



# ENERG

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OCHSNER

AQUA 17 HSTA



55 °C

35 °C

A<sup>+++</sup>

A<sup>+++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D



47 dB



■ 14 kW

■ 14 kW

■ 14 kW

■ 17 kW

■ 17 kW

■ 17 kW



2019

811/2013

**Heatpump datasheet:**

|               |              |
|---------------|--------------|
| Manufacturer: | OCHSNER      |
| Model:        | AQUA 17 HSTA |

**Information concerning energy efficiency class and rated heat output:**

|   | average/low | average/medium |
|---|-------------|----------------|
| Energy efficiency class space heater:         | A+++        | A+++           |
| Rated heat output:                            | 17 kW       | 14 kW          |
| Energy efficiency space heater:               | 250 %       | 159 %          |
| Annual final energy consumption space heater: | 5263 kWh    | 6965 kWh       |
| Sound power level indoors                     | 47,0 dB(A)  |                |

**Special precautions concerning assembly, installation or maintenance:**

The system was sized, connected, laid out and filled in accordance with applicable standards, regulations and ordinances by a qualified contractor. If the system consists of several sections, these must be connected and installed using original OCHSNER accessories as supplied by OCHSNER. System sections must be connected via the shortest route possible and must not exceed a connection distance of 5 m. In accordance with the operating and installation manual, the system is used as intended for a private building heating system. Commissioning must only be carried out by OCHSNER Customer Service. Maintenance and inspection according to the manufacturer's instructions must be carried out at least every 12 months unless legal requirements and ordinances specify a shorter interval.

| <b>Additional information:</b>                         | low      | medium   |
|--|----------|----------|
| Rated heat output colder climate:                      | 17 kW    | 14 kW    |
| Rated heat output warmer climate:                      | 17 kW    | 14 kW    |
| Energy efficiency space heater colder climate:         | 260 %    | 164 %    |
| Energy efficiency space heater warmer climate:         | 250 %    | 158 %    |
| Annual energy consumption space heater colder climate: | 6045 kWh | 8055 kWh |
| Annual energy consumption space heater warmer climate: | 3399 kWh | 4513 kWh |

**Technical data of the temperature controller:**

|   |            |   |
|---|------------|---|
| Manufacturer:   | OCHSNER    |   |
| Model:  | OTE-Regler |   |
| Controller class with room remote control:  | VII        | - |
| Contribution of the controller to the energy efficiency space heater with room remote control:    | 3,5        | % |
| Controller class without room remote control:   | III        | - |
| Contribution of the controller to the energy efficiency space heater without room remote control: | 1,5        | % |

|                                       |                         |
|---------------------------------------|-------------------------|
| Model:                                | AQUA 17 HSTA            |
|                                       | Water heating heat pump |
| Low-temperature heat pump:            | no                      |
| Equipped with a supplementary heater: | no                      |
| Heat pump combination heater:         | no                      |
| Temperature application:              | low                     |
| Climate conditions:                   | colder                  |

| Item  | Symbol     | Value          |
|---|------------|----------------|
| Rated heat output (*)   | Prated     | 17 kW          |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |            |                |
| $T_j = -7\text{ °C}$  | Pdh        | 16.9 kW        |
| $T_j = +2\text{ °C}$  | Pdh        | 17.1 kW        |
| $T_j = +7\text{ °C}$  | Pdh        | 17.3 kW        |
| $T_j = +12\text{ °C}$   | Pdh        | 17.3 kW        |
| $T_j =$ bivalent temperature  | Pdh        | 16.6 kW        |
| $T_j =$ operation limit temperature   | Pdh        | 16.6 kW        |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )                     | Pdh        | 16.8 kW        |
| Bivalent temperature  | $T_{biv}$  | -22 °C         |
| Power input „compressor off“  |            | 0 W            |
| Power consumption in modes other than active mode   |            |                |
| Off mode  | $P_{OFF}$  | 20 W           |
| Thermostat-off mode   | $P_{TO}$   | 20 W           |
| Standby mode  | $P_{SB}$   | 20 W           |
| Crankcase heater mode   | $P_{CK}$   | 0 W            |
| Other items   |            |                |
| Capacity control  | fixed      |                |
| Sound power level   | indoors    | $L_{WA}$ 47 dB |
|   | outdoors   | -              |
| Annual energy consumption   | $Q_{HE}$   | 6045 kWh       |
| For heat pump combination heater:   |            |                |
| Declared load profile   | -          |                |
| Daily electricity consumption   | $Q_{elec}$ | -              |

