

## HEATING MODE

Model	: PERS.144G
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] - $P_{rated,h}$	90,79
Seasonal space heating energy efficiency [%] - $\eta_{s,h}$	133,9
Seasonal coefficient of performance - SCOP	3,42
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
$T_j = -7\text{ °C}$	64,02	[kW]
$T_j = +2\text{ °C}$	56,54	[kW]
$T_j = +7\text{ °C}$	35,66	[kW]
$T_j = +12\text{ °C}$	40,39	[kW]
$T_j = T_{biv}\text{ °C}$	69,70	[kW]
$T_j = T_{ol}\text{ °C}$	59,27	[kW]
If TOL < -20°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 <sub>d</sub>		
	Value	Unit
$T_j = -7\text{ °C}$	2,76	[kW]
$T_j = +2\text{ °C}$	3,65	[kW]
$T_j = +7\text{ °C}$	4,39	[kW]
$T_j = +12\text{ °C}$	5,04	[kW]
$T_j = T_{biv}\text{ °C}$	2,87	[kW]
$T_j = T_{ol}\text{ °C}$	2,62	[kW]
If TOL < -20°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 <sup>1</sup>	$Cd_h$	0,25	

Power input in modes other than active mode								
Off mode	[kW]	P <sub>OFF</sub>	0,00		Crankcase heater mode	[kW]	P <sub>CK</sub>	0,18
Thermostat-off mode	[kW]	P <sub>TO</sub>	0,02		Standby mode	[kW]	P <sub>SB</sub>	0,04
Supplementary heater					Heating capacity	[kW]	elbu	36,37
					Type of energy input	Electric		
Capacity control					Staged			
GWP of the refrigerant, kg CO <sub>2</sub> eq [100 years]					2088			
For air-to-air air conditioner: air flow rate, outdoor measured [m <sup>3</sup> /h]					38344			

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