CXB 025

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

Model(s): [information identifying the model(s) to which the information relates]	**CXB 025**
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:	No

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
Rated heat output (*)	Prated	23	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	Pdh	16.1	kW
T j = + 2 °C	Pdh	12.4	kW
T j = + 7 °C	Pdh	8.0	kW
T j = + 12 °C	Pdh	3.5	kW
T j = bivalent temperature	Pdh	188.1	kW
T j = operation limit temperature	Pdh	173.0	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	NA	kW
Bivalent temperature	T biv	-4.5	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	—
Power consumption in modes other than active mode			
Off mode	P OFF	0.00	kW
Thermostat-off mode	P TO	0.15	kW
Standby mode	P SB	0.15	kW
Crankcase heater mode	P CK	0.14	kW
Other items			
Capacity control	Staged		
Sound power level, indoors/ outdoors	LWA	76.549	dB
Annual energy consumption	QHE	13895	kWh
Declared load profile		Average	
Daily electricity consumption	Q elec		
Annual electricity consumption	AEC	-	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	145	%
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	COPd or PERd	2.55	– or %
T j = + 2 °C	COPd or PERd	3.93	– or %
T j = + 7 °C	COPd or PERd	4.57	– or %
T j = + 12 °C	COPd or PERd	4.42	– or %
T j = bivalent temperature	COPd or PERd	2.94	– or %
T j = operation limit temperature	COPd or PERd	2.26	– or %
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd or PERd	-	– or %
For air-to-water heat pumps: Operation limit temperature	TOL	-10.00	°C
Cycling interval efficiency	COPcyc or PERcyc	-	– or %
Heating water operating limit temperature	WTOL	55.00	°C
Supplementary heater			
Rated heat output (*)	Psup	-	kW
Type of energy input	Electricity		
For air-to-water heat pumps: Rated air flow rate, outdoors	—	9600	m 3 /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m 3 /h
Water heating energy efficiency	η wh	x	%
Daily fuel consumption	Q fuel	0	kWh
Annual fuel consumption	AFC	-	Gj

Contact details: TRANE 88190 Golbey - France

(*) 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.