

American Standard

WATER HEATERS

Residential Electric Heat Pump Water Heater



**PREMIUM ENERGY
EFFICIENCY - 2.6 EF**

**Four Operating Modes:
AUTOMATIC
ECONOMIC
ELECTRIC
VACATION**

**10 YEAR TANK & PARTS
WARRANTY**

SETTING THE NEW STANDARD



- Environment friendly refrigerant R134a.
- No discharge of harmful gas.
- Reduces emissions that pollute atmosphere.

R134a refrigerant

American Standard Water Heaters Residential Electric Heat Pump Water Heaters do not contain harmful ozone-depleting emissions

Environment refrigerant technology

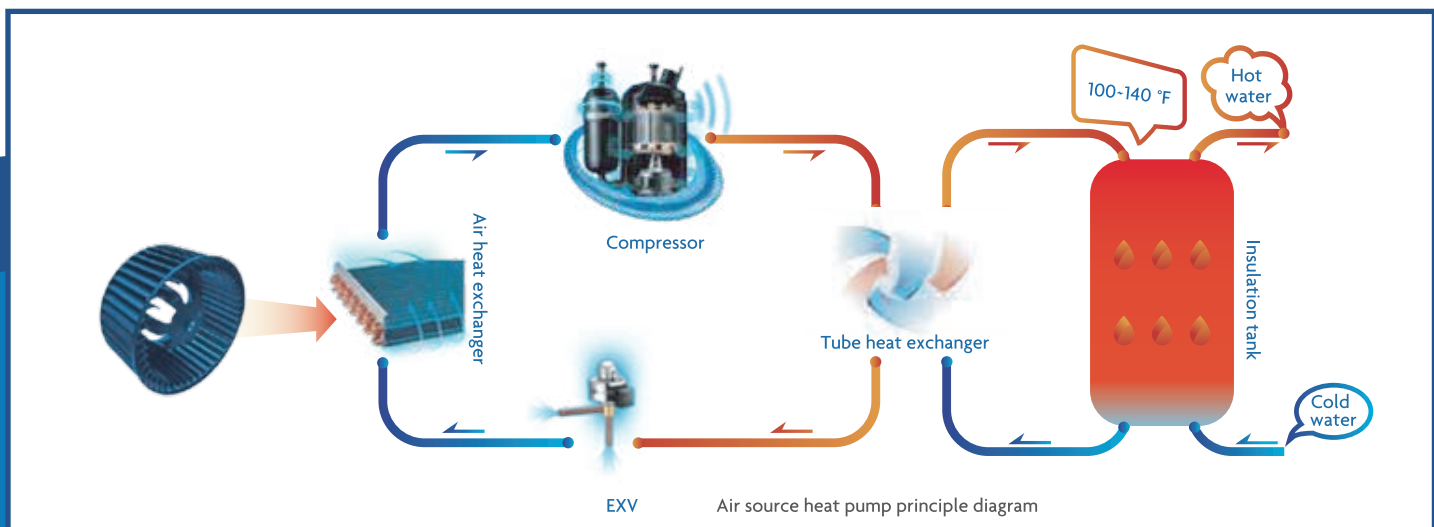
High efficiency operation results in energy & cost savings

Reducing CO² emissions

R134a refrigerant

Controls the emissions of waste refrigerant gas exhausted into the atmosphere

Reducing the negative effects caused by refrigerant gas exhausted into the atmosphere



Safety

- Complete isolation between water and electricity without electric shock problem.
- Absence of flammable vapors eliminates potential dangers including fire, explosion, etc...
- No cross contamination potential; the condenser coil is wrapped around the enamel inner tank.
- Temperature and Pressure Relief (TPR) valve and Temperature Cut Off (TCO) provides built-in safety features and peace of mind!
- American Standard Residential Electric Heat Pumps capitalize on the heat from the ambient air surrounding the unit and transfer it to the water via compressor and heat exchanger mounted on top of the storage tank. By utilizing the heat from the surrounding air, these units do not rely so heavily on the heating elements making them extremely energy efficient.

Vacation Mode

- Vacation mode is perfect for extended periods of time where the demand for hot water will be low.
- Ideal for vacations, long weekends, and rental properties.
- This mode allows the user to decrease the hot water demand, thereby saving energy and money.

Installation

- Easy installation. Simply connect domestic cold water inlet, and hot water outlet.
- 2.2 PSI external static pressure enables air discharge duct to run up to 16 ft.

Easy Clean Filter

The air filter has a built-in sensor that reminds the user when the filter requires maintenance or cleaning. When the filter needs to be cleaned, a light will illuminate on the control panel notifying the user that maintenance is required.

