




1. Model line up

Category	Picture	Water Tank Volume [L]	Model Name
Heat Pump Water Heater		100	R6TS10H-EA0 [WH10ESF0.HA]
		150	R6TS15H-EA0 [WH15ESF0.HA]
		200	R6TS20C-EA0 [WH20ESF0.CA]

2. Specifications

Model Name		Unit	R6TS10H-EA0 [WH10ESF0.HA]	R6TS15H-EA0 [WH15ESF0.HA]
Capacity	Volume(Nominal)	L	100	150
	COP(7°C)_COP	-	2.70 (A+)	2.95 (A+)
	COP(7°C)_Daily electrical energy consumption	kWh	2.214	3.853
	COP(7°C)_V40	L	110	173
	COP(15°C)_COP	-	-	-
	COP(15°C)_Daily electrical energy consumption	kWh	-	-
	COP(15°C)_V40	L	-	-
	Load Profile	-	Medium	Large
	Annual Energy Consumption(AEC) (15°C / 7°C)	kWh	438(7°C)	812 (7°C)
Power Input	Upper Element (230V)	W	1,200	1,200
	Lower Element (230V)	W	-	-
	Heat Pump	W	370	370
	Max.	W	1,570	1,570
Annual Energy Consumption(AEC) (15°C / 7°C)		-	438(7°C)	812 (7°C)
Power Supply		∅, V, Hz	1, 230, 50	1, 230, 50
Available Voltage Range		V	195 ~ 265	195 ~ 265
Air Flow Rate	High/Low	CMM	3.6	3.6
Fan Speed	High/Low	RPM	900	900
Sound Pressure Level	Auto	dB(A)	38.0	38.0
	Turbo/Heat Pump	dB(A)	38.0	38.0
Sound Power Level	Outdoor / Indoor	dB(A)	49.0 / 45.0	49.0 / 45.0
Dimensions	Net(W x H x D)	mm	540 × 1,280 × 565	540 × 1,620 × 565
	Shipping(W x H x D)	mm	580 × 1,447 × 630	580 × 1,787 × 630
Weight	Net	kg	64	75
	Shipping	kg	82	94
Operation Range	Heating	°C DB	-7 ~ 48	-7 ~ 48
Exterior Color (Code)		-	Essence white (RAL 9003)	Essence white (RAL 9003)
Compressor	Type	-	Constant speed rotary	Constant speed rotary
	Model	-	WHP00950PSV	WHP00950PSV
	Motor Type	-	PSC	PSC
	Locked Rotor Ampere(LRA)	A	7.3 (240V/50Hz)	7.3 (240V/50Hz)
	Oil Type	-	P-60M or equivalent	P-60M or equivalent
	Oil Charge	cc	150 ± 20	150 ± 20
	Manufacturer / Country of Origin	-	Highly / China	Highly / China
Fan	Type	-	Centrifugal fan	Centrifugal fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	15	15
Heat Exchanger	Quantity	EA	1	1
	Rows x Columns x FPI	-	2 x 17 x 16	2 x 17 x 16
Design Pressure(System)	High Side	kPa	3,000	3,000
	Low Side	kPa	1,500	1,500
Max Working Pressure(Water Tank)		kPa	800	800
Recommended circuit breaker (ELCB)	Heat Pump & Heater	A	16	16
Wiring Connections	Power Supply Cable(included Earth)	mm ² × cores	1.5 x 3C	1.5 x 3C
Drain Hose Size	I.D	mm	15	15

2. Specifications

Model Name		Unit	R6TS10H-EA0 [WH10ESF0.HA]	R6TS15H-EA0 [WH15ESF0.HA]
Refrigerant	Type	-	R290	R290
	Pre Charge	g	148	148
	Additional Charge	g/m	-	-
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve
	t-CO2 eq.	-	0.000444	0.000444
	GWP	-	3	3
Defrost Method		-	Reverse Cycle	Reverse Cycle
Anode		-	ICCP + Mg Anode	ICCP + Mg Anode
Foam Insulation		mm	50	50
T&P Relief Valve		-	P valve	P valve
Water Connection Location		-	Bottom	Bottom
Water Connection Size		inch	G 1/2	G 1/2
Digital Display		-	O	O
Wi-Fi		-	O	O
SG Ready		-	O	O

Note

1. - : No Relation
2. For Circuit Breaker Rating, please conform to local standards whenever necessary.
3. Some specifications may be changed without notifications due to out policy of innovation.
4. Test conditions are based on EN16147 and EN12102.
5. COP at Air 7°C water 10°C with duct.
COP at Air 15°C water 10°C without duct.

