



ENERG енергия · ενεργεια

55°C

107608HMD02

127587 Aeroheat AH CN 7ar-HM1R-230V



CTA









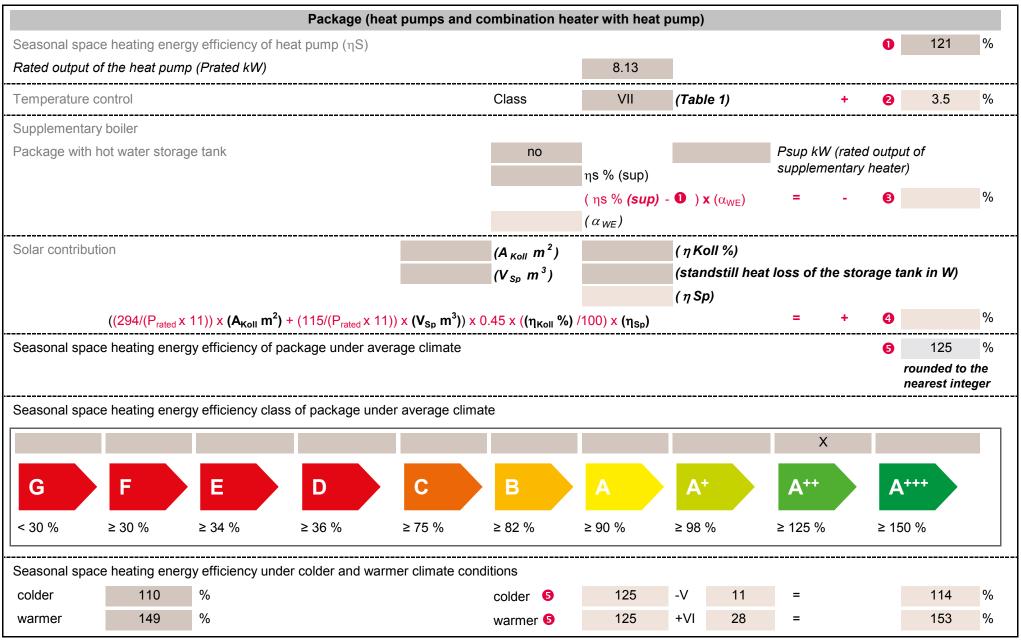












The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.



Product fiche CTA AG Manufacturer AC Cooling Heating AH CN 7ar 230V and HM Model Information on energy efficiency class and rated output Average / Average / Low temperature Medium temperature Space heating energy efficiency class Α+ A+ Rated heat output 8.64 8.13 kW 145 121 Seasonal space heating energy efficiency Annual final energy consumption space heating 4837 5422 kWh Sound power level indoors 44 dB Special precautions during assembly, installation or maintenance see installation and maintenance instructions Additional information Low temperature Medium temperature Rated heat output colder climate 7.58 7.16 kW Rated heat output warmer climate 9.63 8.87 kW 128 Seasonal space heating energy efficiency colder climate 110 % 176 149 % Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate 5720 6260 kWh 2879 3129 kWh Annual final energy consumption warmer climate Sound power level outdoors 58 dB Technical data of the temperature controller

| | | ait | | | | | |
|--|--------------|-----|---|--|--|--|--|
| Model | Aeroplus 2.1 | | | | | | |
| Class of the controller | | VII | | | | | |
| Contribution of the controller to seasonal space heating energy efficiency | | 3.5 | % | | | | |

| Model | | | | AH CN 7ar 230V and HM | | | |
|---|------------------|----------|---|--|-----------------|----------|-------------------|
| Brine-to-water heat pump: (Yes/No) | | | No | | | | |
| Water-to-water heat pump: (Yes/No) | | | No | | | | |
| Air-to-water heat pump: (Yes/No) | | | Yes | CTA | | | |
| Low temperature heat pump: (Yes/No) | | | No | | | | |
| Equipped with supplementary heater: (Yes/No) | | | Yes | - ^C | Cooling | | |
| Heat pump combination heater: (Yes/No) | | | No | AC Cooling Heatin | | | |
| Application: (Low temperature/Medium temperature) | | | Medium temperature | | | | |
| Climate: (Colder/Average/Warmer) | | | Average | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output | Prated | 8.13 | kW | Seasonal space heating energy efficiency | ηS | 121 | % |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj | | | Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | | | | |
| Tj = -7°C | Pdh | 5.80 | kW | Tj = -7°C | COPd | 2.15 | - |
| Tj = +2°C | Pdh | 7.20 | kW | Tj = +2°C | COPd | 3.05 | - |
| Tj = +7°C | Pdh | 9.30 | kW | Tj = +7°C | COPd | 4.12 | - |
| Tj = +12°C | Pdh | 10.90 | kW | Tj = +12°C | COPd | 4.84 | - |
| Tj = biv | Pdh | 6.30 | kW | Tj = biv | COPd | 2.40 | - |
| Tj = TOL | Pdh | 5.40 | kW | Tj = TOL | COPd | 1.97 | - |
| Tj = -15°C (if TOL < -20°C) | Pdh | 4.70 | kW | Tj = -15°C if TOL < -20°C) | COPd | 1.70 | - |
| Bivalent temperature | T _{biv} | -4 | °C | Operation limit temperature | TOL | -20 | °C |
| Cycling interval capacity for heating | Pcych | - | kW | Cycling interval efficiency | COPcyc | - | - |
| Degradation co-efficient | Cdh | 1 | - | Heating water operating limit temperature | WTOL | 62 | °C |
| Power consumption in modes other than active mode | | | Supplementary heater | | | | |
| Off mode | POFF | 0.01 | kW | Rated heat output | Psup | 2.8 | kW |
| Thermostat-off mode | РТО | 0.01 | kW | Type of energy input | 1 | electric | 1 |
| Standby mode | P _{SB} | 0.01 | kW | | | | |
| Crankcase heater mode | РСК | 0 | kW | | | | |
| Other items | <u> </u> | ! | | | <u> </u> | | |
| Capacity control | fixed | | | Rated air flow rate, outdoors | - | 3000 | m ³ /h |
| Sound power level, indoors/outdoors | LWA | 44/58 | dB | Rated brine or water flow rate, outdoor heat exchanger | - | - | m ³ /h |
| Emissions of nitrogen oxides | NO _X | - | mg/kWh | | 1 | | 1 |
| For heat pump combination heater | | <u> </u> | <u> </u> | l | | | |
| Declared load profile | - | | | Water heating energy efficiency | η _{wh} | - | % |
| Daily electricity consumption | Qelec | - | kWh | Daily fuel consumption | Qfuel | - | kWh |
| Contact | CTA AG, H | unzigens | trasse 2, C | L CH-3110 Münsingen | 1 | | 1 |

