



*Lamborghini*  
CALORECLIMA

**AZIENDA CERTIFICATA ISO 9001**

POMPE DI CALORE REVERSIBILI PER INSTALLAZIONE ESTERNA  
CON COMPRESSORE DC INVERTER  
REVERSIBLE HEAT PUMP UNITS FOR OUTDOOR INSTALLATION  
WITH DC INVERTER COMPRESSOR



Cod. 3QE47990 - Rev. 03 - 06/2023



**IDOLA M 3.2 22T- 30T**

**IT**

**BOLLETTINO TECNICO**

**EN**

**TECHNICAL DATA MANUAL**

## Dati ERP / ERP data

| Modello / Models  |   | 22T         | 26T         | 30T        | UM              |
|---|---|-------------|-------------|------------|-----------------|
| Classe di efficienza in riscaldamento /<br>Seasonal space heating energy efficiency class | bassa temperatura (acqua prodotta 35°C)<br>low temperature (water outlet at 35°C) | 178<br>A+++ | 177<br>A+++ | 165<br>A++ | ηs (%)<br>class |
|   | media temperatura (acqua prodotta 55°C)<br>medium temperature (water at 55°C)     | 126<br>A++  | 123<br>A+   | 123<br>A+  | ηs (%)<br>class |
| SCOP  | bassa temperatura (acqua prodotta 35°C)<br>low temperature (water outlet at 35°C) | 4,53        | 4,50        | 4,19       | W/W             |
|   | media temperatura (acqua prodotta 55°C)<br>medium temperature (water at 55°C)     | 3,22        | 3,14        | 3,14       | W/W             |
| SEER  | acqua prodotta 7°C<br>water at 7°C  | 4,70        | 4,66        | 4,49       | W/W             |
|   | acqua prodotta 18°C<br>water at 18°C  | 5,67        | 5,88        | 5,71       | W/W             |

**NOTA:** Classe di efficienza calcolata secondo regolamento europeo 811/2013. I valori si riferiscono ad unità prive di eventuali opzioni o accessori.

**NOTA:** Declared according to European regulation 811/2013. The values are referred to units without options and accessories.

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**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 22T - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters   |  |       |      |  |            |       |      |
|--|--|-------|------|--|------------|-------|------|
| Model(s):  | IDOLA M 3.2 22T  |       |      |  |            |       |      |
| Air-to-water heat pump:  | YES  |       |      |  |            |       |      |
| Water-to-water heat pump:  | NO   |       |      |  |            |       |      |
| Brine-to-water heat pump:  | NO   |       |      |  |            |       |      |
| Low-temperature heat pump:   | NO   |       |      |  |            |       |      |
| Equipped with a supplementary heater:  | NO   |       |      |  |            |       |      |
| Heat pump combination heater:  | NO   |       |      |  |            |       |      |
| Declared climate condition:  | AVERAGE  |       |      |  |            |       |      |
| Parameters are declared for medium-temperature application.  |  |       |      |  |            |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol     | Value | Unit |
| Rated heat output (*)  | Prated   | 22,4  | kW   | Seasonal space heating energy efficiency   |            | 126   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7  | Pdh  | 19,8  | kW   | Tj = -7  | COPd       | 1,74  | -    |
| Tj = 2   | Pdh  | 11,9  | kW   | Tj = 2   | COPd       | 3,3   | -    |
| Tj = 7   | Pdh  | 8     | kW   | Tj = 7   | COPd       | 4,62  | -    |
| Tj = 12  | Pdh  | 3,6   | kW   | Tj = 12  | COPd       | 5,2   | -    |
| Tj = bivalent temperature  | Pdh  | 19,8  | kW   | Tj = bivalent temperature  | COPd       | 1,74  | -    |
| Tj = operating limit   | Pdh  | 13,8  | kW   | Tj = operating limit   | COPd       | 1,08  | -    |
| For air-to-water heat pumps: Tj = -15  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd       | -     | -    |
| Bivalent temperature   | Tbiv   | -7    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL        | -10   | °C   |
| Cycling interval capacity for heating  | Pcych  | -     | kW   | Cycling interval efficiency  | COPcyc     | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL       | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |            |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup       | 2,6   | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |            |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical |       |      |
| Crankcase heater mode  | Pck  | 0     | kW   |  |            |       |      |
| Other items  |  |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   |            |       |      |
| Capacity control   | variable   |       |      |  | -          | 10650 | m³/h |
| Sound power level, indoors/outdoors  | LWA  | -73   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |            |       |      |
| Annual energy consumption  | QHE  | 14390 | kWh  |  | -          | -     | m³/h |
| For heat pump combination heater:  |  |       |      |  |            |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | wh         | -     | %    |
| Daily electricity consumption  | Qclec  | -     | kWh  | Daily fuel consumption   | Qfuel      | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC        | -     | GJ   |
| Contact details  | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |       |      |  |            |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |            |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |            |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)**

|                                       |                 |
|---------------------------------------|-----------------|
| Technical parameters                  |                 |
| Model(s):                             | IDOLA M 3.2 22T |
| Air-to-water heat pump:               | YES             |
| Water-to-water heat pump:             | NO              |
| Brine-to-water heat pump:             | NO              |
| Low-temperature heat pump:            | NO              |
| Equipped with a supplementary heater: | NO              |
| Heat pump combination heater:         | NO              |
| Declared climate condition:           | COLDER          |

Parameters are declared for medium-temperature (55°C) application.

| Item   | Symbol | Value | Unit | Item   | Symbol     | Value | Unit |
|--|--------|-------|------|--|------------|-------|------|
| Rated heat output (*)  | Prated | 22,4  | kW   | Seasonal space heating energy efficiency   | $\eta_s$   | 102   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C  | Pdh    | 13,5  | kW   | Tj = -7°C  | COPd       | 2,07  | -    |
| Tj = 2°C   | Pdh    | 8,6   | kW   | Tj = 2°C   | COPd       | 3,70  | -    |
| Tj = 7°C   | Pdh    | 5,2   | kW   | Tj = 7°C   | COPd       | 4,49  | -    |
| Tj = 12°C  | Pdh    | 3,7   | kW   | Tj = 12°C  | COPd       | 5,76  | -    |
| Tj = bivalent temperature  | Pdh    | 13,5  | kW   | Tj = bivalent temperature  | COPd       | 2,07  | -    |
| Tj = operating limit   | Pdh    | 13,8  | kW   | Tj = operating limit   | COPd       | 1,24  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh    | 13,8  | kW   | For air-to-water heat pumps: Tj = -15  | COPd       | 1,24  | -    |
| Bivalent temperature   | Tbiv   | -7    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL        | -15   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc     | -     | -    |
| Degradation co-efficient (**)  | Cdh    | 0,9   | --   | Heating water operating limit temperature  | WTOL       | 50    | °C   |
| Power consumption in modes other than active mode  |        |       |      | Supplementary heater   |            |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup       | 8,9   | kW   |
| Standby mode   | Psb    | 0,018 | kW   |  |            |       |      |
| Thermostat-off mode  | Pto    | 0,096 | kW   | Type of energy input   | Electrical |       |      |
| Crankcase heater mode  | Pck    | 0,000 | kW   |  |            |       |      |

|                                     |                 |        |     |  |   |       |      |
|-------------------------------------|-----------------|--------|-----|--|---|-------|------|
| Other items                         |                 |        |     |  |   |       |      |
| Capacity control                    | variable        |        |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 10650 | m³/h |
| Sound power level, indoors/outdoors | <sup>L</sup> WA | - / 73 | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -     | m³/h |
| Annual energy consumption           | <sup>Q</sup> HE | 21067  | kWh |  |   |       |      |