| Item  | Symbol      | Value    |
|---|-------------|----------|
| Seasonal space heating energy efficiency  | $\eta_s$    | 260 %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |             |          |
| $T_j = -7\text{ °C}$  | COPd        | 6.56     |
| $T_j = +2\text{ °C}$  | COPd        | 7.00     |
| $T_j = +7\text{ °C}$  | COPd        | 7.35     |
| $T_j = +12\text{ °C}$   | COPd        | 7.45     |
| $T_j =$ bivalent temperature  | COPd        | 5.93     |
| $T_j =$ operation limit temperature   | COPd        | 5.93     |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )   | COPd        | 6.35     |
| For air-to-water heat pumps:<br>Operation limit temperature   | TOL         | -22 °C   |
| Heating water operating limit temperature   | WTOL        | 68 °C    |
| Supplementary heater  |             |          |
| Rated heat output (*)   | $P_{sup}$   | 0.00 kW  |
| Type of energy input  | electricity |          |
| For air-to-water heat pumps:  |             |          |
| Rated air flow rate, outdoors   | -           | -        |
| For water-/brine-to-water heat pumps:   |             |          |
| Rated brine or water flow rate, outdoor heat exchanger  | -           | 3900 l/h |
| Water heating energy efficiency   |             |          |
|   | $\eta_{wh}$ | -        |
| Daily fuel consumption  |             |          |
|   | $Q_{fuel}$  | -        |

|                 |   |
|-----------------|---|
| Contact details | OCHSNER Wärmepumpen GmbH, Ochsner-Straße 1, A-3350 Haag |
|-----------------|---|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output  $P_{rated}$  is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater  $P_{sup}$  is equal to the supplementary capacity for heating  $sup(T_j)$ .

|                                       |                         |  |
|---------------------------------------|-------------------------|--|
| Model:                                | AQUA 17 HSTA            |  |
|                                       | Water heating heat pump |  |
| Low-temperature heat pump:            | no                      |  |
| Equipped with a supplementary heater: | no                      |  |
| Heat pump combination heater:         | no                      |  |
| Temperature application:              | medium                  |  |
| Climate conditions:                   | colder                  |  |

| Item  | Symbol     | Value          |
|---|------------|----------------|
| Rated heat output (*)   | Prated     | 14 kW          |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |            |                |
| $T_j = -7\text{ °C}$  | Pdh        | 15.1 kW        |
| $T_j = +2\text{ °C}$  | Pdh        | 15.7 kW        |
| $T_j = +7\text{ °C}$  | Pdh        | 16.1 kW        |
| $T_j = +12\text{ °C}$   | Pdh        | 16.4 kW        |
| $T_j =$ bivalent temperature  | Pdh        | 14.3 kW        |
| $T_j =$ operation limit temperature   | Pdh        | 14.3 kW        |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )                     | Pdh        | 14.8 kW        |
| Bivalent temperature  | $T_{biv}$  | -22 °C         |
| Power input „compressor off“  |            | 0 W            |
| Power consumption in modes other than active mode   |            |                |
| Off mode  | $P_{OFF}$  | 20 W           |
| Thermostat-off mode   | $P_{TO}$   | 20 W           |
| Standby mode  | $P_{SB}$   | 20 W           |
| Crankcase heater mode   | $P_{CK}$   | 0 W            |
| Other items   |            |                |
| Capacity control  | fixed      |                |
| Sound power level   | indoors    | $L_{WA}$ 47 dB |
|   | outdoors   | -              |
| Annual energy consumption   | $Q_{HE}$   | 8055 kWh       |
| For heat pump combination heater:   |            |                |
| Declared load profile   | -          |                |
| Daily electricity consumption   | $Q_{elec}$ | -              |

