

| Model  |                  |                      |           | AGHP081PH   |                      |              |         |  |
|--|------------------|----------------------|-----------|---|----------------------|--------------|---------|--|
|  | ⊠ Air-to-wa      | ater heat pum        | р         |   |                      |              |         |  |
| Type of heat pump  | □ Water-to       | -water heat p        | ump       |   |                      |              |         |  |
|  | ☐ Brine-to-      | e-to-water heat pump |           |   |                      |              |         |  |
| Low-temperature heat pump  | ☐ Yes            | ⊠ No                 |           |   |                      |              |         |  |
| Equipped with a supplementary heater                                 | □ Yes            | ⊠ No                 |           |   |                      |              |         |  |
| Heat pump combination heater   | Yes              | □ No                 |           |   |                      |              |         |  |
| Climate  |                  |                      | □ Colder  | □ Warmer  |                      |              |         |  |
| Temperature application  | □ Medium         | (55°C)               |           | °C)   |                      |              |         |  |
| Applied starndards   | EN14825 / E      | N16147               |           |   |                      |              |         |  |
| Item   | Symbol           | Value                | Unit      | Item  | Symbol               | Value        | Unit    |  |
| Rated heat output  | Prated           | 6                    | kW        | Seasonal space heating energy efficiency  | $\eta_{\rm s}$       | 183          | %       |  |
| Declared capacity for heating for part loo<br>outdoor temperature Tj | ad at indoor te  | emperature 20        | °C and    | Declared coefficient of performance or period indoor temperature 20 °C and outdoor to |                      |              | load at |  |
| Tj = - 7°C   | Pdh              | 5,20                 | kW        | Ti = - 7°C  | COPd                 | 2,95         | _       |  |
| Degradation coefficient  | Cdh              | 0,99                 | -         | 1, 1 0  | OOF u                | 2,30         | -       |  |
| Tj = + 2°C   | Pdh              | 4,00                 | kW        | Tj = + 2°C  | COPd                 | 4,50         | _       |  |
| Degradation coefficient  | Cdh              | 0,98                 | -         | 1, 120  | J J J                | .,50         |         |  |
| Tj = + 7°C   | Pdh              | 4,40                 | kW        | Tj = + 7°C  | COPd                 | 6,50         | -       |  |
| Degradation coefficient  | Cdh              | 0,97                 | -         | ,   |                      |              |         |  |
| Tj = + 12°C  | Pdh              | 5,50                 | kW        | Tj = + 12°C   | COPd                 | 8,50         | -       |  |
| Degradation coefficient Tj = bivalent temperature                    | Cdh              | 0,97                 | -         | Ti — his colone to man a veture   | COPd                 | 2.05         |         |  |
| Tj = operation limit temperature                                     | Pdh<br>Pdh       | 5,20<br>4,90         | kW<br>kW  | Tj = bivalent temperature Tj = operation limit temperature                            | COPd                 | 2,95<br>2,50 | -       |  |
| T j = - 15 °C (if TOL < - 20 °C)                                     | Pdh              | 4,90                 | kW        | T j = - 15 °C (if TOL < - 20 °C)  | COPd                 | 2,50         | kW      |  |
| Bivalent temperature   | Tbiv             | <u>-</u><br>-7       | °C        | Operation limit temperature   | TOL                  | -25          | °C      |  |
| Bivalent temperature   | TDIV             | -,                   |           |   |                      | -20          |         |  |
| Cycling interval capacity for heating                                | Pcych            | -                    | kW        | Cycling interval efficiency   | COPcyc               | -            | -       |  |
|  |                  |                      |           | Heating water operating limit temperature   | WTOL                 | 60           | °C      |  |
|  | u                |                      |           | 10  |                      |              |         |  |
| Power consumption in modes other t                                   |                  |                      | 134/      | Supplementary heater  | D                    | 4.4          | 1.3.67  |  |
| Off mode Thermostat-off mode   | P <sub>OFF</sub> | 0,018                | kW        | Rated heat output   | Psup                 | 1,1          | kW      |  |
| Standby mode   | P <sub>SB</sub>  | 0,018<br>0,018       | kW<br>kW  | Type of apargy input  |                      | Electric     |         |  |
| Crankcase heater mode  | P <sub>CK</sub>  | 0,010                | kW        | Type of energy input  |                      | Electric     |         |  |
| Claricase fleater filode   | ' CK             | 0,010                | KVV       |   |                      |              |         |  |
| Other items  |                  |                      |           |   |                      |              |         |  |
| Capacity control   |                  | variable             |           | Rated air flow rate, outdoor  | -                    | 2600         | m³/h    |  |
| •  |                  |                      |           | rtated all liew rate, eatager   |                      | 2000         | 111 /11 |  |
| Sound power level, indoor / outdoor                                  | L <sub>WA</sub>  | - / 65               | dB        | Rated brine or water flow rate, outdoor heat exchanger                                | -                    | -            | m³/h    |  |
| Annual energy consumption  | $Q_{HE}$         | 2654                 | kWh       | illeat exchanger  |                      |              |         |  |
| For heat pump combination heater                                     |                  |                      |           |   |                      |              |         |  |
| Declared load profile  |                  | XL                   |           | Water heating energy efficiency   | $\eta_{\mathrm{wh}}$ | 86,7         | %       |  |
| Daily electricity consumption  | Qelec            | 9106                 | kWh       | Daily fuel consumption  | Qfuel                | -            | kWh     |  |
| Annual electricity consumption                                       | AEC              | 1933                 | kWh       | Annual fuel consumption   | AFC                  | -            | GJ      |  |
| Contact details  | ARG              | OCLIMA               | S.p.A.Via | a Alfeno Varo, 35, 25020, Al  | fianello             | (BS), Ital   | y       |  |



