



OCHSNER

AQUA 14 HSTA



55 °C

35 °C



■ 11 kW

11 kW

■ 11 kW

■12 kW

■ 12 kW

■12 kW





2019

811/2013



| Heatpump datasheet:   |              |                |  |  |
|---|--------------|----------------|--|--|
| Manufacturer:   | OCHSNER      |                |  |  |
| Model:  | AQUA 14 HSTA | AQUA 14 HSTA   |  |  |
|   |              |                |  |  |
| Information concerning energy efficiency class and rated heat out | tput:        |                |  |  |
|   | average/low  | average/medium |  |  |
| Energy efficiency class space heater:                             | A+++         | A+++           |  |  |
| Rated heat output:  | 12 kW        | 11 kW          |  |  |
| Energy efficiency space heater:                                   | 246 %        | 158 %          |  |  |
| Annual final energy consumption space heater:                     | 3952 kWh     | 5487 kWh       |  |  |
| Sound power level indoors   | 45,5 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.

| Additional information:                                | low      | medium   |
|--|----------|----------|
| Rated heat output colder climate:                      | 12 kW    | 11 kW    |
| Rated heat output warmer climate:                      | 12 kW    | 11 kW    |
| Energy effiency space heater colder climate:           | 257 %    | 164 %    |
| Energy effiency space heater warmer climate:           | 245 %    | 158 %    |
| Annual energy consumption space heater colder climate: | 4522 kWh | 6339 kWh |
| Annual energy consumption space heater warmer climate: | 2563 kWh | 3566 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 14 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   | Item                    |  | Symbol                     | Value   |
| item   |                  | Symbol            | value   |                         | space heating energy effi-                                   | Syllibol                   | value   |
| Rated heat output (*)                          |                  | Prated            | 12 kW   | ciency                  | space neating energy em-                                     | η <sub>s</sub>             | 257 %   |
| Declared capacity for<br>°C and outdoor temper |                  | load at indoo     | r temperature 20  | Declared c              | coefficient of performance or<br>oor temperature 20 °C and o | primary ene<br>utdoor temp | ergy ratio for part<br>erature T <sub>j</sub> |
| T <sub>j</sub> = -7 °C                         | -                | Pdh               | 12.5 kW   | T <sub>j</sub> = -7 °C  |  | COPd                       | 6.50  |
| T <sub>j</sub> = +2 °C                         |                  | Pdh               | 12.5 kW   | T <sub>j</sub> = +2 °C  |  | COPd                       | 6.96  |
| T <sub>j</sub> = +7 °C                         |                  | Pdh               | 12.6 kW   | T <sub>j</sub> = +7 °C  |  | COPd                       | 7.33  |
| T <sub>j</sub> = +12 °C                        |                  | Pdh               | 12.6 kW   | T <sub>j</sub> = +12 °C | ;  | COPd                       | 7.43  |
| T <sub>j</sub> = bivalent                      | temperature      | Pdh               | 12.3 kW   | T <sub>j</sub> =        | bivalent temperature   | COPd                       | 5.86  |
| T <sub>j</sub> = operation rature              | on limit tempe-  | Pdh               | 12.3 kW   | T <sub>j</sub> =        | operation limit tempe-<br>rature                             | COPd                       | 5.86  |
