

Rev/0625

Technical parameters for heat pump space heaters and heat pump combination heaters

Model(s):				IPHP 012 R290			
Air-to-water heat pump:		yes					
Water-to-water heat pump:		no					
Brine-to-water heat pump:		no					
Low-temperature heat pump:		yes					
Equipped with a supplementary heater:		no					
Heat pump combination heater:		yes					
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.							
Parameters shall be declared for average, colder and warmer climate conditions.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	33	kW	Seasonal space heating energy efficiency	η sh	168.40	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	Pdh	28.8	kW	T j = – 7 °C	COPd or PERd	2.86	– or %
T j = + 2 °C	Pdh	17.5	kW	T j = + 2 °C	COPd or PERd	4.09	– or %
T j = + 7 °C	Pdh	14.0	kW	T j = + 7 °C	COPd or PERd	5.88	– or %
T j = + 12 °C	Pdh	15.2	kW	T j = + 12 °C	COPd or PERd	7.49	– or %
T j = bivalent temperature	Pdh	28.8	kW	T j = bivalent temperature	COPd or PERd	2.86	– or %
T j = operation limit temperature	Pdh	26.4	kW	T j = operation limit temperature	COPd or PERd	2.59	– or %
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	0.0	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd or PERd	0.00	– or %
Bivalent temperature	T biv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	0.0	kW	Cycling interval efficiency	COPcyc or PERcyc	0.00	– or %
Degradation co-efficient (**)	Cdh	0.9	—	Heating water operating limit temperature	WTOL	0	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P OFF	0.00	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P TO	0.26	kW	Type of energy input	Electricity		
Standby mode	P SB	0.11	kW				
Crankcase heater mode	P CK	0.00	kW				
Other items				For air-to-water heat pumps: Rated air flow rate, outdoors			
Capacity control	Variable			For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Sound power level, indoors/ outdoors	LWA	81	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	—	19729	m <sup>3</sup> /h
Annual energy consumption	QHE	15781	kWh			For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—
Declared load profile	Average			Water heating energy efficiency	η wh		
Daily electricity consumption	Q elec	-	kWh	Daily fuel consumption	Q fuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	Gj
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Item							