| Model  |                 |               |           | AGHP081PH   |                |            |                   |
|--|-----------------|---------------|-----------|---|----------------|------------|-------------------|
|  | ⊠ Air-to-wa     | ater heat pum | р         |   |                |            |                   |
| Type of heat pump  | □ Water-to      | -water heat p | ump       |   |                |            |                   |
|  | ☐ Brine-to-     | water heat pu | mp        |   |                |            |                   |
| Low-temperature heat pump  | □ Yes           | ⊠ No          |           |   |                |            |                   |
| Equipped with a supplementary heater                                 | □ Yes           | ⊠ No          |           |   |                |            |                   |
| Heat pump combination heater   | Yes             | □ No          |           |   |                |            |                   |
| Climate  | ☐ Average       |               |           | □ Warmer  |                |            |                   |
| Temperature application  | ☐ Medium        | (55°C)        |           | 5°C)  |                |            |                   |
| Applied starndards   | EN14825 / E     | N16147        |           |   |                |            |                   |
| Item   | Symbol          | Value         | Unit      | Item  | Symbol         | Value      | Unit              |
| Rated heat output  | Prated          | 5             | kW        | Seasonal space heating energy efficiency  | $\eta_{\rm s}$ | 144        | %                 |
| Declared capacity for heating for part loa<br>outdoor temperature Tj | ad at indoor te | emperature 20 | ) °C and  | Declared coefficient of performance or period indoor temperature 20 °C and outdoor to |                |            | load at           |
| Tj = - 7°C   | Pdh             | 3,70          | kW        | Tj = - 7°C  | COPd           | 3,10       | _                 |
| Degradation coefficient  | Cdh             | 0,98          | -         | 1, 7 5  | ooru           | 3,10       | -                 |
| Tj = + 2°C   | Pdh             | 3,60          | kW        | Tj = + 2°C  | COPd           | 4,30       | _                 |
| Degradation coefficient  | Cdh             | 0,98          | -         | 1) = 12 0   | 001 d          | 4,00       | _                 |
| Tj = + 7°C   | Pdh             | 4,50          | kW        | Ti = + 7°C  | COPd           | 6,20       | _                 |
| Degradation coefficient  | Cdh             | 0,97          | -         | ,, ,, ,,  |                |            |                   |
| Tj = + 12°C  | Pdh             | 5,60          | kW        | Tj = + 12°C   | COPd           | 8,50       | _                 |
| Degradation coefficient  | Cdh             | 0,97          | -         | <i>'</i>  |                |            |                   |
| Tj = bivalent temperature  | Pdh             | 4,00          | kW        | Tj = bivalent temperature   | COPd           | 2,30       | -                 |
| Tj = operation limit temperature                                     | Pdh             | 4,20          | kW        | Tj = operation limit temperature  | COPd           | 2,10       | -                 |
| T j = - 15 °C (if TOL < - 20 °C)                                     | Pdh             | 4,00          | kW        | T j = - 15 °C (if TOL < - 20 °C)  | COPd           | 2,30       | kW                |
| Bivalent temperature   | Tbiv            | -15           | °C        | Operation limit temperature   | TOL            | -25        | °C                |
| Cycling interval capacity for heating                                | Pcych           | -             | kW        | Cycling interval efficiency   | COPcyc         | -          | -                 |
| g  | ,               |               |           | Heating water operating limit temperature   | WTOL           | 60         | °C                |
|  |                 |               |           |   |                |            |                   |
| Power consumption in modes other t                                   | than active m   | ode           |           | Supplementary heater  |                |            |                   |
| Off mode   | $P_{OFF}$       | 0,018         | kW        | Rated heat output   | Psup           | 0,8        | kW                |
| Thermostat-off mode  | $P_{SB}$        | 0,018         | kW        | <b>.  </b>  |                |            |                   |
| Standby mode   | $P_{TO}$        | 0,018         | kW        | Type of energy input  |                | Electric   |                   |
| Crankcase heater mode  | P <sub>CK</sub> | 0,000         | kW        |   |                |            |                   |
| Other items  |                 |               |           |   |                |            |                   |
| Capacity control   |                 | variable      |           | Rated air flow rate, outdoor  | -              | 2600       | m <sup>3</sup> /h |
| Sound power level, indoor / outdoor                                  | L <sub>WA</sub> | - / 65        | dB        | Rated brine or water flow rate, outdoor   |                |            |                   |
| Annual energy consumption  | Q <sub>HE</sub> | 2862          | kWh       | heat exchanger  | -              | -          | m <sup>3</sup> /h |
|  |                 |               |           |   |                |            |                   |
| For heat pump combination heater                                     |                 |               |           |   |                |            |                   |
| Declared load profile  |                 | XL            |           | Water heating energy efficiency   | $\eta_{wh}$    | 77,4       | %                 |
| Daily electricity consumption  | Qelec           | 10150         | kWh       | Daily fuel consumption  | Qfuel          | -          | kWh               |
| Annual electricity consumption                                       | AEC             | 2165          | kWh       | Annual fuel consumption   | AFC            | -          | GJ                |
| Contact details  | ARG             | OCLIMA        | S.p.A.Via | a Alfeno Varo, 35, 25020, A   | fianello       | (BS), Ital | у                 |
|  |                 |               |           |   |                | . , , ,    |                   |



