

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-0452LT454

Outdoor side heat exchanger of heat pump: **Air** Indoor side heat exchanger of heat pump: **Water** Indication if the heater is equipped with a supplementary heater: **No**

If applicable: driver of compressor: Electric motor

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	
				Seasonal space heating				
Rated heating capacity	P _{rated,h}	29.3	kW	energy efficiency	$\eta_{s,h}$	156	%	
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	25.9	kW	<i>Tj</i> = -7°C	COP _d	2.23	%	
<i>Tj</i> = 2°C	Pdh	22.1	kW	Tj = 2°C	COP _d	3.97	%	
<i>Tj</i> = 7°C	Pdh	26.6	kW	Tj = 7°C	COP d	5.67	%	
<i>Tj</i> = 12°C	Pdh	30.4	kW	<i>Tj</i> = 12°C	COP d	7.52	%	
Tbiv = -7°C	Pdh	25.9	kW	<i>Tj</i> = -7°C	COP _d	2.23	%	
<i>TOL</i> = -10°C	Pdh	23.4	kW	$T_i = -10^{\circ} \text{C}$	COP d	2.02	%	
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}	0.98	_	Heating water operating limit temperature	WTol	60.0	°C	
Power consumption	n in modes	other than 'a	ctive mode	Supplementary heate	r			
Off mode	P _{OFF}	0.02	kW	Back-up heating capacity (*)	elbu	-	kW	
Thermostat-off mode	Р _{то}	0.21	kW	Type of energy input			-	
Crankcase heater mode	Р _{СК}	0.096	kW	Standby mode	P _{SB}	0.02	kW	
Other items				-		-	-	
Capacity control		staged		For air-to-air heat pumps: air flow rate, outdoor measured	_	15642	m³/ł	
Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable)	L _{WA} NOx(** *)	0/77.7 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/ł	

oxides (il applicable)	•)	0.0	input	side heat exchanger	_	-	111 / 11

			GCV						
			kg CO ₂ eq (100						
GWP of the refrigerant		466	years)						
Contact details	prova								
(*)									
(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.									
obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer									