

CXAD 355 HE
Technical parameters for heat pump space heaters and heat pump combination heaters

Model(s): [information identifying the model(s) to which the information relates]	CXAD 355 HE
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	264	kW	Seasonal space heating energy efficiency	η_s	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				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	P _{d,h}	233.2	kW	T _j = - 7 °C	COP _d or PER _d	2.56	- or %
T _j = + 2 °C	P _{d,h}	142.4	kW	T _j = + 2 °C	COP _d or PER _d	3.08	- or %
T _j = + 7 °C	P _{d,h}	91.2	kW	T _j = + 7 °C	COP _d or PER _d	4.39	- or %
T _j = + 12 °C	P _{d,h}	40.6	kW	T _j = + 12 °C	COP _d or PER _d	4.63	- or %
T _j = bivalent temperature	P _{d,h}	233.2	kW	T _j = bivalent temperature	COP _d or PER _d	2.56	- or %
T _j = operation limit temperature	P _{d,h}	214.9	kW	T _j = operation limit temperature	COP _d or PER _d	2.32	- or %
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	NA	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	-	- or %
Bivalent temperature	T _{biv}	-7.0	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-15.00	°C
Cycling interval capacity for heating	P _{cyh}	-	kW	Cycling interval efficiency	COP _{cyh} or PER _{cyh}	-	- or %
Degradation co-efficient (**)	C _{d,h}	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}	0.34	kW	Rated heat output (*)	P _{sup}	48.72	kW
Thermostat-off mode	P _{TO}	1.13	kW	Type of energy input	Electricity		
Standby mode	P _{SB}	0.34	kW				
Crankcase heater mode	P _{CK}	0.34	kW				
Other items							
Capacity control	Staged			For air-to-water heat pumps: Rated air flow rate, outdoors	-	169699	m ³ /h
Sound power level, indoors/ outdoors	LWA	92.13/71	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	112370	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(T_j). (**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0.9.