

Information requirements for heat pumps

Energy Index: SCOP

Regulations: calculated according to commision regulation (EU) 2013/813, implementing the directive of the european commission 2009/125/ec "ecodesign".

Climate: Average

Source type: Outdoor air

User type: Low temperature

User flow: Constant user flow rate

User flow: Constant user Model: LAHP-1502LT454	nowrate						
Outdoor side heat exchanger of	f heat pump	: Air					
ndoor side heat exchanger of h	neat pump:	Water					
ndication if the heater is equip	ped with a s	upplementa	ry heater: N	0			
f applicable: driver of compres	sor: Electric	motor					
Parameters shall be declared fo	or the average	ge heating se	ason, paran	neters for the warmer and colde	r heating seas	ons are optional.	
	symb				symb		
item	ol	value	unit	item	ol	value	unit
Rated heating capacity	P _{rated,h}	99.6	kW	Seasonal space heating energy efficiency	η _{s,h}	160	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature <i>Tj</i>				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures <i>Tj</i>			
<i>Tj</i> = -7°C	Pdh	88.1	kW	<i>Tj</i> = -7°C	COP _d	2.37	%
Τ <i>j</i> = 2°C	Pdh	59.5	kW	Tj = 2°C	COP _d	3.99	%
,				,			-
Tj = 7°C	Pdh	71.9	kW	$Tj = 7^{\circ}C$	COP _d	5.66	%
<i>Tj</i> = 12°C	Pdh	82.9	kW	<i>Tj</i> = 12°C	COP _d	7.47	%
Tbiv = -7°C	Pdh	88.1	kW	<i>Tj</i> = -7°C	COP _d	2.37	%
$TOL = -10^{\circ}C$	Pdh	80.4	kW	$Tj = -10^{\circ}C$	COP _d	2.13	%
For air-to-water heat pumps: Operation limit temperature <i>Tj =</i> -°C	Pdh	-	kW	For air-to-water heat pumps: <i>Tj</i> = +-°C	COP _d	-	%
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	T _{ol}	-10	°C
·	017				0/		
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	%
Degradation co-efficient				Heating water operating			
chillers(*)	C _{dh}	0.99	_	limit temperature	WTol	60.0	°C
Power consumption	n in modes	other than 'a	ctive mode	Supplementary heate	er		
Off mode	P _{OFF}	0.02	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode		0.82	kW	Type of energy input			
	Р _{то}						-
Crankcase heater mode	Р _{СК}	0.11	kW	Standby mode	P _{SB}	0.02	kW
Other items Capacity control	staged			For air-to-air heat pumps: air flow rate, outdoor measured	_	52491	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NO _{X(**} ')	0/88.5 0.0	dB mg/kW h fuel input GCV kg CO ₂	For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/ł
			eq (100				
GWP of the refrigerant		466	years)				
Contact details	prova						
(*) (**) If Cdh is not determined by	/ measurem	ent then the	default deg	radation coefficient of heat pum	ips shall be 0,7	25.	
				split heat pumps, the test resul on of indoor unit(s) recommende			