For heat pump combination heater:

|                                |                   |   |     |                                 |                   |   |     |
|--------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| Declared load profile          | -                 |   |     | Water heating energy efficiency | wh                | - | %   |
| Daily electricity consumption  | <sup>Q</sup> clec | - | kWh | Daily fuel consumption          | <sup>Q</sup> fuel | - | kWh |
| Annual electricity consumption | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

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

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)**

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  | IDOLA M 3.2 22T  |       |      |  |                   |       |      |
| Air-to-water heat pump:  | YES  |       |      |  |                   |       |      |
| Water-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Brine-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Low-temperature heat pump:   | NO   |       |      |  |                   |       |      |
| Equipped with a supplementary heater:  | NO   |       |      |  |                   |       |      |
| Heat pump combination heater:  | NO   |       |      |  |                   |       |      |
| Declared climate condition:  | WARMER   |       |      |  |                   |       |      |
| Parameters are declared for medium-temperature (55°C) application.   |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 22,0  | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 161   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | -     | kW   | Tj = -7°C  | COPd              | -     | -    |
| Tj = 2°C   | Pdh  | 22,1  | kW   | Tj = 2°C   | COPd              | 2,12  | -    |
| Tj = 7°C   | Pdh  | 14,1  | kW   | Tj = 7°C   | COPd              | 3,50  | -    |
| Tj = 12°C  | Pdh  | 6,4   | kW   | Tj = 12°C  | COPd              | 5,34  | -    |
| Tj = bivalent temperature  | Pdh  | 14,1  | kW   | Tj = bivalent temperature  | COPd              | 3,50  | -    |
| Tj = operating limit   | Pdh  | 22,1  | kW   | Tj = operating limit   | COPd              | 2,12  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | 7     | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | 2     | °C   |
| Cycling interval capacity for heating  | Pcych  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 7,9   | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
| Other items  |  |       |      |  |                   |       |      |
| Capacity control   | variable   |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 10650 | m³/h |
| Sound power level, indoors/outdoors  | L <sub>WA</sub>  | -73   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | Q <sub>HE</sub>  | 7180  | kWh  |  |                   |       |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | $\eta_{wh}$       | -     | %    |
| Daily electricity consumption  | Q <sub>elec</sub>  | -     | kWh  | Daily fuel consumption   | Q <sub>fuel</sub> | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
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| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima medio - Bassa temperatura (35°C) / Heating mode - Average climate - Low temperature (35°C)**

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  |  |       |      | IDOLA M 3.2 22T  |                   |       |      |
| Air-to-water heat pump:  |  |       |      | YES  |                   |       |      |
| Water-to-water heat pump:  |  |       |      | NO   |                   |       |      |
| Brine-to-water heat pump:  |  |       |      | NO   |                   |       |      |
| Low-temperature heat pump:   |  |       |      | NO   |                   |       |      |
| Equipped with a supplementary heater:  |  |       |      | NO   |                   |       |      |
| Heat pump combination heater:  |  |       |      | NO   |                   |       |      |
| Declared climate condition:  |  |       |      | AVERAGE  |                   |       |      |
| Parameters are declared for low-temperature (35°C) application.  |  |       |      |  |                   |       |      |
|  |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 22    | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 178   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | 19,73 | kW   | Tj = -7°C  | COPd              | 2,74  | -    |
| Tj = 2°C   | Pdh  | 12,04 | kW   | Tj = 2°C   | COPd              | 4,4   | -    |
| Tj = 7°C   | Pdh  | 8,02  | kW   | Tj = 7°C   | COPd              | 6,24  | -    |
| Tj = 12°C  | Pdh  | 3,81  | kW   | Tj = 12°C  | COPd              | 7     | -    |
| Tj = bivalent temperature  | Pdh  | 19,73 | kW   | Tj = bivalent temperature  | COPd              | 2,74  | -    |
| Tj = operating limit   | Pdh  | 20,34 | kW   | Tj = operating limit   | COPd              | 2,35  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | -7    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | -10   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 2,27  | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
|  |  |       |      |  |                   |       |      |
| Other items  |  |       |      |  |                   |       |      |
| Capacity control   | variable   |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 10650 | m³/h |
| Sound power level, indoors/outdoors  | <sup>L</sup> WA  | /73   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | <sup>Q</sup> HE  | 10180 | kWh  |  |                   |       |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | wh                | -     | %    |
| Daily electricity consumption  | <sup>Q</sup> clec  | -     | kWh  | Daily fuel consumption   | <sup>Q</sup> fuel | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
|  |  |       |      |  |                   |       |      |
| Contact details  | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |  |                   |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo riscaldamento - Clima più freddo - Bassa temperatura (35°C) / Heating mode - Colder climate - Low temperature (35°C)**

|   |                 |
|---|-----------------|
| Technical parameters  |                 |
| Model(s):   | IDOLA M 3.2 22T |
| Air-to-water heat pump:   | YES             |
| Water-to-water heat pump:                                       | NO              |
| Brine-to-water heat pump:                                       | NO              |
| Low-temperature heat pump:                                      | NO              |
| Equipped with a supplementary heater:                           | NO              |
| Heat pump combination heater:                                   | NO              |
| Declared climate condition:                                     | COLDER          |
| Parameters are declared for low-temperature (35°C) application. |                 |

| Item   | Symbol | Value | Unit | Item   | Symbol     | Value | Unit |
|--|--------|-------|------|--|------------|-------|------|
| Rated heat output (*)  | Prated | 21    | kW   | Seasonal space heating energy efficiency   | $\eta_s$   | 146   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C  | Pdh    | 13,3  | kW   | Tj = -7°C  | COPd       | 3,12  | -    |
| Tj = 2°C   | Pdh    | 8,25  | kW   | Tj = 2°C   | COPd       | 4,42  | -    |
| Tj = 7°C   | Pdh    | 5,45  | kW   | Tj = 7°C   | COPd       | 5,87  | -    |
| Tj = 12°C  | Pdh    | 3,98  | kW   | Tj = 12°C  | COPd       | 7,19  | -    |
| Tj = bivalent temperature  | Pdh    | 17,46 | kW   | Tj = bivalent temperature  | COPd       | 2,36  | -    |
| Tj = operating limit   | Pdh    | 13,27 | kW   | Tj = operating limit   | COPd       | 1,69  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh    | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd       | -     | -    |
| Bivalent temperature   | Tbiv   | -15   | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL        | -22   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc     | -     | -    |
| Degradation co-efficient (**)  | Cdh    | 0,9   | --   | Heating water operating limit temperature  | WTOL       | 60    | °C   |
| Power consumption in modes other than active mode  |        |       |      | Supplementary heater   |            |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup       | 3,54  | kW   |
| Standby mode   | Psb    | 0,018 | kW   |  |            |       |      |
| Thermostat-off mode  | Pto    | 0,096 | kW   | Type of energy input   | Electrical |       |      |
| Crankcase heater mode  | Pck    | 0,000 | kW   |  |            |       |      |

|                                     |                 |       |     |  |   |       |      |
|-------------------------------------|-----------------|-------|-----|--|---|-------|------|
| Other items                         |                 |       |     |  |   |       |      |
| Capacity control                    | variable        |       |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 10650 | m³/h |
| Sound power level, indoors/outdoors | <sup>L</sup> WA | -     | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -     | m³/h |
| Annual energy consumption           | <sup>Q</sup> HE | 14179 | kWh |  |   |       |      |

|                                   |                   |   |     |                                 |                   |   |     |
|-----------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| For heat pump combination heater: |                   |   |     |                                 |                   |   |     |
| Declared load profile             | -                 |   |     | Water heating energy efficiency | wh                | - | %   |
| Daily electricity consumption     | <sup>Q</sup> clec | - | kWh | Daily fuel consumption          | <sup>Q</sup> fuel | - | kWh |
| Annual electricity consumption    | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 22T - Modo riscaldamento - Clima più caldo - Bassa temperatura (35°C) / Heating mode - Warmer climate - Low temperature (35°C)

