







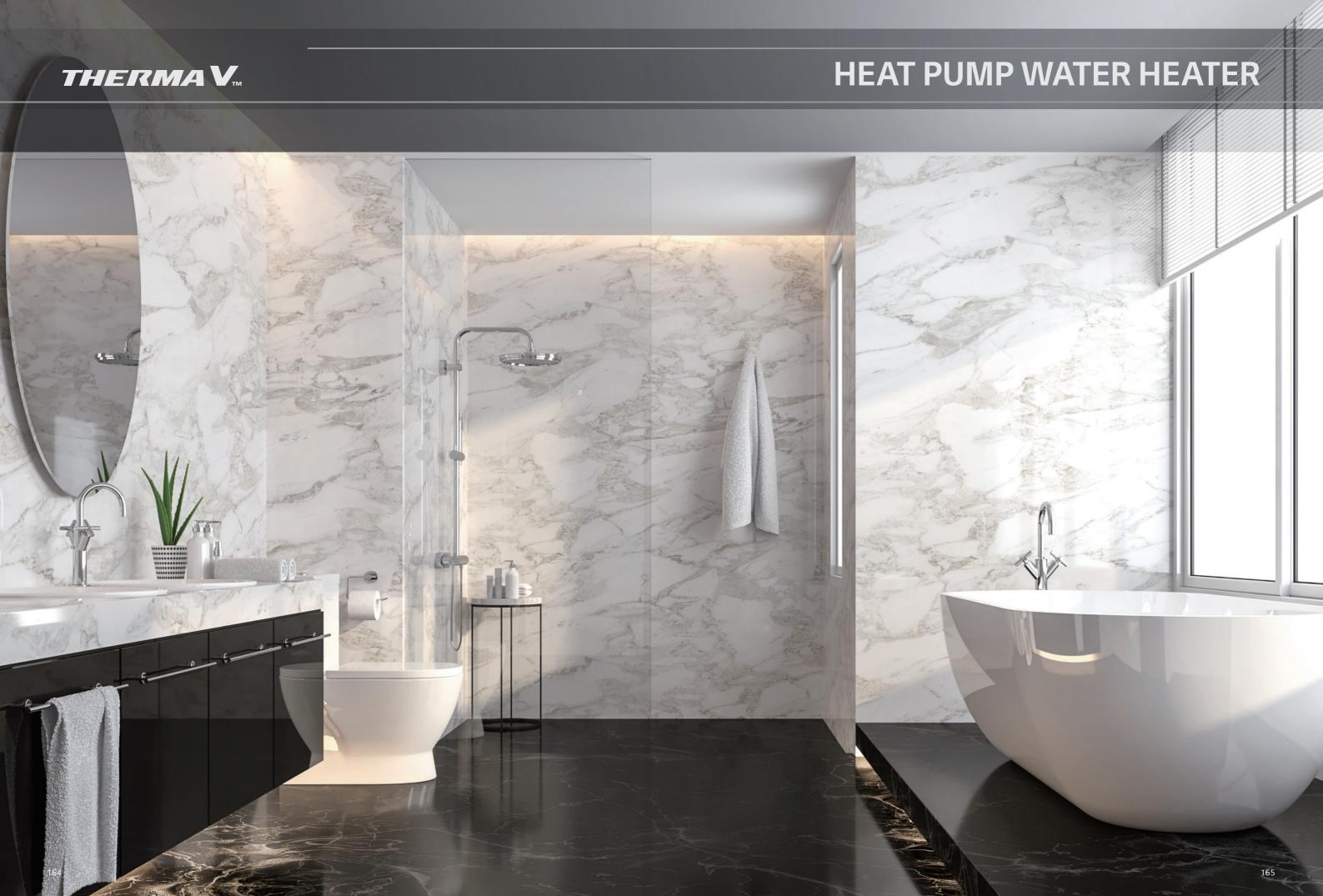






* This figure is the result of LG internal test compared to the electric heater, so it may differ from actual operation.