3. List of functions

Category	Functions	Description	R6TS10H-EA0 [WH10ESF0.HA] R6TS15H-EA0 [WH15ESF0.HA] R6TS20C-EA0 [WH20ESF0.CA]
Air Purifying	Prefilter (Washable)	Capture dust particles.	○
Reliability	Self diagnosis	Self-diagnostic for product protection.	○
	Defrost control (De-ice)	This mode will de-ice the evaporator automatically.	○
Convenience	Heat Pump mode	This mode minimizes power consumption by using only heat pump for heating.	○
	Auto mode	This mode provides relatively low power consumption and high recovery.	○
	Turbo mode	This mode provides the highest recovery.	○
	Vacation mode	In this mode, tank temperature will be maintained at about 20°C to minimize energy consumption and prevent the HPWH from freezing.	○
	Schedule	The customer can set up operation time and mode with ThinQ based on their demand conditions.	○
	Auto restart operation	If power is resupplied after blackout, product restarts automatically.	○
	Two thermistor control 1	If there is a temperature difference between water tank temperature and desired temperature, the customer can use this function in other to prevent insufficient cooling and heating.	○
	Overheating protection	If there is a temperature difference between water tank temperature and desired temperature, the customer can use this function in order to prevent over-heating.	○
	Indoor unit display type	-	Number Display
	Anti-legionella	If the set temperature is less than 60 °C, the heat pump will automatically start disinfection within 7 days. If the set temperature is greater than or equal to 60 °C, the disinfection operation will not begin.	○
Duct mode	The fan RPM will be higher if a duct is installed.	X	
Special Function Kit	Wi-Fi 2	Easily access and control a water heater's functions from anywhere.	Embedded
	Water level sensor connection 2	Detect the water level in drain pan.	X
	Smart inverter monitoring system(SIMs) 2	Helps the customer to easily monitor, diagnose the heat pump and get a quick resoultion.	X
Others	Temperature control	Basic cycle control method	Thermistor
<p>Note</p> <p>1. These functions must be applied according to the model. Please refer to the follow ing function list for each model.</p> <p>2. 1 : This function can be operated only w hen the w ired remote controller is connected. The applicability of each function depends on the above table.</p> <p>3. 2 : Optional accessories must be purchased separately. If show n as "Embedded", this function is included in product.</p> <p>4. The function Wi-Fi is only compatible w ith 2.4 GHz band. (802.11 b/g/n)</p> <p>5. Some specifications may be changed w ithout notification due to our policy of innovation.</p>			

4. Dimensions

Models : R6TS10H-EA0 [WH10ESF0.HA], R6TS15H-EA0 [WH15ESF0.HA]

(TOP VIEW)

	100 LITERS	150 LITERS
A	1280	1620
B	90	611
C	88	619
D	585	403
E	683	1023

(BOTTOM VIEW)

(BACK VIEW)

Top View Dimensions: 232mm (top diameter), 565mm (bottom diameter)

Bottom View Dimensions: 150mm (width)

Back View Dimensions: 308mm (width), 540mm (height)

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.

