

HEATING MODE

Model	: PERS.052M
Outdoor side heat exchanger	: Air
Indoor side heat exchanger	: Air
Type	: Compressor driven vapour compression
Driver of the compressor	: Electric Motor

Rated heating capacity [kW] - $P_{rated,h}$	30,13
Seasonal space heating energy efficiency [%] - $\eta_{s,h}$	126,8
Seasonal coefficient of performance - SCOP	3,25
Sound power level, outdoor [dB] - L_{WA}	86

Declared heating capacity for part load at given outdoor temperatures T_j and indoor 20°C (Dry bulb)		
Pdh		
	Value	Unit
$T_j = -7\text{ °C}$	20,70	[kW]
$T_j = +2\text{ °C}$	15,74	[kW]
$T_j = +7\text{ °C}$	11,31	[kW]
$T_j = +12\text{ °C}$	12,84	[kW]
$T_j = T_{biv}\text{ °C}$	22,74	[kW]
$T_j = T_{ol}\text{ °C}$	19,14	[kW]
If $TOL < -20\text{ °C}$, $T_j = -15\text{ °C}$ (for air-to-water (brine) heat pumps)	-	[kW]

Declared efficiency of performance for part load at given outdoor temperature T_j and indoor 20°C (Dry bulb)		
COP _d		
	Value	Unit
$T_j = -7\text{ °C}$	2,56	[kW]
$T_j = +2\text{ °C}$	3,63	[kW]
$T_j = +7\text{ °C}$	3,98	[kW]
$T_j = +12\text{ °C}$	4,54	[kW]
$T_j = T_{biv}\text{ °C}$	2,71	[kW]
$T_j = T_{ol}\text{ °C}$	2,41	[kW]
If $TOL < -20\text{ °C}$, $T_j = -15\text{ °C}$ (for air-to-water (brine) heat pumps)	-	[kW]

Bivalent temperature	T_{biv}	-2	°C
Degradation coefficient, for each part load condition where it is relevant ¹	Cd_h	0,25	

Power input in modes other than active mode								
Off mode	[kW]	P _{OFF}	0,00		Crankcase heater mode	[kW]	P _{CK}	0,11
Thermostat-off mode	[kW]	P _{TO}	0,02		Standby mode	[kW]	P _{SB}	0,04
Supplementary heater					Heating capacity	[kW]	elbu	11,91
					Type of energy input		Electric	
Capacity control					Staged			
GWP of the refrigerant, kg CO ₂ eq [100 years]					466			
For air-to-air air conditioner: air flow rate, outdoor measured [m ³ /h]					18763			

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¹ If Cd_h is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.