| Model                                     |                  |                                 |           | AGHP081PH                                 |                 |                  |                   |  |
|---|------------------|---------------------------------|-----------|---|-----------------|------------------|-------------------|--|
|   |                  | ater heat pum                   |           |   |                 |                  |                   |  |
| Type of heat pump                         | □ Water-to       | -water heat pu                  | ump       |   |                 |                  |                   |  |
|   | ☐ Brine-to-      | ne-to-water heat pump<br>s 🗵 No |           |   |                 |                  |                   |  |
| Low-temperature heat pump                 | ☐ Yes            | ⊠ No                            |           |   |                 |                  |                   |  |
| Equipped with a supplementary heater      | □ Yes            | ⊠ No                            |           |   |                 |                  |                   |  |
| Heat pump combination heater              |                  | □ No                            |           |   |                 |                  |                   |  |
| Climate                                   | □ Average        |                                 | □ Colder  | ⊠ Warmer                                  |                 |                  |                   |  |
| Temperature application                   | □ Medium         | ,                               | ⊠ Low (35 | 5°C)                                      |                 |                  |                   |  |
| Applied starndards                        | EN14825 / E      | N16147                          |           |   |                 |                  |                   |  |
| ltem                                      | Symbol           | Value                           | Unit      | Item                                      | Symbol          | Value            | Unit              |  |
| Rated heat output                         | Prated           | 8                               | kW        | Seasonal space heating energy efficiency  | $\eta_{s}$      | 234              | %                 |  |
| Declared capacity for heating for part lo | ad at indoor te  | emperature 20                   | °C and    | Declared coefficient of performance or p  | orimary energy  | y ratio for part | load at           |  |
| outdoor temperature Tj                    |                  |                                 |           | indoor temperature 20 °C and outdoor t    | emperature T    | j                |                   |  |
| Tj = - 7°C                                | Pdh              | -                               | kW        | Tj = - 7°C                                | COPd            | _                |                   |  |
| Degradation coefficient                   | Cdh              | 1                               | -         | 1) / C                                    | COPa            | 1                | -                 |  |
| Tj = + 2°C                                | Pdh              | 7,60                            | kW        | Tj = + 2°C                                | COPd            | 3,40             | _                 |  |
| Degradation coefficient                   | Cdh              | 0,98                            | -         | 1) - + 2 0                                | COFU            | 3,40             | _                 |  |
| Tj = + 7°C                                | Pdh              | 4,80                            | kW        | Ti = + 7°C                                | COPd            | 5,20             | _                 |  |
| Degradation coefficient                   | Cdh              | 0,98                            | -         | ,,  |                 |                  |                   |  |
| Tj = + 12°C                               | Pdh              | 5,50                            | kW        | Tj = + 12°C                               | COPd            | 7,60             | _                 |  |
| Degradation coefficient                   | Cdh              | 0,97                            | -         |   |                 | ·                |                   |  |
| Tj = bivalent temperature                 | Pdh              | 7,60                            | kW        | Tj = bivalent temperature                 | COPd            | 3,40             | -                 |  |
| Tj = operation limit temperature          | Pdh              | 7,60                            | kW        | Tj = operation limit temperature          | COPd            | 3,40             | -                 |  |
| T j = - 15 °C (if TOL < - 20 °C)          | Pdh<br>Tbiv      | 2                               | kW<br>°C  | T j = -15 °C (if TOL < -20 °C)            | COPd<br>TOL     | -<br>-25         | °C                |  |
| Bivalent temperature                      | TDIV             |                                 | C         | Operation limit temperature               | TOL             | -25              |                   |  |
| Cycling interval capacity for heating     | Pcych            | -                               | kW        | Cycling interval efficiency               | COPcyc          | -                | -                 |  |
|   | ,                |                                 |           | Heating water operating limit temperature | WTOL            | 60               | °C                |  |
| Power consumption in modes other t        | than active m    | ode                             |           | Supplementary heater                      |                 |                  |                   |  |
| Off mode                                  | P <sub>OFF</sub> | 0,018                           | kW        | Rated heat output                         | Psup            | 0,4              | kW                |  |
| Thermostat-off mode                       | P <sub>SB</sub>  | 0,018                           | kW        | rated fleat output                        | ТЗар            | 0,4              | KVV               |  |
| Standby mode                              | P <sub>TO</sub>  | 0,018                           | kW        | Type of energy input                      |                 | Electric         |                   |  |
| Crankcase heater mode                     | P <sub>CK</sub>  | 0,000                           | kW        | , , , , , , , , , , , , , , , , , , ,     |                 |                  |                   |  |
|   |                  |                                 |           |   |                 |                  |                   |  |
| Other items                               |                  |                                 |           | 16  |                 |                  | 3                 |  |
| Capacity control                          |                  | variable                        | T         | Rated air flow rate, outdoor              | -               | 2600             | m <sup>3</sup> /h |  |
| Sound power level, indoor / outdoor       | L <sub>WA</sub>  | - / 65                          | dB        | Rated brine or water flow rate, outdoor   | _               | _                | m³/h              |  |
| Annual energy consumption                 | $Q_{HE}$         | 1368                            | kWh       | heat exchanger                            |                 |                  | 111 711           |  |
| For heat pump combination heater          |                  |                                 |           |   |                 |                  |                   |  |
|   |                  |                                 |           | ][  |                 |                  |                   |  |
| Declared load profile                     |                  | XL                              |           | Water heating energy efficiency           | η <sub>wh</sub> | 97,7             | %                 |  |
| Daily electricity consumption             | Qelec            | 7955                            | kWh       | Daily fuel consumption                    | Qfuel           | -                | kWh               |  |
| Annual electricity consumption            | AEC              | 1680                            | kWh       | Annual fuel consumption                   | AFC             | -                | GJ                |  |
|   |                  |                                 |           |   |                 |                  |                   |  |
| Contact details                           | ARG              | OCLIMA                          | S.p.A.Via | a Alfeno Varo, 35, 25020, A               | lfianello       | (BS), Ital       | y                 |  |
|   |                  |                                 |           |   |                 | ( ),             | ,                 |  |
|   |                  |                                 |           |   |                 |                  |                   |  |