| For air-to-water heat                          | pumps:           |                   |   | For air-to-v            | r air-to-water heat pumps:                                   | 0001                       | 0.00  |
| $T_j = -15 ^{\circ}\text{C}$ (if TOL<          | – 20 °C)         | Pdh               | 12.4 kW   | T <sub>j</sub> = -15 °C | (if TOL< - 20 °C)  | COPd                       | 6.29  |
| Division to any suctions                       |                  |                   | 00.00   | For air-to-v            | vater heat pumps:  | TOL                        | 22 %C   |
| Bivalent temperature                           |                  | T <sub>biv</sub>  | -22 °C  | Operation               | limit temperature  | TOL                        | -22 °C  |
| Power input "compres                           | ssor off"        |                   | 0 W   | Heating wa              | ater operating limit tempe-                                  | WTOL                       | 68 °C   |
| Power consumption in                           | n modes other th | an active mo      | de  | Suppleme                | ntary heater   |                            |   |
| Off mode                                       |                  | Poff              | 20 W  | Rated hea               | it output (*)  | Psup                       | 0.00 kW                                       |
| Thermostat-off mode                            |                  | P <sub>TO</sub>   | 20 W  |                         |  |                            |   |
| Standby mode                                   |                  | P <sub>SB</sub>   | 20 W  | Type of en              | nergy input  | electricity                |   |
| Crankcase heater mo                            | de               | Pck               | 0 W   |                         |  |                            |   |
| Other items                                    |                  |                   |   |                         |  |                            |   |
| Capacity control                               |                  | fixed             |   | For air-to-v            | vater heat pumps:  |                            |   |
| Sound nower level                              | indoors          | 1                 | 46 dB   | Rated air fl            | low rate, outdoors   | -                          | -   |
| Sound power level                              | outdoors         | L <sub>WA</sub>   | -   | For water-/             | brine-to-water heat pumps:                                   |                            |   |
| Annual energy consumption QHE                  |                  | 4522 kWh          | Rated brine or water flow rate, out-<br>door heat exchanger |                         | -  | 2900 l/h                   |   |
| For heat pump combi                            | nation heater:   |                   |   |                         |  |                            |   |
| Declared load profile                          |                  | -                 |   | Water heat              | ting energy efficiency                                       | η <sub>wh</sub>            | -   |
| Daily electricity consu                        | umption          | Q <sub>elec</sub> | -   | Daily fuel o            | consumption  | Q <sub>fuel</sub>          | -   |
|  |                  |                   |   | T =                     |  |                            |   |
| Contact details                                |                  |                   |   | OCHSNER                 | Wärmepumpen GmbH, Och  | nsner-Straße               | e 1, A-3350 Haag                              |

