

## 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 006
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	
<b>Rated heat output(*)</b>	<b>Prated</b>	<b>kW</b>	<b>5</b>
<b>Seasonal Space Heating Energy Efficiency</b>	<b>η<sub>s,h</sub></b>	<b>%</b>	<b>131</b>
Annual energy consumption	<b>QHE</b>	<b>kWh</b>	<b>3010</b>

## Declared capacity (P<sub>dh</sub>), declared coefficient of performance (COP<sub>d</sub>) and declared degradation coefficient (C<sub>dh</sub><sup>(\*\*)</sup>) for heating for part load at indoor temperature 20 °C and outdoor temperature T<sub>j</sub>

T <sub>j</sub> = -7 °C	P <sub>dh</sub>	kW	4.31
	COP <sub>d</sub>		2
	C <sub>dh</sub> <sup>(**)</sup>		-
T <sub>j</sub> = 2 °C	P <sub>dh</sub>	kW	2.66
	COP <sub>d</sub>		3.14
	C <sub>dh</sub> <sup>(**)</sup>		-
T <sub>j</sub> = 7 °C	P <sub>dh</sub>	kW	1.83
	COP <sub>d</sub>		4.74
	C <sub>dh</sub> <sup>(**)</sup>		0.96
T <sub>j</sub> = 12 °C	P <sub>dh</sub>	kW	2.25
	COP <sub>d</sub>		6.69
	C <sub>dh</sub> <sup>(**)</sup>		0.96
T <sub>j</sub> = operation limit temperature °C	P <sub>dh</sub>	kW	4
	COP <sub>d</sub>		1.78
	C <sub>dh</sub> <sup>(**)</sup>		-
T <sub>j</sub> = bivalent temperature °C	P <sub>dh</sub>	kW	4.31
	COP <sub>d</sub>		2
	C <sub>dh</sub> <sup>(**)</sup>		-
Bivalent temperature	T <sub>biv</sub>	°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 <sub>sup</sub>	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 <sup>3</sup> /h	800
Sound power level	L <sub>wA</sub>	dBA	50

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 f or heating Pdesignh, and the rated heat output of a supplementary heater sup is equal to the supplementary capacity for heating sup(Tj).

(\*\*):If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.