

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 f	low rate						
Model: LAHP-0752LT454							
Outdoor side heat exchanger of							
Indoor side heat exchanger of he							
Indication if the heater is equipp			y neater: N	0			
If applicable: driver of compress							
Parameters shall be declared for		ge neating se I	ason, paran I	neters for the warmer and colder		easons are optional.	
	symb				symb		
item	ol	value	unit	item	ol	value	unit
				Seasonal space heating			
Rated heating capacity	P rated,h	49.9	kW	energy efficiency	$\eta_{s,h}$	162	%
				Declared coefficien	t of perfo	rmance or gas utilisation	
Declared heating capacity for part load at indoor temperature				efficiency/auxiliary energy factor for part load at given outdoor			
20 °C and outdoor temperature <i>Tj</i>				temperatures <i>Tj</i>			
<i>Tj</i> = -7°C	Pdh	44.2	kW	<i>Tj</i> = -7°C	COP_d	2.39	%
Tj = 2°C	Pdh	33.2	kW	Tj = 2°C	COP _d	4.13	%
<i>Tj</i> = 7°C	Pdh	39.9	kW	<i>Tj</i> = 7°C	COP _d	5.64	%
<i>Tj</i> = 12°C				+ '			-
-	Pdh	45.5	kW	<i>Tj</i> = 12°C	COP _d	7.18	%
Tbiv = -7°C	Pdh	44.2	kW	<i>Tj</i> = -7°C	COP _d	2.39	%
<i>TOL</i> = -10°C	Pdh	40.0	kW	<i>Tj</i> = -10°C	COP_d	2.12	%
For air-to-water heat							
pumps: Operation limit				For air-to-water heat			
temperature <i>Tj</i> = -°C	Pdh	-	kW	pumps: $Tj = +-^{\circ}C$	COP_d	-	%
				For air-to-water heat			
				pumps: Operation limit			
Bivalent temperature	T biv	-7	°C	temperature	T ol	-10	°C
· ·	· biv	,	Ü		• 01	10	-
Cycling interval capacity for	_		LAAZ	Cualing interval officiones	COD		0/
heating	P cych	-	kW	Cycling interval efficiency	COP cyc	-	%
Degradation co-efficient				Heating water operating			
chillers(*)	C _{dh}	0.98		limit temperature	WTol	60.0	°C
Power consumption	in modes	other than ' a	ctive mode	Supplementary heater	r		
				Back-up heating capacity			
Off mode	P OFF	0.02	kW	(*)	elbu	-	kW
Thermostat-off mode	P _{TO}	0.31	kW	Type of energy input		-	
Crankcase heater mode	P _{CK}	0.096	kW	Standby mode	P _{SB}	0.02	kW
Other items	CK		l .	,	36		
				For sin to sin book norman			
				For air-to-air heat pumps: air flow rate, outdoor			
Capacity control		staged		measured		18970	m³/h
Capacity Control		stageu		measured	_	18370	111 /11
Sound power level,			dB	For water/brine-to-air heat			
indoor/outdoor measured Emissions of nitrogen	L _{WA}	0/81.9	mg/kW	pumps: Rated brine or water flow rate, outdoor			
oxides (if applicable)	NOx(**	0.0	h fuel input	side heat exchanger		_	m³/h
onides (ii applicable)	,	0.0		Side fiedt exchanger	_	-	/ !!
			GCV kg CO ₂				
			eq (100				
GWP of the refrigerant		466	years)				
Contact details	prova						
(*)							

(***) 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.