAL COMFORT

Constant CFM can adapt to the pressure changes inside the ductwork as the system operates, guaranteeing constant and optimal airflow moving through the system.



#### HIGHER EFFICIENCY

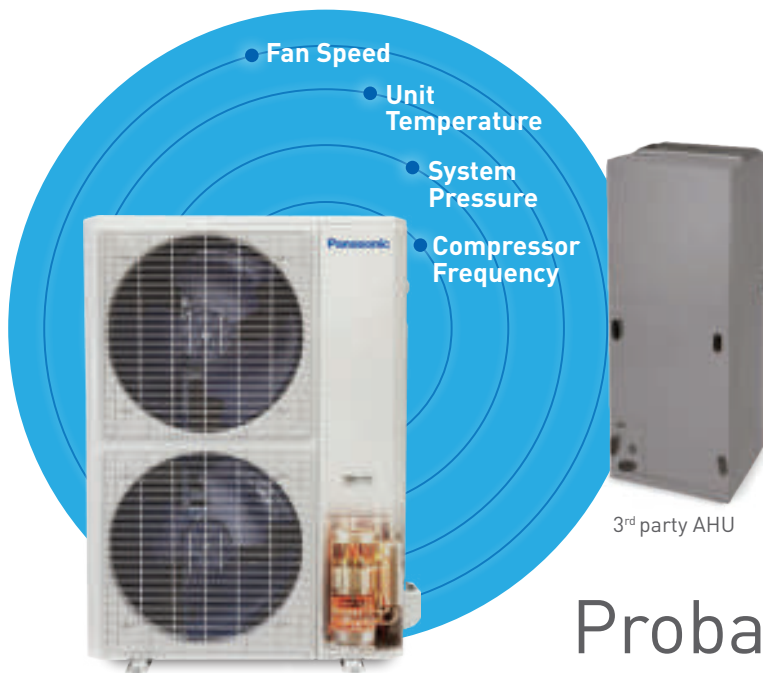
By delivering the right amount of airflow the system can effectively reduce energy waste due to excess airflow.

# Exclusive **BI-COMM** Technology

## Compatible with **485 & 24V**

### COMMUNICATION MODE

The Panasonic heat pump unit is able to precisely receive and process signals from the communicating air handler to manage the air temperature and airflow inside a home and maintain them at the most comfortable level.



3<sup>rd</sup> party AHU

### SELF-ADAPT MODE

The Panasonic inverter heat pump has the ability to analyze the temperature and pressure change of the unit to adjust system operation. When matching the heat pump to existing equipment, even non-communicating, the system can function effectively as a communicating inverter combination so that homeowners can enjoy the benefits of inverter technology.

## Probably **the Most Flexible** Heating Upgrade Solution Ever

The Panasonic system can flexibly mix and match with most other brand indoor units, outdoor units, and thermostats, even without changing electrical wiring or refrigerant lines.



# Real Inverter Benefits For All

## Inverter Heat Pump Condenser



### UP TO 30% ENERGY SAVING

High efficiency Inverter compressor that ensures both energy saving & comfort.



### QUIET OPERATION

As low as 59 dBA with a 1.5 ton inverter heat pump.

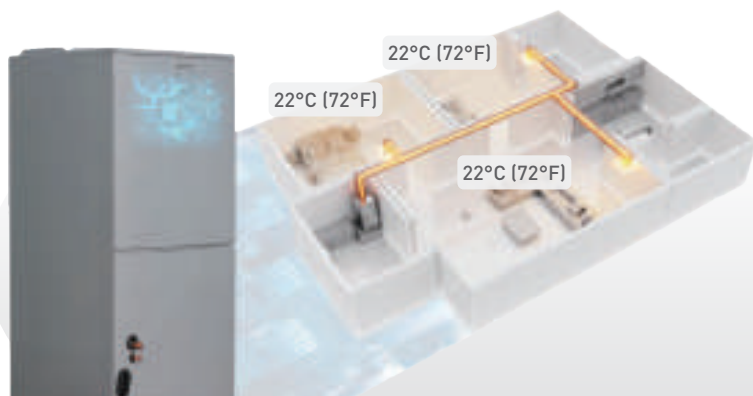


### FAST HEATING AND COOLING

Faster comfort with our advanced compressor activation technology.



