

## Product Fiche

| Technical parameters  |   |       |      |   |                      |       |                   |
|---|---|-------|------|---|----------------------|-------|-------------------|
| Model(s):   | ACHP-H16/4R3HA-ME   |       |      |   |                      |       |                   |
| Air-to-water heat ump:  | 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  |       |      |   |                      |       |                   |
| Declared climate condition  | Warmer  |       |      |   |                      |       |                   |
| Declared temperature application  | Low   |       |      |   |                      |       |                   |
| Item  | Symbol  | Value | Unit | Item  | Symbol               | Value | Unit              |
| Rated heat output(*)  | Prated  | 13.1  | kW   | Seasonal space heating energy efficiency  | $\eta_s$             | 246   | %                 |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj   |   |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj |                      |       |                   |
| Tj = -7°C   | Pdh   | -     | kW   | Tj = -7°C   | COPd                 | -     | -                 |
| Tj = +2°C   | Pdh   | 12.97 | kW   | Tj = +2°C   | COPd                 | 3.35  | -                 |
| Tj = +7°C   | Pdh   | 8.41  | kW   | Tj = +7°C   | COPd                 | 5.31  | -                 |
| Tj = +12°C  | Pdh   | 3.87  | kW   | Tj = +12°C  | COPd                 | 8.11  | -                 |
| Tj = bivalent temperature   | Pdh   | 8.41  | kW   | Tj = bivalent temperature   | COPd                 | 5.31  | -                 |
| Tj = operation limit temperature  | Pdh   | 12.97 | kW   | Tj = operation limit temperature  | COPd                 | 3.35  | -                 |
| For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)   | Pdh   | -     | kW   | For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)  | COPd                 | -     | -                 |
| Bivalent temperature  | Tbiv  | 7     | °C   | For air-to-water heat pumps: Operation limit temperature  | TOL                  | 2     | °C                |
| Cycling interval capacity for heating   | P <sub>psych</sub>  | -     | kW   | Cycling interval efficiency   | COP <sub>psych</sub> | -     | -                 |
| Degradation co-efficient(**)  | Cdh   | 0.9   | -    | Heating water operating limit temperature   | WTOL                 | 60    | °C                |
| Power consumption in modes other than active mode   |   |       |      | Supplementary heater  |                      |       |                   |
| Off mode  | P <sub>OFF</sub>  | 0.020 | kW   | Rated heat output (*)   | P <sub>sup</sub>     | 0.13  | kW                |
| Thermostat-off mode   | P <sub>TO</sub>   | 0.030 | kW   |   |                      |       |                   |
| Standby mode  | P <sub>SB</sub>   | 0.020 | kW   |   |                      |       |                   |
| Crankcase heater mode   | P <sub>CK</sub>   | 0.000 | kW   |   |                      |       |                   |
| Type of energy input  |   |       |      |   |                      |       |                   |
| Electricity   |   |       |      |   |                      |       |                   |
| Other items   |   |       |      |   |                      |       |                   |
| Capacity control  | Variable  |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors  | -                    | 4650  | m <sup>3</sup> /h |
| Sound power levelL  | LWA   | -     | dB   | For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger                                     | -                    | -     | m <sup>3</sup> /h |
| Annual energy consumption   | QHE   | 2812  | kWh  |   |                      |       |                   |
| For heat pump combination heater  |   |       |      |   |                      |       |                   |
| Declaed load profile  | -   |       |      | Water heating energy efficiency   | Hwh                  | -     | %                 |
| Daily electricity consumption   | Qelec   | -     | kWh  | Daily fuel consumption  | Qfuel                | -     | kWh               |
| Contact details   | AUX Co., Ltd<br>1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China |       |      |   |                      |       |                   |
| <p>(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).</p> <p>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9</p> |   |       |      |   |                      |       |                   |

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| Technical parameters   |   |                   |      |   |        |       |                   |
|--|---|-------------------|------|---|--------|-------|-------------------|
| Model(s):  |   | ACHP-H16/4R3HA-ME |      |   |        |       |                   |
| Air-to-water heat ump:   |   | 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                |      |   |        |       |                   |
| Declared climate condition   |   | Warmer            |      |   |        |       |                   |
| Declared temperature application   |   | Medium            |      |   |        |       |                   |
| Item   | Symbol  | Value             | Unit | Item  | Symbol | Value | Unit              |