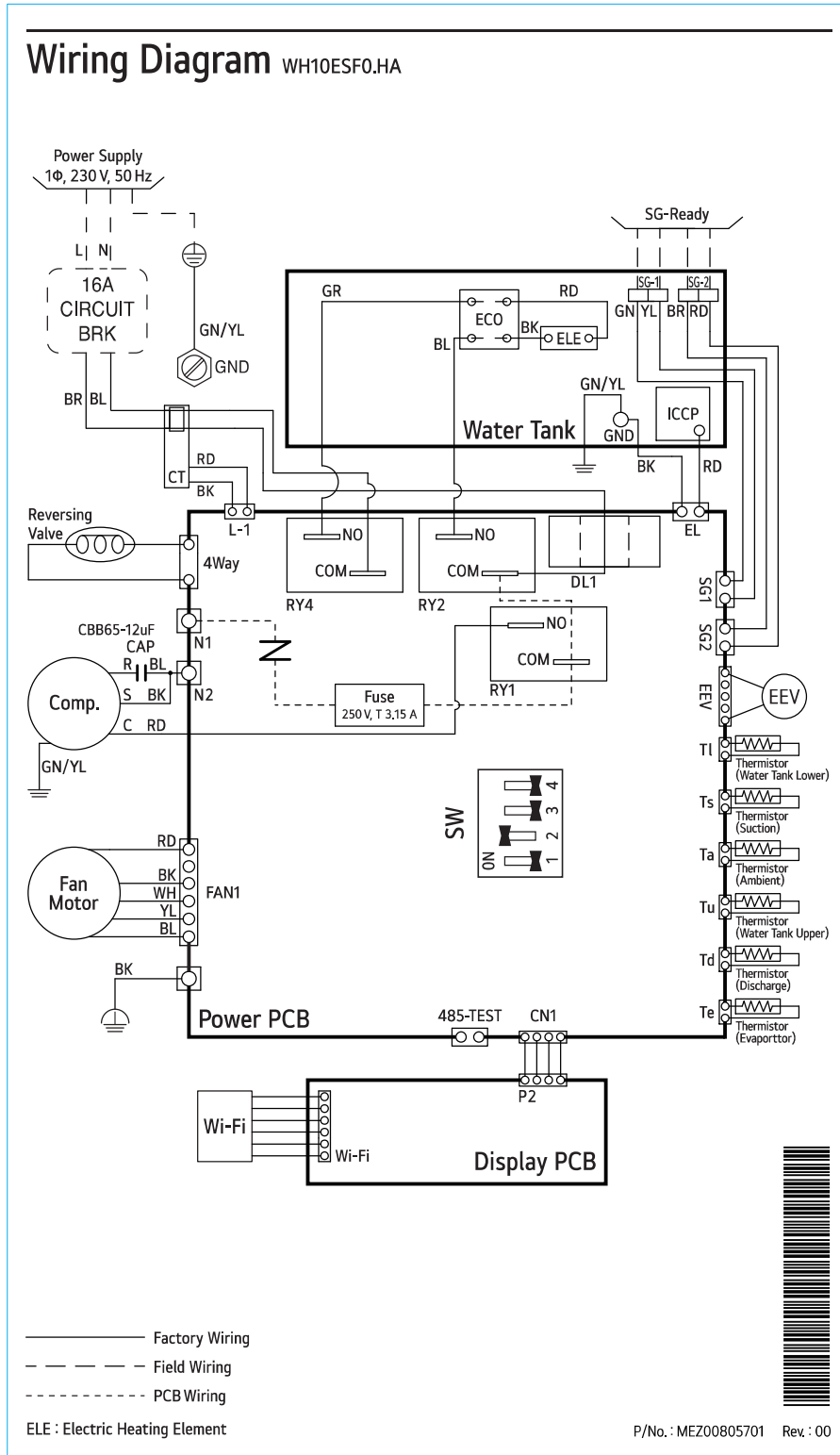
Symbols

- ↗ View Direction
- Datum line
- Refrigerant/Drain Piping Direction

No.	Part Name	Description	No.	Part Name	Description
11	Power Cable	1.5 x 3	11	Power Cable	1.5 x 3
10	Condensate Drain	15 mm	10	Condensate Drain	15 mm
9	Inlet Pipe	Water In, G 1/2	9	Inlet Pipe	Water In, G 1/2
8	Outlet Pipe	Water Out, G 1/2	8	Outlet Pipe	Water Out, G 1/2
7	Dielectric Union(Accessories)	25A, Water In & Out	7	Dielectric Union(Accessories)	25A, Water In & Out
6	P Valve(Accessories)	0.75Mpa Open	6	P Valve(Accessories)	0.75Mpa Open
5	Bottom Cover	-	5	Bottom Cover	-
4	Top Cover	-	4	Top Cover	-
3	Rear Panel	-	3	Rear Panel	-
2	Front Panel	-	2	Front Panel	-
1	Water Tank	100L / 150L	1	Water Tank	100L / 150L