| Item  | Symbol      | Value    |
|---|-------------|----------|
| Seasonal space heating energy efficiency  | $\eta_s$    | 164 %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |             |          |
| $T_j = -7\text{ °C}$  | COPd        | 4.04     |
| $T_j = +2\text{ °C}$  | COPd        | 4.63     |
| $T_j = +7\text{ °C}$  | COPd        | 5.19     |
| $T_j = +12\text{ °C}$   | COPd        | 5.67     |
| $T_j =$ bivalent temperature  | COPd        | 3.33     |
| $T_j =$ operation limit temperature   | COPd        | 3.33     |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )   | COPd        | 3.71     |
| For air-to-water heat pumps:<br>Operation limit temperature   | TOL         | -22 °C   |
| Heating water operating limit temperature   | WTOL        | 68 °C    |
| Supplementary heater  |             |          |
| Rated heat output (*)   | $P_{sup}$   | 0.00 kW  |
| Type of energy input  | electricity |          |
| For air-to-water heat pumps:<br>Rated air flow rate, outdoors   | -           | -        |
| For water-/brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor heat exchanger                                     | -           | 3900 l/h |
| Water heating energy efficiency   | $\eta_{wh}$ | -        |
| Daily fuel consumption  | $Q_{fuel}$  | -        |

|                 |   |
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|-----------------|---|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup( $T_j$ ).

|                                       |                         |
|---------------------------------------|-------------------------|
| Model:                                | AQUA 17 HSTA            |
|                                       | Water heating heat pump |
| Low-temperature heat pump:            | no                      |
| Equipped with a supplementary heater: | no                      |
| Heat pump combination heater:         | no                      |
| Temperature application:              | low                     |
| Climate conditions:                   | average                 |

| Item  | Symbol     | Value          |
|---|------------|----------------|
| Rated heat output (*)   | Prated     | 17 kW          |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |            |                |
| $T_j = -7\text{ °C}$  | Pdh        | 16.6 kW        |
| $T_j = +2\text{ °C}$  | Pdh        | 16.9 kW        |
| $T_j = +7\text{ °C}$  | Pdh        | 17.1 kW        |
| $T_j = +12\text{ °C}$   | Pdh        | 17.4 kW        |
| $T_j =$ bivalent temperature  | Pdh        | 16.6 kW        |
| $T_j =$ operation limit temperature   | Pdh        | 16.6 kW        |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )                     | Pdh        | 16.6 kW        |
| Bivalent temperature  | $T_{biv}$  | -10 °C         |
| Power input „compressor off“  |            | 0 W            |
| Power consumption in modes other than active mode   |            |                |
| Off mode  | $P_{OFF}$  | 20 W           |
| Thermostat-off mode   | $P_{TO}$   | 20 W           |
| Standby mode  | $P_{SB}$   | 20 W           |
| Crankcase heater mode   | $P_{CK}$   | 0 W            |
| Other items   |            |                |
| Capacity control  | fixed      |                |
| Sound power level   | indoors    | LWA      47 dB |
|   | outdoors   | -              |
| Annual energy consumption   | $Q_{HE}$   | 5263 kWh       |
| For heat pump combination heater:   |            |                |
| Declared load profile   | -          |                |
| Daily electricity consumption   | $Q_{elec}$ | -              |

