



HEATING MODE

Model	: PERS.144M
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] - $P_{rated,h}$	87,71
Seasonal space heating energy efficiency [%] - $\eta_{s,h}$	136,2
Seasonal coefficient of performance - SCOP	3,48
Sound power level, outdoor [dB] - L_{WA}	84

Declared heating capacity for part load at given outdoor temperatures T_j and indoor 20°C (Dry bulb)		
Pdh		
	Value	Unit
$T_j = -7\text{ °C}$	61,02	[kW]
$T_j = +2\text{ °C}$	53,96	[kW]
$T_j = +7\text{ °C}$	33,61	[kW]
$T_j = +12\text{ °C}$	38,23	[kW]
$T_j = T_{biv}\text{ °C}$	66,93	[kW]
$T_j = T_{ol}\text{ °C}$	56,33	[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
$T_j = -7\text{ °C}$	2,82	[kW]
$T_j = +2\text{ °C}$	3,73	[kW]
$T_j = +7\text{ °C}$	4,42	[kW]
$T_j = +12\text{ °C}$	5,14	[kW]
$T_j = T_{biv}\text{ °C}$	2,95	[kW]
$T_j = T_{ol}\text{ °C}$	2,67	[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}	0,18
Thermostat-off mode	[kW]	P _{TO}	0,02		Standby mode	[kW]	P _{SB}	0,04
Supplementary heater					Heating capacity	[kW]	elbu	35,45
					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]					38341			

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