

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	R6TS20C-EA0 [WH20ESF0.CA]
Capacity	Volume(Nominal)	L	200
	COP(7°C)_COP	-	-
	COP(7°C)_Daily electrical energy consumption	kWh	-
	COP(7°C)_V40	L	-
	COP(15°C)_COP	-	3.20 (A+)
	COP(15°C)_Daily electrical energy consumption	kWh	3.652
	COP(15°C)_V40	L	245
	Load Profile	-	Large
	Annual Energy Consumption(AEC) (15°C / 7°C)	kWh	770 (15°C)
Power Input	Upper Element (230V)	W	2,000
	Lower Element (230V)	W	-
	Heat Pump	W	580
	Max.	W	2,580
Annual Energy Consumption(AEC) (15°C / 7°C)		-	770 (15°C)
Power Supply		Ø, V, Hz	1, 230, 50
Available Voltage Range		V	195 ~ 265
Air Flow Rate	High/Low	CMM	4.5
Fan Speed	High/Low	RPM	1,400
Sound Pressure Level	Auto	dB(A)	38.0
	Turbo/Heat Pump	dB(A)	38.0
Sound Power Level	Outdoor / Indoor	dB(A)	- / 53.0
Dimensions	Net(W x H x D)	mm	600 × 1,708 × 608
	Shipping(W x H x D)	mm	660 × 1,894 × 660
Weight	Net	kg	92
	Shipping	kg	115
Operation Range	Heating	°C DB	-7 ~ 43
Exterior Color (Code)		-	Essence white (RAL 9003)
Compressor	Type	-	Constant speed rotary
	Model	-	WHP01750PSV-H3BUA
	Motor Type	-	PSC
	Locked Rotor Ampere(LRA)	A	12 (240V/50Hz)
	Oil Type	-	PAG or equivalent
	Oil Charge	cc	150 ± 20
	Manufacturer / Country of Origin	-	Highly / China
Fan	Type	-	Centrifugal fan
	Motor Type	-	BLDC
	Motor Output	W	30
Heat Exchanger	Quantity	EA	1
	Rows x Columns x FPI	-	3 x 16 x 16
Design Pressure(System)	High Side	kPa	3,000
	Low Side	kPa	1,500
Max Working Pressure(Water Tank)		kPa	1,000
Recommended circuit breaker (ELCB)	Heat Pump & Heater	A	16
Wiring Connections	Power Supply Cable(included Earth)	mm ² × cores	2.5 x 3C
Drain Hose Size	I.D	mm	19

2. Specifications

Model Name		Unit	R6TS20C-EA0 [WH20ESF0.CA]
Refrigerant	Type	-	R290
	Pre Charge	g	150
	Additional Charge	g/m	-
	Control	-	Electronic Expansion Valve
	t-CO ₂ eq.	-	0.000450
	GWP	-	3
Defrost Method		-	Reverse Cycle
Anode		-	ICCP
Foam Insulation		mm	50
T&P Relief Valve		-	T&P valve
Water Connection Location		-	Side
Water Connection Size		inch	G 3/4
Digital Display		-	O
Wi-Fi		-	O
SG Ready		-	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