| Air-to-water heat pump   | Model                                   |                 |                      |           | AGHP081PH                       |                |            |                   |
|--|---|-----------------|----------------------|-----------|---------------------------------|----------------|------------|-------------------|
| Brine-to-water heat pump   Yes   |   | ⊠ Air-to-wa     | ater heat pum        | р         |                                 |                |            |                   |
| Cov-kemperature heat pump  | Type of heat pump                       | □ Water-to      | -water heat p        | ump       |                                 |                |            |                   |
| Heat pump combination heater   |   | ☐ Brine-to-     | e-to-water heat pump |           |                                 |                |            |                   |
| Heat pump combination heater   E3   Yes   No   No   Climate   E3   Average   Colder   Warmer   | Low-temperature heat pump               | □ Yes           | ⊠ No                 |           |                                 |                |            |                   |
| Climate   S   Average   Colder   Warmer   Warmer   | Equipped with a supplementary heater    | □ Yes           | ⊠ No                 |           |                                 |                |            |                   |
| Temperature application   En 14825 / En 16147   En 14825 / En 16147  | Heat pump combination heater            |                 | □ No                 |           |                                 |                |            |                   |
| Name   | Climate                                 |                 | )                    | ☐ Colder  | □ Warmer                        |                |            |                   |
| Rated heat output  | Temperature application                 | Medium          | (55°C)               | □ Low (35 | °C)                             |                |            |                   |
| Parabox                       | Applied starndards                      | EN14825 / E     | N16147               |           |                                 |                |            |                   |
| Parabox                       | Item                                    | Symbol          | Value                | Unit      | Item                            | Symbol         | Value      | Unit              |
| Indoor temperature Tj  | Rated heat output                       | Prated          | 7                    | kW        |                                 | η <sub>s</sub> | 127        | %                 |
| Degradation coefficient  |   | ad at indoor te | emperature 20        | ) °C and  |                                 |                |            | load at           |
| Degradation coefficient  | Tj = - 7°C                              | Pdh             | 6,00                 | kW        | Ti = 7°C                        | CORd           | 2.07       |                   |
| Degradation coefficient  |   | Cdh             | 0,99                 | -         | 1, 7 6                          | COPa           | 2,07       | -                 |
| Degradation coefficient  | Tj = + 2°C                              | Pdh             | 6,00                 | kW        | Ti = + 2°C                      | COPd           | 3 10       |                   |
| Degradation coefficient  | Degradation coefficient                 | Cdh             | 0,99                 | -         | 1) - + 2 0                      | COFU           | 3,10       | -                 |
| Degradation coefficient  | Tj = + 7°C                              | Pdh             | 6,00                 | kW        | Ti = + 7°C                      | COPd           | 4 34       | _                 |
| Degradation coefficient  | 0                                       | Cdh             |                      | -         | 1, 1, 0                         |                | 1,01       |                   |
| Degradation coefficient Cdh 0,98 - Tj = bivalant temperature Pdh 6,00 kW Tj = bivalant temperature Pdh 6,00 kW Tj = operation limit temperature Pdh 6,00 kW Tj = -15 °C (if TOL < -20 °C) Pdh - kW Tj = -15 °C (if TOL < -20 °C) COPd - kW Pivalent temperature ToL -25 °C COPd - kW Pivalent temperature ToL -26 °C COPd - kW Pivalent temperature Told COPd - kW Pivalent temperat                   |   |                 |                      | kW        | Ti = + 12°C                     | COPd           | 6.82       | _                 |
| Tj = operation limit temperature   |   |                 |                      |           | ·                               |                | , ,        |                   |
| Tj = -15 °C (if TOL < -20 °C) Pdh - kW Bivalent temperature Tbiv -7 °C Operation limit temperature TOL -25 °C Cycling interval capacity for heating Pcych - kW  Cycling interval capacity for heating Pcych - kW  Power consumption in modes other than active mode Off mode Poer O,018 kW Standby mode Pro 0,018 kW Standby mode Pro 0,018 kW Crankcase heater mode Pck 0,000 kW  Cycling interval efficiency COPcyc Heating water operating limit temperature  Supplementary heater Rated heat output Psup 1,0 kW Type of energy input Electric  Rated heat output Psup 1,0 kW Type of energy input Electric  Cycling interval efficiency COPcyc Heating water operating limit temperature  Supplementary heater Rated heat output Psup 1,0 kW Type of energy input Electric  Rated birne or water flow rate, outdoor - 2600 m³/ Rated birne or water flow rate, outdoor heat exchanger  For heat pump combination heater  Declared load profile XL  Water heating energy efficiency Nwh 86,7 % Daily fluel consumption Qfuel - kW   | ·                                       |                 |                      |           |                                 |                |            | -                 |
| Bivalent temperature Tbiv -7 °C  Cycling interval capacity for heating Pcych - kW  Power consumption in modes other than active mode  Off mode P <sub>SB</sub> 0,018 kW Thermostat-off mode P <sub>SB</sub> 0,018 kW Thermostat-off mode P <sub>CK</sub> 0,000 kW  Standby mode P <sub>CK</sub> 0,000 kW  Standby mode P <sub>CK</sub> 0,000 kW  Crankcase heater mode P <sub>CK</sub> 0,000 kW  Chapter tems  Capacity control Variable Sound power level, indoor / outdoor Annual energy consumption Q <sub>HE</sub> 4440 kWh  For heat pump combination heater  Declared load profile XL  Daily electricity consumption Qelec 9106 kWh  Daily fuel consumption Qfuel - kW   |   |                 | 6,00                 |           |                                 |                | 2,07       | -                 |
| Cycling interval capacity for heating Pcych - kW  Cycling interval efficiency COPcyc   | , |                 | - 7                  |           |                                 |                | -          |                   |
| Cycling interval capacity for heating Pcych - kW Heating water operating limit temperature WTOL 60 °C  Power consumption in modes other than active mode  Off mode Poff Node Psb 0,018 kW Thermostat-off mode Psb 0,018 kW Standby mode Pro 0,018 kW Crankcase heater mode Pck 0,000 kW  Other items  Capacity control variable Sound power level, indoor / outdoor LwA - / 65 dB Annual energy consumption QHE 4440 kWh  For heat pump combination heater  Declared load profile XL Daily electricity consumption Qelec 9106 kWh  Daily fuel consumption Qfuel - kW   | Bivalent temperature                    | I DIV           | -/                   | -0        | Operation limit temperature     | TOL            | -25        | - 0               |
| Power consumption in modes other than active mode  Off mode  | Cycling interval capacity for heating   | Pcvch           | -                    | kW        |                                 | COPcyc         | -          | -                 |
| Off mode   |   |                 |                      |           |                                 | WTOL           | 60         | °C                |
| Off mode   |   |                 |                      |           |                                 |                |            |                   |
| Thermostat-off mode  |   |                 |                      |           |                                 |                |            |                   |
| Standby mode   |   |                 |                      |           | Rated heat output               | Psup           | 1,0        | kW                |
| Other items       Capacity control     variable       Sound power level, indoor / outdoor     L <sub>WA</sub> Annual energy consumption     Q <sub>HE</sub> 4440     kWh    Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger  m³/ Water heating energy efficiency       For heat pump combination heater       Declared load profile     XL       Water heating energy efficiency     n <sub>wh</sub> Baily electricity consumption     Qelec       9106     kWh       Daily fuel consumption     Qfuel       -     kW  |   |                 | ,                    |           | <b>//.</b>                      |                |            |                   |
| Other items  Capacity control variable Sound power level, indoor / outdoor Annual energy consumption  Capacity control                     | ,                                       |                 |                      |           | Type of energy input            |                | Electric   |                   |
| Capacity control  Sound power level, indoor / outdoor  Annual energy consumption  Capacity control  Capacity control  Sound power level, indoor / outdoor  Annual energy consumption  Capacity consumption  Capacity control  Capacity control  Capacity control  Capacity control  Capacity control  Capacity control  Capacity consumption  Capacity control  Capacity control  Capacity consumption  Capacity control  Capacity control  Capacity consumption  Capacity consumption  Capacity control  Capacity control  Capacity consumption  Capacity control  Capacity consumption  Capacity consumption  Capacity consumption  Capacity consumption  Capacity consumption  Capacity control  Capacity consumption  Capaci                   | Crankcase neater mode                   | P <sub>CK</sub> | 0,000                | KVV       |                                 |                |            |                   |
| Capacity control  Sound power level, indoor / outdoor  Annual energy consumption  Capacity control  Capacity control  Sound power level, indoor / outdoor  Annual energy consumption  Capacity consumption  Capacity control  Capacity control  Capacity control  Capacity control  Capacity control  Capacity control  Capacity consumption  Capacity control  Capacity control  Capacity consumption  Capacity control  Capacity control  Capacity consumption  Capacity consumption  Capacity control  Capacity control  Capacity consumption  Capacity control  Capacity consumption  Capacity consumption  Capacity consumption  Capacity consumption  Capacity consumption  Capacity control  Capacity consumption  Capaci                   | Other items                             |                 |                      |           |                                 |                |            |                   |
| Sound power level, indoor / outdoor  Annual energy consumption  Q <sub>HE</sub> Ad440  Aunual energy consumption  Q <sub>HE</sub> Ad440  Aunual energy consumption  Aunual ene |   |                 | variable             |           | Rated air flow rate, outdoor    | _              | 2600       | m <sup>3</sup> /h |
| Annual energy consumption  Q <sub>HE</sub> 4440 kWh  Rated brine or water flow rate, outdoor heat exchanger  m³/  For heat pump combination heater  Declared load profile  XL  Daily electricity consumption  Qelec  9106 kWh  Daily fuel consumption  Qfuel - kW  |   |                 |                      |           |                                 |                |            | 111 /11           |
| For heat pump combination heater  Declared load profile  Daily electricity consumption  Qelec 9106 kWh  Daily fuel consumption  Quelc - kW   | Sound power level, indoor / outdoor     | L <sub>WA</sub> | - / 65               | dB        | ,                               | -              | -          | m³/h              |
| Declared load profile  XL  Water heating energy efficiency  \$\extstyle{\emptyset}\emptyset{\emptyset}\empt                  | Annual energy consumption               | $Q_HE$          | 4440                 | kWh       | ineat exchanger                 |                |            |                   |
| Daily electricity consumption Qelec 9106 kWh Daily fuel consumption Qfuel - kW   | For heat pump combination heater        |                 |                      |           |                                 |                |            |                   |
|  | Declared load profile                   |                 | XL                   |           | Water heating energy efficiency | $\eta_{ m wh}$ | 86,7       | %                 |
| Annual electricity consumption AEC 1933 kWh Annual fuel consumption AFC - GJ   | Daily electricity consumption           | Qelec           | 9106                 | kWh       | Daily fuel consumption          | Qfuel          | -          | kWh               |
|  | Annual electricity consumption          | AEC             | 1933                 | kWh       | Annual fuel consumption         | AFC            | -          | GJ                |
| Contact details ARGOCLIMA S.p.A.Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy   | Contact details                         | ARG             | OCLIMA               | S.p.A.Via | a Alfeno Varo, 35, 25020, A     | lfianello      | (BS), Ital | у                 |



