Technical parameters for heat pumps space heaters

Model	CRA/IK/WP 91

Air-to-water heat pump:	*yes*
Water-to-water heat pump:	*no*
Brine-to-water heat pump:	*no*
Low-temperature heat pump: (water temperature 35 °C)	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 climate condition.

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heat pump	$P_{nominale}$	21,38	kW		**Seasonal space heating energy efficiency**	η_s	125	%
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			
T_j = -7°C	Pdh	18,9	kW		T_j = -7°C	COP_d	2,5	
T_j = +2°C	Pdh	9,79	kW		T_j = +2°C	COP_d	3,03	
T_j = +7°C	Pdh	15,7	kW		T_j = +7°C	COP_d	7,6	
T_j = +12°C	Pdh	18,47	kW		T_j = +12°C	COP_d	7,6	
T_j = bivalent temperature	Pdh	18,9	kW		Tj = bivalent temperature	COP_d	2,5	
Tj = operation limit temperature	Pdh	17,57	kW		Tj = operation limit temperature	COP_d	2,3	
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW		For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COP_d	-	
Bivalent temperature	T_{biv}	-7	°C		For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cych}	-	kW		Cycling interval efficiency	COP_{cyc}	-	
Degradation co-efficient	Cdh	0,9	-		Heating water operating limit temperature	WTOL	40	°C
Power consumption in modes other than active mode					Supplementary heater			
Off mode	P_{off}	0,05	kW		Rated heat output	P_{sup}	-	kW
Thermostat-off mode	P_{To}	0	kW		Type of energy input		-	
Standby mode	P_{SB}	0,06	kW					
Crankcase heater mode	P_{CK}	0	kW					
Other items								
Capacity control		fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	0	m³/h
Sound power level, Indoors/outdoors	L_{WA}	79	dB(A)		For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q_{HE}	9325	kWh					
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