

**Compress 2000 AWF**

CS2000AWF 22 R-T

7738602288

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	7738602288
Energy Efficiency Class			A++
Energy efficiency class (low temperature application)			A+++
Rated heat output (average climate conditions)	Prated	kW	22
Rated heat output (low temperature application, average climate conditions)	Prated	kW	22
Seasonal space heating energy efficiency (average climate conditions)	$\eta_s$	%	126
Seasonal space heating energy efficiency (low temperature application, average climate conditions)	$\eta_s$	%	178
Annual energy consumption (average climate conditions)	$Q_{HE}$	kWh	14390
Annual energy consumption (low temperature application, average climate conditions)	$Q_{HE}$	kWh	10180
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	22
Rated heat output (low temperature application, colder climate conditions)	Prated	kW	21
Rated heat output (warmer climate conditions)	Prated	kW	22
Rated heat output (low temperature application, warmer climate conditions)	Prated	kW	22
Seasonal space heating energy efficiency (colder climate conditions)	$\eta_s$	%	102
Seasonal space heating energy efficiency (low temperature application, colder climate conditions)	$\eta_s$	%	146
Seasonal space heating energy efficiency (warmer climate conditions)	$\eta_s$	%	161
Seasonal space heating energy efficiency (low temperature application, warmer climate conditions)	$\eta_s$	%	234
Annual energy consumption (colder climate conditions)	$Q_{HE}$	kWh	21067
Annual energy consumption (low temperature application, colder climate conditions)	$Q_{HE}$	kWh	14179
Annual energy consumption (warmer climate conditions)	$Q_{HE}$	kWh	7180
Annual energy consumption (low temperature application, warmer climate conditions)	$Q_{HE}$	kWh	4945
Sound power level, outdoors	$L_{WA}$	dB	73
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?			Yes
Heat pump combination heater			No
<b>Additional data for integrated temperature control</b>			
Class of the temperature control			II
Contribution of the temperature control to seasonal space heating efficiency		%	2,0
<b>Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj</b>			
Tj = - 7 °C (average climate conditions)	Pdh	kW	1,7
Tj = + 2 °C (average climate conditions)	Pdh	kW	3,3
Tj = + 7 °C (average climate conditions)	Pdh	kW	4,6
Tj = + 12 °C (average climate conditions)	Pdh	kW	5,2
Tj = bivalent temperature (average climate conditions)	Pdh	kW	1,7
Tj = operation limit temperature	Pdh	kW	1,1
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	kW	1,2
Bivalent temperature (average climate conditions)	$T_{biv}$	°C	-7
Bivalent temperature (warmer climate conditions)	$T_{biv}$	°C	7
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	7738602288
Degradation coefficient			-
Degradation co-efficient $T_j = -7\text{ °C}$	Cdh		0,9
<b>Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature <math>T_j</math> /</b>			
$T_j = -7\text{ °C}$ (average climate conditions)	COPd		1,74
$T_j = -7\text{ °C}$ (average climate conditions)	PERd	%	-
$T_j = +2\text{ °C}$ (average climate conditions)	COPd		3,30
$T_j = +2\text{ °C}$ (average climate conditions)	PERd	%	-
$T_j = +7\text{ °C}$ (average climate conditions)	COPd		4,62
$T_j = +7\text{ °C}$ (average climate conditions)	PERd	%	-
$T_j = +12\text{ °C}$ (average climate conditions)	COPd		5,20
$T_j = +12\text{ °C}$ (average climate conditions)	PERd	%	-
$T_j$ = bivalent temperature (average climate conditions)	COPd		1,74
$T_j$ = bivalent temperature	PERd	%	-
$T_j$ = operation limit temperature	COPd		1,08
$T_j$ = operation limit temperature	PERd	%	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	COPd		1,24
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	-10
Cycling interval efficiency (average climate conditions)	COP <sub>cy</sub>		-
Cycling interval efficiency	PER <sub>cy</sub>	%	-
Heating water operating limit temperature	WTOL	°C	60
<b>Power consumption in modes other than active mode</b>			
Off mode	$P_{OFF}$	kW	0,017
Thermostat-off mode	$P_{TO}$	kW	0,084
In standby mode	$P_{SB}$	kW	0,017
Crankcase heater mode	$P_{CK}$	kW	0,000
<b>Supplementary heater</b>			
Rated heat output supplementary heater	$P_{sup}$	kW	8,6
Type of energy input			Electric
<b>Other items</b>			
Capacity control			variable
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 <sup>3</sup> /h	8950
For brine-to-water heat pumps: Rated brine flow rate, outdoor heat exchanger		m <sup>3</sup> /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			
<b>I</b>	Value for the space heating energy efficiency of the preferential space heater	126	%
<b>II</b>	Factor for the weighting of the heat output of the preferential and supplementary heaters of a package system	0,00	-
<b>III</b>	Value of the mathematical expression $294/(11 \cdot \text{Prated})$	1,21	-
<b>IV</b>	Value of the mathematical expression $115/(11 \cdot \text{Prated})$	0,48	-
<b>V</b>	Difference between the seasonal space heating energy efficiency with average and colder climate conditions	24	%
<b>VI</b>	Difference between the seasonal space heating energy efficiency with warmer and average climate conditions	35	%

**Seasonal space heating energy efficiency of the heat pump** **I** = **1** 126 %

**Temperature control (From the data sheet of the temperature control)** + **2** 2,0 %

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 m<sup>2</sup>)

Storage tank volume (in m<sup>3</sup>)

Collector efficiency (in %)

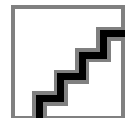
Storage tank rating: A<sup>+</sup> = 0.95, A = 0.91, B = 0.86, C = 0.83, D-G = 0.81

**Seasonal space heating energy efficiency of the package system**

- with average climate conditions: **5** 128 %

**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<sup>+</sup> ≥ 98 %, A<sup>++</sup> ≥ 125 %, A<sup>+++</sup> ≥ 150 %



**Seasonal space heating energy efficiency**

- with colder climate conditions: **5** 128 - V = 104 %

- with warmer climate conditions: **5** 128 + VI = 163 %