

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	flow rate						
Model: LAHP-1352LT454							
Outdoor side heat exchanger o	of heat pump	o: Air					
Indoor side heat exchanger of							
Indication if the heater is equip			ry heater: N	lot present			
If applicable: driver of compres							
Parameters shall be declared f	or the avera	ge heating se	ason, parar	meters for the warmer and cold	er heating seas	sons are optional.	
item	symb ol	value	unit	item	symb ol	value	unit
Rated heating capacity	P _{rated,h}	87.8	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	158	%
Declared heating capacity for part load at indoor temperature $20~^{\circ}\mathrm{C}$ and outdoor temperature Tj				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	77.6	kW	<i>Tj</i> = -7°C	COP _d	2.36	%
Tj = 2°C	Pdh	58.8	kW	<i>Tj</i> = 2°C	COP _d	3.92	%
<i>Tj</i> = 7°C	Pdh	71.3	kW	<i>Tj</i> = 7°C	COP _d	5.57	%
<i>Tj</i> = 12°C	Pdh	82.1	kW	<i>Tj</i> = 12°C	COP _d	7.27	%
Tbiv = -7°C	Pdh	77.6	kW	<i>Tj</i> = -7°C	COP _d	2.36	%
TOL = -10°C	Pdh	70.6	kW	$Tj = -10^{\circ}C$	COP _d	2.15	%
70L = -10 C	Pull	70.0	KVV	77 = -10 C	COP _d	2.15	70
For air-to-water heat pumps: Operation limit temperature <i>Tj</i> = -°C	Pdh	-	kW	For air-to-water heat pumps: $Tj = +-^{\circ}C$	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	n in modes	other than 'a	ctive mode	Supplementary heat	ter		
Off mode	P _{OFF}	0.02	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P _{TO}	0.67	kW	Type of energy input	_		-
Crankcase heater mode	P _{CK}	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	_	51091	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NOx(**	0/88.7 0.0	dB mg/kW h fuel input GCV	For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger			m³/h
			kg CO ₂				
GWP of the refrigerant		466	eq (100 years)				
Contact details	prova	•		•	· ·		
(*)	F						

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(***) From 26 September 2018. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

^(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.