| Model   | AGHP081PH        |                        |           |   |                |              |                   |  |
|---|------------------|------------------------|-----------|---|----------------|--------------|-------------------|--|
|   | ⊠ Air-to-wa      | Air-to-water heat pump |           |   |                |              |                   |  |
| Type of heat pump   | □ Water-to       | -water heat p          | ump       |   |                |              |                   |  |
|   | ☐ Brine-to-      | e-to-water heat pump   |           |   |                |              |                   |  |
| Low-temperature heat pump   | ☐ Yes            | ⊠ No                   |           |   |                |              |                   |  |
| Equipped with a supplementary heater                                | □ Yes            | ⊠ No                   |           |   |                |              |                   |  |
| Heat pump combination heater  |                  | □ No                   |           |   |                |              |                   |  |
| Climate   | □ Average        |                        |           | □ Warmer  |                |              |                   |  |
| Temperature application   |                  | (55°C)                 | □ Low (35 | °C)   |                |              |                   |  |
| Applied starndards  | EN14825 / E      | N16147                 |           |   |                |              |                   |  |
| Item  | Symbol           | Value                  | Unit      | Item  | Symbol         | Value        | Unit              |  |
| Rated heat output   | Prated           | 7                      | kW        | Seasonal space heating energy efficiency  | $\eta_{\rm s}$ | 108          | %                 |  |
| Declared capacity for heating for part lo<br>outdoor temperature Tj | ad at indoor to  | emperature 20          | °C and    | Declared coefficient of performance or pindoor temperature 20 °C and outdoor to |                |              | load at           |  |
| Tj = - 7°C  | Pdh              | 6,00                   | kW        | Ti = - 7°C  | COPd           | 2,10         |                   |  |
| Degradation coefficient   | Cdh              | 0,99                   | -         | 1, 7 0  | COFU           | 2,10         |                   |  |
| Tj = + 2°C  | Pdh              | 6,00                   | kW        | Tj = + 2°C  | COPd           | 3,30         | _                 |  |
| Degradation coefficient   | Cdh              | 0,99                   | -         | , , , , ,   | 001 u          | 5,50         |                   |  |
| Tj = + 7°C  | Pdh              | 6,12                   | kW        | Ti = + 7°C  | COPd           | 4,77         | _                 |  |
| Degradation coefficient   | Cdh              | 0,99                   | -         | ,   |                | .,           |                   |  |
| Tj = + 12°C   | Pdh              | 6,12                   | kW        | Tj = + 12°C   | COPd           | 7,30         | -                 |  |
| Degradation coefficient   | Cdh              | 0,98                   | -         | Ti — bis caland to man another  | 0004           | 1.00         |                   |  |
| Tj = bivalent temperature   | Pdh              | 6,00                   | kW        | Tj = bivalent temperature   | COPd           | 1,96         | -                 |  |
| Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C)   | Pdh<br>Pdh       | 6,00                   | kW<br>kW  | Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C)               | COPd<br>COPd   | 1,53<br>1,96 | -<br>kW           |  |
| Bivalent temperature  | Tbiv             | -15                    | °C        | Operation limit temperature   | TOL            | -25          | °C                |  |
| Bivalent temperature  | TDIV             | -15                    | <u> </u>  | Operation limit temperature   | TOL            | -23          |                   |  |
| Cycling interval capacity for heating                               | Pcych            | -                      | kW        | Cycling interval efficiency   | COPcyc         | -            | -                 |  |
|   |                  |                        |           | Heating water operating limit temperature                                       | WTOL           | 60           | °C                |  |
|   |                  | <u>.</u>               |           | 10-   |                |              |                   |  |
| Power consumption in modes other                                    |                  |                        |           | Supplementary heater  |                | 1.0          |                   |  |
| Off mode  | P <sub>OFF</sub> | 0,018                  | kW        | Rated heat output   | Psup           | 1,0          | kW                |  |
| Thermostat-off mode   | P <sub>SB</sub>  | 0,018                  | kW        | Town a of an annual law of  |                | - In atria   |                   |  |
| Standby mode Crankcase heater mode                                  | P <sub>TO</sub>  | 0,018                  | kW<br>kW  | Type of energy input  |                | Electric     |                   |  |
| Crankcase neater mode   | P <sub>CK</sub>  | 0,000                  | KVV       |   |                |              |                   |  |
| Other items   |                  |                        |           |   |                |              |                   |  |
| Capacity control  |                  | variable               |           | Rated air flow rate, outdoor  | -              | 2600         | m <sup>3</sup> /h |  |
| •   |                  |                        |           | rated an new rate, outdoor  |                | 2000         | 111 /11           |  |
| Sound power level, indoor / outdoor                                 | L <sub>WA</sub>  | - / 65                 | dB        | Rated brine or water flow rate, outdoor heat exchanger                          | -              | -            | m <sup>3</sup> /h |  |
| Annual energy consumption   | $Q_{HE}$         | 5295                   | kWh       | illeat exchanger  |                |              |                   |  |
| For heat pump combination heater                                    |                  |                        |           |   |                |              |                   |  |
| Declared load profile   |                  | XL                     |           | Water heating energy efficiency   | $\eta_{wh}$    | 77,4         | %                 |  |
| Daily electricity consumption                                       | Qelec            | 10150                  | kWh       | Daily fuel consumption  | Qfuel          | -            | kWh               |  |
| Annual electricity consumption                                      | AEC              | 2165                   | kWh       | Annual fuel consumption   | AFC            | -            | GJ                |  |
| Contact details   | ARG              | OCLIMA                 | S.p.A.Vi  | a Alfeno Varo, 35, 25020, A   | lfianello      | (BS), Ital   | у                 |  |