<sup>(\*)</sup> 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 14 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  |                   |                  |  |
|  |                       | 1                |   |                   | 1                |  |
| Item   | Symbol                | Value            | Item  | Symbol            | Value            |  |
| Rated heat output (*)  | Prated                | 11 kW            | Seasonal space heating energy efficiency                                      | ηs                | 164 %            |  |
| Declared capacity for heating fo °C and outdoor temperature T <sub>j</sub> | or part load at indoo | r temperature 20 | Declared coefficient of performance or load at indoor temperature 20 °C and o |                   |                  |  |
| T <sub>j</sub> = -7 °C   | Pdh                   | 11.6 kW          | T <sub>j</sub> = -7 °C  | COPd              | 4.05             |  |
| T <sub>j</sub> = +2 °C   | Pdh                   | 11.9 kW          | T <sub>j</sub> = +2 °C  | COPd              | 4.63             |  |
| T <sub>j</sub> = +7 °C   | Pdh                   | 12.1 kW          | T <sub>j</sub> = +7 °C  | COPd              | 5.19             |  |
| T <sub>j</sub> = +12 °C  | Pdh                   | 12.3 kW          | T <sub>j</sub> = +12 °C   | COPd              | 5.69             |  |
| T <sub>j</sub> = bivalent temperate  | ure Pdh               | 11.3 kW          | T <sub>j</sub> = bivalent temperature   | COPd              | 3.36             |  |
| T <sub>j</sub> = operation limit ten                                       | npe- Pdh              | 11.3 kW          | T <sub>j</sub> = operation limit temperature                                  | COPd              | 3.36             |  |
| For air-to-water heat pumps:   | Dale                  | 44 5 130/        | For air-to-water heat pumps:  | COPd              | 3.73             |  |
| $T_j = -15 ^{\circ}\text{C}$ (if TOL< $-20 ^{\circ}\text{C}$ )             | Pdh                   | 11.5 kW          | $T_j = -15 ^{\circ}\text{C}$ (if TOL< $-20 ^{\circ}\text{C}$ )                | COPa              | 3.73             |  |
| Bivalent temperature   | T <sub>biv</sub>      | -22 °C           | For air-to-water heat pumps:  | TOL               | -22 °C           |  |
| Divalent temperature   | I DIV                 |                  | Operation limit temperature   | TOL               |                  |  |
| Power input "compressor off"   |                       | 0 W              | Heating water operating limit temperature                                     | WTOL              | 68 °C            |  |
| Power consumption in modes of  | other than active mo  | de               | Supplementary heater  |                   |                  |  |
| Off mode   | Poff                  | 20 W             | Rated heat output (*)   | Psup              | 0.00 kW          |  |
| Thermostat-off mode  | P <sub>TO</sub>       | 20 W             |   |                   |                  |  |
| Standby mode   | P <sub>SB</sub>       | 20 W             | Type of energy input  | electricity       |                  |  |
| Crankcase heater mode  | P <sub>CK</sub>       | 0 W              |   |                   |                  |  |
| Other items  |                       |                  |   |                   |                  |  |
| Capacity control   | fixed                 |                  | For air-to-water heat pumps:  |                   | _                |  |
| Sound power level indoors  | 1                     | 46 dB            | Rated air flow rate, outdoors   | -                 | -                |  |
| outdoors   | LWA                   | -                | For water-/brine-to-water heat pumps:   |                   |                  |  |
| Annual energy consumption QHE 6339   |                       | 6339 kWh         | Rated brine or water flow rate, out-<br>door heat exchanger                   | -                 | 2900 l/h         |  |
| For heat pump combination hea  | ater:                 |                  |   | '                 |                  |  |
| Declared load profile  | -                     |                  | Water heating energy efficiency   | η <sub>wh</sub>   | -                |  |
| Daily electricity consumption  | Q <sub>elec</sub>     | -                | Daily fuel consumption  | Q <sub>fuel</sub> | -                |  |
| Contact details  |                       |                  | OCHSNER Wärmepumpen GmbH, Och   | nsner-Straße      | e 1, A-3350 Haad |  |

