BOSCH

**Compress 3000 AWP**

CS3000AWP 59 SC

8738214023

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 | 8738214023 |
|---|---|---|---|
| Energy Efficiency Class | | | A+ |
| Energy efficiency class (low temperature application) | | | A+ |
| Rated heat output (average climate conditions) | Prated | kW | 56 |
| Rated heat output (low temperature application, average climate conditions) | Prated | kW | 53 |
| Seasonal space heating energy efficiency (average climate conditions) | $\eta_S$ | % | 111 |
| Seasonal space heating energy efficiency (low temperature application, average climate conditions) | $\eta_S$ | % | 148 |
| Annual energy consumption (average climate conditions) | $Q_{HE}$ | kWh | 40478 |
| Annual energy consumption (low temperature application, average climate conditions) | $Q_{HE}$ | kWh | 28792 |
| 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 | 56 |
| Rated heat output (low temperature application, colder climate conditions) | Prated | kW | 49 |
| Rated heat output (warmer climate conditions) | Prated | kW | 58 |
| Rated heat output (low temperature application, warmer climate conditions) | Prated | kW | 64 |
| Seasonal space heating energy efficiency (colder climate conditions) | $\eta_S$ | % | 98 |
| Seasonal space heating energy efficiency (low temperature application, colder climate conditions) | $\eta_S$ | % | 131 |
| Seasonal space heating energy efficiency (warmer climate conditions) | $\eta_S$ | % | 139 |
| Seasonal space heating energy efficiency (low temperature application, warmer climate conditions) | $\eta_S$ | % | 187 |
| Annual energy consumption (colder climate conditions) | $Q_{HE}$ | kWh | 55405 |
| Annual energy consumption (low temperature application, colder climate conditions) | $Q_{HE}$ | kWh | 36277 |
| Annual energy consumption (warmer climate conditions) | $Q_{HE}$ | kWh | 21759 |
| Annual energy consumption (low temperature application, warmer climate conditions) | $Q_{HE}$ | kWh | 18041 |
| Sound power level, outdoors | $L_{WA}$ | dB | 71 |
| 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 | | | II |
| Contribution of the temperature control to seasonal space heating efficiency | | % | 2,0 |
| **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj** | | | |
| Tj = - 7 °C (average climate conditions) | Pdh | kW | 46,3 |
| Tj = + 2 °C (average climate conditions) | Pdh | kW | 28,0 |
| Tj = + 7 °C (average climate conditions) | Pdh | kW | 36,3 |
| Tj = + 12 °C (average climate conditions) | Pdh | kW | 30,8 |
| Tj = bivalent temperature (average climate conditions) | Pdh | kW | 47,7 |
| Tj = operation limit temperature (average climate conditions) | Pdh | kW | 43,8 |
| For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) (colder climate conditions) | Pdh | kW | 38,6 |
| Bivalent temperature (average climate conditions) | $T_{biv}$ | °C | -6 |
| Bivalent temperature (warmer climate conditions) | $T_{biv}$ | °C | 2 |
| Cycling interval capacity for heating (average climate conditions) | Pcych | kW | - |

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| Productdata | Symbol | Unit | 8738214023 |
|---|---|---|---|
| Degradation coefficient | | | - |
| Degradation co-efficient Tj = - 7 °C | Cdh | | 0,9 |
| **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj /** | | | |
| Tj = - 7 °C (average climate conditions) | COPd | | 1,73 |
| Tj = - 7 °C (average climate conditions) | PERd | % | - |
| Tj = + 2 °C (average climate conditions) | COPd | | 2,78 |
| Tj = + 2 °C (average climate conditions) | PERd | % | - |
| Tj = + 7 °C (average climate conditions) | COPd | | 3,91 |
| Tj = + 7 °C (average climate conditions) | PERd | % | - |
| Tj = + 12 °C (average climate conditions) | COPd | | 5,36 |
| Tj = + 12 °C (average climate conditions) | PERd | % | - |
| Tj = bivalent temperature (average climate conditions) | COPd | | 1,78 |
| Tj = bivalent temperature (average climate conditions) | PERd | % | - |
| Tj = operation limit temperature (average climate conditions) | COPd | | 1,40 |
| Tj = operation limit temperature (average climate conditions) | PERd | % | - |
| For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) (colder climate conditions) | COPd | | 1,37 |
| For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) (colder climate conditions) | PERd | % | - |
| For air-to-water heat pumps: Operation limit temperature | TOL | °C | -20 |
| Cycling interval efficiency (average climate conditions) | COPcyc | | - |
| Cycling interval efficiency | PERcyc | % | - |
| Heating water operating limit temperature | WTOL | °C | 60 |
| **Power consumption in modes other than active mode** | | | |
| Off mode | $P_{OFF}$ | kW | 0,110 |
| Thermostat-off mode | $P_{TO}$ | kW | 0,200 |
| In standby mode | $P_{SB}$ | kW | 0,110 |
| Crankcase heater mode | $P_{CK}$ | kW | 0,010 |
| **Supplementary heater** | | | |
| Rated heat output supplementary heater | Psup | kW | 14,0 |
| Type of energy input | | | Electric |
| **Other items** | | | |
| 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 | | $m^3/h$ | 11 |
| For brine-to-water heat pumps: Rated brine flow rate, outdoor heat exchanger | | $m^3/h$ | 0 |

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 | 111 | % |
| **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 · Prated) | 0,34 | – |
| **IV** | Value of the mathematical expression 115/(11 · Prated) | 0,14 | – |
| **V** | Difference between the seasonal space heating energy efficiency with average and colder climate conditions | 13 | % |
| **VI** | Difference between the seasonal space heating energy efficiency with warmer and average climate conditions | 28 | % |

**Seasonal space heating energy efficiency of the heat pump** **I** = **1** 111 **%**

**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 $m^2$)

Storage tank volume (in $m^3$)

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** 113 **%**

**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** 113 – **V** = 100 **%**

**– with warmer climate conditions:** **5** 113 + **VI** = 141 **%**