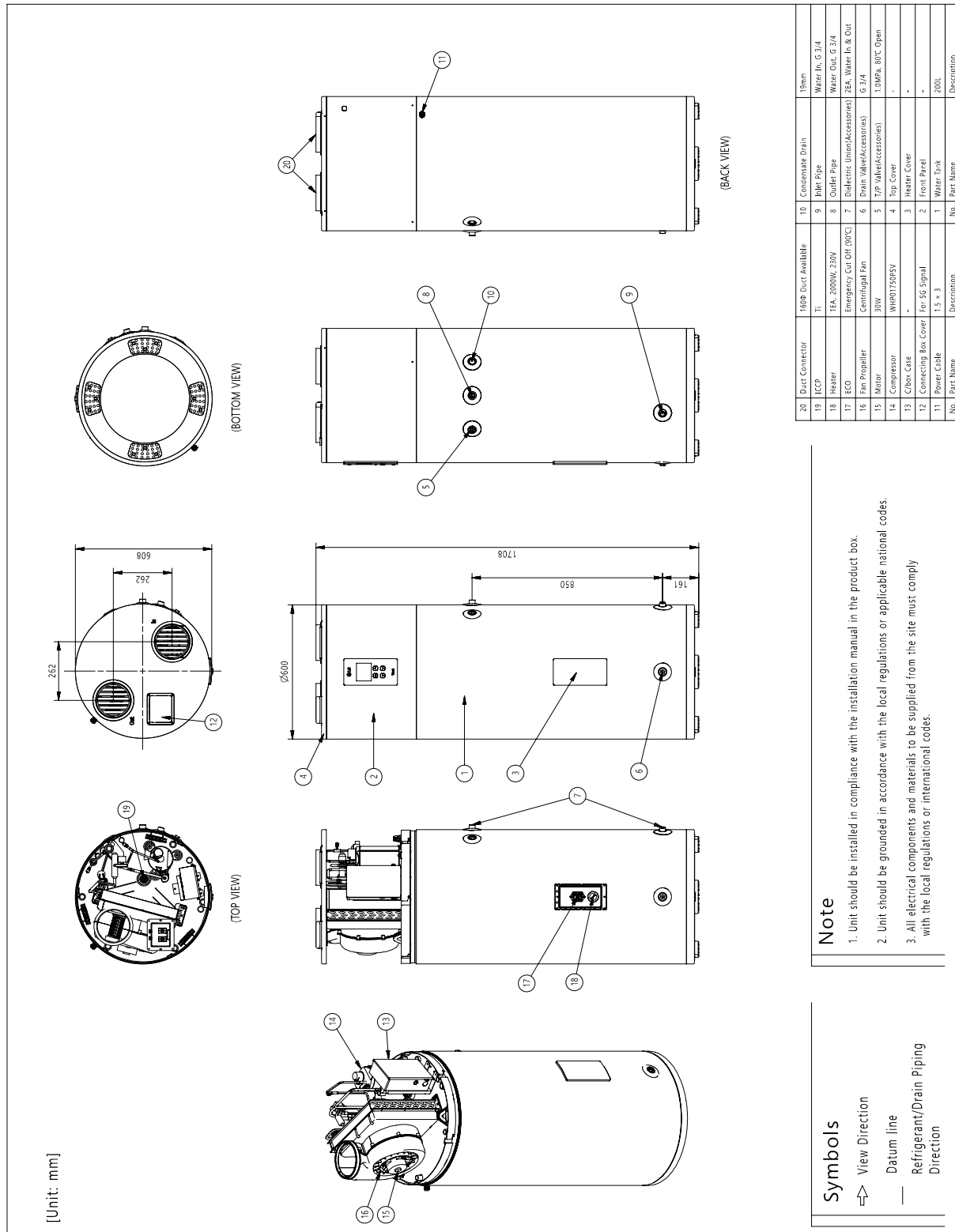
Category	Functions	Description	R6TS10H-EA0 [WH10ESF0.HA] R6TS15H-EA0 [WH15ESF0.HA] R6TS20C-EA0 [WH20ESF0.CA]
Air Purifying	Prefilter (Washable)	Capture dust particles.	O
Reliability	Self diagnosis	Self-diagnostic for product protection.	O
	Defrost control (De-ice)	This mode will de-ice the evaporator automatically.	O
Convenience	Heat Pump mode	This mode minimizes power consumption by using only heat pump for heating.	O
	Auto mode	This mode provides relatively low power consumption and high recovery.	O
	Turbo mode	This mode provides the highest recovery.	O
	Vacation mode	In this mode, tank temperature will be maintained at about 20°C to minimize energy consumption and prevent the HPWH from freezing.	O
	Schedule	The customer can set up operation time and mode with ThinQ based on their demand conditions.	O
	Auto restart operation	If power is resupplied after blackout, product restarts automatically.	O
	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.	O
	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.	O
	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.	O
Special Function Kit	Duct mode	The fan RPM will be higher if a duct is installed.	X
	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
Others	Smart inverter monitoring system(SIMs) 2	Helps the customer to easily monitor, diagnose the heat pump and get a quick resoulution.	X
	Temperature control	Basic cycle control method	Thermistor

Note

1. These functions must be applied according to the model. Please refer to the follow ing function list for each model.
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.
3. 2 : Optional accessories must be purchased separately. If show n as "Embedded", this function is included in product.
4. The function Wi-Fi is only compatible w ith 2.4 GHz band. (802.11 b/g/n)
5. Some specifications may be changed w ithout notification due to our policy of innovation.