# Enjoy Optimal Comfort with the full system set



## ULTRA STABLE ROOM TEMPERATURE

## OPTIMAL AIRFLOW DELIVERY

Computational Constant Airflow.



### Adaptable Heating Combination

#### Combo heat

Auxiliary heat kits available to offer the best heating combination and balance between rapid heating and energy-savings.



### Quiet Operation

#### Inverter technology

As low as 35 dBA with a 1.5 ton air handling unit;  
As low as 59 dBA with a 1.5 ton inverter heat pump.



### Easy Control

#### Wi-fi Control & Dual Control

Easily control the system through simple APP controls or voice commands;  
Compatible with two wired controllers for convenient control on different floors.



# Ingenious Flexibility

There is a solution for  
any climate condition

## 100%

**HEATING OUTPUT**  
down to  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ )  
with COP up to 2.0

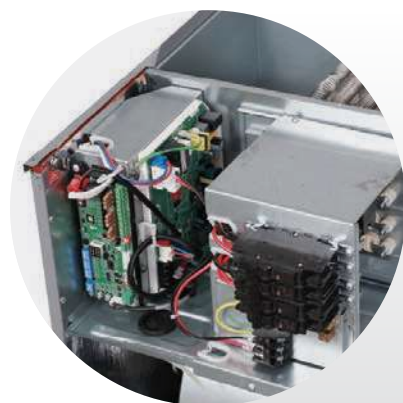
## $-30^{\circ}\text{C}$ ( $-22^{\circ}\text{F}$ )

**CONTINUOUS OPERATION**  
as Cold as  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ )



## Extreme Heat Pump

Panasonic Extreme Heat Pumps are able to deliver 100% heating output at  $-15^{\circ}\text{C}$  ( $5^{\circ}\text{F}$ ), ensuring uninterrupted warmth for moderate winters. For areas that experience extreme cold, Panasonic offers a top-notch solution. The Panasonic Extreme condenser unit is capable of delivering 100% or more heating output down to  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ), also offering superior heating performance down to  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ), outdoor temperatures.



## Auxiliary Heat Kit Combinations

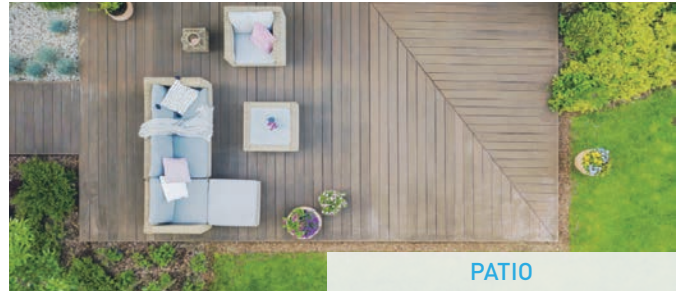
Auxiliary heat kits can be added to the heat pump system, so both the fast and intense heat from the electric heater, and the efficient and stable heat generated by the heat pump can be offered. Programmable control enables customized heat pump to electric heat switch over temperatures, that means customers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

# Compact Size Fits Any Space

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



BACKYARD



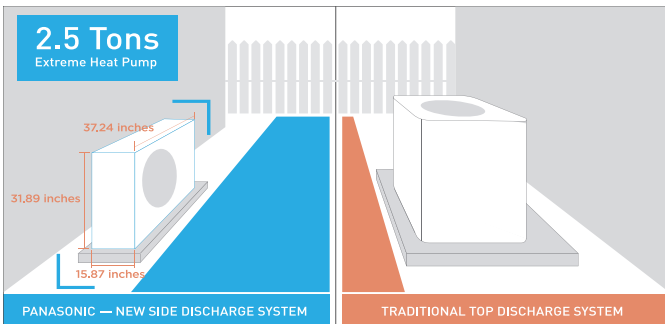
PATIO



ROOF/TERRACE/BALCONY



ZERO LOT LINE



- Fit more in your tech van or truck; 4-5 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.