Stylish Design

LG unit's exclusive square shape and luxury silver color make it an excellent fit for any interior design.

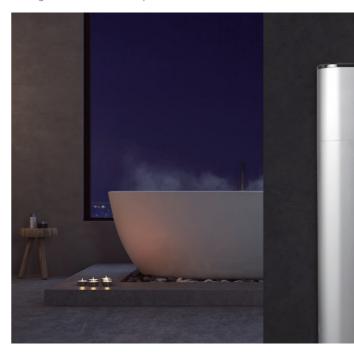


Perfect matching with various spaces



Top Class Energy Efficiency

LG's new Inverter Heat Pump Water Heater with the highly efficient DUAL Inverter Compressor allows for impressive energy savings of over 70 % compared to a conventional electric heater.



Energy saving

Benefiting from the market's first DUAL Inverter Compressor, LG's Heat Pump Water Heater can run at low rotational speed (up to 10 Hz), reducing energy consumption by 70 % more than an electric water heater (250 *l*, C class).

Average estimated energy consumption savings per year



* Simulation data on daily electricity consumption, based on EU climate conditions (average, 15°C).

* The data are based on LG internal simulation. % The data are depending on the experimental conditions and is changeable according to the usage environment SPLIT

WATER HEATER

ACCESSORIES

A**

Over

Energy saving



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Powerful Heating Performance

The DUAL Inverter Compressor maximizes the heat pump's power in turbo mode for a 30 % faster heating time for first-use water than in auto operation mode.



Fast & powerful water heating

Turbo mode can run at high speeds (up to 80 Hz) with simultaneous heating. The target water temperature in the tank will be achieved 30 % faster in turbo mode than in in use auto mode or auto mode in one hour of operation starting from an empty tank. Furthermore, turbo mode can recover the water at 25 % warmer temperatures than in use auto mode or auto mode in one hour of operation starting from an empty tank.

* The data are based on LG internal tests and simulations.

* The data depend on the experimental conditions and are changeable according to the usage environment.

Continuous operation

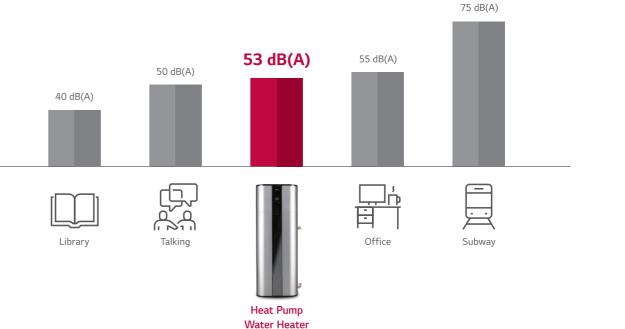
The two heat sources, two heaters and a heat pump complement each other perfectly. If the heat pump or one of the heaters fails, the other heat source allows alternative operation.



Low Noise Operation

environment even in indoor installation scenes.





**** Sound pressure is 38 dB(A) based on LG internal test. **** The data are based on LG internal test (sound power).

* The data are based on LG internal tests and simulations.

% The data are depending on the experimental conditions and is changeable according to the usage environment.

INTRODUCTION

THERMA V FEATURES

MONOBLOC

HYDROSPLIT

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Through BLDC motor and DUAL Inverter Compressor, noise is reduced to 53 dB(A) (sound power) and provides a comfortable

ACCESSORIES

Various Operation Mode

LG Inverter Heat Pump Water Heater can be operated in four different modes for different conditions.