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  | IDOLA M 3.2 22T  |       |      |  |                   |       |      |
| Air-to-water heat pump:  | YES  |       |      |  |                   |       |      |
| Water-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Brine-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Low-temperature heat pump:   | NO   |       |      |  |                   |       |      |
| Equipped with a supplementary heater:  | NO   |       |      |  |                   |       |      |
| Heat pump combination heater:  | NO   |       |      |  |                   |       |      |
| Declared climate condition:  | WARMER   |       |      |  |                   |       |      |
| Parameters are declared for low-temperature (35°C) application.  |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 22    | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 234   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | -     | kW   | Tj = -7°C  | COPd              | -     | -    |
| Tj = 2°C   | Pdh  | 21,81 | kW   | Tj = 2°C   | COPd              | 3,31  | -    |
| Tj = 7°C   | Pdh  | 14,08 | kW   | Tj = 7°C   | COPd              | 5,2   | -    |
| Tj = 12°C  | Pdh  | 6,44  | kW   | Tj = 12°C  | COPd              | 7,5   | -    |
| Tj = bivalent temperature  | Pdh  | 14,08 | kW   | Tj = bivalent temperature  | COPd              | 5,2   | -    |
| Tj = operating limit   | Pdh  | 21,81 | kW   | Tj = operating limit   | COPd              | 3,31  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | 7     | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | 2     | °C   |
| Cycling interval capacity for heating  | Pcych  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 7,92  | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
| Other items  |  |       |      |  |                   |       |      |
| Capacity control   | variable   |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 10650 | m³/h |
| Sound power level, indoors/outdoors  | L <sub>WA</sub>  | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | Q <sub>HE</sub>  | 4945  | kWh  |  |                   |       |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | $\eta_{wh}$       | -     | %    |
| Daily electricity consumption  | Q <sub>elec</sub>  | -     | kWh  | Daily fuel consumption   | Q <sub>fuel</sub> | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
| Contact details  | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |       |      |  |                   |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)**

|  |                    |  |                                |  |              |       |                       |
|--|--------------------|--|--------------------------------|--|--------------|-------|-----------------------|
| Information requirements for comfort chillers  |                    |  |                                |  |              |       |                       |
| Model(s):  |                    |  |                                | IDOLA M 3.2 22T  |              |       |                       |
| Outdoor side heat exchanger of chiller:  |                    |  |                                | Air to water   |              |       |                       |
| Indoor side heat exchanger chiller:  |                    |  |                                | Water  |              |       |                       |
| Type:  |                    |  |                                | Compressor driven vapour compression   |              |       |                       |
| Driver of compressor:  |                    |  |                                | Electric motor   |              |       |                       |
|  |                    |  |                                |  |              |       |                       |
| Item   | Symbol             | Value  | Unit                           | Item   | Symbol       | Value | Unit                  |
| Rated cooling capacity   | $P_{rated,c}$      | 20,6   | kW                             | Seasonal space cooling energy efficiency   | $\eta_{s,c}$ | 185   | %                     |
| Declared cooling capacity for part load at given outdoor temperature $T_j$   |                    |  |                                | Declared energy efficiency ratio for part load at given outdoor temperature $T_j$                |              |       |                       |
| $T_j=+35^\circ\text{C}$  | $P_{dc}$           | 20,6   | kW                             | $T_j=+35^\circ\text{C}$  | EERd         | 2,89  | -                     |
| $T_j=+30^\circ\text{C}$  | $P_{dc}$           | 14,9   | kW                             | $T_j=+30^\circ\text{C}$  | EERd         | 3,95  | -                     |
| $T_j=+25^\circ\text{C}$  | $P_{dc}$           | 9,3  | kW                             | $T_j=+25^\circ\text{C}$  | EERd         | 5,37  | -                     |
| $T_j=+20^\circ\text{C}$  | $P_{dc}$           | 4,3  | kW                             | $T_j=+20^\circ\text{C}$  | EERd         | 6,19  | -                     |
|  |                    |  |                                |  |              |       |                       |
| Degradation co-efficient for chillers (*)  | $C_{dc}$           | 0,9  | -                              |  |              |       |                       |
| Power consumption in modes other than "active mode"  |                    |  |                                |  |              |       |                       |
| Off mode   | $P_{OFF}$          | 0,017  | kW                             | Crankcase heater mode  | $P_{CK}$     | 0,000 | kW                    |
| Thermosat-off mode   | $P_{TO}$           | 0,084  | kW                             | Standby mode   | $P_{SB}$     | 0,017 | kW                    |
| Other items  |                    |  |                                |  |              |       |                       |
| Capacity control   | variable           |  |                                | For air-to-water comfort chillers:<br>air flow rate, outdoor measured                            | -            | 8950  | $\text{m}^3/\text{h}$ |
| Sound power level, indoors / outdoors  | $L_{WA}$           | -73  | dB                             |  |              |       |                       |
| Emissions of nitrogen oxides (if applicable)   | $\text{NO}_x$ (**) | -  | mg/kWh input GCV               | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -            | -     | $\text{m}^3/\text{h}$ |
| GWP of the refrigerant   | -                  | 675  | kg $\text{CO}_2$ eq (100years) |  |              |       |                       |
| Standard rating conditions used  |                    | Low temperature application  |                                |  |              |       |                       |
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| (*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018. |                    |  |                                |  |              |       |                       |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 22T - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)**

