



ENERG енергия · ενεργεια

55°C

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121290 Aeroheat CS 1-31i-L



CTA











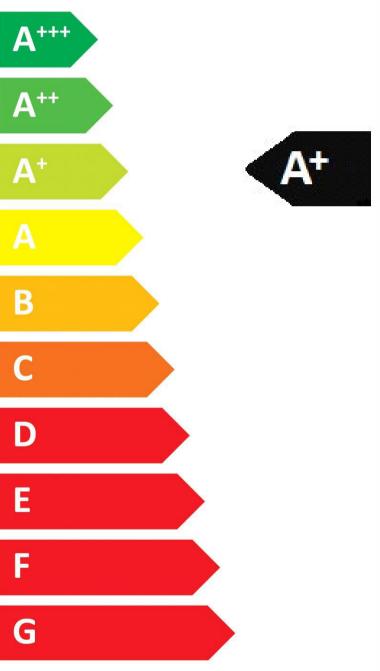
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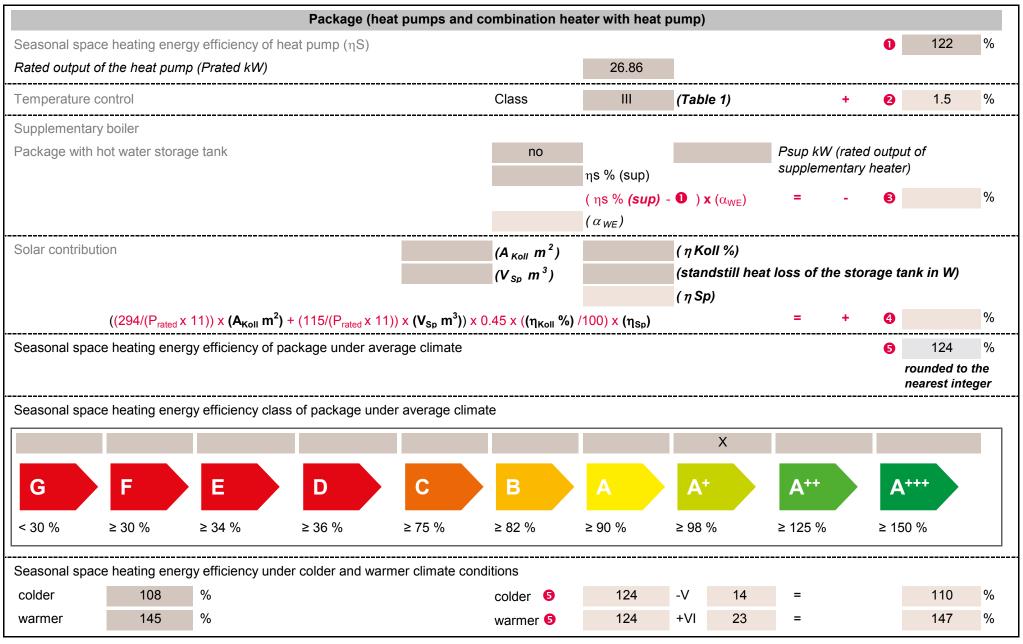












The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation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



Product fiche CTA AG Manufacturer AC Cooling Heating Model AH CS 1-31i-L Information on energy efficiency class and rated output Average / Average / Medium temperature Low temperature Space heating energy efficiency class A++ A+ Rated heat output 28.28 26.86 kW 122 151 Seasonal space heating energy efficiency 15254 17711 Annual final energy consumption space heating kWh Sound power level indoors 68 dB Special precautions during assembly, installation or maintenance see installation and maintenance instructions Additional information Low temperature Medium temperature Rated heat output colder climate 29.62 28.06 kW Rated heat output warmer climate 30.72 29.47 kW Seasonal space heating energy efficiency colder climate 131 108 % Seasonal space heating energy efficiency warmer climate 185 145 % Annual final energy consumption colder climate 21689 24994 kWh 8728 10663 kWh Annual final energy consumption warmer climate Sound power level outdoors 55 dB Technical data of the temperature controller Manufacturer ait Model Aeroplus 2.0 Class of the controller Ш Contribution of the controller to seasonal space heating energy efficiency 1.5 %