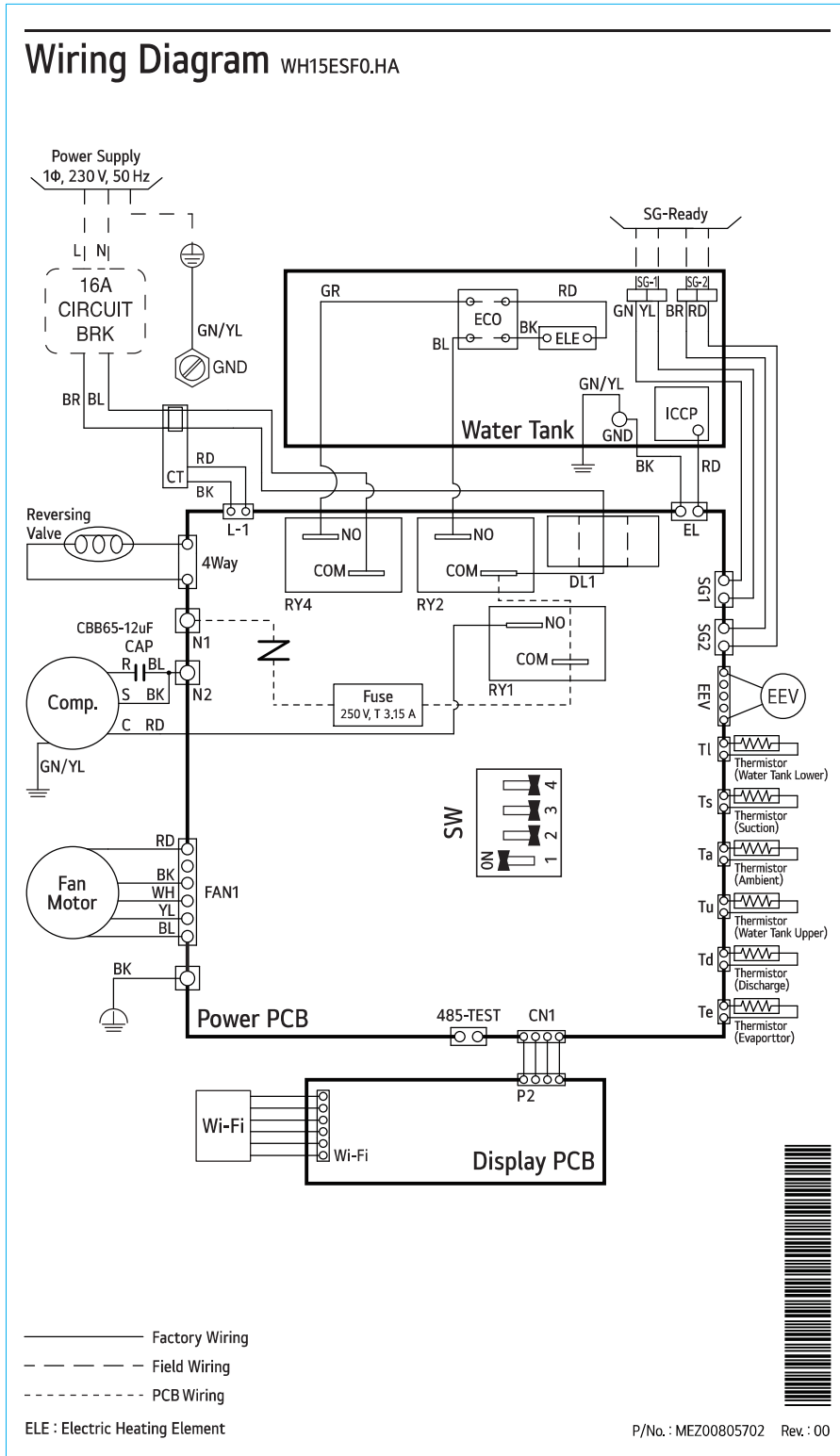
5. Wiring Diagrams

Models : R6TS10H-EA0 [WH10ESF0.HA]