| Item  | Symbol      | Value    |
|---|-------------|----------|
| Seasonal space heating energy efficiency  | $\eta_s$    | 250 %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |             |          |
| $T_j = -7\text{ °C}$  | COPd        | 6.01     |
| $T_j = +2\text{ °C}$  | COPd        | 6.49     |
| $T_j = +7\text{ °C}$  | COPd        | 6.97     |
| $T_j = +12\text{ °C}$   | COPd        | 7.51     |
| $T_j =$ bivalent temperature  | COPd        | 5.93     |
| $T_j =$ operation limit temperature   | COPd        | 5.93     |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )   | COPd        | 5.93     |
| For air-to-water heat pumps:<br>Operation limit temperature   | TOL         | -10 °C   |
| Heating water operating limit temperature   | WTOL        | 68 °C    |
| Supplementary heater  |             |          |
| Rated heat output (*)   | $P_{sup}$   | 0.00 kW  |
| Type of energy input  | electricity |          |
|   |             |          |
| For air-to-water heat pumps:<br>Rated air flow rate, outdoors   | -           | -        |
| For water-/brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor heat exchanger                                     | -           | 3900 l/h |
|   |             |          |
| Water heating energy efficiency   | $\eta_{wh}$ | -        |
| Daily fuel consumption  | $Q_{fuel}$  | -        |

|                 |   |
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|-----------------|---|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup( $T_j$ ).

|                                       |                         |  |
|---------------------------------------|-------------------------|--|
| Model:                                | AQUA 17 HSTA            |  |
|                                       | Water heating heat pump |  |
| Low-temperature heat pump:            | no                      |  |
| Equipped with a supplementary heater: | no                      |  |
| Heat pump combination heater:         | no                      |  |
| Temperature application:              | medium                  |  |
| Climate conditions:                   | average                 |  |

| Item   | Symbol            | Value                 |
|--|-------------------|-----------------------|
| Rated heat output (*)  | Prated            | 14 kW                 |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub> |                   |                       |
| T <sub>j</sub> = -7 °C   | P <sub>dh</sub>   | 14.5 kW               |
| T <sub>j</sub> = +2 °C   | P <sub>dh</sub>   | 15.3 kW               |
| T <sub>j</sub> = +7 °C   | P <sub>dh</sub>   | 15.8 kW               |
| T <sub>j</sub> = +12 °C  | P <sub>dh</sub>   | 16.3 kW               |
| T <sub>j</sub> =        bivalent temperature   | P <sub>dh</sub>   | 14.3 kW               |
| T <sub>j</sub> =        operation limit temperature  | P <sub>dh</sub>   | 14.3 kW               |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15 °C    (if TOL < - 20 °C)                                  | P <sub>dh</sub>   | 14.3 kW               |
| Bivalent temperature   | T <sub>biv</sub>  | -10 °C                |
| Power input „compressor off“   |                   | 0 W                   |
| Power consumption in modes other than active mode  |                   |                       |
| Off mode   | P <sub>OFF</sub>  | 20 W                  |
| Thermostat-off mode  | P <sub>TO</sub>   | 20 W                  |
| Standby mode   | P <sub>SB</sub>   | 20 W                  |
| Crankcase heater mode  | P <sub>CK</sub>   | 0 W                   |
| Sonstige Elemente  |                   |                       |
| Capacity control   | fixed             |                       |
| Sound power level  | indoors           | L <sub>WA</sub> 47 dB |
|  | outdoors          | -                     |
| Annual energy consumption  | Q <sub>HE</sub>   | 6965 kWh              |
| For heat pump combination heater:  |                   |                       |
| Declared load profile  | -                 |                       |
| Daily electricity consumption  | Q <sub>elec</sub> | -                     |

| Item   | Symbol            | Value    |
|--|-------------------|----------|
| Seasonal space heating energy efficiency   | η <sub>s</sub>    | 159 %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub> |                   |          |
| T <sub>j</sub> = -7 °C   | COP <sub>d</sub>  | 3.50     |
| T <sub>j</sub> = +2 °C   | COP <sub>d</sub>  | 4.20     |
| T <sub>j</sub> = +7 °C   | COP <sub>d</sub>  | 4.74     |
| T <sub>j</sub> = +12 °C  | COP <sub>d</sub>  | 5.40     |
| T <sub>j</sub> =        bivalent temperature   | COP <sub>d</sub>  | 3.33     |
| T <sub>j</sub> =        operation limit temperature  | COP <sub>d</sub>  | 3.33     |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15 °C    (if TOL < - 20 °C)  | COP <sub>d</sub>  | 3.33     |
| For air-to-water heat pumps:<br>Operation limit temperature  | TOL               | -10 °C   |
| Heating water operating limit temperature  | WTOL              | 68 °C    |
| Supplementary heater   |                   |          |
| Rated heat output (*)  | P <sub>sup</sub>  | 0.00 kW  |
| Type of energy input   | electricity       |          |
| For air-to-water heat pumps:<br>Rated air flow rate, outdoors  | -                 | -        |
| For water-/brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor heat exchanger  | -                 | 3900 l/h |
| Water heating energy efficiency  | η <sub>wh</sub>   | -        |
| Daily fuel consumption   | Q <sub>fuel</sub> | -        |

