

LG INVERTER HEAT PUMP WATER HEATER

RESIDENTIAL

LG Air Conditioning Technologies

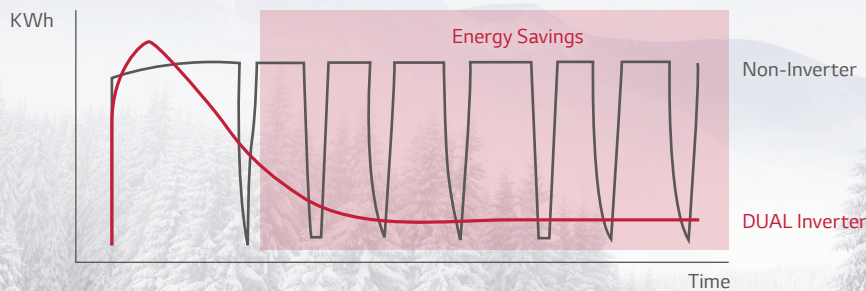


LG INVERTER HEAT PUMP WATER HEATER

What is the LG Inverter Heat Pump Water Heater?

LG's Inverter Heat Pump Water Heater is an energy-efficient alternative to electric resistance or gas water heaters. LG inverter technology heats water with an efficiency of 3.93¹ and 3.90² uniform energy factor (UEF) at a noise level of just 42 dB(A)¹ and 45 dB(A)² about the sound level of a quiet library, which is lower than a typical heat pump water heater.

Power Consumption Change



About LG Electronics USA

LG Electronics USA, Inc., based in Englewood Cliffs, N.J., is the North American subsidiary of LG Electronics, Inc., a \$68 billion global innovator in technology and manufacturing. In the United States, LG sells a wide range of innovative home appliances, home entertainment products, commercial displays, air conditioning systems, energy solutions and vehicle components. LG is a 2022 ENERGY STAR® Partner of the Year-Sustained Excellence. The company's commitment to environmental sustainability and its "Life's Good" marketing theme encompass how LG is dedicated to people's happiness by exceeding expectations today and tomorrow.

www.LG.com.

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¹Model APHWC501M

²Model APHWC801M



What is LG Inverter Technology?

Inverter technology changes motor and compressor speeds freely. Just like the “natural breeze” function on fans, inverter technology allows a fan to go faster for a moment, and then slow down the next moment. Inverters change the power provided to a compressor and motor through voltage and frequency to switch their speeds at any time. This enables both powerful output and delicate control, making it possible to spend the minimum amount of energy necessary for the operation without any waste. Inverter technology is also quieter and more energy efficient than traditional HVAC products.

LG Inverter Heat Pump Water Heater

BENEFITS

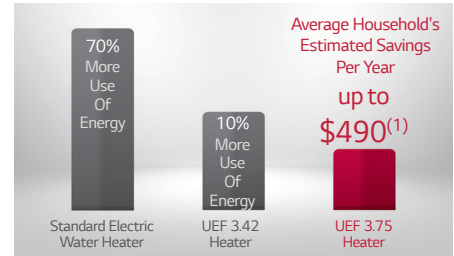
INVERTER TECHNOLOGY



Energy Efficiency

The LG Inverter Heat Pump Water Heater uses a DUAL Inverter Compressor achieving UEF 3.90.

1) Estimated energy cost savings per year compared to the estimated annual operating cost of a standard electric water heater of like capacity manufactured before 2015 - "National Appliance Energy Conservation Act". Current ENERGY STAR® minimum UEF requirement is 3.3.



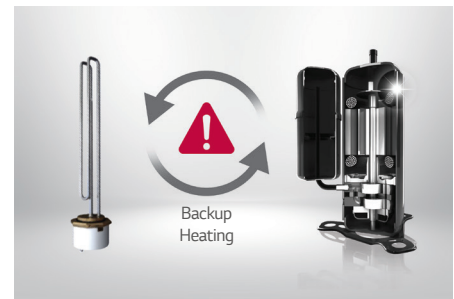
Low Noise Operation 42dB(A)

Through Brushless Direct Current (BLDC) Motor and DUAL Inverter Compressor, noise is reduced to 42dB(A) and provides a comfortable environment even with indoor installation.



Backup Heating

The Inverter Heat Pump Water Heater has two heat sources - a heater and a heat pump - which complement each other. If one of the heating elements fails, the other heat heating element will provide backup heating.

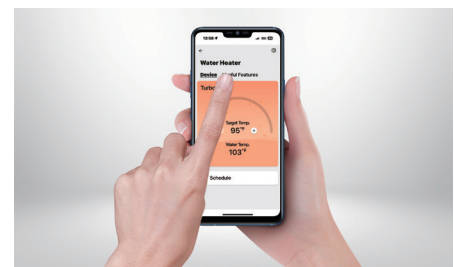


SMART CONTROL



Easy Control

The Inverter Heat Pump Water Heater can be managed remotely using the ThinQ app as part of a whole-home control for LG HVAC, appliances and electronics.