Contact

CTA AG, Hunzigenstrasse 2, CH-3110 Münsingen

| | | | | _ | _ | | | | |
|---|-------------------------------|---------|---|--|--------------------|----------|-------------------|--|--|
| Model | | | | AH CS 1-31i-L | _ | | | | |
| Brine-to-water heat pump: (Yes/No) | | | | No | | | | | |
| Water-to-water heat pump: (Yes/No) | | | | No | | | | | |
| Air-to-water heat pump: (Yes/No) | | | | Yes | | TA | | | |
| Low temperature heat pump: (Yes/No) | | | | No | | 44 | | | |
| Equipped with supplementary heater: (Yes/No) | | | | Yes | AC Cooling Heating | | | | |
| Heat pump combination heater: (Yes/No) | | | | No | | _ | - | | |
| Application: (Low temperature/Medium temperature) | | | | Medium temperature | | | | | |
| Climate: (Colder/Average/Warmer) | | | | Average | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | | |
| Rated heat output | Prated | 26.86 | kW | Seasonal space heating energy efficiency | ηS | 122 | % | | |
| Declared capacity for heating for p | ndoor | | Declared coefficient of performance for part load at indoor | | | | | | |
| temperature 20°C and outdoor temperature Tj | | | | temperature 20°C and outdoor temperature Tj | | | | | |
| Tj = -7°C | Pdh | 23.80 | kW | Tj = -7°C | COPd | 2.03 | - | | |
| Tj = +2°C | Pdh | 30.50 | kW | Tj = +2°C | COPd | 3.02 | - | | |
| Tj = +7°C | Pdh | 19.10 | kW | Tj = +7°C | COPd | 4.05 | - | | |
| Tj = +12°C | Pdh | 21.10 | kW | Tj = +12°C | COPd | 4.92 | - | | |
| Tj = biv | Pdh | 23.80 | kW | Tj = biv | COPd | 2.03 | - | | |
| Tj = TOL | Pdh | 21.50 | kW | Tj = TOL | COPd | 1.76 | - | | |
| Tj = -15°C (if TOL < -20°C) | Pdh | 17.80 | kW | Tj = -15°C if TOL < -20°C) | COPd | 1.37 | - | | |
| Bivalent temperature | T _{biv} | -7 | °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 | 58 | °C | | |
| Power consumption in modes other | er than activ | /e mode | 1 | Supplementary heater | | | | | |
| Off mode | POFF | 0.01 | kW | Rated heat output | Psup | 5.4 | kW | | |
| Thermostat-off mode | РТО | 0.01 | kW | Type of energy input | | electric | <u> </u> | | |
| Standby mode | PSB | 0.01 | kW | | | | | | |
| Crankcase heater mode | РСК | 0 | kW | | | | | | |
| Other items | | ļ | ļ | | | | | | |
| Capacity control | | fixed | | Rated air flow rate, outdoors | - | 6000 | m ³ /h | | |
| Sound power level, indoors/outdoors | LWA | 68/55 | dB | Rated brine or water flow rate, outdoor heat exchanger | - | - | m ³ /h | | |
| Emissions of nitrogen oxides | NO _X | - | mg/kWh | | | | 1 | | |
| 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 | | |
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| Model | | | | AH CS 1-31i-L | | | | | |
|---|------------------------------|---------|---|--|--------------------|----------|-------------------|--|--|
| Brine-to-water heat pump: (Yes/No) | | | | No | | | | | |
| Water-to-water heat pump: (Yes/No) | | | | No | | _ | | | |
| Air-to-water heat pump: (Yes/No) | | | | Yes | | TA | | | |
| Low temperature heat pump: (Yes/No) | | | | No | ₹ | 44 | | | |
| Equipped with supplementary heater: (Yes/No) | | | | Yes | AC Cooling Heating | | | | |
| Heat pump combination heater: (Yes/No) | | | | No | | | | | |
| Application: (Low temperature/Medium temperature) | | | | Low temperature | | | | | |
| Climate: (Colder/Average/Warmer) | | | | Average | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | | |
| Rated heat output | Prated | 28.28 | kW | Seasonal space heating energy efficiency | ηS | 151 | % | | |
| Declared capacity for heating for p | ndoor | • | Declared coefficient of performance for part load at indoor | | | | | | |
| temperature 20°C and outdoor tem | • | 1 | _ | temperature 20°C and outdoor temperature Tj | | | | | |
| Tj = -7°C | Pdh | 25.00 | kW | Tj = -7°C | COPd | 2.92 | - | | |
| Tj = +2°C | Pdh | 31.10 | kW | Tj = +2°C | COPd | 3.67 | - | | |
| Tj = +7°C | Pdh | 19.40 | kW | Tj = +7°C | COPd | 4.86 | - | | |
| Tj = +12°C | Pdh | 21.20 | kW | Tj = +12°C | COPd | 5.26 | - | | |
| Tj = biv | Pdh | 25.00 | kW | Tj = biv | COPd | 2.92 | - | | |
| Tj = TOL | Pdh | 22.90 | kW | Tj = TOL | COPd | 2.63 | - | | |
| Tj = -15°C (if TOL < -20°C) | Pdh | 19.50 | kW | Tj = -15°C if TOL < -20°C) | COPd | 2.17 | - | | |
| Bivalent temperature | T _{biv} | -7 | °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 | 58 | °C | | |
| Power consumption in modes other | er than activ | /e mode | • | Supplementary heater | • | | | | |
| Off mode | POFF | 0.01 | kW | Rated heat output | Psup | 5.4 | kW | | |
| Thermostat-off mode | РТО | 0.01 | kW | Type of energy input | 1 | electric | 1 | | |
| Standby mode | PSB | 0.01 | kW | 1 | | | | | |
| Crankcase heater mode | РСК | 0 | kW | | | | | | |
| Other items | ļ | | | | | | | | |
| Capacity control | | fixed | | Rated air flow rate, outdoors | - | 6000 | m ³ /h | | |
| Sound power level, indoors/outdoors | LWA | 68/55 | dB | Rated brine or water flow rate, outdoor heat exchanger | - | - | m ³ /h | | |
| Emissions of nitrogen oxides | NO _X | - | mg/kWh | | | | 1 | | |
| 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 | | |
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