|                 |   |
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|-----------------|---|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

|                                       |                         |
|---------------------------------------|-------------------------|
| Model:                                | AQUA 17 HSTA            |
|                                       | Water heating heat pump |
| Low-temperature heat pump:            | no                      |
| Equipped with a supplementary heater: | no                      |
| Heat pump combination heater:         | no                      |
| Temperature application:              | low                     |
| Climate conditions:                   | warmer                  |

| Item  | Symbol     | Value          |
|---|------------|----------------|
| Rated heat output (*)   | Prated     | 17 kW          |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |            |                |
| $T_j = -7\text{ °C}$  | Pdh        | 16.6 kW        |
| $T_j = +2\text{ °C}$  | Pdh        | 16.6 kW        |
| $T_j = +7\text{ °C}$  | Pdh        | 16.8 kW        |
| $T_j = +12\text{ °C}$   | Pdh        | 17.2 kW        |
| $T_j =$ bivalent temperature  | Pdh        | 16.6 kW        |
| $T_j =$ operation limit temperature   | Pdh        | 16.6 kW        |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )                     | Pdh        | 16.6 kW        |
| Bivalent temperature  | $T_{biv}$  | 2 °C           |
| Power input „compressor off“  |            | 0 W            |
| Power consumption in modes other than active mode   |            |                |
| Off mode  | $P_{OFF}$  | 20 W           |
| Thermostat-off mode   | $P_{TO}$   | 20 W           |
| Standby mode  | $P_{SB}$   | 20 W           |
| Crankcase heater mode   | $P_{CK}$   | 0 W            |
| Sonstige Elemente   |            |                |
| Capacity control  | fixed      |                |
| Sound power level   | indoors    | $L_{WA}$ 47 dB |
|   | outdoors   | -              |
| Annual energy consumption   | $Q_{HE}$   | 3399 kWh       |
| For heat pump combination heater:   |            |                |
| Declared load profile   | -          |                |
| Daily electricity consumption   | $Q_{elec}$ | -              |

|                 |   |
|-----------------|---|
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|-----------------|---|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup( $T_j$ ).

| Item  | Symbol      | Value    |
|---|-------------|----------|
| Seasonal space heating energy efficiency  | $\eta_s$    | 250 %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |             |          |
| $T_j = -7\text{ °C}$  | COPd        | 5.93     |
| $T_j = +2\text{ °C}$  | COPd        | 5.93     |
| $T_j = +7\text{ °C}$  | COPd        | 6.38     |
| $T_j = +12\text{ °C}$   | COPd        | 7.51     |
| $T_j =$ bivalent temperature  | COPd        | 5.93     |
| $T_j =$ operation limit temperature   | COPd        | 5.93     |
| For air-to-water heat pumps:<br>$T_j = -15\text{ °C}$ (if TOL< – 20 °C)   | COPd        | 5.93     |
| For air-to-water heat pumps:<br>Operation limit temperature   | TOL         | 2 °C     |
| Heating water operating limit temperature   | WTOL        | 68 °C    |
| Supplementary heater  |             |          |
| Rated heat output (*)   | Psup        | 0.00 kW  |
| Type of energy input  | electricity |          |
|   |             |          |
| For air-to-water heat pumps:<br>Rated air flow rate, outdoors   | -           | -        |
| For water-/brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor heat exchanger                                     | -           | 3900 l/h |
|   |             |          |
| Water heating energy efficiency   | $\eta_{wh}$ | -        |
| Daily fuel consumption  | $Q_{fuel}$  | -        |

