

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

Model: LAHP-4454LT454							
Outdoor side heat exchanger o							
ndoor side heat exchanger of I							
ndication if the heater is equip			ry heater: N	0			
f applicable: driver of compres							
Parameters shall be declared for	or the avera	ge heating se	ason, paran	neters for the warmer and colde	r heating s	easons are optional.	
item	symb ol	value	unit	item	symb ol	value	unit
Rated heating capacity	P _{rated,h}	301	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	157	%
Declared heating capacity fo 20 °C and outo	or part load a		perature		•	rmance or gas utilisation for part load at given outdo ures <i>Tj</i>	or
Tj = -7°C	Pdh	266	kW	<i>Tj</i> = -7°C	COP _d	2.44	%
Tj = 2°C	Pdh	162	kW	Tj = 2°C	COP _d	3.88	%
τj = 7°C				$Tj = 7^{\circ}C$			%
•	Pdh	135	kW		COP _d	5.42	
<i>Tj</i> = 12°C	Pdh	154	kW	$Tj = 12^{\circ}C$	COP _d	6.94	%
Tbiv = -7°C	Pdh	266	kW	<i>Tj</i> = -7°C	COP _d	2.44	%
$TOL = -10^{\circ}C$	Pdh	242	kW	<i>Tj</i> = -10°C	COP _d	2.20	%
For air-to-water heat pumps: Operation limit temperature <i>Tj =</i> -°C	Pdh	-	kW	For air-to-water heat pumps: <i>Tj</i> = +-°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}	0.99	_	Heating water operating limit temperature	WTol	60.0000	°C
Power consumptio	n in modes	other than ' a	ctive mode	Supplementary heate	er		-
Off mode	P _{OFF}	0.02	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P _{TO}	1.49	kW	Type of energy input			
Crankcase heater mode					0	0.15	1.1.4.(
Other items	Р _{СК}	0.22	kW	Standby mode	P _{SB}	0.15	kW
Capacity control	staged			For air-to-air heat pumps: air flow rate, outdoor measured	_	137823	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NOx(** *)	0/88.5 0.0	dB mg/kW h fuel input	For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger	_	-	m³/h
GWP of the refrigerant		466	GCV kg CO ₂ eq (100 years)				
Contact details	prova						
(***) From 26 September 2018	8. Where info	ormation rela	tes to mult	radation coefficient of heat pum i-split heat pumps, the test resul f indoor unit(s) recommended b	t and perfo	rmance data may be obtair	ned on th