

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						
Model: LAHP-0912LT454							
Outdoor side heat exchanger o							
Indoor side heat exchanger of							
Indication if the heater is equip	<u> </u>		ry heater: N	lo			
If applicable: driver of compres							
Parameters shall be declared to		lge neating se	ason, parar	meters for the warmer and cold		ons are optional.	
item	symb ol	value	unit	item	symb ol	value	unit
Rated heating capacity	P _{rated,h}	59.4	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	154	%
Declared heating capacity for part load at indoor temperature $20~^{\circ}\text{C}$ 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	52.6	kW	<i>Tj</i> = -7°C	COP _d	2.40	%
Tj = 2°C	Pdh	29.7	kW	Tj = 2°C	COP _d	3.70	%
<i>Tj</i> = 7°C	Pdh	36.1	kW	<i>Tj</i> = 7°C	COP _d	5.49	%
<i>Tj</i> = 12°C	Pdh	42.1	kW	<i>Tj</i> = 12°C	COP _d	7.71	%
Tbiv = -7°C	Pdh	52.6	kW	<i>Tj</i> = -7°C	COP _d	2.40	%
TOL = -10°C	Pdh	47.6	kW	<i>Tj</i> = -10°C	COP _d	2.13	%
For air-to-water heat pumps: Operation limit temperature $Tj = -^{\circ}C$	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}	0.98	_	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}	0.31	kW	Type of energy input			-
Crankcase heater mode	P _{CK}	0.10	kW	Standby mode	P _{SB}	0.02	kW
Other items							•
Capacity control		staged	1	For air-to-air heat pumps: air flow rate, outdoor measured		34182	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NOx(**	0/85.5 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		· · ·	1			<u> </u>
(*)	p. 5.0						

(**) 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.