

Rev/0625

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

Model(s):				IPHP 010 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	28	kW	Seasonal space heating energy efficiency	η sh	173.00	%
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	24.8	kW	T j = – 7 °C	COPd or PERd	3.00	– or %
T j = + 2 °C	Pdh	15.1	kW	T j = + 2 °C	COPd or PERd	4.21	– or %
T j = + 7 °C	Pdh	11.2	kW	T j = + 7 °C	COPd or PERd	5.98	– or %
T j = + 12 °C	Pdh	12.0	kW	T j = + 12 °C	COPd or PERd	7.18	– or %
T j = bivalent temperature	Pdh	24.8	kW	T j = bivalent temperature	COPd or PERd	3.00	– or %
T j = operation limit temperature	Pdh	22.7	kW	T j = operation limit temperature	COPd or PERd	2.70	– 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	Pcyc	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	0.23	kW	Type of energy input	Electricity		
Standby mode	P SB	0.11	kW				
Crankcase heater mode	P CK	0.00	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	16092	m ³/h
Sound power level, indoors/ outdoors	LWA	80	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	0	m ³/h
Annual energy consumption	QHE	13221	kWh				
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							