| Model   |                  | , ,           |                   | AGHP081PH   |                |             |                   |
|---|------------------|---------------|-------------------|---|----------------|-------------|-------------------|
| Wodel   |                  | ater heat pum | n                 | AGHF001FH   |                |             |                   |
| Type of heat pump   |                  | -water heat p | •                 |   |                |             |                   |
| Type of fleat pump  |                  | water heat pu | •                 |   |                |             |                   |
| Low-temperature heat pump   | ☐ Yes            | No     No     | p                 |   |                |             |                   |
| Equipped with a supplementary heater                                | □ Yes            | ⊠ No          |                   |   |                |             |                   |
|   |                  |               |                   |   |                |             |                   |
| Heat pump combination heater  |                  | □ No          | Colder.           | ₩   |                |             |                   |
| Climate   | 0                | /EE°C\        | ☐ Colder☐ Low (35 | ⊠ Warmer  |                |             |                   |
| Temperature application Applied starndards                          |                  |               | □ Low (35         | -()   |                |             |                   |
| Applied starndards  | EN 14625 / E     | N10147        |                   |   |                |             |                   |
| Item  | Symbol           | Value         | Unit              | Item  | Symbol         | Value       | Unit              |
| Rated heat output   | Prated           | 7             | kW                | Seasonal space heating energy efficiency  | $\eta_{\rm s}$ | 156         | %                 |
| Declared capacity for heating for part lo<br>outdoor temperature Tj | ad at indoor te  | emperature 20 | °C and            | Declared coefficient of performance or period indoor temperature 20 °C and outdoor to |                |             | load at           |
| Tj = - 7°C  | Pdh              | -             | kW                | Tj = - 7°C  | COPd           | _           | _                 |
| Degradation coefficient   | Cdh              | -             | -                 | ,   | - <del>-</del> |             |                   |
| Tj = + 2°C  | Pdh              | 6,80          | kW                | Tj = + 2°C  | COPd           | 2,30        | -                 |
| Degradation coefficient Ti = + 7°C                                  | Cdh              | 0,99          | -                 | ·   |                |             |                   |
| Degradation coefficient   | Pdh<br>Cdh       | 6,00<br>0,99  | kW                | Tj = + 7°C  | COPd           | 3,04        | -                 |
| Tj = + 12°C   | Pdh              | 6,00          | kW                |   |                |             |                   |
| Degradation coefficient   | Cdh              | 0,98          | -                 | Tj = + 12°C   | COPd           | 5,80        | -                 |
| Tj = bivalent temperature   | Pdh              | 6,80          | kW                | Tj = bivalent temperature   | COPd           | 2,30        | -                 |
| Tj = operation limit temperature                                    | Pdh              | 6,80          | kW                | Tj = operation limit temperature  | COPd           | 2,30        | -                 |
| T j = - 15 °C (if TOL < - 20 °C)                                    | Pdh              | 1             | kW                | $T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C\text{)}$                        | COPd           | -           | kW                |
| Bivalent temperature  | Tbiv             | 2             | °C                | Operation limit temperature   | TOL            | -25         | °C                |
| Ovaling interval conscitutor heating                                | Doveh            |               | 1-10/             | Cycling interval efficiency   | COPcyc         | -           | -                 |
| Cycling interval capacity for heating                               | Pcych            | -             | kW                | Heating water operating limit temperature   | WTOL           | 60          | °C                |
|   |                  |               |                   |   |                |             |                   |
| Power consumption in modes other                                    |                  | ode           |                   | Supplementary heater  |                |             |                   |
| Off mode  | P <sub>OFF</sub> | 0,018         | kW                | Rated heat output   | Psup           | 0,2         | kW                |
| Thermostat-off mode   | P <sub>SB</sub>  | 0,018         | kW                | <b>! </b>   |                |             |                   |
| Standby mode  | P <sub>TO</sub>  | 0,018         | kW                | Type of energy input  |                | Electric    |                   |
| Crankcase heater mode   | P <sub>CK</sub>  | 0,000         | kW                |   |                |             |                   |
| Other items   |                  |               |                   |   |                |             |                   |
| Capacity control  |                  | variable      |                   | Rated air flow rate, outdoor  | -              | 2600        | m <sup>3</sup> /h |
| Sound power level, indoor / outdoor                                 | L <sub>WA</sub>  | - / 64        | dB                | ,   |                |             | ,                 |
| •   |                  |               |                   | Rated brine or water flow rate, outdoor heat exchanger                                | -              | -           | m³/h              |
| Annual energy consumption   | Q <sub>HE</sub>  | 2359          | kWh               | Thout oxonaligor  |                |             |                   |
| For heat pump combination heater                                    |                  |               |                   |   |                |             |                   |
| Declared load profile   |                  | XL            |                   | Water heating energy efficiency   | $\eta_{ m wh}$ | 97,7        | %                 |
| Daily electricity consumption                                       | Qelec            | 7955          | kWh               | Daily fuel consumption  | Qfuel          | -           | kWh               |
| Annual electricity consumption                                      | AEC              | 1680          | kWh               | Annual fuel consumption   | AFC            | -           | GJ                |
| Contact details   | ARG              | OCLIMA        | S.p.A.Via         | a Alfeno Varo, 35, 25020, Al  | lfianello      | (BS), Italy | y                 |
|   |                  |               |                   |   |                |             |                   |