|                                       |                         |
|---------------------------------------|-------------------------|
| Model:                                | AQUA 17 HSTA            |
|                                       | Water heating heat pump |
| Low-temperature heat pump:            | no                      |
| Equipped with a supplementary heater: | no                      |
| Heat pump combination heater:         | no                      |
| Temperature application:              | medium                  |
| Climate conditions:                   | warmer                  |

| Item   | Symbol            | Value                 |
|--|-------------------|-----------------------|
| Rated heat output (*)  | Prated            | 14 kW                 |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub> |                   |                       |
| T <sub>j</sub> = -7 °C   | Pdh               | 14.3 kW               |
| T <sub>j</sub> = +2 °C   | Pdh               | 14.3 kW               |
| T <sub>j</sub> = +7 °C   | Pdh               | 15.0 kW               |
| T <sub>j</sub> = +12 °C  | Pdh               | 16.0 kW               |
| T <sub>j</sub> =        bivalent temperature   | Pdh               | 14.3 kW               |
| T <sub>j</sub> =        operation limit temperature  | Pdh               | 14.3 kW               |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15 °C    (if TOL < - 20 °C)                                  | Pdh               | 14.3 kW               |
| Bivalent temperature   | T <sub>biv</sub>  | 2 °C                  |
| Power input „compressor off“   |                   | 0 W                   |
| Power consumption in modes other than active mode  |                   |                       |
| Off mode   | P <sub>OFF</sub>  | 20 W                  |
| Thermostat-off mode  | P <sub>TO</sub>   | 20 W                  |
| Standby mode   | P <sub>SB</sub>   | 20 W                  |
| Crankcase heater mode  | P <sub>CK</sub>   | 0 W                   |
| Other items  |                   |                       |
| Capacity control   | fixed             |                       |
| Sound power level  | indoors           | L <sub>WA</sub> 47 dB |
|  | outdoors          | -                     |
| Annual energy consumption  | Q <sub>HE</sub>   | 4513 kWh              |
| For heat pump combination heater:  |                   |                       |
| Declared load profile  | -                 |                       |
| Daily electricity consumption  | Q <sub>elec</sub> | -                     |

| Item   | Symbol            | Value    |
|--|-------------------|----------|
| Seasonal space heating energy efficiency   | η <sub>s</sub>    | 158 %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub> |                   |          |
| T <sub>j</sub> = -7 °C   | COP <sub>d</sub>  | 3.33     |
| T <sub>j</sub> = +2 °C   | COP <sub>d</sub>  | 3.33     |
| T <sub>j</sub> = +7 °C   | COP <sub>d</sub>  | 3.87     |
| T <sub>j</sub> = +12 °C  | COP <sub>d</sub>  | 4.95     |
| T <sub>j</sub> =        bivalent temperature   | COP <sub>d</sub>  | 3.33     |
| T <sub>j</sub> =        operation limit temperature  | COP <sub>d</sub>  | 3.33     |
| For air-to-water heat pumps:<br>T <sub>j</sub> = -15 °C    (if TOL < - 20 °C)  | COP <sub>d</sub>  | 3.33     |
| For air-to-water heat pumps:<br>Operation limit temperature  | TOL               | 2 °C     |
| Heating water operating limit temperature  | WTOL              | 68 °C    |
| Supplementary heater   |                   |          |
| Rated heat output (*)  | P <sub>sup</sub>  | 0.00 kW  |
| Type of energy input   | electricity       |          |
| For air-to-water heat pumps:<br>Rated air flow rate, outdoors  | -                 | -        |
| For water-/brine-to-water heat pumps:<br>Rated brine or water flow rate, outdoor heat exchanger  | -                 | 3900 l/h |
| Water heating energy efficiency  | η <sub>wh</sub>   | -        |
| Daily fuel consumption   | Q <sub>fuel</sub> | -        |

|                 |   |
|-----------------|---|
| Contact details | OCHSNER Wärmepumpen GmbH, Ochsner-Straße 1, A-3350 Haag |
|-----------------|---|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T<sub>j</sub>).