|  |  |                                      |                                  |  |              |       |                   |
|--|--|--------------------------------------|----------------------------------|--|--------------|-------|-------------------|
| Information requirements for comfort chillers  |  |                                      |                                  |  |              |       |                   |
| Model(s):  |  | IDOLA M 3.2 22T                      |                                  |  |              |       |                   |
| Outdoor side heat exchanger of chiller:  |  | Air to water                         |                                  |  |              |       |                   |
| Indoor side heat exchanger chiller:  |  | Water                                |                                  |  |              |       |                   |
| Type:  |  | Compressor driven vapour compression |                                  |  |              |       |                   |
| Driver of compressor:  |  | Electric motor                       |                                  |  |              |       |                   |
|  |  |                                      |                                  |  |              |       |                   |
| Item   | Symbol   | Value                                | Unit                             | Item   | Symbol       | Value | Unit              |
| Rated cooling capacity   | $P_{rated,c}$  | 22,8                                 | kW                               | Seasonal space cooling energy efficiency   | $\eta_{s,c}$ | 224   | %                 |
| Declared cooling capacity for part load at given outdoor temperature $T_j$   |  |                                      |                                  | Declared energy efficiency ratio for part load at given outdoor temperature $T_j$                |              |       |                   |
| $T_j=+35^\circ\text{C}$  | $P_{dc}$   | 22,8                                 | kW                               | $T_j=+35^\circ\text{C}$  | EERd         | 4,25  | -                 |
| $T_j=+30^\circ\text{C}$  | $P_{dc}$   | 16,3                                 | kW                               | $T_j=+30^\circ\text{C}$  | EERd         | 5,16  | -                 |
| $T_j=+25^\circ\text{C}$  | $P_{dc}$   | 10,2                                 | kW                               | $T_j=+25^\circ\text{C}$  | EERd         | 6,45  | -                 |
| $T_j=+20^\circ\text{C}$  | $P_{dc}$   | 4,6                                  | kW                               | $T_j=+20^\circ\text{C}$  | EERd         | 6,38  | -                 |
|  |  |                                      |                                  |  |              |       |                   |
| Degradation co-efficient for chillers (*)  | $C_{dc}$   | 0,9                                  | -                                |  |              |       |                   |
| Power consumption in modes other than "active mode"  |  |                                      |                                  |  |              |       |                   |
| Off mode   | $P_{OFF}$  | 0,017                                | kW                               | Crankcase heater mode  | $P_{CK}$     | 0,000 | kW                |
| Thermosat-off mode   | $P_{TO}$   | 0,084                                | kW                               | Standby mode   | $P_{SB}$     | 0,017 | kW                |
| Other items  |  |                                      |                                  |  |              |       |                   |
| Capacity control   | variable   |                                      |                                  | For air-to-water comfort chillers:<br>air flow rate, outdoor measured                            | -            | 8950  | m <sup>3</sup> /h |
| Sound power level, indoors / outdoors  | $L_{WA}$   | -73                                  | dB                               |  |              |       |                   |
| Emissions of nitrogen oxides (if applicable)   | NOx (**)   | -                                    | mg/kWh input GCV                 | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -            | -     | m <sup>3</sup> /h |
| GWP of the refrigerant   | -  | 675                                  | kg CO <sub>2</sub> eq (100years) |  |              |       |                   |
| Standard rating conditions used  | Medium temperature application   |                                      |                                  |  |              |       |                   |
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| (*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018. |  |                                      |                                  |  |              |       |                   |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)**

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  |  |       |      | IDOLA M 3.2 26T  |                   |       |      |
| Air-to-water heat pump:  |  |       |      | YES  |                   |       |      |
| Water-to-water heat pump:  |  |       |      | NO   |                   |       |      |
| Brine-to-water heat pump:  |  |       |      | NO   |                   |       |      |
| Low-temperature heat pump:   |  |       |      | NO   |                   |       |      |
| Equipped with a supplementary heater:  |  |       |      | NO   |                   |       |      |
| Heat pump combination heater:  |  |       |      | NO   |                   |       |      |
| Declared climate condition:  |  |       |      | AVERAGE  |                   |       |      |
| Parameters are declared for medium-temperature (55°C) application.   |  |       |      |  |                   |       |      |
|  |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 26,1  | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 123   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | 20,6  | kW   | Tj = -7°C  | COPd              | 1,69  | -    |
| Tj = 2°C   | Pdh  | 14,3  | kW   | Tj = 2°C   | COPd              | 3,11  | -    |
| Tj = 7°C   | Pdh  | 9,3   | kW   | Tj = 7°C   | COPd              | 4,72  | -    |
| Tj = 12°C  | Pdh  | 3,9   | kW   | Tj = 12°C  | COPd              | 5,41  | -    |
| Tj = bivalent temperature  | Pdh  | 22,1  | kW   | Tj = bivalent temperature  | COPd              | 1,88  | -    |
| Tj = operating limit   | Pdh  | 13,8  | kW   | Tj = operating limit   | COPd              | 1,08  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | -6    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | -10   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 4     | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
|  |  |       |      |  |                   |       |      |
| Other items  |  |       |      |  |                   |       |      |
| Capacity control   | variable   |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 11200 | m³/h |
| Sound power level, indoors/outdoors  | <sup>L</sup> WA  | -75   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | <sup>Q</sup> HE  | 17204 | kWh  |  |                   |       |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | wh                | -     | %    |
| Daily electricity consumption  | <sup>Q</sup> clec  | -     | kWh  | Daily fuel consumption   | <sup>Q</sup> fuel | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
|  |  |       |      |  |                   |       |      |
| Contact details  | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |       |      |  |                   |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)**

|                                       |                 |
|---------------------------------------|-----------------|
| Technical parameters                  |                 |
| Model(s):                             | IDOLA M 3.2 26T |
| Air-to-water heat pump:               | YES             |
| Water-to-water heat pump:             | NO              |
| Brine-to-water heat pump:             | NO              |
| Low-temperature heat pump:            | NO              |
| Equipped with a supplementary heater: | NO              |
| Heat pump combination heater:         | NO              |
| Declared climate condition:           | COLDER          |

Parameters are declared for medium-temperature (55°C) application.

| Item   | Symbol | Value | Unit | Item   | Symbol     | Value | Unit |
|--|--------|-------|------|--|------------|-------|------|
| Rated heat output (*)  | Prated | 26,3  | kW   | Seasonal space heating energy efficiency   | $\eta_s$   | 101   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C  | Pdh    | 15,9  | kW   | Tj = -7°C  | COPd       | 2,10  | -    |
| Tj = 2°C   | Pdh    | 10,2  | kW   | Tj = 2°C   | COPd       | 3,58  | -    |
| Tj = 7°C   | Pdh    | 6,5   | kW   | Tj = 7°C   | COPd       | 4,99  | -    |
| Tj = 12°C  | Pdh    | 3,6   | kW   | Tj = 12°C  | COPd       | 5,68  | -    |
| Tj = bivalent temperature  | Pdh    | 15,9  | kW   | Tj = bivalent temperature  | COPd       | 2,10  | -    |
| Tj = operating limit   | Pdh    | 13,4  | kW   | Tj = operating limit   | COPd       | 1,20  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh    | 13,4  | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd       | 1,20  | -    |
| Bivalent temperature   | Tbiv   | -7    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL        | -15   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc     | -     | -    |
| Degradation co-efficient (**)  | Cdh    | 0,9   | --   | Heating water operating limit temperature  | WTOL       | 50    | °C   |
| Power consumption in modes other than active mode  |        |       |      | Supplementary heater   |            |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup       | 10,4  | kW   |
| Standby mode   | Psb    | 0,018 | kW   |  |            |       |      |
| Thermostat-off mode  | Pto    | 0,096 | kW   | Type of energy input   | Electrical |       |      |
| Crankcase heater mode  | Pck    | 0,000 | kW   |  |            |       |      |

|                                     |                 |       |     |  |   |       |      |
|-------------------------------------|-----------------|-------|-----|--|---|-------|------|
| Other items                         |                 |       |     |  |   |       |      |
| Capacity control                    | variable        |       |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 11200 | m³/h |
| Sound power level, indoors/outdoors | <sup>L</sup> WA | -75   | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -     | m³/h |
| Annual energy consumption           | <sup>Q</sup> HE | 24967 | kWh |  |   |       |      |

For heat pump combination heater:

|                                |                   |   |     |                                 |                   |   |     |
|--------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| Declared load profile          | -                 |   |     | Water heating energy efficiency | wh                | - | %   |
| Daily electricity consumption  | <sup>Q</sup> clec | - | kWh | Daily fuel consumption          | <sup>Q</sup> fuel | - | kWh |
| Annual electricity consumption | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