# Information requirements (comfort chillers)

As by Table 11 of COMMISSION REGULATION (EU) 2016/2281 of 30 November 2016 implementing Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products, with regard to ecodesign requirements for air heating products, cooling products, high temperature process chillers and fan coil units.

| fan coil units.   |                  |                   |                          |  |                         |                    |                |
|---|------------------|-------------------|--------------------------|--|-------------------------|--------------------|----------------|
| MODEL: AGHPO  | )81PH            |                   |                          |  |                         |                    |                |
| Outdoor side heat e                                     | xchanger of      | airconditioner :  | air                      |  |                         |                    |                |
| Indoor side heat exc                                    | changer of ai    | irconditioner : w | ater                     |  |                         |                    |                |
| Type: compressor d                                      | riven vapour     | compression       |                          |  |                         |                    |                |
| Driver of compresso                                     | or: electric m   | otor              |                          |  |                         |                    |                |
| Item  | Symbol           | Value             | Unit                     | Item   | Symbol                  | Value              | Unit           |
| Rated cooling capacity                                  | Prated,c         | 5                 | kW                       | Seasonal space cooling energy efficiency               | ηѕ,с                    | 199,0              | %              |
| Declared cooling cap<br>temperatures Tj and             |                  | -                 |                          | Declared energy effi<br>temperatures Tj                | ciency ratio for pa     | rt load at given o | utdoor         |
| Tj = 35°C   | Pdc              | 5,00              | kW                       | Tj = 35°C  | EERd                    | 3,00               |                |
| Tj = 30°C   | Pdc              | 3,70              | kW                       | Tj = 30°C  | EERd                    | 3,95               | -              |
| Tj = 25°C   | Pdc              | 2,70              | kW                       | Tj = 25°C  | EERd                    | 6,41               | _              |
| Tj = 20°C   | Pdc              | 3,00              | kW                       | Tj = 20°C  | EERd                    | 8,75               | -              |
| ,   |                  | 3,53              |                          | ',: -  |                         | , ,,,,,            |                |
| Degradation co-<br>efficient for air<br>conditioners(*) | Cdc              | 0,9               | -                        |  |                         |                    |                |
|   | •                | Power co          | nsumption in             | modes other than 'a                                    | ctive mode'             | •                  |                |
| Off mode  | P <sub>OFF</sub> | 0,018             | kW                       | Crankcase heater mo                                    | d P <sub>CK</sub>       | -                  | kW             |
| Thermostat-off mode                                     | P <sub>TO</sub>  | 0,018             | kW                       | «stand-by» mode  | $P_{SB}$                | 0,018              | kW             |
|   |                  |                   |                          |  |                         |                    |                |
|   |                  | 1                 | (                        | Other items  | 1                       |                    |                |
| Capacity control  |                  | Varia             | ble                      | For air-to-air air conditioner: air flow rate, outdoor | $L_{WA}$                | 2600               | m³/h           |
| Sound power level, indoor/outdoor                       | L <sub>WA</sub>  | 65                | dB(A)                    |  |                         |                    |                |
| If engine driven:<br>Emissions of nitrogen<br>oxides    | NOX(**)          | -                 | mg/kWh<br>input GCV      |  |                         |                    |                |
| GWP of the refrigerant                                  | GWP              | 675               | kg CO2 eq<br>(100 years) |  |                         |                    |                |
|   |                  |                   |                          | 1  |                         |                    |                |
| Contact details:  |                  |                   |                          | Argoclima Spa -  | Via Alfeno Var<br>Italy | •                  | lfianello (BS) |

