

HYDRO UNIT P

Air-to-Water rotary heat pump



TECHNICAL DATASHEET FOR MEDIUM TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

Description

Model	HYDRO UNIT P 010
Air-to-Water Heat pump	Yes
Water-to-Water Heat pump	No
Brine-to-Water Heat pump	No
Low-temperature Heat pump (30°C / 35°C)	No
Equipped with supplementary heater	No
Heat pump combination heater	No
Climate	Average

Performances established in accordance with EN14511:2018 and EN14825:2018

	Symbol	Unit	
Rated heat output(*)	Prated	kW	6
Seasonal Space Heating Energy Efficiency	η_{s,h}	%	131
Annual energy consumption	QHE	kWh	3989

Declared capacity (P_{dh}), declared coefficient of performance (COP_d) and declared degradation coefficient (C_{dh}^(**)) for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

T _j = -7 °C	P _{dh}	kW	5.71
	COP _d		1.9
	C _{dh} ^(**)		-
T _j = 2 °C	P _{dh}	kW	3.33
	COP _d		3.12
	C _{dh} ^(**)		-
T _j = 7 °C	P _{dh}	kW	2.68
	COP _d		4.97
	C _{dh} ^(**)		0.97
T _j = 12 °C	P _{dh}	kW	3.16
	COP _d		7.09
	C _{dh} ^(**)		0.97
T _j = operation limit temperature °C	P _{dh}	kW	5.29
	COP _d		1.71
	C _{dh} ^(**)		-
T _j = bivalent temperature °C	P _{dh}	kW	5.71
	COP _d		1.9
	C _{dh} ^(**)		-
Bivalent temperature	T _{biv}	°C	-7
Operation limit temperature	TOL	°C	-10
Heating water operating limit	WTOL	°C	75

Power consumption in modes other than active mode

Off mode	POFF	W	10
Thermostat off-mode	PTO	W	15
Standby mode	PSB	W	10
Crankcase heater mode	PCK	W	0

Supplementary heater

Rated heat output(*)	P _{sup}	kW	0
Type of energy input			Electrical

Other items

Capacity control			VARIABLE
Outlet temperature control			VARIABLE
Water flow rate control			FIXED
Rated water flow rate outdoor exchanger(1)		m ³ /h	800
Sound power level	L _{wA}	dBA	51

Contact details	CARRIER SCS - Route de Thil - 01120 Montluel – FRANCE
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(1)Not applicable for water-to-water and brine-to-water heat pumps

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

(**):If C_{dh} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.