| Rated heat output(*)   | Prated  | 14.1              | kW   | Seasonal space heating energy efficiency  | ηs     | 175   | %                 |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj  |   |                   |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj |        |       |                   |
| Tj = -7°C  | Pdh   | -                 | kW   | Tj = -7°C   | COPd   | -     | -                 |
| Tj = +2°C  | Pdh   | 13.97             | kW   | Tj = +2°C   | COPd   | 2.48  | -                 |
| Tj = +7°C  | Pdh   | 9.06              | kW   | Tj = +7°C   | COPd   | 3.58  | -                 |
| Tj = +12°C   | Pdh   | 4.03              | kW   | Tj = +12°C  | COPd   | 6.05  | -                 |
| Tj = bivalent temperature  | Pdh   | 9.06              | kW   | Tj = bivalent temperature   | COPd   | 3.58  | -                 |
| Tj = operation limit temperature   | Pdh   | 13.97             | kW   | Tj = operation limit temperature  | COPd   | 2.48  | -                 |
| For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)  | Pdh   | -                 | kW   | For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)  | COPd   | -     | -                 |
| Bivalent temperature   | Tbiv  | 7                 | °C   | For air-to-water heat pumps: Operation limit temperature  | TOL    | 2     | °C                |
| Cycling interval capacity for heating  | Pcyeh   | -                 | kW   | Cycling interval efficiency   | COPcyc | -     | -                 |
| Degradation co-efficient(**)   | Cdh   | 0.9               | -    | Heating water operating limit temperature   | WTOL   | 60    | °C                |
| Power consumption in modes other than active mode  |   |                   |      | Supplementary heater  |        |       |                   |
| Off mode   | POFF  | 0.020             | kW   | Rated heat output (*)   | Psup   | 0.13  | kW                |
| Thermostat-off mode  | Pto   | 0.030             | kW   |   |        |       |                   |
| Standby mode   | PSB   | 0.020             | kW   |   |        |       |                   |
| Crankcase heater mode  | PCK   | 0.000             | kW   |   |        |       |                   |
| Type of energy input   |   |                   |      |   |        |       |                   |
| Electricity  |   |                   |      |   |        |       |                   |
| Other items  |   |                   |      |   |        |       |                   |
| Capacity control   | Variable  |                   |      | For air-to-water heat pumps: Rated air flow rate, outdoors  | -      | 4650  | m <sup>3</sup> /h |
| Sound power levelL   | LWA   | -                 | dB   | For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger                                     | -      | -     | m <sup>3</sup> /h |
| Annual energy consumption  | QHE   | 4233              | kWh  |   |        |       |                   |
| For heat pump combination heater   |   |                   |      |   |        |       |                   |
| Declaed load profile   | -   |                   |      | Water heating energy efficiency   | Hwh    | -     | %                 |
| Daily electricity consumption  | Qelec   | -                 | kWh  | Daily fuel consumption  | Qfbel  | -     | kWh               |
| Contact details  | AUX Co., Ltd<br>1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China |                   |      |   |        |       |                   |
| <p>(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).</p> <p>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9</p> |   |                   |      |   |        |       |                   |

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|--|---|-------------------|------|---|-------------|-------|-------------------|
| Model (s):   |   | ACHP-H16/4R3HA-ME |      |   |             |       |                   |
| Air-to-water heat ump:   |   | 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                |      |   |             |       |                   |
| Declared climate condition   |   | Average           |      |   |             |       |                   |
| Declared temperature application   |   | Low               |      |   |             |       |                   |
| Item   | Symbol  | Value             | Unit | Item  | Symbol      | Value | Unit              |
| Rated heat output(*)   | Prated  | 16.1              | kW   | Seasonal space heating energy efficiency  | ηs          | 193   | %                 |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj  |   |                   |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj |             |       |                   |
| Tj = -7°C  | Pdh   | 14.24             | kW   | Tj = -7°C   | COPd        | 3.04  | -                 |
| Tj = +2°C  | Pdh   | 8.67              | kW   | Tj = +2°C   | COPd        | 4.70  | -                 |
| Tj = +7°C  | Pdh   | 5.57              | kW   | Tj = +7°C   | COPd        | 6.62  | -                 |
| Tj = +12°C   | Pdh   | 2.48              | kW   | Tj = +12°C  | COPd        | 8.91  | -                 |
| Tj = bivalent temperature  | Pdh   | 14.24             | kW   | Tj = bivalent temperature   | COPd        | 3.04  | -                 |
| Tj = operation limit temperature   | Pdh   | 12.31             | kW   | Tj = operation limit temperature  | COPd        | 2.67  | -                 |
| For air-to-water heat pumps:<br>Tj = -15°C(ifTOL<-20°C)  | Pdh   | -                 | kW   | For air-to-water heat pumps:<br>Tj = -15°C(ifTOL<-20°C)   | COPd        | -     | -                 |
