

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-2012LT454							
Outdoor side heat exchanger o							
ndoor side heat exchanger of I							
ndication if the heater is equip			y heater: N	lo			
f applicable: driver of compres							
Parameters shall be declared for	or the avera	ge heating se	ason, parar	neters for the warmer and colde	r heating se	asons are optional.	
item	symb ol	value	unit	item	symb ol	value	unit
Rated heating capacity	P _{rated,h}	132	kW	Seasonal space heating energy efficiency	η _{s,h}	165	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature <i>Tj</i>				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	117	kW	<i>Tj</i> = -7°C	COP _d	2.45	%
Tj = 2°C	Pdh	87.3000	kW	Tj = 2°C	COP _d	4.18	%
Γj = 7°C	Pdh	105	kW	Tj = 7°C	COP _d	5.68	%
•	-			,			
<i>Tj</i> = 12°C	Pdh	121	kW	$Tj = 12^{\circ}C$	COP _d	7.25	%
Tbiv = -7°C	Pdh	117	kW	<i>Tj</i> = -7°C	COP _d	2.45	%
$TOL = -10^{\circ}C$	Pdh	107	kW	$Tj = -10^{\circ}C$	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
	- DIV		-		- 01		
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	r		
				Back-up heating capacity			
Off mode	P _{OFF}	0.02	kW	(*)	elbu	-	kW
Thermostat-off mode	Ρ _{ΤΟ}	0.47	kW	Type of energy input			-
Crankcase heater mode	Р _{ск}	0.11	kW	Standby mode	P _{SB}	0.02	kW
Other items	' CK	0.11			SB	0.02	ĸ₩
Capacity control	staged			For air-to-air heat pumps: air flow rate, outdoor measured	_	55787	m³/h
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NOx(** *)	0/91.5 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
GWP of the refrigerant		466	kg CO ₂ eq (100 years)				
Contact details	prova						
(*) (**) If Cdh is not determined by (***) From 26 September 2018			_	radation coefficient of heat pum			