## Easy to Install & Maintain



**Multi-Position Air Handler**  
Vertical or horizontal flexible installation.



**Slide-Out Fan**  
Easily take out the fan motor for maintenance.



**Magnetic Filler Cover**  
1 Click to replace the standard filter.



**Easy-Access**  
Just remove 2 screws for access to the electrical board, blower and heater.



**Intelligent Diagnostics**  
Easily accessible error code display.



# Hybrid HVAC Solution

## High Efficiency Performance All Year Round

SEER2  
Up To **16.8**

EER2  
Up To **11.7**

HSPF4  
Up To **10**

ENERGY STAR® Cold Climate certified & NEEP certified



Panasonic A-Coil Heat Pump

## Powerful Low-ambient Heating

**80%**

Heating Output  
at **-15°C (5°F)**

Continuous Operation  
as Low as

**-35°C (-31°F)**

## EASY TO ENJOY



### Cooling Season

An inverter Heat Pump can drastically reduce your energy bills by providing high efficiency cooling.

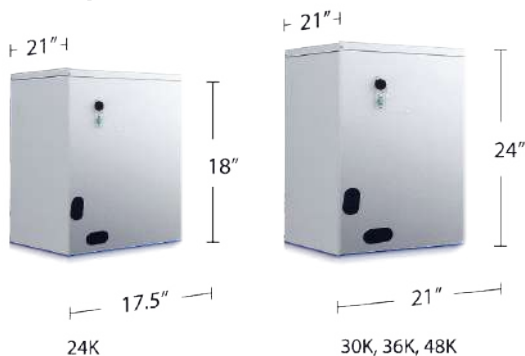
### Heating Season

You can enjoy both reliable & efficient warmth with a combination of gas furnace heating & heat pump heating.

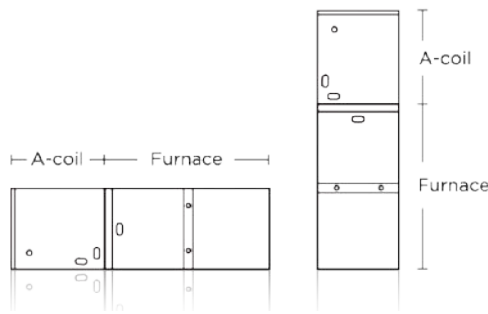


## EASY TO FIT

The Most Complete  
Size Options



The Flexible  
Multipoise Design



Uncased  
and Cased



# HE

# Panasonic Extreme Heat Pump

Model	Indoor Unit		CS-HE18YAHK6	CS-HE24YAHK6
	Outdoor Unit		CU-HE18YAHK6	CU-HE24YAHK6
<b>Performance</b>				
<b>Power Supply</b>		V, Ph,Hz	208~240, 1, 60	208~240, 1, 60
<b>SEER2</b> <small>(AHRI 210/240-2023)</small>	Cooling/Heating Capacity	Btu/h	18 000 / 19 000	24 000 / 24 000
	SEER2	Btu/w	18	17.4
	EER2	Btu/w	12.4	11.7
	HSPF2 4 / 5	Btu/w	9.3 / 7.6	10 / 8
<b>Heating at -15°C (5°F)</b>	Rated capacity	Btu/h	16 500	22 600
	COP	W/W	2.04	1.91
<b>Indoor Unit</b>				
<b>Air Flow Volume</b>	H/M/L	CFM	576 / 529 / 488	758 / 694 / 629
<b>Noise Level</b>	H/M/L	dB(A)	36 / 34 / 32	43 / 40.5 / 35
<b>Net Dimension</b>	W×D×H	mm	534 × 445 × 1143	534 × 445 × 1143
	W×D×H	inch	21.02 × 17.52 × 45.00	21.02 × 17.52 × 45.00
<b>Power Specification</b>	MCA / MOCP	A	16 / 20	19 / 30
	Line Diameter	AWG	12	12
<b>Net/Gross Weight</b>		kg	48 / 58.7	47.9 / 57.8
		lbs	105.82 / 129.41	105.60 / 127.43
<b>Stuffing Quantity</b>				
<b>Stuffing Quantity</b>	20'/40'/40'HO	Indoor Unit	39 / 82 / 154	39 / 82 / 154