| Bivalent temperature   | Tbiv  | -7                | °C   | For air-to-water heat pumps: Operation limit temperature  | TOL         | -10   | °C                |
| Cycling interval capacity for heating  | Pcyc  | -                 | kW   | Cycling interval efficiency   | COPcyc      | -     | -                 |
| Degradation co-efficient(**)   | Cdh   | 0.9               | -    | Heating water operating limit temperature   | WTOL        | 60    | °C                |
| Power consumption in modes other than active mode  |   |                   |      | Supplementary heater  |             |       |                   |
| Off mode   | POFF  | 0.020             | kW   | Rated heat output (*)   | Psup        | 3.79  | kW                |
| Thermostat-off mode  | PTO   | 0.030             | kW   |   |             |       |                   |
| Standby mode   | PSB   | 0.020             | kW   | Type of energy input  | Electricity |       |                   |
| Crankcase heater mode  | °CK   | 0.000             | kW   |   |             |       |                   |
| Other items  |   |                   |      |   |             |       |                   |
| Capacity control   | Variable  |                   |      | For air-to-water heat pumps: Rated air flow rate, outdoors  | -           | 4650  | m <sup>3</sup> /h |
| Sound power levelL   | LWA   | -                 | dB   | For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger                                     | -           | -     | m <sup>3</sup> /h |
| Annual energy consumption  | QHE   | 6786              | kWh  |   |             |       |                   |
| For heat pump combination heater   |   |                   |      |   |             |       |                   |
| Declaed load profile   | -   |                   |      | Water heating energy efficiency   | Hwh         | -     | %                 |
| Daily electricity consumption  | Qelec   | -                 | kWh  | Daily fuel consumption  | Qfuel       | -     | kWh               |
| Contact details  | AUX Co., Ltd<br>1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China |                   |      |   |             |       |                   |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |   |                   |      |   |             |       |                   |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9   |   |                   |      |   |             |       |                   |

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| Technical parameters  |   |                   |      |   |             |       |                   |
|---|---|-------------------|------|---|-------------|-------|-------------------|
| Model(s):   |   | ACHP-H16/4R3HA-ME |      |   |             |       |                   |
| Air-to-water heat ump:  |   | 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                |      |   |             |       |                   |
| Declared climate condition  |   | Average           |      |   |             |       |                   |
| Declared temperature application  |   | Medium            |      |   |             |       |                   |
| Item  | Symbol  | Value             | Unit | Item  | Symbol      | Value | Unit              |
| Rated heat output(*)  | Prated  | 14                | kW   | Seasonal space heating energy efficiency  | $\eta_s$    | 137   | %                 |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj   |   |                   |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj |             |       |                   |
| Tj = -7°C   | Pdh   | 12.38             | kW   | Tj = -7°C   | COPd        | 2.06  | -                 |
| Tj = +2°C   | Pdh   | 7.54              | kW   | Tj = +2°C   | COPd        | 3.50  | -                 |
| Tj = +7°C   | Pdh   | 4.85              | kW   | Tj = +7°C   | COPd        | 4.33  | -                 |
| Tj = +12°C  | Pdh   | 2.15              | kW   | Tj = +12°C  | COPd        | 6.97  | -                 |
| Tj = bivalent temperature   | Pdh   | 12.38             | kW   | Tj = bivalent temperature   | COPd        | 2.06  | -                 |
| Tj = operation limit temperature  | Pdh   | 10.50             | kW   | Tj = operation limit temperature  | COPd        | 1.80  | -                 |
| For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)   | Pdh   | -                 | kW   | For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)   | COPd        | -     | -                 |
| Bivalent temperature  | Tbiv  | -7                | °C   | For air-to-water heat pumps: Operation limit temperature  | TOL         | -10   | °C                |
| Cycling interval capacity for heating   | Pcyh  | -                 | kW   | Cycling interval efficiency   | COPcyc      | -     | -                 |
| Degradation co-efficient(**)  | Cdh   | 0.9               | -    | Heating water operating limit temperature   | WTOL        | 60    | °C                |
| Power consumption in modes other than active mode   |   |                   |      | Supplementary heater  |             |       |                   |
| Off mode  | P OFF   | 0.020             | kW   | Rated heat output (*)   | Psup        | 3.5   | kW                |
| Thermostat-off mode   | P TO  | 0.030             | kW   | Type of energy input  | Electricity |       |                   |
| Standby mode  | P SB  | 0.020             | kW   |   |             |       |                   |
