

Compress 5000 AW

CS5000AW 22 O

8738212197

To the extent applicable to the product, the following data are based on the requirements of Regulations (EU) 811/2013 and (EU) 813/2013.

Productdata	Symbol	Unit	8738212197
Energy Efficiency Class			A++
Energy efficiency class (low temperature application)			A++
Rated heat output (average climate conditions)	Prated	kW	21
Rated heat output (low temperature application, average climate conditions)	Prated	kW	21
Seasonal space heating energy efficiency (average climate conditions)	η_s	%	125
Seasonal space heating energy efficiency (low temperature application, average climate conditions)	η_s	%	152
Annual energy consumption (average climate conditions)	Q_{HE}	kWh	13342
Annual energy consumption (low temperature application, average climate conditions)	Q_{HE}	kWh	11198
Sound power level, indoors	L_{WA}	dB	-
Special precautions to be taken during assembly, installation or maintenance (if applicable): see product accompanying documents			
Rated heat output (colder climate conditions)	Prated	kW	15
Rated heat output (low temperature application, colder climate conditions)	Prated	kW	15
Rated heat output (warmer climate conditions)	Prated	kW	23
Rated heat output (low temperature application, warmer climate conditions)	Prated	kW	24
Seasonal space heating energy efficiency (colder climate conditions)	η_s	%	118
Seasonal space heating energy efficiency (low temperature application, colder climate conditions)	η_s	%	141
Seasonal space heating energy efficiency (warmer climate conditions)	η_s	%	146
Seasonal space heating energy efficiency (low temperature application, warmer climate conditions)	η_s	%	180
Annual energy consumption (colder climate conditions)	Q_{HE}	kWh	11877
Annual energy consumption (low temperature application, colder climate conditions)	Q_{HE}	kWh	9920
Annual energy consumption (warmer climate conditions)	Q_{HE}	kWh	8267
Annual energy consumption (low temperature application, warmer climate conditions)	Q_{HE}	kWh	6998
Sound power level, outdoors	L_{WA}	dB	61
Air-to-water heat pump			Yes
Water-to-water heat pump			No
Brine-to-water heat pump			No
Low temperature heat pump			No
Equipped with a supplementary heater?			No
Heat pump combination heater			No
Additional data for integrated temperature control			
Class of the temperature control			III
Contribution of the temperature control to seasonal space heating efficiency		%	1,5
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C (average climate conditions)	Pdh	kW	22,2
Tj = + 2 °C (average climate conditions)	Pdh	kW	14,1
Tj = + 7 °C (average climate conditions)	Pdh	kW	17,6
Tj = + 12 °C (average climate conditions)	Pdh	kW	21,3
Tj = bivalent temperature (average climate conditions)	Pdh	kW	20,6
Tj = operation limit temperature	Pdh	kW	20,6
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	kW	-
Bivalent temperature (average climate conditions)	T_{biv}	°C	-10
Bivalent temperature (warmer climate conditions)	T_{biv}	°C	2
Cycling interval capacity for heating (average climate conditions)	Pcych	kW	-

Data at the time of printing. Latest version available on the Internet.

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Productdata	Symbol	Unit	8738212197
Degradation coefficient			-
Degradation co-efficient $T_j = -7\text{ °C}$	Cdh		1,0
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j /			
$T_j = -7\text{ °C}$ (average climate conditions)	COPd		2,36
$T_j = -7\text{ °C}$ (average climate conditions)	PERd	%	-
$T_j = +2\text{ °C}$ (average climate conditions)	COPd		3,22
$T_j = +2\text{ °C}$ (average climate conditions)	PERd	%	-
$T_j = +7\text{ °C}$ (average climate conditions)	COPd		3,95
$T_j = +7\text{ °C}$ (average climate conditions)	PERd	%	-
$T_j = +12\text{ °C}$ (average climate conditions)	COPd		4,93
$T_j = +12\text{ °C}$ (average climate conditions)	PERd	%	-
T_j = bivalent temperature (average climate conditions)	COPd		2,17
T_j = bivalent temperature	PERd	%	-
T_j = operation limit temperature	COPd		2,17
T_j = operation limit temperature	PERd	%	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	COPd		-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	PERd	%	-
For air-to-water heat pumps: Operation limit temperature	TOL	°C	-22
Cycling interval efficiency (average climate conditions)	COP _{cy}		-
Cycling interval efficiency	PER _{cy}	%	-
Heating water operating limit temperature	WTOL	°C	60
Power consumption in modes other than active mode			
Off mode	P_{OFF}	kW	0,020
Thermostat-off mode	P_{TO}	kW	0,020
In standby mode	P_{SB}	kW	0,020
Crankcase heater mode	P_{CK}	kW	0,088
Supplementary heater			
Rated heat output supplementary heater	P_{sup}	kW	0,0
Type of energy input			-
Other items			
Capacity control			stepped
Emissions of nitrogen oxides (only gas- or oil fired)	NO_x	mg/kWh	-
For air-to-water heat pumps: Rated air flow rate, outdoors		m ³ /h	5700
For brine-to-water heat pumps: Rated brine flow rate, outdoor heat exchanger		m ³ /h	-

Further important information for installation, maintenance as well as recycling and/or disposal are provided within the installation and operating manuals. Read and follow the installation and operating manuals.

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System data sheet: To the extent applicable to the product, the following data are based on the requirements of Regulation (EU) 811/2013.

The energy efficiency given in this data sheet for the product combination may deviate from the energy efficiency after its installation in a building, since this is influenced by other factors such as heat loss in the distribution system and the dimensioning of the products in relation to the size and characteristics of the building.

Information about calculating the space heating energy efficiency			
I	Value for the space heating energy efficiency of the preferential space heater	125	%
II	Factor for the weighting of the heat output of the preferential and supplementary heaters of a package system	0,00	-
III	Value of the mathematical expression $294/(11 \cdot \text{Prated})$	1,27	-
IV	Value of the mathematical expression $115/(11 \cdot \text{Prated})$	0,50	-
V	Difference between the seasonal space heating energy efficiency with average and colder climate conditions	7	%
VI	Difference between the seasonal space heating energy efficiency with warmer and average climate conditions	21	%

Seasonal space heating energy efficiency of the heat pump **I** = **1** 125 %

Temperature control (From the data sheet of the temperature control) + **2** 1,5 %

Class: I = 1 %, II = 2 %, III = 1.5 %, IV = 2 %, V = 3 %, VI = 4 %, VII = 3.5 %, VIII = 5 %

Supplementary boiler (From the data sheet of the boiler) (-) - I) x II = - **3** - %

Seasonal space heating energy efficiency (in %)

Solar contribution (III x - + IV x -) x 0,45 x (-) /100) x - = + **4** - %

(From the data sheet of the solar device)

Collector size (in m²)

Storage tank volume (in m³)

Collector efficiency (in %)

Storage tank rating: A⁺ = 0.95, A = 0.91, B = 0.86, C = 0.83, D-G = 0.81

Seasonal space heating energy efficiency of the package system

- with average climate conditions: **5** 135 %

Seasonal space heating energy efficiency class of the package system with average climate conditions

G < 30 %, F ≥ 30 %, E ≥ 34 %, D ≥ 36 %, C ≥ 75 %, B ≥ 82 %, A ≥ 90 %, A⁺ ≥ 98 %, A⁺⁺ ≥ 125 %, A⁺⁺⁺ ≥ 150 %

A⁺⁺

Seasonal space heating energy efficiency

- with colder climate conditions: **5** 135 - V = 123 %

- with warmer climate conditions: **5** 135 + VI = 157 %