

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 f							
Model: LAHP-1612LT454							
Outdoor side heat exchanger of							
Indoor side heat exchanger of he	<u> </u>						
Indication if the heater is equipp			y neater: N	0			
If applicable: driver of compress					h + i		
Parameters shall be declared for		ge neating se	ason, paran I	neters for the warmer and colder		easons are optional.	
	symb ol				symb ol		
item	OI	value	unit	item	OI	value	unit
				Seasonal space heating			
Rated heating capacity	P rated,h	106	kW	energy efficiency	$\eta_{s,h}$	158	%
				Declared coefficien	t of perfo	rmance or gas utilisation	
Declared heating capacity for part load at indoor temperature 20 $^{\circ}$ C and outdoor temperature Tj				efficiency/auxiliary energy factor for part load at given outdoor temperatures <i>Tj</i>			
Tj = 2°C	Pdh	69.8	kW	<i>Tj</i> = 2°C	COP _d	3.99	%
<i>Tj</i> = 7°C	Pdh	83.9	kW	<i>Tj</i> = 7°C	COP _d	5.45	%
				,			
<i>Tj</i> = 12°C	Pdh	96.5	kW	<i>Tj</i> = 12°C	COP _d	7.04	%
Tbiv = -7°C	Pdh	93.8	kW	<i>Tj</i> = -7°C	COP _d	2.37	%
<i>TOL</i> = -10°C	Pdh	85.8	kW	<i>Tj</i> = -10°C	COP _d	2.14	%
For air-to-water heat							
pumps: Operation limit				For air-to-water heat			
temperature $Tj = -$ °C	Pdh	-	kW	pumps: $Tj = +-^{\circ}C$	COP _d	-	%
					ū		
				For air-to-water heat			
Bivalent temperature	-	-7	°C	pumps: Operation limit temperature	T	-10	°C
Bivalent temperature	T biv	-/	C	temperature	T _{ol}	-10	
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	other than ' a	ctive mode	Supplementary heater				
				Back-up heating capacity			
Off mode	P OFF	0.02	kW	(*)	elbu	-	kW
Thermostat-off mode	P _{TO}	0.81	kW	Type of energy input		-	
Crankcase heater mode		0.11	kW	Standby mode	Д	0.02	kW
Other items	P _{CK}	0.11	KVV	Standby mode	P _{SB}	0.02	KVV
Other Items							
				For air-to-air heat pumps:			
				air flow rate, outdoor			3 //
Capacity control		staged	ı	measured	_	53449	m³/h
Sound power level,			dB	For water/brine-to-air heat			
indoor/outdoor measured	L _{WA}		mg/kW	pumps: Rated brine or			
Emissions of nitrogen	NOx(**	0/89.5	h fuel	water flow rate, outdoor			3
oxides (if applicable)	*)	0.0	input	side heat exchanger		-	m³/h
			GCV				
			kg CO ₂ eq (100				
GWP of the refrigerant		466	years)				
Contact details	prova		<u>-</u>	•	-		-
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(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.

(***) 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.