| Crankcase heater mode   | P CK  | 0.000             | kW   |   |             |       |                   |
| Other items   |   |                   |      |   |             |       |                   |
| Capacity control  | Variable  |                   |      | For air-to-water heat pumps: Rated air flow rate, outdoors  | -           | 4650  | m <sup>3</sup> /h |
| Sound power level.  | LWA   | 68                | dB   | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                    | -           | -     | m <sup>3</sup> /h |
| Annual energy consumption   | QHE   | 8253              | kWh  |   |             |       |                   |
| For heat pump combination heater  |   |                   |      |   |             |       |                   |
| Declared load profile   | -   |                   |      | Water heating energy efficiency   | Owh         | -     | %                 |
| Daily electricity consumption   | Qelec   | -                 | kWh  | Daily fuel consumption  | Qfuel       | -     | kWh               |
| Contact details   | AUX Co., Ltd<br>1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China |                   |      |   |             |       |                   |
| <p>(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).</p> <p>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9</p> |   |                   |      |   |             |       |                   |

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| Technical parameters  |   |                   |      |   |                  |       |                   |
|---|---|-------------------|------|---|------------------|-------|-------------------|
| Model(s):   |   | ACHP-H16/4R3HA-ME |      |   |                  |       |                   |
| Air-to-water heat ump:  |   | 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                |      |   |                  |       |                   |
| Declared climate condition  |   | Colder            |      |   |                  |       |                   |
| Declared temperature application  |   | Low               |      |   |                  |       |                   |
| Item  | Symbol  | Value             | Unit | Item  | Symbol           | Value | Unit              |
| Rated heat output(*)  | Prated  | 13.7              | kW   | Seasonal space heating energy efficiency  | $\eta_s$         | 157   | %                 |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj   |   |                   |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj |                  |       |                   |
| Tj = -7°C   | Pdh   | 8.31              | kW   | Tj = -7°C   | COPd             | 3.37  | -                 |
| Tj = +2°C   | Pdh   | 5.26              | kW   | Tj = +2°C   | COPd             | 4.86  | -                 |
| Tj = +7°C   | Pdh   | 3.62              | kW   | Tj = +7°C   | COPd             | 6.49  | -                 |
| Tj = +12°C  | Pdh   | 3.34              | kW   | Tj = +12°C  | COPd             | 7.40  | -                 |
| Tj = bivalent temperature   | Pdh   | 11.22             | kW   | Tj = bivalent temperature   | COPd             | 2.43  | -                 |
| Tj = operation limit temperature  | Pdh   | 8.88              | kW   | Tj = operation limit temperature  | COPd             | 1.97  | -                 |
| For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)   | Pdh   | -                 | kW   | For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)   | COPd             | -     | -                 |
| Bivalent temperature  | Tbiv  | -15               | °C   | For air-to-water heat pumps: Operation limit temperature  | TOL              | -22   | °C                |
| Cycling interval capacity for heating   | Pcych   | -                 | kW   | Cycling interval efficiency   | COPcyc           | -     | -                 |
| Degradation co-efficient(**)  | Cdh   | 0.9               | -    | Heating water operating limit temperature   | WTOL             | 52    | °C                |
| Power consumption in modes other than active mode   |   |                   |      | Supplementary heater  |                  |       |                   |
| Off mode  | P <sub>OFF</sub>  | 0.020             | kW   | Rated heat output (*)   | P <sub>sup</sub> | 4.82  | kW                |
| Thermostat-off mode   | P <sub>TO</sub>   | 0.030             | kW   |   |                  |       |                   |
| Standby mode  | P <sub>SB</sub>   | 0.020             | kW   |   |                  |       |                   |
| Crankcase heater mode   | P <sub>CK</sub>   | 0.000             | kW   |   |                  |       |                   |
| Type of energy input<br>Electricity   |   |                   |      |   |                  |       |                   |
| Other items   |   |                   |      |   |                  |       |                   |
| Capacity control  | Variable  |                   |      | For air-to-water heat pumps: Rated air flow rate, outdoors  | -                | 4650  | m <sup>3</sup> /h |
| Sound power level.  | LWA   | -                 | dB   | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                    | -                | -     | m <sup>3</sup> /h |
| Annual energy consumption   | QHE   | 8438              | kWh  |   |                  |       |                   |
| For heat pump combination heater  |   |                   |      |   |                  |       |                   |