<sup>(\*)</sup> 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 14 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            | Item  | Symbol                                | Value            |  |
| Rated heat output (*)  | Prated            | 12 kW            | Seasonal space heating energy efficiency                                      | $\eta_s$                              | 246 %            |  |
| Declared capacity for heating for par $^{\circ}\text{C}$ and outdoor temperature $T_{j}$ | t load at indoo   | r temperature 20 | Declared coefficient of performance or load at indoor temperature 20 °C and c |                                       |                  |  |
| T <sub>j</sub> = -7 °C   | Pdh               | 12.3 kW          | T <sub>j</sub> = -7 °C  | COPd                                  | 5.94             |  |
| T <sub>j</sub> = +2 °C   | Pdh               | 12.4 kW          | T <sub>j</sub> = +2 °C  | COPd                                  | 6.43             |  |
| T <sub>j</sub> = +7 °C   | Pdh               | 12.5 kW          | T <sub>j</sub> = +7 °C  | COPd                                  | 6.93             |  |
| T <sub>j</sub> = +12 °C  | Pdh               | 12.6 kW          | T <sub>j</sub> = +12 °C   | COPd                                  | 7.50             |  |
| T <sub>j</sub> = bivalent temperature  | Pdh               | 12.3 kW          | T <sub>j</sub> = bivalent temperature   | COPd                                  | 5.86             |  |
| T <sub>j</sub> = operation limit temperature   | Pdh               | 12.3 kW          | T <sub>j</sub> = operation limit temperature                                  | COPd                                  | 5.86             |  |
| For air-to-water heat pumps:   | Pdh               | 12.3 kW          | For air-to-water heat pumps:  | COPd                                  | 5.86             |  |
| $T_j = -15 ^{\circ}\text{C}$ (if TOL< $-20 ^{\circ}\text{C}$ )                           |                   |                  | $T_j = -15 \text{ °C}$ (if TOL< $-20 \text{ °C}$ )                            |                                       |                  |  |
| Bivalent temperature   | T <sub>biv</sub>  | -10 °C           | For air-to-water heat pumps:  | TOL                                   | -10 °C           |  |
|  |                   |                  | Operation limit temperature   |                                       |                  |  |
| Power input "compressor off"   |                   | 0 W              | Heating water operating limit temperature                                     | WTOL                                  | 68 °C            |  |
| Power consumption in modes other t   | han active mo     | de               | Supplementary heater  |                                       |                  |  |
| Off mode   | Poff              | 20 W             | Rated heat output (*)   | Psup                                  | 0.00 kW          |  |
| Thermostat-off mode  | P <sub>TO</sub>   | 20 W             | _   |                                       |                  |  |
| Standby mode   | P <sub>SB</sub>   | 20 W             | Type of energy input  | electricity                           |                  |  |
| Crankcase heater mode  | P <sub>CK</sub>   | 0 W              |   |                                       |                  |  |
| Other items  |                   |                  |   |                                       |                  |  |
| Capacity control   | fixed             |                  | For air-to-water heat pumps:  | _                                     | _                |  |
| Sound power level indoors  | L <sub>WA</sub>   | 46 dB            | Rated air flow rate, outdoors   |                                       |                  |  |
| outdoors   | -vvA              | -                | For water-/brine-to-water heat pumps:   | For water-/brine-to-water heat pumps: |                  |  |
| Annual energy consumption Q <sub>HE</sub> 3952 kN  |                   | 3952 kWh         | Rated brine or water flow rate, out-<br>door heat exchanger                   | -                                     | 2900 l/h         |  |
| For heat pump combination heater:  |                   |                  |   | -                                     |                  |  |
| Declared load profile  | -                 |                  | Water heating energy efficiency   | -                                     |                  |  |
| Daily electricity consumption  | Q <sub>elec</sub> | -                | Daily fuel consumption  | Q <sub>fuel</sub>                     | -                |  |
| Contact details  |                   |                  | OCHSNER Wärmepumpen GmbH, Och   | nsner-Straße                          | e 1, A-3350 Haag |  |