Using basic control

Display screen

r----

Operation



	Button	Display screen	Description
	Mode	Heat pump	To select the heat pump mode
		Auto	To select the auto mode
		Turbo	To select the turbo mode
		Vacation	To select the vacation mode
Heat Pump Schedule Auto Vacation Turbo Anti Legionella	-	Schedule	Set schedule mode only in LG ThinQ application
L	-	Anti legionella	To select the anti legionella mode
2 Display screen	Set	-	To set the desired water temperature
Mode	$\bigcirc \bigtriangledown$		To adjust the desired water temperature
Wi-Fi (3s) 'F/'C (3s)	Wi-Fi (3s)	•))	To enable the Wi-Fi pairing
(Set) (∨)	Reset Filter (3s)	Ŕ	To reset the filter alarm
Reset Filter (3s) Water Temp (3s)	°F/°C (3s)	°F °C	To change unit between °F and °C
1 Button	Water Temp (3s)		To display the current water temperature for 5 seconds

Smart Control

With the LG ThinQ smartphone app, users can easily control and monitor the heat pump, checking for current water temperatures, setting operating schedules and more.



Embedded Wi-Fi

You can control the LG ThinQ app, checking information such as current water temperature, operating mode and more.

Smart diagnosis

Smart diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.

Easy check & monitoring

Easily comprehensible error messages make detecting a solution and contacting the service center simple and convenient.

THERMA V FEATURES

MONOBLOC

Water Heate Heat Pump > Terget Terra



powered by DUAL Inverter Compressor

LG's DUAL Inverter Compressor™ - exceptional in the market - saves energy with a wide power-saving operating range and produces efficient heating, performing quietly even in max operation mode. This technology allows the inverter compressor to achieve superior energy efficiency, cooling performance and comfort compared to compressors with on-off capabilities which is rare for monobloc heat pump water heaters.



Varied-speed dual rotary

A compressor motor has a wider energy efficient rotational frequency and a higher volumetric quick cooling capacity compared to a conventional non-inverter compressor.

Product reliability improvement

As twin rotaries balance each other while they are rotating with high speed, it reduces noise dramatically compared to a shaking single rotary compressor. The reduction in vibration reduces the possibility of fractures occurring in the surrounding pipework.

The data are based on LG internal test and simulation.
The data depend on the experimental conditions and are changeable according to the usage environment

Benefit & verification

Reliable air conditioner

The product safety is guaranteed with a 10-year warranty offered to customers.



Verification TUV Rheinland, long term accelerated-reliability test & high marginal test TÜVRheinlan



% Long term accelerated-reliability test LG's unique testing method with reinforced operating condition for a product life assurance to test and determine the product life cycle in a short period of time by accelerating the life cycle. * High marginal test

Test method to secure durability in various adverse conditions that may occur in the field by performing compressor reliability test against higher pressure and temperature than the designed range of pressure and temperature which the compressor operates in. * Verification obtained from TUV rheinland for 10-year product life cycle.

Quick & Easy Installation

The machine's one-direction inlet and outlet piping and easy-to-connect wires in the junction box allow for quick and easy installation. Furthermore, the LG ThinQ app provides service alarm and self diagnosis programs for convenient maintenance.



10-year warranty

The core parts of heat pump water heaters such as water tank and compressor are certified for 10-year durability by TUV rheinland. ceramic coating inside the water tank meets Germany ceramic standard DIN 4753 and guarantees 10 years of corrosion resistance.



