clausius

TECHNICAL DOCUMENTATION (UE Regulation nº 811/2013 / UNE 14825)

Models:	classic H 5-25 / classic HC 5-25
Air-to-water heat pump:	no
Water-to-water heat pump:	no
Brine-to-water heat pump:	yes
Application:	Medium temperature (55 ºC)
Equipped with supplementary heater:	no
Heat pump combination heater:	no

Parameter	Symbol	Value	Unit
Rated heat output	Prated	25	kW
Declared heating capacity for part load at inner temperature of 20 ºC and outdoor temperature T_j			
T_j = – 7 °C	Pdh	22.2	kW
T_j = + 2 °C	Pdh	13.5	kW
T_j = + 7 °C	Pdh	8.7	kW
T_j = + 12 °C	Pdh	5	kW
T_j = bivalent temperature	Pdh	-	kW
T_j = limit temperature	Pdh	-	kW
Air-to-water heat pumps: T_j = – 15 °C (if TOL< – 20 °C)	Pdh		kW
Bivalent temperature	T_{biv}	-	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation coefficient	Cdh	0.9	-
Power consumption in modes different than active mode			
Off mode	P_{OFF}	0.005	kW
Off by thermostat	P_{TO}	0.010	kW
Standby mode	P_{SB}	0.010	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other parameters			
Capacity control	variable		
Sound power level (indoor/outdoor)	L_{WA}	42 / 0	dB
Annual energy consumption:	Q_{HE}	11602	kWh
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q_{elec}	-	kWh
Annual energy consumption	AEC	-	kWh

Parameter	Symbol	Value	Unit
Energy efficiency	η_s	183	%
Declared COP for part load at inner temperature of 20 ºC and outdoor temperature T_j			
T_j = – 7 °C	COPd	3.5	-
T_j = + 2 °C	COPd	4.6	-
T_j = + 7 °C	COPd	5.2	-
T_j = + 12 °C	COPd	5.8	-
T_j = bivalent temperature	COPd	-	-
T_j = limit temperature	COPd	-	-
Air-to-water heat pumps: T_j = – 15 °C (if TOL< – 20 °C)	COPd	-	%
In air-to-water heat pumps: limit temperature	TOL	-	°C
Cycling interval COP	COPcyc	-	%
Heating water operating limit	WTOL	65	°C
Supplementary heater			
Rated heat output	P_{TO}	-	kW
Type of energy input	-		
Air-to-water heat pumps: Nominal airflow	-	-	m^3/h
Water-to-water and brine-to-water heat pumps: Nominal flow rates of water or brine in outdoor heat exchanger	-	4.02	m^3/h
For heat pump combination heater:			
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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