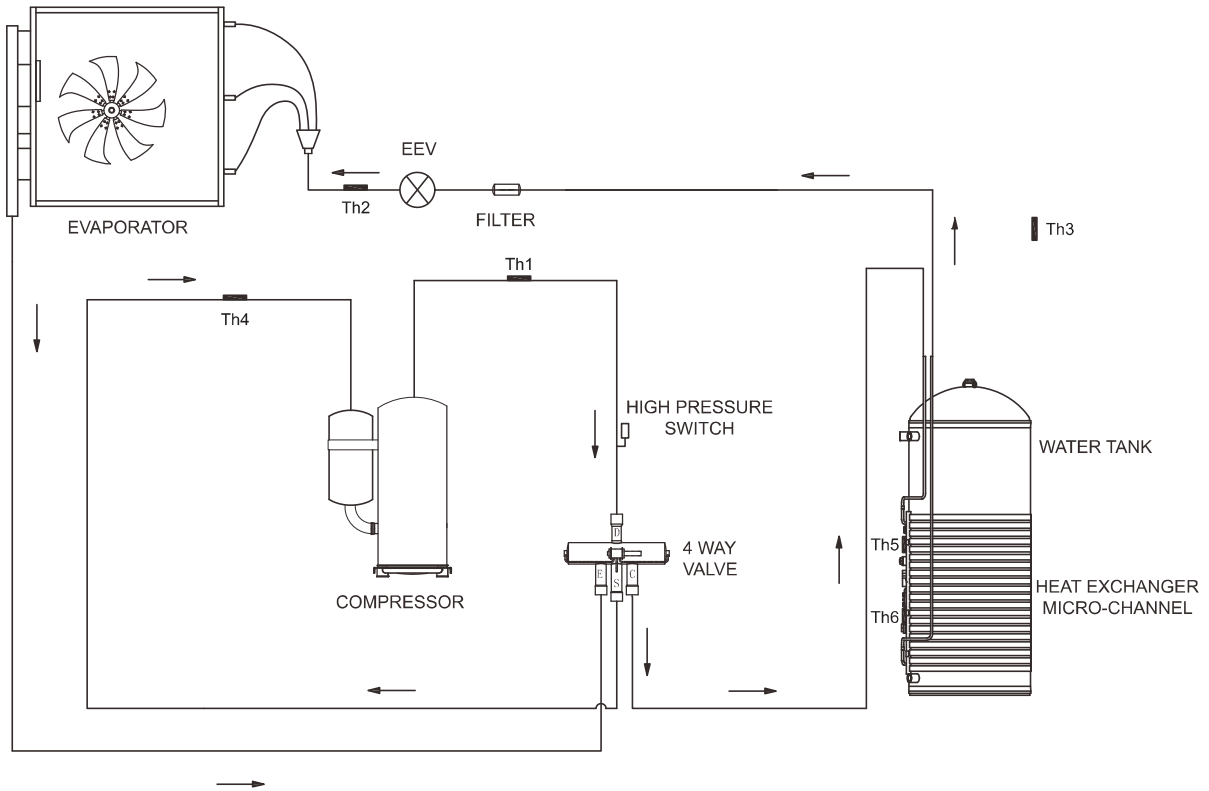
5. Wiring Diagrams

Models : R6TS15H-EA0 [WH15ESF0.HA]



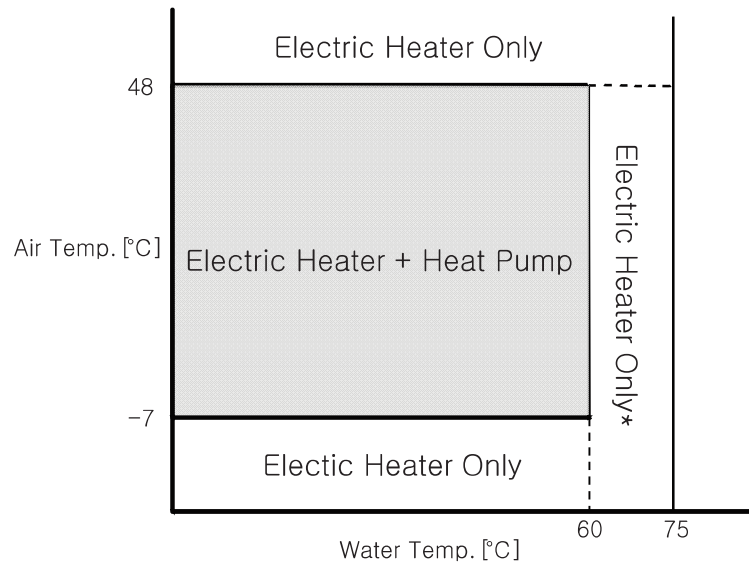
6. Piping diagrams

■ Models : R6TS10H-EA0 [WH10ESF0.HA], R6TS15H-EA0 [WH15ESF0.HA], R6TS20C-EA0 [WH20ESF0.CA]



LOC	Description	PCB Connector
Th1	Thermistor for discharge pipe temperature	Td
Th2	Thermistor for evaporating temperature	Te
Th3	Thermistor for indoor air temperature	Ta
Th4	Thermistor for suction pipe temperature	Ts
Th5	Thermistor for upper water tank temperature	Tu
Th6	Thermistor for lower water tank temperature	Tl

8. Operation Range



Note

* Operating at 60~75°C is only possible in Turbo mode
