

## 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-2304LT454							
Outdoor side heat exchanger of							
Indoor side heat exchanger of hadication if the heater is equip			u boator: N	lo.			
If applicable: driver of compress	-		y neater. IV	10			
			ason narar	neters for the warmer and colde	r heating s	easons are ontional	
Tarameters shall be declared to	symb	ge riedeling se	ason, parar	The term of the warmer and colde	symb	casons are optional.	
item	ol	value	unit	item	ol	value	unit
					1		
Rated heating capacity	D	148	kW	Seasonal space heating energy efficiency	, n	162	%
hated fleating capacity	P rated,h	140	KVV		$\eta_{s,h}$		70
				Declared coefficient of performance or gas utilisation			
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature <i>Tj</i>				efficiency/auxiliary energy factor for part load at given outdoor temperatures <i>Tj</i>			
<i>Tj</i> = -7°C	Pdh	131	kW	<i>Tj</i> = -7°C	COP <sub>d</sub>	2.44	%
<i>Tj</i> = 2°C	Pdh	85.1000	kW	Tj = 2°C	COP <sub>d</sub>	4.01	%
<i>Tj</i> = 7°C	Pdh	51.8000	kW	<i>Tj</i> = 7°C	COP <sub>d</sub>	5.61	%
<i>Tj</i> = 12°C	Pdh	59.9000	kW	<i>Tj</i> = 12°C	COP <sub>d</sub>	7.38	%
Tbiv = -7°C	Pdh	131	kW	<i>Tj</i> = -7°C	COP <sub>d</sub>	2.44	%
TOL = -10°C	Pdh	119	kW	<i>Tj</i> = -10°C	COP <sub>d</sub>	2.16	%
							, -
For air-to-water heat				Fan air ta watan baat			
pumps: Operation limit temperature $Tj = -^{\circ}C$	Ddb	_	LAA	For air-to-water heat pumps: <i>Tj</i> = +-°C	COP <sub>d</sub>		%
temperature 1j = - C	Pdh	-	kW	pullips. If = +- C	COP <sub>d</sub>	-	%
				For air-to-water heat			
				pumps: Operation limit			
Bivalent temperature	T <sub>biv</sub>	-7	°C	temperature	T ol	-10	°C
Cycling interval capacity for							
heating	P cych	-	kW	Cycling interval efficiency	COP cyc	-	%
Degradation co-efficient				Heating water operating			
chillers(*)	$C_{dh}$	0.97	_	limit temperature	WTol	60.0000	°C
Power consumption in modes other than 'active mode'				Supplementary heater			
				Back-up heating capacity			
Off mode	P <sub>OFF</sub>	0.02	kW	(*)	elbu	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.66	kW	Type of energy input		_	
Crankcase heater mode		0.21	kW	Standby mode	P <sub>SB</sub>	0.15	kW
Other items	P <sub>CK</sub>	0.21	KVV	Standby mode	F SB	0.13	KVV
Other recitis							
				For air-to-air heat pumps:			
Canacity control			air flow rate, outdoor measured		72207	m³/h	
Capacity control	+	staged	I	measured	_	72397	m /n
Sound power level,			dB	For water/brine-to-air heat			
indoor/outdoor measured	L <sub>WA</sub>	0/00 7	mg/kW	pumps: Rated brine or			
Emissions of nitrogen oxides (if applicable)	NOx(**	0/90.7 0.0	h fuel input	water flow rate, outdoor side heat exchanger			m³/h
ovides (II abblicable)	-,	0.0		side liear excilatiget	<del>  -</del>	-	111 /11
	1		GCV kg CO <sub>2</sub>		1		
			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.

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