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

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)**

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  | IDOLA M 3.2 26T  |       |      |  |                   |       |      |
| Air-to-water heat pump:  | YES  |       |      |  |                   |       |      |
| Water-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Brine-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Low-temperature heat pump:   | NO   |       |      |  |                   |       |      |
| Equipped with a supplementary heater:  | NO   |       |      |  |                   |       |      |
| Heat pump combination heater:  | NO   |       |      |  |                   |       |      |
| Declared climate condition:  | WARMER   |       |      |  |                   |       |      |
| Parameters are declared for medium-temperature (55°C) application.   |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 26,2  | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 168   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | -     | kW   | Tj = -7°C  | COPd              | -     | -    |
| Tj = 2°C   | Pdh  | 26,5  | kW   | Tj = 2°C   | COPd              | 1,99  | -    |
| Tj = 7°C   | Pdh  | 16,9  | kW   | Tj = 7°C   | COPd              | 3,47  | -    |
| Tj = 12°C  | Pdh  | 7,6   | kW   | Tj = 12°C  | COPd              | 5,94  | -    |
| Tj = bivalent temperature  | Pdh  | 16,9  | kW   | Tj = bivalent temperature  | COPd              | 3,47  | -    |
| Tj = operating limit   | Pdh  | 26,5  | kW   | Tj = operating limit   | COPd              | 1,99  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | 7     | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | 2     | °C   |
| Cycling interval capacity for heating  | Pcych  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 9,3   | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
| Other items  |  |       |      |  |                   |       |      |
| Capacity control   | variable   |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 11200 | m³/h |
| Sound power level, indoors/outdoors  | <sup>L</sup> WA  | -75   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | <sup>Q</sup> HE  | 8218  | kWh  |  |                   |       |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | wh                | -     | %    |
| Daily electricity consumption  | <sup>Q</sup> clec  | -     | kWh  | Daily fuel consumption   | <sup>Q</sup> fuel | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
| Contact details  | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |       |      |  |                   |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima medio - Bassa temperatura (35°C) / Heating mode - Average climate - Low temperature (35°C)**

|  |   |       |      |  |                   |       |      |
|--|---|-------|------|--|-------------------|-------|------|
| Technical parameters   |   |       |      |  |                   |       |      |
| Model(s):  |   |       |      | IDOLA M 3.2 26T  |                   |       |      |
| Air-to-water heat pump:  |   |       |      | YES  |                   |       |      |
| Water-to-water heat pump:  |   |       |      | NO   |                   |       |      |
| Brine-to-water heat pump:  |   |       |      | NO   |                   |       |      |
| Low-temperature heat pump:   |   |       |      | NO   |                   |       |      |
| Equipped with a supplementary heater:  |   |       |      | NO   |                   |       |      |
| Heat pump combination heater:  |   |       |      | NO   |                   |       |      |
| Declared climate condition:  |   |       |      | AVERAGE  |                   |       |      |
| Parameters are declared for low-temperature (35°C) application.  |   |       |      |  |                   |       |      |
|  |   |       |      |  |                   |       |      |
| Item   | Symbol  | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated  | 25    | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 177   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |   |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh   | 22,15 | kW   | Tj = -7°C  | COPd              | 2,56  | -    |
| Tj = 2°C   | Pdh   | 13,78 | kW   | Tj = 2°C   | COPd              | 4,41  | -    |
| Tj = 7°C   | Pdh   | 9,38  | kW   | Tj = 7°C   | COPd              | 6,43  | -    |
| Tj = 12°C  | Pdh   | 4,11  | kW   | Tj = 12°C  | COPd              | 7,08  | -    |
| Tj = bivalent temperature  | Pdh   | 22,15 | kW   | Tj = bivalent temperature  | COPd              | 2,56  | -    |
| Tj = operating limit   | Pdh   | 20,36 | kW   | Tj = operating limit   | COPd              | 2,34  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh   | -     | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv  | -7    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | -10   | °C   |
| Cycling interval capacity for heating  | Pcyc  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh   | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |   |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff  | 0,018 | kW   | Rated heat output (**)   | Psup              | 2,85  | kW   |
| Standby mode   | Psb   | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto   | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck   | 0,000 | kW   |  |                   |       |      |
|  |   |       |      |  |                   |       |      |
| Other items  |   |       |      |  |                   |       |      |
| Capacity control   | variable  |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 10650 | m³/h |
| Sound power level, indoors/outdoors  | <sup>L</sup> WA   | /75   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | <sup>Q</sup> HE   | 11489 | kWh  |  |                   |       |      |
|  |   |       |      |  |                   |       |      |
| For heat pump combination heater:  |   |       |      |  |                   |       |      |
| Declared load profile  | -   |       |      | Water heating energy efficiency  | wh                | -     | %    |
| Daily electricity consumption  | <sup>Q</sup> clec   | -     | kWh  | Daily fuel consumption   | <sup>Q</sup> fuel | -     | kWh  |
| Annual electricity consumption   | AEC   | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
|  |   |       |      |  |                   |       |      |
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| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |   |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |   |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo riscaldamento - Clima più freddo - Bassa temperatura (35°C) / Heating mode - Colder climate - Low temperature (35°C)**

|   |                 |  |  |
|---|-----------------|--|--|
| Technical parameters  |                 |  |  |
| Model(s):   | IDOLA M 3.2 26T |  |  |
| Air-to-water heat pump:   | YES             |  |  |
| Water-to-water heat pump:                                       | NO              |  |  |
| Brine-to-water heat pump:                                       | NO              |  |  |
| Low-temperature heat pump:                                      | NO              |  |  |
| Equipped with a supplementary heater:                           | NO              |  |  |
| Heat pump combination heater:                                   | NO              |  |  |
| Declared climate condition:                                     | COLDER          |  |  |
| Parameters are declared for low-temperature (35°C) application. |                 |  |  |

| Item   | Symbol | Value | Unit | Item   | Symbol     | Value | Unit |
|--|--------|-------|------|--|------------|-------|------|
| Rated heat output (*)  | Prated | 26    | kW   | Seasonal space heating energy efficiency   | $\eta_s$   | 143   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C  | Pdh    | 15,91 | kW   | Tj = -7°C  | COPd       | 3,1   | -    |
| Tj = 2°C   | Pdh    | 10,1  | kW   | Tj = 2°C   | COPd       | 4,45  | -    |
| Tj = 7°C   | Pdh    | 6,3   | kW   | Tj = 7°C   | COPd       | 6,06  | -    |
| Tj = 12°C  | Pdh    | 4,03  | kW   | Tj = 12°C  | COPd       | 7,13  | -    |
| Tj = bivalent temperature  | Pdh    | 18,97 | kW   | Tj = bivalent temperature  | COPd       | 2,36  | -    |
| Tj = operating limit   | Pdh    | 13,07 | kW   | Tj = operating limit   | COPd       | 1,67  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh    | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd       | -     | -    |
| Bivalent temperature   | Tbiv   | -12   | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL        | -22   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc     | -     | -    |
| Degradation co-efficient (**)  | Cdh    | 0,9   | --   | Heating water operating limit temperature  | WTOL       | 60    | °C   |
| Power consumption in modes other than active mode  |        |       |      | Supplementary heater   |            |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup       | 7,03  | kW   |
| Standby mode   | Psb    | 0,018 | kW   |  |            |       |      |
| Thermostat-off mode  | Pto    | 0,096 | kW   | Type of energy input   | Electrical |       |      |
| Crankcase heater mode  | Pck    | 0,000 | kW   |  |            |       |      |

|                                     |                 |       |     |  |   |       |      |
|-------------------------------------|-----------------|-------|-----|--|---|-------|------|
| Other items                         |                 |       |     |  |   |       |      |
| Capacity control                    | variable        |       |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 10650 | m³/h |
| Sound power level, indoors/outdoors | <sup>L</sup> WA | -     | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -     | m³/h |
| Annual energy consumption           | <sup>Q</sup> HE | 17421 | kWh |  |   |       |      |

|                                   |                   |   |     |                                 |                   |   |     |
|-----------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| For heat pump combination heater: |                   |   |     |                                 |                   |   |     |
| Declared load profile             | -                 |   |     | Water heating energy efficiency | wh                | - | %   |
| Daily electricity consumption     | <sup>Q</sup> clec | - | kWh | Daily fuel consumption          | <sup>Q</sup> fuel | - | kWh |
| Annual electricity consumption    | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 26T - Modo riscaldamento - Clima più caldo - Bassa temperatura (35°C) / Heating mode - Warmer climate - Low temperature (35°C)