* Other parts warranty may vary according to after sales service condition





WATER HEATER

MONOBLOC

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Product specification

Sales model WH20S				
Factory model			R5TT20F-SA1	
Capacity	Volume (nominal)	l	200	
Energy efficiency 1)	COP (7°C / 15°C)		3.30 / 3.50	
Energy consumption	Annual energy consumption (7°C / 15°C)	kWh	756 / 709	
oad profile			Large	
	Upper element wattage (230 V)	kW	2	
Power input	Lower element wattage (230 V)	kW	2	
Energy efficiency class (7°C / 1	5°C)	-	A+ / A+	
Power supply		V, Ø, Hz	230 / 1 / 50	
vailable voltage range		V	195 ~ 265	
Dperating mode			Turbo / Auto / Heat pump / Vacation / Anti legionella	
	H/M	m³/min	6.7 / 4.4	
Air flow rate	H/M	CFM	236.6 / 155.4	
Sound pressure level	Auto	dB(A)+3	38	
ound power level		dB(A)	55	
Dimensions	Net (W x H x D)	mm	580 x 1,625 x 582	
Veight	Net	kg	100	
Iominal insulation thickness	Min. / Max.	mm	40 / 80	
Heat pump operation range Min. / Max.		°C DB	-5 / 48	
xterior color code		-	Luxury silver	
	Туре	-	Inverter twin rotary	
	Warranty	Year	10	
Compressor	Manufacturer	-	LG Electronics	
	Motor output	W	510	
	High side	-	2.0 MPa / 290 PSI	
Design pressure (system)	Low side	-	0.9 MPa / 130.5 PSI	
/lax. working pressure (water t	ank)	-	150 PSI (1,034 kPa)	
Circuit breaker	,	A	15	
Condensate water connection	I.D	mm	19, 12.7	
/40 (Mixed water at 40°C)		l	260	
	Туре	-	R134a	
	Pre charge	kg	0.650	
Refrigerant	GWP		1,430	
	t-CO ₂ eq		0.930	
Defrost method		-	Reverse cycle	
Anode			Impressed current cathodic protection	
T&P relief valve		-	Yes	
Water connection location		_	side	
Water connection size		inch	G ¾ M	
		-	Yes	
Digital display Wi-Fi (LG ThinQ) ²⁾			Yes	
Tank warranty		Year	10	

1) Water heater energy efficiency (at auto mode)

2) ThinQ main function

- Operation mode (auto. heatpump, turbo, vacation, schedule), temperature setting - Monitoring hot water temperature

- Maintenance point alarm (filter, anode rod, etc.)

* This product contains fluorinated greenhouse gases (R134a).

GWP: Global Warming Potential
t-CO₂eq: F-gas (kg)*GWP/1000
Specification, design and feature are subject to change without prior notice.

Product specification

Sales model			WH27S	
Factory model			R5TT27F-SA0	
Capacity	Volume (nominal)	l	270	
Energy efficiency 1)	COP (7°C / 15°C)		3.45 / 3.85	
Energy consumption	Annual energy consumption (7°C / 15°C)	kWh	712 / 646	
Load profile			Large	
	Upper element wattage (230 V)	kW	2	
Power input	Lower element wattage (230 V)	kW	2	
Energy efficiency class (7°C / 1	5°C)	-	A+ / A++ ²⁾	
Power supply		V, Ø, Hz	230 / 1 / 50	
Available voltage range		V	195 ~ 265	
Operating mode			Turbo / Auto / Heat pump / Vacation / Anti legionella	
	H/M	m³/min	6.7 / 4.4	
Air flow rate	Н/М	CFM	236.6 / 155.4	
Sound pressure level	Auto	dB(A)+3	38	
Sound power level		dB(A)	55	
Dimensions	Net (W x H x D)	mm	580 x 2,008 x 582	
Weight	Net	kg	119	
Nominal insulation thickness	Min. / Max.	mm	40 / 80	
Heat pump operation range Min. / Max.		°C DB	-5 / 48	
Exterior color code		-	Luxury silver	
	Туре	-	Inverter twin rotary	
~	Warranty	Year	10	
Compressor	Manufacturer	-	LG Electronics	
	Motor output	W	510	
	High side	-	2.0 MPa / 290 PSI	
Design pressure (system)	Low side	-	0.9 MPa / 130.5 PSI	
Max. working pressure (water t	ank)	-	150 PSI (1,034 kPa)	
Circuit breaker		A	15	
Condensate water connection	I.D	mm	19, 12.7	
V40 (Mixed water at 40°C)		l	360	
	Туре	-	R134a	
	Pre charge	kg	0.750	
Refrigerant	GWP		1,430	
	t-CO₂ eq		1.073	
Defrost method		-	Reverse cycle	
Anode			Impressed current cathodic protection	
T&P relief valve		-	Yes	
Water connection location		-	side	
Water connection size		inch	G 3⁄4 M	
Digital display		-	Yes	
Wi-Fi (LG ThinQ) ²⁾		-	Yes	
Tank warranty		Year	10	