CS-HE30YAHK6	CS-HE36YAHK6	CS-HE48YAHK6	CS-HE60YAHK6
CU-HE30YAHK6	CU-HE36YAHK6	CU-HE48YAHK6	CU-E55YAHK6
208~240, 1, 60	208~240, 1, 60	208~240, 1, 60	208~240, 1, 60
30 000 / 33 000	36 000 / 40 000	47 000 / 50 000	55 000 / 59 000
16.2	16	15.6	15.3
9.8	9.8	8.2	8.8
8.9 / 7	9.5 / 7.8	9.4 / 7.7	9.4 / 7.6
24 000	34 400	46 000	48 500
1.77	1.97	1.9	1.91
894 / 805 / 711	1082 / 970 / 864	1282 / 1094 / 905	1582 / 1358 / 1135
43 / 40 / 30.5	46.8 / 44 / 41.3	53 / 50 / 46	52.5 / 49 / 44
534 × 534 × 1245	534 × 534 × 1245	534 × 534 × 1245	534 × 622 × 1346
21.02 × 21.02 × 49.02	21.02 × 21.02 × 49.02	21.02 × 21.02 × 49.02	21.02 × 24.49 × 52.99
23 / 35	41 / 50	42 / 50	NA / 60
10	8	6	6
58.6 / 70.6	58.6 / 70.6	58.6 / 70.6	58.6 / 70.6
129.19 / 155.64	129.19 / 155.64	129.19 / 155.64	129.19 / 155.64
27 / 57 / 57	27 / 57 / 57	27 / 57 / 57	27 / 54 / 54

Extreme Heat Pump

Regular Heat Pump

Air Handling Unit

A-Coil



# Panasonic

## Regular Heat Pump

Model	Indoor Unit		CS-HE18YAHK6	CS-HE24YAHK6
	Outdoor Unit		CU-E18YAHK6	CU-E24YAHK6
<b>Performance</b>				
<b>Power Supply</b>		V, Ph,Hz	208~240, 1, 60	208~240, 1, 60
<b>SEER2</b> <small>[AHRI 210/240-2023]</small>	Cooling/Heating Capacity	Btu/h	18 000 / 19 000	24 000 / 24 000
	SEER2	Btu/w	17	17
	EER2	Btu/w	10.9	10.5
	HSPF2 4 / 5	Btu/w	8.8 / 6.9	9.2 / 7.6
<b>Heating at -15°C (5°F)</b>	Rated capacity	Btu/h	11 000	19 400
	COP	W/W	2.0	2.1
<b>Indoor Unit</b>				
<b>Air Flow Volume</b>	H/M/L	CFM	576 / 529 / 488	758 / 694 / 629
<b>Noise Level</b>	H/M/L	dB(A)	36 / 34 / 32	43 / 40.5 / 35
<b>Net Dimension</b>	W×D×H	mm	534 × 445 × 1143	534 × 445 × 1143
	W×D×H	inch	21.02 × 17.52 × 45.00	21.02 × 17.52 × 45.00
<b>Power Specification</b>	MCA / MOCP	A	16 / 20	19 / 30
	Line Diameter	AWG	12	12
<b>Net/Gross Weight</b>		kg	48 / 58.7	47.9 / 57.8
		lbs	105.82 / 129.41	105.60 / 127.43
<b>Stuffing Quantity</b>				
<b>Stuffing Quantity</b>	20'/40'/40'HO	Indoor Unit	39 / 82 / 154	39 / 82 / 154