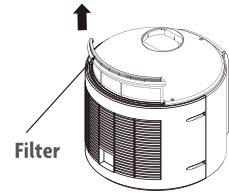
The Filter can easily be removed by lifting the plastic flange at the top of the unit and lifting directly upward. Upon removal, this filter can be cleaned with compressed air or water. Once dry, simply slide the filter back into place from the top of the unit.



Versatile Storage Options

This hybrid Heat Pump Water Heater system operates in a diverse range of temperatures ranging from -5° F to 130° F. This versatility allows these units to be installed in areas throughout the country within these temperature ranges.

(**individual FHR may vary depending in domestic ground water input temperatures**)



Residential Electric Heat Pump Specifications

Model Number		HPWH50G-AS			
Format		Economy		Auto	E-Heater
Running Ambient Temperature		°F/Deg C	45-120 (7-48)	45-120	-5-130 (-20-55)
Outlet Water Temperature		°F/Deg C	Default 125°F, 100°F-140°F (38-60 Default 50)		
Power Supply		Ph-V-Hz	1-208-240-60		
Storage Size/Water Tank Vol. Liters (Gal)		Ltr	190L (50.19 Gal)		
Water Heating	Heating Capacity	kW	1.50	1.50	4.50
	Heating Power Input	kW	0.40	0.40	4.50
	Max. Power Input	kW	0.80	5.00	4.50
	EF		2.6	2.55	0.85
	FHR	US GAL	62.00	65.00	62.00
	Heating Current Input	A	1.80	1.80	21.00
	Starting Current	A	10.20	10.20	21.00
	Max. Current Input	A	6.50	24.00	21.00
	COP (Heating Cap./H. Power Input)	W/W	3.75	3.75	0.90
Ambient Temperature		°F/Deg C	-5-130°F		
Tank Unit	Net Dimension (D×H)	In	22" x 69 5/16"		
	Packing Dimension (W×H×D)	In	27 5/16" x 76" x 27"		
	Net Weight	Lbs	225 Lbs		
	Gross Weight	Lbs	275 Lbs		
	Hot Water Outlet	Lbs	Economy: 8.52 Gal / Hr ; E-Heater: 25.5 Gal / Hr		
	Additional Electrical Heater Capacity	Gal/Hr	4.5		
	Additional Electrical Heater Current	A	21		
Noise Level		dB(A)	48		
Refrigerant Type/Quantity		kg	R134a/0.8		
Refrigerant Design Pressure		PSIA	331/86 at Ambient 70°F		
Tank Design Pressure		PSI	150		
Materials	Tank Outer		Powder Coated		
	Tank Inner		Enamel		
	Split Housing		Powder Coated		
	Throttling Type		Electric Expansion Valve		
System Protection			TCO, TDO, PT Valve, High Pressure Protector, Overload Protector Temperature, Electric Leakage Protector, Etc.		
Air Flow		m³/h	370/280/200		
Compressor	Model		H092C6RFAAC2		
	Type		Rotary		
	Brand		Panasonic		
	Input	kW	0.55		
Fan Motor	Model		YDK12-4H		
	Brand		Welling		
	Input	w	30		
	Speed	r/min	970/750/550		
Water Pipeline	Water Inlet Pipe		NPT 3/4		
	Water Outlet Pipe		NPT 3/4		
	Drainage Pipe		NPT 3/4		
	PT Valve Joint		NPT 3/4		
	Maximum Pressure	MPa	1.0		
Heat Exchanger			Dividing Wall Type Heat Exchanger		
Measurement/ Test Conditions	E-Heater	kW			
	Outdoor Ambient Temperature	°F/Deg C	67.5°F		
	Water Inlet Temperature	°F/Deg C	58°F		
	Water Outlet Temperature	°F/Deg C	135°F		
Certification	AHRI		Yes		
	Energy Star		Yes		
	UL		Yes		
Loading Quantity	20/40/40H	Pcs	24/51/51		

GPH Recovery Capacities	Watts 4500	
	40°F	46
	50°F	37
	60°F	31
	70°F	26
	80°F	23
	90°F	20
	100°F	18



SPECIFICATIONS					DIMENSIONS IN INCHES					
MODEL NUMBER	GALLON CAPACITY	WATER CONNECTION	R FACTOR	JACKET DIAM.	COLD WATER INLET	HOT WATER OUTLET	TOP OF HEATER	TPR VALVE	TOP OF DISPLAY	APROX. SHIP WGT (LBS)
					A	B	C	D	E	
HPWH50G-AS	50.2	3/4 NPT	24	22"	26 3/4"	40 3/4"	69 5/16"	40 3/4"	57"	255

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**AMERICAN STANDARD WATER HEATERS®
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