4. Dimensions

■ Models : R6TS20C-EA0 [WH20ESF0.CA]

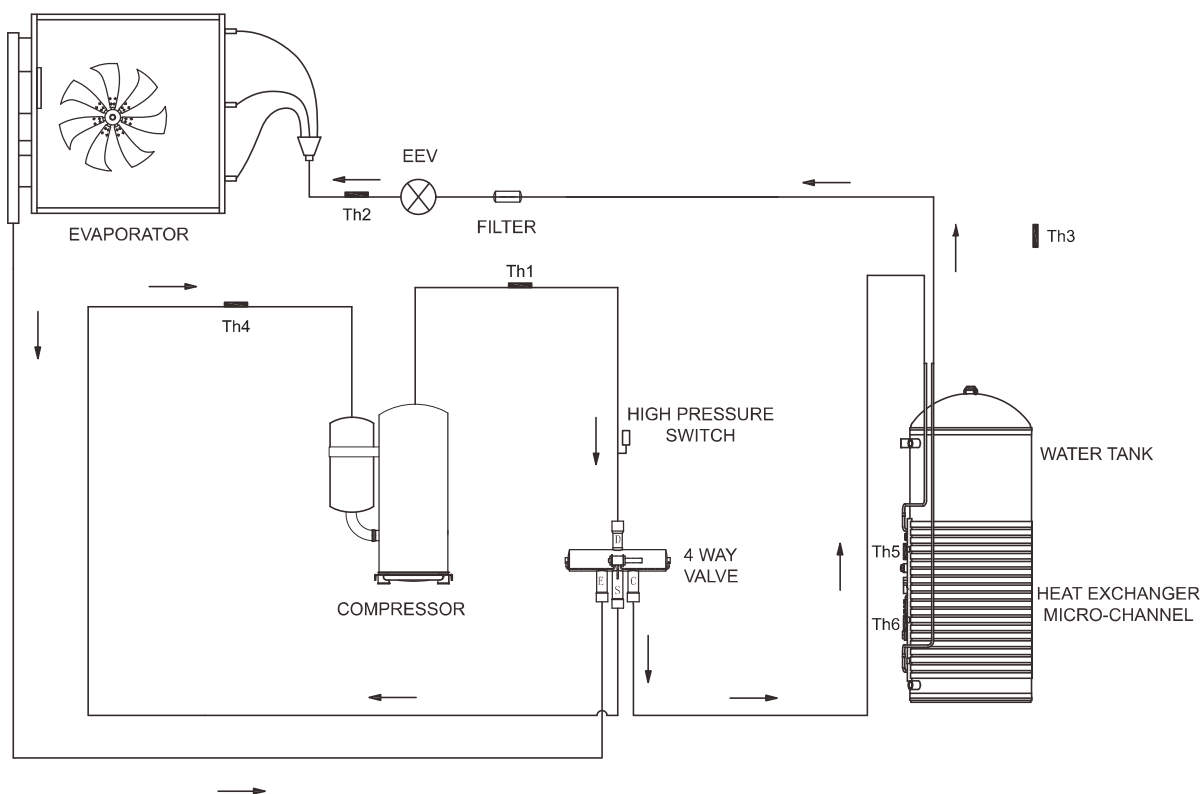


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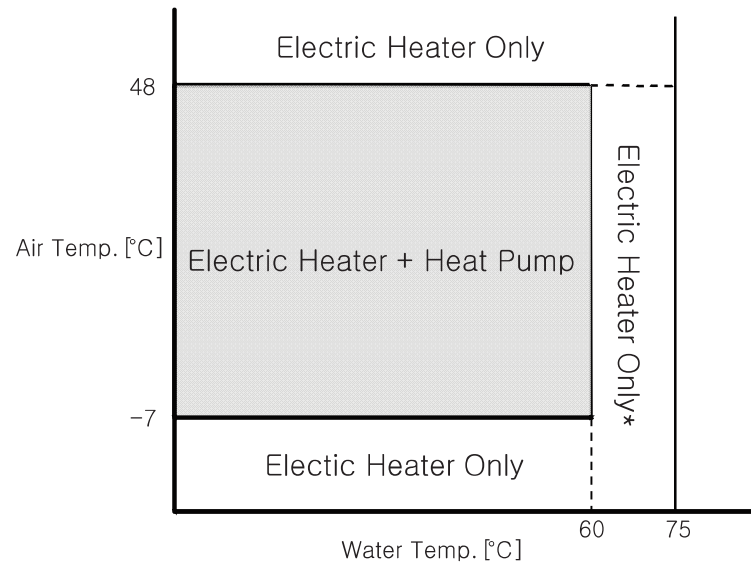
6. Piping diagrams

■ **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