<sup>(\*)</sup> 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 14 HSTA  |   |  |  |  |
|---------------------------------------|--|---|---|--|--|--|
|                                       |  |   | Water heating heat pump   |  |  |  |
| Low-temperature heat pump:            |  |   | no  |  |  |  |
| Equipped with a supplementary heater: |  |   |   |  |  |  |
| Heat pump combination heater:         |  |   |   |  |  |  |
|                                       |  | medium  |   |  |  |  |
|                                       |  | average   |   |  |  |  |
|                                       |  |   |   |  |  |  |
| Symbol                                | Value  | Item  | Symbol  | Value  |  |  |
| Prated                                | 11 kW  | Seasonal space heating energy efficiency  | η <sub>s</sub>  | 158 %  |  |  |
| art load at indoo                     | r temperature 20   |   |   |  |  |  |
| Pdh                                   | 11.4 kW  | T <sub>j</sub> = -7 °C  | COPd  | 3.52   |  |  |
| Pdh                                   | 11.7 kW  | T <sub>j</sub> = +2 °C  | COPd  | 4.20   |  |  |
| Pdh                                   | 11.9 kW  | T <sub>j</sub> = +7 °C  | COPd  | 4.74   |  |  |
| Pdh                                   | 12.2 kW  | T <sub>j</sub> = +12 °C   | COPd  | 5.41   |  |  |
| Pdh                                   | 11.3 kW  | T <sub>j</sub> = bivalent temperature   | COPd  | 3.36   |  |  |
| Pdh                                   | 11.3 kW  | T <sub>j</sub> = operation limit temperature  | COPd  | 3.36   |  |  |
| D.11                                  | 44.0.134   | For air-to-water heat pumps:  | 0004  | 0.00   |  |  |
| Pan                                   | 11.3 KVV   | $T_j = -15 ^{\circ}\text{C}$ (if TOL< $-20 ^{\circ}\text{C}$ )  | COPa  | 3.36   |  |  |
| т.                                    | -10 °C   | For air-to-water heat pumps:  | TOL   | -10 °C   |  |  |
| biv                                   |  | Operation limit temperature   | TOL   |  |  |  |
|                                       | 0 W  | Heating water operating limit temperature   | WTOL  | 68 °C  |  |  |
| er than active mo                     | de   | Supplementary heater  |   |  |  |  |
| Poff                                  | 20 W   | Rated heat output (*)   | Psup  | 0.00 kW  |  |  |
| P <sub>TO</sub>                       | 20 W   |   |   |  |  |  |
| P <sub>SB</sub>                       | 20 W   | Type of energy input  | electricity   |  |  |  |
| Pck                                   | 0 W  | -   |   |  |  |  |
|                                       |  |   |   |  |  |  |
| fixed                                 |  | For air-to-water heat pumps:  |   |  |  |  |
| 1                                     | 46 dB  | Rated air flow rate, outdoors   | -   | -  |  |  |
| LWA                                   | -  | For water-/brine-to-water heat pumps:   |   |  |  |  |
| Annual energy consumption QHE 54      |  | Rated brine or water flow rate, out-<br>door heat exchanger   | -   | 2900 l/h   |  |  |
| -:                                    | •  |   |   | •  |  |  |
| -                                     |  | Water heating energy efficiency   | η <sub>wh</sub>   | -  |  |  |
| Q <sub>elec</sub>                     | -  | Daily fuel consumption  | Q <sub>fuel</sub>   | -  |  |  |
|                                       |  | OCHSNER Wärmepumpen GmbH, Och   | hsner-Straße  | e 1, A-3350 Haag   |  |  |
|                                       | Symbol Prated Prated Part load at indoor Pdh | Symbol   Value   Prated   11 kW   Prated   11 kW   Prated   11.4 kW   Prated   11.7 kW   Prated   11.9 kW   Prated   11.9 kW   Prated   11.3 kW | Water heating heat pump  no  no  medium  average    Symbol   Value   Item | Water heating heat pump  no  no  medium  average    Symbol   Value   Item   Symbol |  |  |