Extreme Heat Pump

Regular Heat Pump

Air Handling Unit

A-Coil

CS-HE30YAHK6	CS-HE36YAHK6	CS-HE48YAHK6	CS-HE60YAHK6
CU-E30YAHK6	CU-E36YAHK6	CU-E60YAHK6	CU-E60YAHK6
208~240, 1, 60	208~240, 1, 60	208~240, 1, 60	208~240, 1, 60
30 000 / 33 000	36 000 / 40 000	47 000 / 50 000	55 000 / 59 000
17.3	16.9	15.8	14.7
10.6	10.1	8.8	8.8
8.5 / 6.6	8.2 / 6.1	9.4 / 7.5	8.5 / 6.7
17 800	20 500	36 000	34 600
1.7	1.9	1.95	1.9
894 / 805 / 711	1082 / 970 / 864	1282 / 1094 / 905	1582 / 1358 / 1135
43 / 40 / 30.5	46.8 / 44 / 41.3	53 / 50 / 46	52.5 / 49 / 44
534 × 534 × 1245	534 × 534 × 1245	534 × 534 × 1245	534 × 622 × 1346
21.02 × 21.02 × 49.02	21.02 × 21.02 × 49.02	21.02 × 21.02 × 49.02	21.02 × 24.49 × 52.99
20 / 35	24 / 40	34 / 50	34 / 60
12	10	8	8
58.6 / 70.6	58.6 / 70.6	59.2 / 70.9	73.8 / 86.5
129.19 / 155.64	129.19 / 155.64	130.51 / 156.31	162.70 / 190.70
27 / 57 / 57	27 / 57 / 57	27 / 57 / 57	27 / 54 / 54

# Panasonic

## Air Handling Unit

Series			18K	24K
Panasonic Indoor Unit Model			CS-HE18YAHK6	CS-HE24YAHK6
<b>Power Supply</b>	Rated	V, Ph, Hz	208~240, 1, 60	208~240, 1, 60
<b>Indoor Air Flow (Hi/Mi/Lo)</b>		CFM	576.47 / 529.41 / 488.24	758.82 / 694.12 / 629.41
<b>Indoor Noise Level (Hi/Mi/Lo)</b>		dB(A)	36 / 34 / 32	43 / 40.5 / 35
<b>Eternal Static Pressure (ESP)</b>	Range	In. wc.	0-0.8	0-0.8
<b>Throttle Type</b>		Btu/w	EEV for Cooling	EEV for Cooling
<b>Indoor Unit</b>	Dimension (WxDxH)	inch	21.02 × 17.52 × 45.00	21.02 × 17.52 × 45.00
	Min CKT / Breaker	A	2.5 / 15	4 / 15
	Net/Gross Weight	lbs	105.82 / 129.41	105.60 / 127.43
<b>Refrigerant Piping</b>	<b>Liquid Side/Gas Side</b>	inch	3/8" / 3/4"	3/8" / 3/4"
<b>Drainage Water Pipe Diameter</b>		inch	3/4	3/4
<b>Communication Protocol Between IDU and ODU</b>			RS485+24V	RS485+24V
<b>Thermostat Type</b>	Wireless Remote Controller		Standard	Standard
	Programmable Wired Controller		Standard	Standard
	WiFi		Optional	Optional
<b>Qty. per 20'/40'/40'/ HQ</b>	Indoor Unit		39 / 82 / 154	39 / 82 / 154





Extreme Heat Pump

Regular Heat Pump

Air Handling Unit

A-Coil

30K	36K	48K	60K
CS-HE30YAHK6	CS-HE36YAHK6	CS-HE48YAHK6	CS-HE60YAHK6
208~240, 1, 60	208~240, 1, 60	208~240, 1, 60	208~240, 1, 60
894.12 / 805.88 / 711.76	1082.35 / 970.59 / 864.71	1282.35 / 1094.12 / 905.88	1582.35 / 1358.82 / 1135.29
43 / 40 / 30.5	46.8 / 44 / 41.3	53 / 50 / 46	52.5 / 49 / 44
0~0.8	0~0.8	0~0.8	0~0.8
EEV for Cooling	EEV for Cooling	EEV for Cooling	EEV for Cooling
21.02 × 21.02 × 49.02	21.02 × 21.02 × 49.02	21.02 × 21.02 × 49.02	21.02 × 24.49 × 52.99
4.5 / 15	5 / 15	7.5 / 15	9 / 15
129.19 / 155.64	129.19 / 155.64	130.51 / 156.31	162.70 / 190.70
3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 7/8"
3/4	3/4	3/4	3/4
RS485+24V	RS485+24V	RS485+24V	RS485+24V
534 × 534 × 1245	534 × 534 × 1245	534 × 534 × 1245	534 × 622 × 1346
Standard	Standard	Standard	Standard
Optional	Optional	Optional	Optional
27 / 57 / 57	27 / 57 / 57	27 / 57 / 57	27 / 57 / 57