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  | IDOLA M 3.2 26T  |       |      |  |                   |       |      |
| Air-to-water heat pump:  | YES  |       |      |  |                   |       |      |
| Water-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Brine-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Low-temperature heat pump:   | NO   |       |      |  |                   |       |      |
| Equipped with a supplementary heater:  | NO   |       |      |  |                   |       |      |
| Heat pump combination heater:  | NO   |       |      |  |                   |       |      |
| Declared climate condition:  | WARMER   |       |      |  |                   |       |      |
| Parameters are declared for low-temperature (35°C) application.  |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 26    | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 231   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | -     | kW   | Tj = -7°C  | COPd              | -     | -    |
| Tj = 2°C   | Pdh  | 25,5  | kW   | Tj = 2°C   | COPd              | 3     | -    |
| Tj = 7°C   | Pdh  | 16,77 | kW   | Tj = 7°C   | COPd              | 5,02  | -    |
| Tj = 12°C  | Pdh  | 7,65  | kW   | Tj = 12°C  | COPd              | 7,78  | -    |
| Tj = bivalent temperature  | Pdh  | 16,77 | kW   | Tj = bivalent temperature  | COPd              | 5,02  | -    |
| Tj = operating limit   | Pdh  | 25,5  | kW   | Tj = operating limit   | COPd              | 3     | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | 7     | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | 2     | °C   |
| Cycling interval capacity for heating  | Pcych  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 9,23  | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
| Other items  |  |       |      |  |                   |       |      |
| Capacity control   | variable   |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 10650 | m³/h |
| Sound power level, indoors/outdoors  | L <sub>WA</sub>  | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | Q <sub>HE</sub>  | 5959  | kWh  |  |                   |       |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | $\eta_{wh}$       | -     | %    |
| Daily electricity consumption  | Q <sub>elec</sub>  | -     | kWh  | Daily fuel consumption   | Q <sub>fuel</sub> | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
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| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)**

|  |                    |  |                                |  |              |       |                       |
|--|--------------------|--|--------------------------------|--|--------------|-------|-----------------------|
| Information requirements for comfort chillers  |                    |  |                                |  |              |       |                       |
| Model(s):  |                    | IDOLA M 3.2 26T  |                                |  |              |       |                       |
| Outdoor side heat exchanger of chiller:  |                    | Air to water   |                                |  |              |       |                       |
| Indoor side heat exchanger chiller:  |                    | Water  |                                |  |              |       |                       |
| Type:  |                    | Compressor driven vapour compression   |                                |  |              |       |                       |
| Driver of compressor:  |                    | Electric motor   |                                |  |              |       |                       |
| Item   | Symbol             | Value  | Unit                           | Item   | Symbol       | Value | Unit                  |
| Rated cooling capacity   | $P_{rated,c}$      | 25,5   | kW                             | Seasonal space cooling energy efficiency   | $\eta_{s,c}$ | 183   | %                     |
| Declared cooling capacity for part load at given outdoor temperature $T_j$   |                    |  |                                | Declared energy efficiency ratio for part load at given outdoor temperature $T_j$                |              |       |                       |
| $T_j=+35^\circ\text{C}$  | $P_{dc}$           | 25,5   | kW                             | $T_j=+35^\circ\text{C}$  | EERd         | 2,63  | -                     |
| $T_j=+30^\circ\text{C}$  | $P_{dc}$           | 18,5   | kW                             | $T_j=+30^\circ\text{C}$  | EERd         | 3,79  | -                     |
| $T_j=+25^\circ\text{C}$  | $P_{dc}$           | 11,8   | kW                             | $T_j=+25^\circ\text{C}$  | EERd         | 5,19  | -                     |
| $T_j=+20^\circ\text{C}$  | $P_{dc}$           | 5,6  | kW                             | $T_j=+20^\circ\text{C}$  | EERd         | 6,84  | -                     |
| Degradation co-efficient for chillers (*)  |                    | $C_{dc}$   | 0,9                            | -  |              |       |                       |
| Power consumption in modes other than "active mode"  |                    |  |                                |  |              |       |                       |
| Off mode   | $P_{OFF}$          | 0,017  | kW                             | Crankcase heater mode  | $P_{CK}$     | 0,000 | kW                    |
| Thermosat-off mode   | $P_{TO}$           | 0,084  | kW                             | Standby mode   | $P_{SB}$     | 0,017 | kW                    |
| Other items  |                    |  |                                |  |              |       |                       |
| Capacity control   | variable           |  |                                | For air-to-water comfort chillers:<br>air flow rate, outdoor measured                            | -            | 9750  | $\text{m}^3/\text{h}$ |
| Sound power level, indoors / outdoors  | $L_{WA}$           | -75  | dB                             |  |              |       |                       |
| Emissions of nitrogen oxides (if applicable)   | $\text{NO}_x$ (**) | -  | mg/kWh input GCV               | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -            | -     | $\text{m}^3/\text{h}$ |
| GWP of the refrigerant   | -                  | 675  | kg $\text{CO}_2$ eq (100years) |  |              |       |                       |
| Standard rating conditions used  |                    | Low temperature application  |                                |  |              |       |                       |
| Contact details  |                    | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |                                |  |              |       |                       |
| (*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018. |                    |  |                                |  |              |       |                       |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 26T - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)**

