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-88HTR290								
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: **Not present**								
If applicable: driver of compressor: **Electric motor**								
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.								
item	symbol	value	unit		item	symbol	value	unit
Rated heating capacity	$P_{rated,h}$	70.7	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	152	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature *Tj*					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures *Tj*			
Tj = -7°C	*Pdh*	57.6	kW		*Tj* = -7°C	COP_d	2.57	%
Tj = 2°C	*Pdh*	43.7	kW		*Tj* = 2°C	COP_d	3.83	%
Tj = 7°C	*Pdh*	50.5	kW		*Tj* = 7°C	COP_d	5.00	%
Tj = 12°C	*Pdh*	57.3	kW		*Tj* = 12°C	COP_d	6.15	%
Tbiv = -6°C	*Pdh*	59.8	kW		*Tj* = -6°C	COP_d	2.67	%
TOL = -10°C	*Pdh*	51.6	kW		*Tj* = -10°C	COP_d	2.29	%
For air-to-water heat pumps: Operation limit temperature *Tj* = -°C	*Pdh*	-	kW		For air-to-water heat pumps: *Tj* = +-°C	COP_d	-	%
Bivalent temperature	T_{biv}	-6	°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*	70.0	°C
Power consumption in modes other than 'active mode'					**Supplementary heater**			
Off mode	P_{OFF}	0.10	kW		Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P_{TO}	0.30	kW		Type of energy input		-	
Crankcase heater mode	P_{CK}	0.12	kW		Standby mode	P_{SB}	0.10	kW

Other items								
Capacity control	staged				For air-to-air heat pumps: air flow rate, outdoor measured	–	33036	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	0/88	dB		For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger	–	-	m^3/h
Emissions of nitrogen oxides (if applicable)	$NO_{X(***)}$	0.0	mg/kWh fuel input GCV					
GWP of the refrigerant		3	kg CO_2 eq (100 years)		<1			
Contact details	prova							

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