Technical parameters

Model(s):	Outdoor unit:	AHW-100HCPB1
	Indoor unit:	AHS-100HCWBAA-23
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters shall be declared for		Medium temperature application.
Parameters shall be declared for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.70	kW	Seasonal space heating energy efficiency	ηs	142	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 °C	Pdh	7.70	kW	Tj = – 7 °C	COPd	2.23	-
Tj = +2 °C	Pdh	4.62	kW	Tj = +2 °C	COPd	3.41	-
Tj = +7 °C	Pdh	3.27	kW	Tj = +7 °C	COPd	4.99	-
Tj = +12 °C	Pdh	2.39	kW	Tj = +12 °C	COPd	6.53	-
Tj =bivalent temperature	Pdh	7.70	kW	Tj =bivalent temperature	COPd	2.23	-
Tj = operation limit temperature	Pdh	8.58	kW	Tj = operation limit temperature	COPd	1.96	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	-	°C

Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	Rated heat output (*)	Psup	0.1	kW
Thermostat-off mode	P_{TO}	0.010	kW				
Standby mode	P_{SB}	0.009	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0	kW				

Other items							
Capacity control		variable		Rated air flow rate, outdoors		3780	m^3/h
Sound power level, indoors/outdoors	L_{WA}	44/55	dB				
Annual energy consumption	Q_{HE}	4976	kWh				

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(*) 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 Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.