|   |  |                                      |                                  |  |              |       |                   |
|---|--|--------------------------------------|----------------------------------|--|--------------|-------|-------------------|
| Information requirements for comfort chillers   |  |                                      |                                  |  |              |       |                   |
| Model(s):   |  | IDOLA M 3.2 26T                      |                                  |  |              |       |                   |
| Outdoor side heat exchanger of chiller:   |  | Air to water                         |                                  |  |              |       |                   |
| Indoor side heat exchanger chiller:   |  | Water                                |                                  |  |              |       |                   |
| Type:   |  | Compressor driven vapour compression |                                  |  |              |       |                   |
| Driver of compressor:   |  | Electric motor                       |                                  |  |              |       |                   |
| Item  | Symbol   | Value                                | Unit                             | Item   | Symbol       | Value | Unit              |
| Rated cooling capacity  | $P_{rated,c}$  | 26,8                                 | kW                               | Seasonal space cooling energy efficiency   | $\eta_{s,c}$ | 226   | %                 |
| Declared cooling capacity for part load at given outdoor temperature $T_j$  |  |                                      |                                  | Declared energy efficiency ratio for part load at given outdoor temperature $T_j$                |              |       |                   |
| $T_j=+35^\circ\text{C}$   | $P_{dc}$   | 26,8                                 | kW                               | $T_j=+35^\circ\text{C}$  | EERd         | 4,04  | -                 |
| $T_j=+30^\circ\text{C}$   | $P_{dc}$   | 19,4                                 | kW                               | $T_j=+30^\circ\text{C}$  | EERd         | 5,21  | -                 |
| $T_j=+25^\circ\text{C}$   | $P_{dc}$   | 12,1                                 | kW                               | $T_j=+25^\circ\text{C}$  | EERd         | 6,23  | -                 |
| $T_j=+20^\circ\text{C}$   | $P_{dc}$   | 5,9                                  | kW                               | $T_j=+20^\circ\text{C}$  | EERd         | 6,94  | -                 |
| Degradation co-efficient for chillers (*)   | $C_{dc}$   | 0,9                                  | -                                |  |              |       |                   |
| Power consumption in modes other than "active mode"   |  |                                      |                                  |  |              |       |                   |
| Off mode  | $P_{OFF}$  | 0,017                                | kW                               | Crankcase heater mode  | $P_{CK}$     | 0,000 | kW                |
| Thermosat-off mode  | $P_{TO}$   | 0,084                                | kW                               | Standby mode   | $P_{SB}$     | 0,017 | kW                |
| Other items   |  |                                      |                                  |  |              |       |                   |
| Capacity control  | variable   |                                      |                                  | For air-to-water comfort chillers:<br>air flow rate, outdoor measured                            | -            | 9750  | m <sup>3</sup> /h |
| Sound power level, indoors / outdoors   | $L_{WA}$   | -75                                  | dB                               |  |              |       |                   |
| Emissions of nitrogen oxides (if applicable)  | NOx (**)   | -                                    | mg/kWh input GCV                 | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -            | -     | m <sup>3</sup> /h |
| GWP of the refrigerant  | -  | 675                                  | kg CO <sub>2</sub> eq (100years) |  |              |       |                   |
| Standard rating conditions used   | Medium temperature application   |                                      |                                  |  |              |       |                   |
| Contact details   | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                      |                                  |  |              |       |                   |
| (*) If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018. |  |                                      |                                  |  |              |       |                   |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)**

|  |   |       |      |  |                   |       |      |
|--|---|-------|------|--|-------------------|-------|------|
| Technical parameters   |   |       |      |  |                   |       |      |
| Model(s):  |   |       |      | IDOLA M 3.2 30T  |                   |       |      |
| Air-to-water heat pump:  |   |       |      | YES  |                   |       |      |
| Water-to-water heat pump:  |   |       |      | NO   |                   |       |      |
| Brine-to-water heat pump:  |   |       |      | NO   |                   |       |      |
| Low-temperature heat pump:   |   |       |      | NO   |                   |       |      |
| Equipped with a supplementary heater:  |   |       |      | NO   |                   |       |      |
| Heat pump combination heater:  |   |       |      | NO   |                   |       |      |
| Declared climate condition:  |   |       |      | AVERAGE  |                   |       |      |
| Parameters are declared for medium-temperature (55°C) application.   |   |       |      |  |                   |       |      |
|  |   |       |      |  |                   |       |      |
| Item   | Symbol  | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated  | 29,7  | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 123   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |   |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh   | 20,1  | kW   | Tj = -7°C  | COPd              | 1,63  | -    |
| Tj = 2°C   | Pdh   | 16,5  | kW   | Tj = 2°C   | COPd              | 3,09  | -    |
| Tj = 7°C   | Pdh   | 10,5  | kW   | Tj = 7°C   | COPd              | 4,73  | -    |
| Tj = 12°C  | Pdh   | 4,7   | kW   | Tj = 12°C  | COPd              | 5,85  | -    |
| Tj = bivalent temperature  | Pdh   | 24,0  | kW   | Tj = bivalent temperature  | COPd              | 2,02  | -    |
| Tj = operating limit   | Pdh   | 13,8  | kW   | Tj = operating limit   | COPd              | 1,07  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh   | -     | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv  | -5    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | -10   | °C   |
| Cycling interval capacity for heating  | Pcyc  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh   | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |   |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff  | 0,018 | kW   | Rated heat output (**)   | Psup              | 5,7   | kW   |
| Standby mode   | Psb   | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto   | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck   | 0,000 | kW   |  |                   |       |      |
|  |   |       |      |  |                   |       |      |
| Other items  |   |       |      |  |                   |       |      |
| Capacity control   | variable  |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 11200 | m³/h |
| Sound power level, indoors/outdoors  | <sup>L</sup> WA   | -77   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | <sup>Q</sup> HE   | 19316 | kWh  |  |                   |       |      |
| For heat pump combination heater:  |   |       |      |  |                   |       |      |
| Declared load profile  | -   |       |      | Water heating energy efficiency  | wh                | -     | %    |
| Daily electricity consumption  | <sup>Q</sup> clec   | -     | kWh  | Daily fuel consumption   | <sup>Q</sup> fuel | -     | kWh  |
| Annual electricity consumption   | AEC   | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
|  |   |       |      |  |                   |       |      |
| Contact details  | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |  |                   |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |   |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |   |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)**

|                                       |                 |
|---------------------------------------|-----------------|
| Technical parameters                  |                 |
| Model(s):                             | IDOLA M 3.2 30T |
| Air-to-water heat pump:               | YES             |
| Water-to-water heat pump:             | NO              |
| Brine-to-water heat pump:             | NO              |
| Low-temperature heat pump:            | NO              |
| Equipped with a supplementary heater: | NO              |
| Heat pump combination heater:         | NO              |
| Declared climate condition:           | COLDER          |

Parameters are declared for medium-temperature (55°C) application.

| Item   | Symbol | Value | Unit | Item   | Symbol     | Value | Unit |
|--|--------|-------|------|--|------------|-------|------|
| Rated heat output (*)  | Prated | 30,4  | kW   | Seasonal space heating energy efficiency   | $\eta_s$   | 100   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C  | Pdh    | 18,4  | kW   | Tj = -7°C  | COPd       | 2,10  | -    |
| Tj = 2°C   | Pdh    | 11,2  | kW   | Tj = 2°C   | COPd       | 3,51  | -    |
| Tj = 7°C   | Pdh    | 7,4   | kW   | Tj = 7°C   | COPd       | 5,18  | -    |
| Tj = 12°C  | Pdh    | 3,6   | kW   | Tj = 12°C  | COPd       | 5,73  | -    |
| Tj = bivalent temperature  | Pdh    | 18,4  | kW   | Tj = bivalent temperature  | COPd       | 2,10  | -    |
| Tj = operating limit   | Pdh    | 13,1  | kW   | Tj = operating limit   | COPd       | 1,18  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh    | 13,1  | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd       | 1,18  | -    |
| Bivalent temperature   | Tbiv   | -7    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL        | -15   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc     | -     | -    |
| Degradation co-efficient (**)  | Cdh    | 0,9   | --   | Heating water operating limit temperature  | WTOL       | 50    | °C   |
| Power consumption in modes other than active mode  |        |       |      | Supplementary heater   |            |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup       | 12    | kW   |
| Standby mode   | Psb    | 0,018 | kW   |  |            |       |      |
| Thermostat-off mode  | Pto    | 0,096 | kW   | Type of energy input   | Electrical |       |      |
| Crankcase heater mode  | Pck    | 0,000 | kW   |  |            |       |      |

|                                     |                 |       |     |  |   |       |      |
|-------------------------------------|-----------------|-------|-----|--|---|-------|------|
| Other items                         |                 |       |     |  |   |       |      |
| Capacity control                    | variable        |       |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 11200 | m³/h |
| Sound power level, indoors/outdoors | <sup>L</sup> WA | -77   | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -     | m³/h |
| Annual energy consumption           | <sup>Q</sup> HE | 29238 | kWh |  |   |       |      |