<sup>(\*)</sup> 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 14 HSTA  |                   |                  |
|--|-------------------|-------------------|---|---|-------------------|------------------|
|  |                   |                   | Water heating heat pump                                     |   |                   |                  |
| Low-temperature heat pump:                     |                   |                   | no  |   |                   |                  |
| Equipped with a supplementary heater:          |                   |                   | no  |   |                   |                  |
| Heat pump combination heater:                  |                   |                   | no  |   |                   |                  |
| Temperature applicat                           | ion:              |                   |   | low   |                   |                  |
| Climate conditions:                            |                   |                   |   | warmer  |                   |                  |
|  |                   |                   |   |   |                   |                  |
| Item   |                   | Symbol            | Value   | Item  | Symbol            | Value            |
| Rated heat output (*)                          |                   | Prated            | 12 kW   | Seasonal space heating energy efficiency                                      | η <sub>s</sub>    | 245 %            |
| Declared capacity for<br>°C and outdoor temper |                   | ad at indoo       | r temperature 20  | Declared coefficient of performance or load at indoor temperature 20 °C and o |                   |                  |
| T <sub>j</sub> = -7 °C                         |                   | Pdh               | 12.3 kW   | T <sub>j</sub> = -7 °C  | COPd              | 5.86             |
| T <sub>j</sub> = +2 °C                         |                   | Pdh               | 12.3 kW   | T <sub>j</sub> = +2 °C  | COPd              | 5.86             |
| T <sub>j</sub> = +7 °C                         |                   | Pdh               | 12.4 kW   | T <sub>j</sub> = +7 °C  | COPd              | 6.32             |
| T <sub>j</sub> = +12 °C                        |                   | Pdh               | 12.6 kW   | T <sub>j</sub> = +12 °C   | COPd              | 7.12             |
| T <sub>j</sub> = bivalent                      | temperature       | Pdh               | 12.3 kW   | T <sub>j</sub> = bivalent temperature   | COPd              | 5.86             |
| T <sub>j</sub> = operation rature              | on limit tempe-   | Pdh               | 12.3 kW   | T <sub>j</sub> = operation limit temperature                                  | COPd              | 5.86             |
| For air-to-water heat                          |                   | Pdh               | 12.3 kW   | For air-to-water heat pumps:  | COPd              | 5.86             |
| $T_j = -15 ^{\circ}\text{C}$ (if TOL<          | – 20 °C)          |                   |   | $T_j = -15 ^{\circ}\text{C}  (\text{if TOL} < -20 ^{\circ}\text{C})$          |                   |                  |
| Bivalent temperature                           |                   | T <sub>biv</sub>  | 2 °C  | For air-to-water heat pumps:  | TOL               | 2 °C             |
|  |                   |                   |   | Operation limit temperature   |                   |                  |
| Power input "compres                           | ssor off"         |                   | 0 W   | Heating water operating limit temperature                                     | WTOL              | 68 °C            |
| Power consumption in                           | n modes other tha | n active mo       | de  | Supplementary heater  |                   |                  |
| Off mode                                       |                   | Poff              | 20 W  | Rated heat output (*)   | Psup              | 0.00 kW          |
| Thermostat-off mode                            |                   | P <sub>TO</sub>   | 20 W  | -   |                   |                  |
| Standby mode                                   |                   | P <sub>SB</sub>   | 20 W  | Type of energy input  | electricity       |                  |
| Crankcase heater mo                            | ode               | P <sub>CK</sub>   | 0 W   |   |                   |                  |
| Sonstige Elemente                              |                   |                   |   |   |                   |                  |
| Capacity control                               |                   | fixed             | 1   | For air-to-water heat pumps:  | _                 | _                |
| Sound power level                              | indoors           | L <sub>WA</sub>   | 46 dB   | Rated air flow rate, outdoors   |                   |                  |
| F - 1101 10101                                 | outdoors          | -11/3             | -   | For water-/brine-to-water heat pumps:   |                   |                  |
| Annual energy consumption QHE 2563 k           |                   | 2563 kWh          | Rated brine or water flow rate, out-<br>door heat exchanger | -   | 2900 l/h          |                  |
| For heat pump combi                            | nation heater:    |                   |   |   |                   |                  |
| Declared load profile                          |                   | -                 |   | Water heating energy efficiency r   |                   | -                |
| Daily electricity consu                        | umption           | Q <sub>elec</sub> | -   | Daily fuel consumption  | Q <sub>fuel</sub> | -                |
| Contact details                                |                   |                   |   | OCHSNER Wärmepumpen GmbH, Och   | nsner-Straße      | e 1, A-3350 Haag |