| Model | | | | AH CN 7ar 230V and HM | | | | | | | | | | | |
|---|------------------------------|----------|----------------------------------|--|-----------------|----------|-------------------|---|--------|-------|---|--|----------|-------|------|
| Brine-to-water heat pump: (Yes/No) | | | No | | | | | | | | | | | | |
| Water-to-water heat pump: (Yes/No) Air-to-water heat pump: (Yes/No) Low temperature heat pump: (Yes/No) Equipped with supplementary heater: (Yes/No) Heat pump combination heater: (Yes/No) Application: (Low temperature/Medium temperature) | | | No Yes No Yes No Low temperature | | | | | | | | | | | | |
| | | | | | | | | Climate: (Colder/Average/Warmer) | | | Average | | | | |
| | | | | | | | | Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| | | | | | | | | Rated heat output | Prated | 8.64 | kW | Seasonal space heating energy efficiency | ηS | 145 | % |
| | | | | | | | | Declared capacity for heating for part load at indoor | | | Declared coefficient of performance for part load at indoor | | | | |
| | | | | | | | | temperature 20°C and outdoor temperature Tj | | | temperature 20°C and outdoor te | | <u> </u> | _ | |
| Tj = -7°C | Pdh | 6.20 | kW | Tj = -7°C | COPd | 2.74 | - | | | | | | | | |
| Tj = +2°C | Pdh | 7.60 | kW | Tj = +2°C | COPd | 3.76 | - | | | | | | | | |
| Tj = +7°C | Pdh | 9.50 | kW | Tj = +7°C | COPd | 4.59 | - | | | | | | | | |
| Tj = +12°C | Pdh | 11.00 | kW | Tj = +12°C | COPd | 4.92 | - | | | | | | | | |
| Tj = biv | Pdh | 6.60 | kW | Tj = biv | COPd | 3.07 | - | | | | | | | | |
| Tj = TOL | Pdh | 5.80 | kW | Tj = TOL | COPd | 2.54 | - | | | | | | | | |
| Tj = -15 °C (if TOL < -20 °C) | Pdh | 5.10 | kW | Tj = -15°C if TOL < -20°C) | COPd | 2.23 | - | | | | | | | | |
| Bivalent temperature | T biv | -4 | °C | Operation limit temperature | TOL | -20 | °C | | | | | | | | |
| Cycling interval capacity for heating | Pcych | - | kW | Cycling interval efficiency | COPcyc | - | - | | | | | | | | |
| Degradation co-efficient | Cdh | 1 | - | Heating water operating limit temperature | WTOL | 62 | °C | | | | | | | | |
| Power consumption in modes other | er than activ | ve mode | 1 | Supplementary heater | | | 1 | | | | | | | | |
| Off mode | POFF | 0.01 | kW | Rated heat output | Psup | 2.9 | kW | | | | | | | | |
| Thermostat-off mode | Рто | 0.01 | kW | Type of energy input | I | electric | | | | | | | | | |
| Standby mode | PSB | 0.01 | kW | 1 | | | | | | | | | | | |
| Crankcase heater mode | PCK | 0 | kW | | | | | | | | | | | | |
| Other items | <u> </u> | <u> </u> | | | | | | | | | | | | | |
| Capacity control | fixed | | | Rated air flow rate, outdoors | - | 3000 | m ³ /h | | | | | | | | |
| Sound power level, indoors/outdoors | LWA | 44/58 | dB | Rated brine or water flow rate, outdoor heat exchanger | - | - | m ³ /h | | | | | | | | |
| Emissions of nitrogen oxides | NO _X | - | mg/kWh | | | | | | | | | | | | |
| For heat pump combination heater | • | | | | | | | | | | | | | | |
| Declared load profile | - | | | Water heating energy efficiency | η _{wh} | - | % | | | | | | | | |
| Daily electricity consumption | Q elec | - | kWh | Daily fuel consumption | Qfuel | - | kWh | | | | | | | | |
| Contact | CTA AG, Hunzigenstrasse 2, C | | | L CH-3110 Münsingen | | | 1 | | | | | | | | |