

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	flow rate						
Model: LAHP-0682LT454							
Outdoor side heat exchanger of							
Indoor side heat exchanger of h Indication if the heater is equip			ry hoator: N				
If applicable: driver of compress	•		y neater. Is	0			
			ason, paran	neters for the warmer and colde	er heating s	easons are optional.	
item	symb	value	unit	item	symb ol	value	unit
Rated heating capacity	P _{rated,h}	45.2	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	165	%
Declared heating capacity for part load at indoor temperature $20 ^{\circ}\text{C}$ and outdoor temperature \textit{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	40.0	kW	<i>Tj</i> = -7°C	COP _d	2.44	%
Tj = 2°C	Pdh	29.4	kW	Tj = 2°C	COP _d	4.16	%
<i>Tj</i> = 7°C	Pdh	35.3	kW	<i>Tj</i> = 7°C	COP _d	5.77	%
<i>Tj</i> = 12°C	Pdh	40.4	kW	<i>Tj</i> = 12°C	COP _d	7.48	%
Tbiv = -7°C	Pdh	40.0	kW	<i>Tj</i> = -7°C	COP _d	2.44	%
TOL = -10°C	Pdh	36.2	kW	$T_i = -10^{\circ}C$	COP d	2.18	%
	Fun	30.2	I. V V	1710 C	COF d	2.10	/0
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}	0.98	_	Heating water operating limit temperature	WTol	60.0	°C
Power consumption	n in modes	other than 'a	ctive mode	Supplementary heater	er		- -
Off mode	P _{OFF}	0.02	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P _{TO}	0.27	kW	Type of energy input			<u>- </u>
Crankcase heater mode	P _{CK}	0.096	kW	Standby mode	P _{SB}	0.02	kW
Other items	_				_	•	_
Capacity control	staged			For air-to-air heat pumps: air flow rate, outdoor measured		18568	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NOx(***	0/80.6 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
GWP of the refrigerant		466	kg CO ₂ eq (100 years)				
Contact details	prova			.1	ļ		i.
(*)	<u> </u>						

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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.