

Information requirements for heat pumps

Energy Index: SCOP

Regulations: calculated according to commision regulation (EU) 2013/811, 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-1102LT454	now rate						
Outdoor side heat exchanger of	of heat pumr): Air					
Indoor side heat exchanger of							
Indication if the heater is equip			y heater: N	ot present			
If applicable: driver of compres	ssor: Electric	motor					
Parameters shall be declared f	or the avera	ge heating se	ason, paran	neters for the warmer and colde	r heating s	easons are optional.	-
item	symb ol	value	unit	item	symb ol	value	unit
Rated heating capacity	P _{rated,h}	67.9	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	161	%
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	60.0	kW	<i>Tj</i> = -7°C	COP _d	2.46	%
Tj = 2°C	Pdh	42.7	kW	Tj = 2°C	COP _d	3.99	%
Tj = 7°C	Pdh	51.4	kW	<i>Tj</i> = 7°C	COP _d	5.62	%
<i>Tj</i> = 12°C	Pdh	59.3	kW	<i>Tj</i> = 12°C	COP _d	7.31	%
Tbiv = -7°C	Pdh	60.0	kW	<i>Tj</i> = -7°C	COP _d	2.46	%
<i>TOL</i> = -10°C	Pdh	54.9	kW	<i>Tj</i> = -10°C	COP _d	2.19	%
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
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	%
Degradation co-efficient chillers(*)	C _{dh}	0.99	_	Heating water operating limit temperature	WTol	60.0	°C
Power consumption	on 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	Ρ _{το}	0.42	kW	Type of energy input	1		-
Crankcase heater mode	Р _{СК}	0.10	kW	Standby mode	P _{SB}	0.02	kW
Other items	· .K	0.20			• <i>SB</i>		
				For air-to-air heat pumps: air flow rate, outdoor measured	_	35295	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NOx(** *)	0/86.5 0.0	dB mg/kW h fuel input	For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger	_		m³/h

oxides (if applicable)	*)	0.0	input	side heat exchanger	_	-	m³/h
			GCV				
GWP of the refrigerant		466	kg CO ₂ eq (100 years)				
Contact details	prova		•				-
(*)							
(**) If Cdh is not determined	by measurem	ent then the	default deg	radation coefficient of heat pur	nps shall be	e 0,25.	
				i-split heat pumps, the test resu			ined on
the basis of the performance	e of the outdoo	or unit, with a	a combinatio	on of indoor unit(s) recommend	led by the r	manufacturer or importer.	