<sup>(\*\*)</sup> If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.

<sup>(\*\*\*)</sup> From 26 September 2018. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.



#### PRODUCT FICHE

As by ANNEX IV - POINT 1 of COMMISSION REGULATION (EU) No 811/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device.

#### MEDIUM TEMPERATURE HEAT PUMP - Low & Medium temperature application

MODEL: AGHP081PH

| SEASONAL SPACE HEATING ENERGY EFFICIENCY CLASS                                |                    |                               | A++ |
|---|--------------------|-------------------------------|-----|
|   | F                  |                               |     |
|   | <u> </u>           | 55°C                          |     |
| Rated heat output (average climate conditions)                                | Prated             | 7                             | kW  |
| DECLARED LOAD PROFILE   |                    |                               | XL  |
|   |                    |                               |     |
| SEASONAL WATER HEATING ENERGY EFFICIENCY CLASS                                |                    |                               | Α   |
|   | Г                  | 55°C                          |     |
| Annual energy consumption (average climate conditions)                        | Q <sub>HE</sub>    | 4440                          | kWh |
|   |                    |                               |     |
| Annual electricity consumption for water heating (average climate conditions) | AEC                | 1933                          | kWh |
|   | Г                  | 55°C                          |     |
| Seasonal space heating energy efficiency (average climate conditions)         | η <sub>s</sub>     | 127                           | %   |
| Seasonal space heating energy entitiently (average climate conditions)        | 'Is                | 121                           | 70  |
| Water heating energy efficiency (average climate conditions)                  | η <sub>wh</sub>    | 86.7                          | %   |
|   | ""                 |                               |     |
|   |                    | 55°C                          |     |
| Rated heat output (colder climate conditions)                                 | Pnominale          | 7                             | kW  |
| Rated heat output (warmer climate conditions)                                 | Pnominale          | 8                             | kW  |
|   |                    |                               |     |
|   |                    | 55°C                          |     |
| Annual electricity consumption for space heating (colder climate conditions)  | Q <sub>HE</sub>    | 5295                          | kWh |
| Annual electricity consumption for space heating (warmer climate conditions)  | Q <sub>HE</sub>    | 2684                          | kWh |
|   |                    |                               |     |
| Annual electricity consumption for water heating (colder climate conditions)  | AEC                | 2165                          | kWh |
| Annual electricity consumption for water heating (warmer climate conditions)  | AEC                | 1680                          | kWh |
|   | _                  |                               |     |
|   | ,                  | 55°C                          |     |
| Seasonal space heating energy efficiency (colder climate conditions)          | $\eta_s$           | 108                           | %   |
| Seasonal space heating energy efficiency (warmer climate conditions)          | $\eta_s$           | 156                           | %   |
|   |                    | Т                             |     |
| Water heating energy efficiency (colder climate conditions)                   | $\eta_{wh}$        | 77.4                          | %   |
| Water heating energy efficiency (warmer climate conditions)                   | $\eta_{\text{wh}}$ | 97.7                          | %   |
|   | Г                  |                               |     |
|   |                    | Outdoor                       |     |
| Sound power level   | L <sub>WA</sub>    | 65                            | dB  |
| Contact information   |                    | a Spa - Via A<br>0 Alfianello |     |

#### Specific precautions for assembly, installation and maintenance of the combined heat pump:

- (1) Before proceeding with the installation, check that the power supply used corresponds to that indicated on the data plate and check the safety of the current;
- (2) Before use, check and confirm that the electrical connections and water pipes are made correctly,
- to avoid water leaks, electric shocks or fires;
- (3) Do not operate the machine with wet hands and do not allow children to play with the unit;
- (4) The On / Off key is used to switch the unit on or off by the end user, to switch off the unit completely disconnect the power cord:
- (5) Do not expose the unit to corrosive environment with water or humidity;
- (6) Do not use the unit without water in the tank. The air delivery and return must not be obstructed with objects; (7) The water in the unit and piping should be drained when not using the unit to prevent freeze breakage
- of the tank, water pipes and water pump;
- (8) Never press the button with sharp objects to avoid damaging the hand control.

  Never use other connections instead of the special communication lines of the unit to protect the control elements.
- Never clean the hand control with benzine or thinner to avoid discoloration of the surface or elements being damaged. Clean the unit with a damp cloth. Gently clean the display screen and connecting parts to prevent them from being damaged; (9) The power cable must be separated from the communication lines.