 Water heater energy efficiency (at auto mode)
Energy label marked A+ and more than COP 3.75 in EU standard is A++ 3) ThinQ main function

- Operation mode (auto. heatpump, turbo, vacation, schedule), temperature setting

Monitoring hot water temperature
Maintenance point alarm (filter, anode rod, etc.)

* This product contains fluorinated greenhouse gases (R134a).

* GWP: Global Warming Potential

% t-CO2eq: F-gas (kg)*GWP/1000

* Specification, design and feature are subject to change without prior notice.

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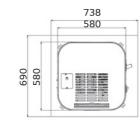
WATER HEATER

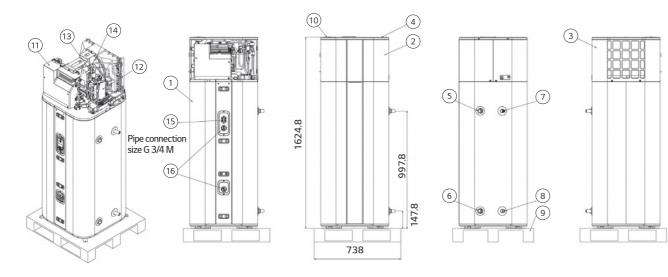
SPLIT

Drawings

Category	Model name		
	Capacity (DWH tank volume)		
	200 ℓ	270 ℓ	
1 Phase model 230 V, 1 Ø, 50 Hz	WH20S	WH27S	

WH20S

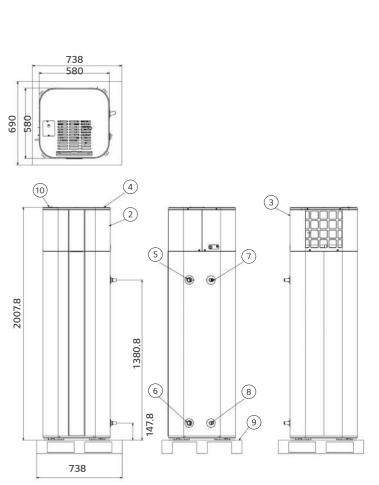




No.	Part name	Description	
1	Water tank	200 l	
2	Front panel	-	
3	Rear panel	-	
4	Top cover	-	
5	T/P valve	210 °F / 99 °C 3/4 NPT	
6	Drain valve	3/4 NPT	
7	Outlet pipe	Water out, 3/4 NPT	
8	Inlet pipe	Water in, 3/4 NPT	

No.	Part name	Description	
9	Wooden pallet	-	
10	Junction cover	Power input	
11	C/B case	-	
12	Compressor	EST092MBA	
13	Motor	43 W	
14	Fan propeller	290 Ø	
15	ECO	Emergency cut off (77°C)	
16	Heater	2 EA, 2000 W+2000 W, 220 ~ 240 V	

WH27S



No.	Part name	Description	No.	Part name	Description
1	Water tank	270 l	9	Wooden pallet	-
2	Front panel	-	10	Junction cover	Power input
3	Rear panel	-	11	C/B case	-
4	Top cover	-	12	Compressor	EST092MBA
5	T/P valve	210 °F / 99 °C 3/4 NPT	13	Motor	43 W
6	Drain valve	3/4 NPT	14	Fan propeller	290 Ø
7	Outlet pipe	Water out, 3/4 NPT	15	ECO	Emergency cut off (77°C)
8	Inlet pipe	Water in, 3/4 NPT	16	Heater	2 EA, 2000 W+2000 W, 220 ~ 240 V

[Unit: mm]

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