

CXCN 160 L

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

Model(s): [information identifying the model(s) to which the information relates]	CXCN 160
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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	117	kW	Seasonal space heating energy efficiency	η_s	127	%
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	103.7	kW	Tj = -7 °C	COPd or PERd	2.17	- or %
Tj = +2 °C	Pdh	62.1	kW	Tj = +2 °C	COPd or PERd	3.23	- or %
Tj = +7 °C	Pdh	84.5	kW	Tj = +7 °C	COPd or PERd	5.03	- or %
Tj = +12 °C	Pdh	97.6	kW	Tj = +12 °C	COPd or PERd	6.47	- or %
Tj = bivalent temperature	Pdh	103.7	kW	Tj = bivalent temperature	COPd or PERd	2.17	- or %
Tj = operation limit temperature	Pdh	95.5	kW	Tj = operation limit temperature	COPd or PERd	1.97	- or %
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	COPd or PERd	-	- or %
Bivalent temperature	T biv	-7.0	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10.00	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc or PERcyc	-	- or %
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	45.00	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P OFF	0.31	kW	Rated heat output (*)	Psup	21.67	kW
Thermostat-off mode	P TO	0.71	kW	Type of energy input	Electricity		
Standby mode	P SB	0.31	kW				
Crankcase heater mode	P CK	0.31	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	39372	m ³ /h
Sound power level, indoors/ outdoors	LWA	94.57	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	73461	kWh	Water heating energy efficiency	η_{wh}	x	%
Declared load profile	Average			Daily fuel consumption	Q fuel	0	kWh
Daily electricity consumption	Q elec	-	kWh	Annual fuel consumption	AFC	-	Gj
Annual electricity consumption	AEC	-	kWh				
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.