TECHNICAL DATA SHEET

Information requirements for heat pump space heaters and heat pump combination heaters

Model(s):	YLHD 40 T/TP						
Air-to-water heat pump:							yes
Water-to-water heat pump:							not
Brine-to-water heat pump:							not
Low-temperature heat pump:							yes
For low-temperature heat pumps, parameters shall be declared for low-temperature application. Otherwise, parameters shall be declared for medium-temperature application.							
Parameters shall be declared for average climate conditions.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output at Tdesignh = -10 (-11) °C	Prated = Pdesignh	34,4	kW	Seasonal space heating energy efficiency	η _s	129	%
Declared capacity for heating for part load at fixed outlet water temperature 35°C and outdoor temperature Tj				Declared coefficient of performanc or primary energy ratio for part load at fixed outlet water temperature 35°C and outdoor temperature Tj			
$T_j = -7 \ ^{\circ}C$	Pdh	25,1	kW	$T_j = -7 \ ^{\circ}C$	COPd	2,60	-
$T_j = +2 °C$	Pdh	18,5	kW	$T_j = + 2 \text{ °C}$	COPd	3,62	-
$T_j = +7 ^{\circ}C$	Pdh	11,9	kW	$T_j = +7 \text{ °C}$	COPd	3,93	-
$T_j = + 12 \text{ °C}$	Pdh	5,3	kW	$T_j = + 12 \text{ °C}$	COPd	4,15	-
T_i = bivalent temperature	Pdh	27,8	kW	T _i = bivalent temperature	COPd	2,82	-
T_j = operation limit temperature	Pdh	21,1	kW	T _j = operation limit temperature	COPd	2,24	-
For air-to-water heat pumps: $T_j = -15 \text{ °C}$ (if TOL < - 20 °C)	Pdh	x,x	kW	For air-to-water heat pumps: $T_j = -15 \text{ °C} \text{ (if TOL } < -20 \text{ °C)}$	COPd	x,xx	_
Bivalent temperature (maximum +2°C)	Tbiv	-5	°C	For air-to-water HP : Operation limit temperature (maximum -7°C)	TOL	-10	°C
Cycling interval capacity for heating	Pcych	x,x	kW	Heating water operating limit temperature	WTOL	50	°C
Degradation coefficient	Сс	0,97	_	Cycling interval efficiency	COPcyc	x,xx	-
Power consumption in modes other th	an active mod	э		Supplementary heater (to be declared even if not provided in the unit)			
Off mode	P _{OFF}	0,000	kW	Rated heat output	Psup	13.3	kW
Thermostat-off mode	P _{TO}	0,120	kW		= sup(Tj)	13,3	KVV
Standby mode	P _{SB}	0,000	kW	Type of energy input		<u> </u>	
Crankcase heater mode	P _{CK}	0,132	kW				
Other items				Outdoor heat exchanger			
Capacity control	fixed/variable	e fixed		For air-to-water HP: Rated air flow rate	Q _{airsource}	18000	m³/h
Sound power level, indoors	L _{WA}	x	dB(A)	For water-to-water: Rated water flow rate	Q _{watersource}	х	m³/h
Sound power level, outdoors	L _{WA}	88	dB(A)	For brine-to-water: Rated brine flow rate	Q _{brinesource}	х	m³/h
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If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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