<sup>(\*)</sup> 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 14 HSTA      |                            |  |   |                   |                  |
|--|------------------|-------------------|----------------------------|--|---|-------------------|------------------|
|  |                  |                   | Water heating heat pump    |  |   |                   |                  |
| Low-temperature heat pump:                       |                  |                   | no                         |  |   |                   |                  |
| Equipped with a supplementary heater:            |                  |                   | no                         |  |   |                   |                  |
| Heat pump combination heater:                    |                  |                   | no                         |  |   |                   |                  |
| Temperature application                          | on:              |                   |                            | medium                                 |   |                   |                  |
| Climate conditions:                              |                  |                   |                            | warmer                                 |   |                   |                  |
|  |                  |                   |                            |  |   |                   |                  |
| Item   |                  | Symbol            | Value                      | Item                                   |   | Symbol            | Value            |
| Rated heat output (*)                            |                  | Prated            | 11 kW                      | Seasonal sp<br>ciency                  | pace heating energy effi-                                   | ης                | 158 %            |
| Declared capacity for h<br>°C and outdoor temper |                  | ad at indoo       | r temperature 20           |  | pefficient of performance or<br>oor temperature 20 °C and o |                   |                  |
| T <sub>j</sub> = -7 °C                           |                  | Pdh               | 11.3 kW                    | T <sub>j</sub> = -7 °C                 |   | COPd              | 3.36             |
| T <sub>j</sub> = +2 °C                           |                  | Pdh               | 11.3 kW                    | T <sub>j</sub> = +2 °C                 |   | COPd              | 3.36             |
| T <sub>j</sub> = +7 °C                           |                  | Pdh               | 11.6 kW                    | T <sub>j</sub> = +7 °C                 |   | COPd              | 3.88             |
| T <sub>j</sub> = +12 °C                          |                  | Pdh               | 12.0 kW                    | T <sub>j</sub> = +12 °C                |   | COPd              | 4.95             |
| T <sub>j</sub> = bivalent to                     | emperature       | Pdh               | 11.3 kW                    | T <sub>j</sub> =                       | bivalent temperature  | COPd              | 3.36             |
| T <sub>j</sub> = operation rature                | limit tempe-     | Pdh               | 11.3 kW                    | T <sub>j</sub> =                       | operation limit tempe-<br>rature                            | COPd              | 3.36             |
| For air-to-water heat p                          | umps:            |                   |                            | For air-to-water heat pumps:           | COPd  | 0.00              |                  |
| $T_j = -15 ^{\circ}\text{C}$ (if TOL< -          | - 20 °C)         | Pdh               | 11.3 kW                    | T <sub>j</sub> = -15 °C                | = -15 °C (if TOL< – 20 °C)                                  |                   | 3.36             |
| Pivolent temperature                             |                  | T <sub>biv</sub>  | 2 °C                       | For air-to-w                           | ater heat pumps:  | TOI               | 2 °C             |
| Bivalent temperature                             |                  |                   |                            | Operation li                           | imit temperature  | TOL               |                  |
| Power input "compress                            | sor off"         |                   | 0 W                        | Heating wat                            | ter operating limit tempe-                                  | WTOL              | 68 °C            |
| Power consumption in                             | modes other than | active mo         | de                         | Supplemen                              | ntary heater  |                   |                  |
| Off mode   |                  | Poff              | 20 W                       | Rated heat                             | t output (*)  | Psup              | 0.00 kW          |
| Thermostat-off mode                              |                  | P <sub>TO</sub>   | 20 W                       |  |   |                   |                  |
| Standby mode                                     |                  | P <sub>SB</sub>   | 20 W                       | Type of ene                            | ergy input  | electricity       |                  |
| Crankcase heater mod                             | le               | Pck               | 0 W                        |  |   |                   |                  |
| Other items                                      |                  |                   |                            |  |   |                   |                  |
| Capacity control                                 |                  | fixed             |                            | For air-to-w                           | rater heat pumps:   |                   |                  |
| Caused manuar laural                             | ndoors           |                   | 46 dB                      | Rated air flo                          | ow rate, outdoors   | -                 | -                |
| Sound power level                                | outdoors         | LWA               | -                          | For water-/k                           | orine-to-water heat pumps:                                  |                   |                  |
| Annual energy consumption Q <sub>HE</sub>        |                  | 3566 kWh          | Rated brine<br>door heat e | e or water flow rate, out-<br>xchanger | -   | 2900 l/h          |                  |
| For heat pump combination                        | ation heater:    |                   |                            |  |   |                   | •                |
| Declared load profile                            |                  | -                 |                            | Water heati                            | ng energy efficiency  | η <sub>wh</sub>   | -                |
| Daily electricity consur                         | nption           | Q <sub>elec</sub> | -                          | Daily fuel co                          | onsumption  | Q <sub>fuel</sub> | -                |
| Contact details                                  |                  |                   |                            | OCHSNER                                | Wärmepumpen GmbH, Och                                       | ısner-Straße      | e 1, A-3350 Haag |

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