Part Replacement Notification (Mobile)

The LG ThinQ app reminds you not to forget when to check your product. (filter cleaning, water tank drain, anode rode, etc.)



PRODUCT DURABILITY



True Durability

Enamel coating inside water tank provides 10 years of corrosion resistance based on the Germany Ceramic Standard DIN 4753.



Limited Warranty

One Year Parts / Ten Year Water Tank and Compressor Limited Warranty (does not include labor). Full limited warranty terms are available at <https://www.lghvac.com/resources/>.



DESIGN



Convenient Installation

Ease of installation by designing inlet and outlet piping connections in one direction. Wire connections are easily made to the junction box.



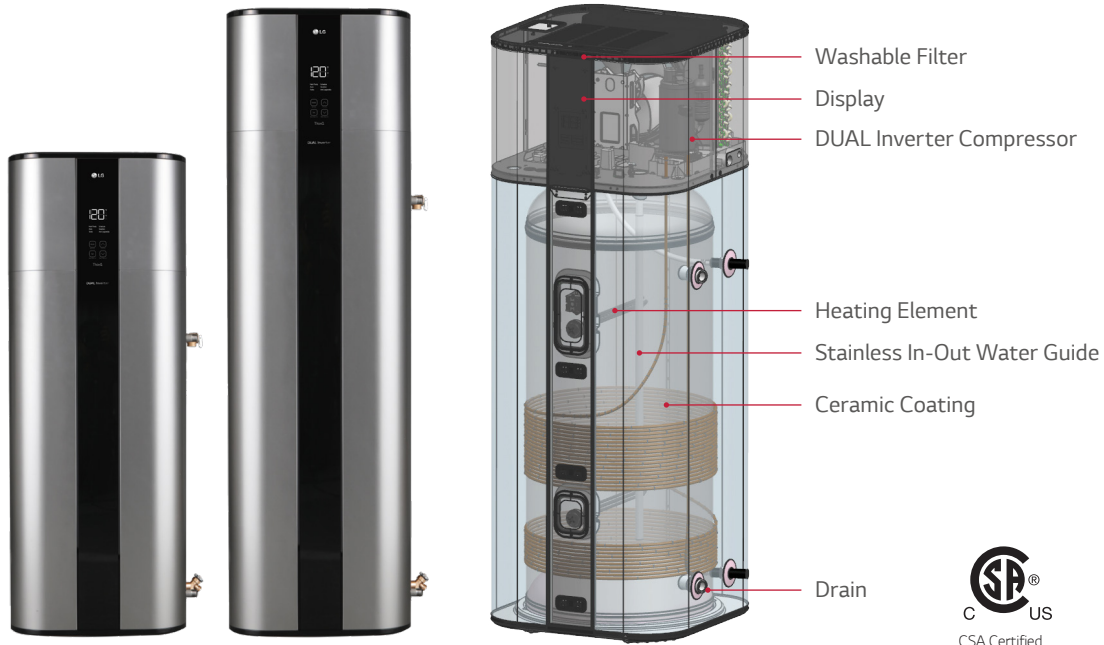
Differentiated Design

The LG design and luxury silver color make it an excellent design for the interior of the home.





Specification



ENERGY STAR Certified
Model: R5TT20F-SA0
ID: 2404839

			APHWC501M	APHWC801M
Water Tank Capacity	Nominal	Gallon	58	80
	Rated	Gallon	53	72
UEF ¹ (Uniform Energy Factor)			3.93	3.90
FHR (First Hour Rate - Standard)		Gallon	76	94
Compressor (Operation Capacity)		W	DUAL Inverter (650 - 1,950)	
Ambient Operating Range		°F	23 - 120	
Noise		dB(A)	42 - 45	
Limited Warranty			1 year Parts - 10 years Water Tank and Compressor (does not include labor)	
Power Input	Upper Element	kW	5	
	Lower Element	kW	5	
Power		V, Hz, Ø	208/240, 60, 1	
Dimensions		Net Inches	22-27/32 X 63-31/32 X 22-29/32	22-27/32 X 79-1/16 X 22-29/32
Smart ² (Wi-Fi)			LG ThinQ	

Note: ¹US Water Heater Energy Efficiency (at auto mode)

²LG ThinQ Main Function

- Operation mode (Auto, Heatpump, Turbo, Vacation, Schedule), Temperature setting
- Monitoring hot water temperature
- Maintenance point alarm (Filter, Anode Rod, etc.)

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For the most up-to-date list of ENERGY STAR® models, visit the AHRI Directory at ahridirectory.org.

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Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www.energystar.gov.

LG Electronics USA, Inc.

Air Conditioning Technologies

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