# Panasonic Auxiliary Heat Module



## ONLY FOR HEAT FUNCTION MODELS

For installations requiring supplemental heating, the optional Electric Auxiliary Heat Module is available in sizes from 3kW to 25kW to accommodate appropriate sizing given the specific heat load and electrical requirements of each installation. Please refer to this table for selection of available sizes of each model, being sure to avoid improper matching.

Model (Btu/h)	3kW	5kW	8kW	10kW	15kW	20kW	25kW
18K	○	○	○	○	×	×	×
24K	×	○	○	○	○	×	×
30K	×	○	○	○	○	×	×
36K	×	○	○	○	○	○	×
48K	×	×	○	○	○	○	×
60K	×	×	×	○	○	○	○

# Panasonic A-Coil Cold Climate



Extreme Heat Pump

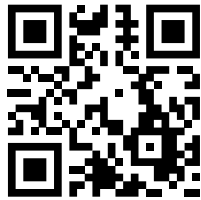
Regular Heat Pump

Air Handling Unit

A-Coil

Model	Indoor Unit		CS-HE24YAC6	CS-HE24YAC6	CS-HE30YAC6	CS-HE36YAC6	CS-HE48YAC6
	Outdoor Unit		CU-HE18YAHK6	CU-HE24YAHK6	CU-HE30YAHK6	CU-HE36YAHK6	CU-HE48YAHK6
<b>Performance</b>							
<b>Power Supply</b>		V, Ph, Hz	208-240, 1, 60	208-240, 1, 60	208-240, 1, 60	208-240, 1, 60	208-240, 1, 60
<b>SEER2</b> <small>(AHRI 210/240-2023)</small>	Cooling/Heating Capacity	Btu/h	18 000 / 19 000	24 000 / 25 000	30 000 / 33 000	36 000 / 39 000	46 000 / 51 000
	SEER2	Btu/w	16.5	16.8	15.5	14.8	14.3
	EER2	Btu/w	11.7	10.7	10.5	9.8	8.6
	HSPF4	Btu/w	9.5	9.5	9.7	10	9
<b>Heating at 5°F (-15°C)</b>	Rated Capacity	Btu/h	15 000	20 000	27 000	32 000	40 000
	COP	W/W	2.20	1.95	1.85	2	1.8
<b>Indoor Unit</b>							
<b>Air Flow Volume</b>	SCFM		550	720	960	960	1015
<b>Net Dimension</b>	WxDxH	mm	445 × 533 × 457	445 × 533 × 457	533 × 533 × 609	533 × 533 × 609	533 × 533 × 609
	WxDxH	inch	17.52 × 20.98 × 17.99	17.52 × 20.98 × 17.99	20.98 × 20.98 × 23.98	20.98 × 20.98 × 23.98	20.98 × 20.98 × 23.98
<b>Packing Dimension</b>	WxDxH	mm	505 × 650 × 490	505 × 650 × 490	595 × 650 × 645	595 × 650 × 645	595 × 650 × 645
	WxDxH	inch	19.88 × 25.59 × 19.29	19.88 × 25.59 × 19.29	23.43 × 25.59 × 25.39	23.43 × 25.59 × 25.39	23.43 × 25.59 × 25.39
<b>Net/Gross Weight</b>			kg	19.4 / 23.6	19.4 / 23.6	30.2 / 35	30.2 / 35
			lbs	42.77 / 52.03	42.77 / 52.03	66.58 / 77.16	66.58 / 77.16

# NORDICS



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# Panasonic

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