Product Ecodesign Information

Model No.: WH-SQC12H9E8 / WH-UQ12HE8

Air-to-water heat pump [YES/NO]:	YES	Low-temperature heat pump [YES/NO]:	NO
Water-to-water heat pump [YES/NO]:	NO	Brine-to-water heat pump [YES/NO]:	NO
Equipped with a supplementary heater [YES/NO]:	YES		
Heat pump combination heater [YES/NO]:	NO		

Parameters shall be declared for medium-temperature application.

Parameters shall be declared for AVERAGE climate conditions.

Item	Symb.	Value	Unit	Item	Symb.	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	130	%
Bivalent temperature	T_{biv}	-10	°C	Operation limit temperature	TOL	-10	°C
Degradation coefficient (**)	C_{dh}	0,9	—	Heating water operating limit temperature	WTOL	55	°C
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = – 7 °C	P_{dh}	10,8	kW	T_j = – 7 °C	COP_d	2,03	—
T_j = + 2 °C	P_{dh}	6,1	kW	T_j = + 2 °C	COP_d	3,19	—
T_j = + 7 °C	P_{dh}	4,7	kW	T_j = + 7 °C	COP_d	4,38	—
T_j = + 12 °C	P_{dh}	5,7	kW	T_j = + 12 °C	COP_d	5,89	—
T_j = T biv	P_{dh}	11,7	kW	T_j = T biv	COP_d	1,95	—
T_j = TOL	P_{dh}	11,7	kW	T_j = TOL	COP_d	1,95	—
T_j = – 15 °C (if TOL < – 20 °C)	P_{dh}	—	kW	T_j = – 15 °C (if TOL < – 20 °C)	COP_d	—	—
Cycling interval capacity for heating	P_{cych}	—	kW	Cycling interval efficiency	COP_{cyc}	—	—

Power consumption in modes other than active mode:				Other items: (◊) (□)			
Off mode	P_{OFF}	0,003	kW	Capacity control		Variable	
Thermostat-off mode	P_{TO}	0,012	kW	Sound power level, indoor (◊)	L_{WA}	46	dB
Standby mode	P_{SB}	0,012	kW	Sound power level, outdoor (◊)	L_{WA}	58	dB
Crankcase heater mode	P_{CK}	0,033	kW	Sound power level, indoor (□)	L_{WA}	46	dB
Supplementary heater	P_{sup}	9,0	kW	Sound power level, outdoor (□)	L_{WA}	62	dB
Rated heat output (*)				Annual energy consumption	Q_{HE}	7466	kWh
Type of energy input	ELECTRICAL HEATER			Rated air flow rate, outdoor	—	4800	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	—	m^3/h	Emissions of nitrogen oxides	NO_x	—	mg/kWh

For heat pump combination heater:

Declared load profile		—		**Water heating energy efficiency**	η_{wh}	—	%
Daily electricity consumption	Q_{elec}	—	kWh	Daily fuel consumption	Q_{fuel}	—	kWh

Contact details for obtaining more information	(Name and address of the manufacturer or of its authorized representative.) Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany

REMARK:

- You can find information and precautions relevant for installation and maintenance in the Operation Instructions.
- You can find information relevant for recycling and/or disposal at end-of-life in the Operation Instructions.

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**) If C_{dh} is not determined by measurement, then the default degradation coefficient is C_{dh} = 0,9.

(◊) Nominal A-Weighted Sound Power Level (L_{WA}), according to regulation 811/2013, 813/2013 and standard EN14825 at A7(6), in dB (A).

(□) Maximum A-Weighted Sound Power Level (L_{WA}), according to EN12102-1 at A7(6) W55(47), in dB (A).