

## 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-3514LT454							
Outdoor side heat exchanger o							
Indoor side heat exchanger of I Indication if the heater is equip			ny hoator: N	•			
If applicable: driver of compres	<u> </u>	• • • • • • • • • • • • • • • • • • • •	y neater. IN	0			
			ason naran	neters for the warmer and cold	er heating s	easons are ontional	
r drameters shall be declared to	symb	ge neuting se	ason, paran	The transfer and cold	symb	edsons are optional.	
item	ol	value	unit	item	ol	value	unit
Rated heating capacity	P <sub>rated,h</sub>	243	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	159	%
	•			Declared coeffici	ent of perfo	ormance or gas utilisation	
Declared heating capacity for part load at indoor temperature $20~^{\circ}\text{C}$ and outdoor temperature $Tj$				efficiency/auxiliary energy factor for part load at given outdoor temperatures <i>Tj</i>			
<i>Tj</i> = -7°C	Pdh	215	kW	Tj = -7°C	COP <sub>d</sub>	2.43	%
Tj = 2°C	Pdh	143	kW	Tj = 2°C	COP <sub>d</sub>	4.06	%
<i>Tj</i> = 7°C	Pdh	87.3000	kW	<i>Tj</i> = 7°C	COP <sub>d</sub>	5.11	%
<i>Tj</i> = 12°C	Pdh	99.2000	kW	<i>Tj</i> = 12°C	COP <sub>d</sub>	7.19	%
Tbiv = -7°C	Pdh	215	kW	<i>Tj</i> = -7°C	COP <sub>d</sub>	2.43	%
TOL = -10°C	Pdh	195	kW	<i>Tj</i> = -10°C	COP <sub>d</sub>	2.18	%
For air-to-water heat pumps: Operation limit temperature <i>Tj</i> = -°C	Pdh	-	kW	For air-to-water heat pumps: $Tj = +-^{\circ}C$	COP <sub>d</sub>	-	%
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	T ol	-10	°C
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW	Cycling interval efficiency	COP <sub>cyc</sub>	-	%
Degradation co-efficient chillers(*)	C <sub>dh</sub>	0.98	_	Heating water operating limit temperature	WTol	60.0000	°C
Power consumptio	n in modes	other than 'a	ctive mode	Supplementary heat	er	•	
Off mode	P <sub>OFF</sub>	0.02	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P <sub>TO</sub>	1.32	kW	Type of energy input		-	-
Crankcase heater mode	P <sub>CK</sub>	0.22	kW	Standby mode	P <sub>SB</sub>	0.15	kW
Other items							
Capacity control		staged	T	For air-to-air heat pumps: air flow rate, outdoor measured	_	102834	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L wa NOx(**	0/92.7 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 <sub>2</sub> eq (100 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.