| Declared load profile   | -   |                   |      | Water heating energy efficiency   | Owh              | -     | %                 |
| Daily electricity consumption   | Qelec   | -                 | kWh  | Daily fuel consumption  | Qfuel            | -     | kWh               |
| Contact details   | AUX Co., Ltd<br>1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China |                   |      |   |                  |       |                   |
| <p>(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).</p> <p>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9</p> |   |                   |      |   |                  |       |                   |

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|---|---|-------------------|------|---|-------------------|-------|-------------------|
| Model(s):   |   | ACHP-H16/4R3HA-ME |      |   |                   |       |                   |
| Air-to-water heat ump:  |   | 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                |      |   |                   |       |                   |
| Declared climate condition  |   | Colder            |      |   |                   |       |                   |
| Declared temperature application  |   | Medium            |      |   |                   |       |                   |
| Item  | Symbol  | Value             | Unit | Item  | Symbol            | Value | Unit              |
| Rated heat output(*)  | Prated  | 11.8              | kW   | Seasonal space heating energy efficiency  | $\eta_s$          | 121   | %                 |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj   |   |                   |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj |                   |       |                   |
| Tj = -7°C   | Pdh   | 7.64              | kW   | Tj = -7°C   | COPd              | 2.65  | -                 |
| Tj = +2°C   | Pdh   | 4.42              | kW   | Tj = +2°C   | COPd              | 3.79  | -                 |
| Tj = +7°C   | Pdh   | 2.97              | kW   | Tj = +7°C   | COPd              | 4.81  | -                 |
| Tj = +12°C  | Pdh   | 3.43              | kW   | Tj = +12°C  | COPd              | 6.29  | -                 |
| Tj = bivalent temperature   | Pdh   | 9.61              | kW   | Tj = bivalent temperature   | COPd              | 1.86  | -                 |
| Tj = operation limit temperature  | Pdh   | 5.21              | kW   | Tj = operation limit temperature  | COPd              | 1.23  | -                 |
| For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)   | Pdh   | -                 | kW   | For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)   | COPd              | -     | -                 |
| Bivalent temperature  | Tbiv  | -15               | °C   | For air-to-water heat pumps: Operation limit temperature  | TOL               | -22   | °C                |
| Cycling interval capacity for heating   | Pcyh  | -                 | kW   | Cycling interval efficiency   | COPcyc            | -     | -                 |
| Degradation co-efficient(**)  | Cdh   | 0.9               | -    | Heating water operating limit temperature   | WTOL              | 52    | °C                |
| Power consumption in modes other than active mode   |   |                   |      | Supplementary heater  |                   |       |                   |
| Off mode  | P <sub>OFF</sub>  | 0.020             | kW   | Rated heat output (*)   | P <sub>sup</sub>  | 6.59  | kW                |
| Thermostat-off mode   | P <sub>TO</sub>   | 0.030             | kW   |   |                   |       |                   |
| Standby mode  | P <sub>SB</sub>   | 0.020             | kW   |   |                   |       |                   |
| Crankcase heater mode   | P <sub>CK</sub>   | 0.000             | kW   |   |                   |       |                   |
| Type of energy input  |   |                   |      |   |                   |       |                   |
| Electricity   |   |                   |      |   |                   |       |                   |
| Other items   |   |                   |      |   |                   |       |                   |
| Capacity control  | Variable  |                   |      | For air-to-water heat pumps: Rated air flow rate, outdoors  | -                 | 4000  | m <sup>3</sup> /h |
| Sound power level.  | LWA   | -                 | dB   | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                    | -                 | -     | m <sup>3</sup> /h |
| Annual energy consumption   | QHE   | 9362              | kWh  |   |                   |       |                   |
| For heat pump combination heater  |   |                   |      |   |                   |       |                   |
| Declared load profile   | -   |                   |      | Water heating energy efficiency   | O <sub>wh</sub>   | -     | %                 |
| Daily electricity consumption   | Q <sub>elec</sub>   | -                 | kWh  | Daily fuel consumption  | Q <sub>fuel</sub> | -     | kWh               |
| Contact details   | AUX Co., Ltd<br>1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China |                   |      |   |                   |       |                   |
| <p>(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).</p> <p>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9</p> |   |                   |      |   |                   |       |                   |