For heat pump combination heater:

|                                |                   |   |     |                                 |                   |   |     |
|--------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| Declared load profile          | -                 |   |     | Water heating energy efficiency | wh                | - | %   |
| Daily electricity consumption  | <sup>Q</sup> clec | - | kWh | Daily fuel consumption          | <sup>Q</sup> fuel | - | kWh |
| Annual electricity consumption | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

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

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)**

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  | IDOLA M 3.2 30T  |       |      |  |                   |       |      |
| Air-to-water heat pump:  | YES  |       |      |  |                   |       |      |
| Water-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Brine-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Low-temperature heat pump:   | NO   |       |      |  |                   |       |      |
| Equipped with a supplementary heater:  | NO   |       |      |  |                   |       |      |
| Heat pump combination heater:  | NO   |       |      |  |                   |       |      |
| Declared climate condition:  | WARMER   |       |      |  |                   |       |      |
| Parameters are declared for medium-temperature (55°C) application.   |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 29,7  | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 163   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | -     | kW   | Tj = -7°C  | COPd              | -     | -    |
| Tj = 2°C   | Pdh  | 26,4  | kW   | Tj = 2°C   | COPd              | 1,99  | -    |
| Tj = 7°C   | Pdh  | 19,1  | kW   | Tj = 7°C   | COPd              | 3,37  | -    |
| Tj = 12°C  | Pdh  | 8,9   | kW   | Tj = 12°C  | COPd              | 6,09  | -    |
| Tj = bivalent temperature  | Pdh  | 19,1  | kW   | Tj = bivalent temperature  | COPd              | 3,37  | -    |
| Tj = operating limit   | Pdh  | 26,4  | kW   | Tj = operating limit   | COPd              | 1,99  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | 7     | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | 2     | °C   |
| Cycling interval capacity for heating  | Pcych  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 10,6  | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
| Other items  |  |       |      |  |                   |       |      |
| Capacity control   | variable   |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 11200 | m³/h |
| Sound power level, indoors/outdoors  | <sup>L</sup> WA  | -77   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | <sup>Q</sup> HE  | 9580  | kWh  |  |                   |       |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | wh                | -     | %    |
| Daily electricity consumption  | <sup>Q</sup> clec  | -     | kWh  | Daily fuel consumption   | <sup>Q</sup> fuel | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
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| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima medio - Bassa temperatura (35°C) / Heating mode - Average climate - Low temperature (35°C)**

|  |   |       |      |  |                   |       |      |
|--|---|-------|------|--|-------------------|-------|------|
| Technical parameters   |   |       |      |  |                   |       |      |
| Model(s):  |   |       |      | IDOLA M 3.2 30T  |                   |       |      |
| Air-to-water heat pump:  |   |       |      | YES  |                   |       |      |
| Water-to-water heat pump:  |   |       |      | NO   |                   |       |      |
| Brine-to-water heat pump:  |   |       |      | NO   |                   |       |      |
| Low-temperature heat pump:   |   |       |      | NO   |                   |       |      |
| Equipped with a supplementary heater:  |   |       |      | NO   |                   |       |      |
| Heat pump combination heater:  |   |       |      | NO   |                   |       |      |
| Declared climate condition:  |   |       |      | AVERAGE  |                   |       |      |
| Parameters are declared for low-temperature (35°C) application.  |   |       |      |  |                   |       |      |
|  |   |       |      |  |                   |       |      |
| Item   | Symbol  | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated  | 29    | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 165   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |   |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh   | 21,95 | kW   | Tj = -7°C  | COPd              | 2,53  | -    |
| Tj = 2°C   | Pdh   | 16,22 | kW   | Tj = 2°C   | COPd              | 4,12  | -    |
| Tj = 7°C   | Pdh   | 10,69 | kW   | Tj = 7°C   | COPd              | 6,21  | -    |
| Tj = 12°C  | Pdh   | 4,59  | kW   | Tj = 12°C  | COPd              | 7,14  | -    |
| Tj = bivalent temperature  | Pdh   | 23,57 | kW   | Tj = bivalent temperature  | COPd              | 2,7   | -    |
| Tj = operating limit   | Pdh   | 20,43 | kW   | Tj = operating limit   | COPd              | 2,34  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh   | -     | kW   | For air-to-water heat pumps: Tj = -15°C  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv  | -5    | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | -10   | °C   |
| Cycling interval capacity for heating  | Pcyc  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh   | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |   |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff  | 0,018 | kW   | Rated heat output (**)   | Psup              | 5,43  | kW   |
| Standby mode   | Psb   | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto   | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck   | 0,000 | kW   |  |                   |       |      |
|  |   |       |      |  |                   |       |      |
| Other items  |   |       |      |  |                   |       |      |
| Capacity control   | variable  |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   | -                 | 10650 | m³/h |
| Sound power level, indoors/outdoors  | <sup>L</sup> WA   | /77   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                 | -     | m³/h |
| Annual energy consumption  | <sup>Q</sup> HE   | 14165 | kWh  |  |                   |       |      |
| For heat pump combination heater:  |   |       |      |  |                   |       |      |
| Declared load profile  | -   |       |      | Water heating energy efficiency  | wh                | -     | %    |
| Daily electricity consumption  | <sup>Q</sup> clec   | -     | kWh  | Daily fuel consumption   | <sup>Q</sup> fuel | -     | kWh  |
| Annual electricity consumption   | AEC   | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
|  |   |       |      |  |                   |       |      |
| Contact details  | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |  |                   |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |   |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |   |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo riscaldamento - Clima più freddo - Bassa temperatura (35°C) / Heating mode - Colder climate - Low temperature (35°C)**

|   |                 |
|---|-----------------|
| Technical parameters  |                 |
| Model(s):   | IDOLA M 3.2 30T |
| Air-to-water heat pump:   | YES             |
| Water-to-water heat pump:                                       | NO              |
| Brine-to-water heat pump:                                       | NO              |
| Low-temperature heat pump:                                      | NO              |
| Equipped with a supplementary heater:                           | NO              |
| Heat pump combination heater:                                   | NO              |
| Declared climate condition:                                     | COLDER          |
| Parameters are declared for low-temperature (35°C) application. |                 |

| Item   | Symbol | Value | Unit | Item   | Symbol     | Value | Unit |
|--|--------|-------|------|--|------------|-------|------|
| Rated heat output (*)  | Prated | 29    | kW   | Seasonal space heating energy efficiency   | $\eta_s$   | 138   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C  | Pdh    | 18,49 | kW   | Tj = -7°C  | COPd       | 3,07  | -    |
| Tj = 2°C   | Pdh    | 11,88 | kW   | Tj = 2°C   | COPd       | 4,42  | -    |
| Tj = 7°C   | Pdh    | 7,53  | kW   | Tj = 7°C   | COPd       | 6,15  | -    |
| Tj = 12°C  | Pdh    | 4,11  | kW   | Tj = 12°C  | COPd       | 6,87  | -    |
| Tj = bivalent temperature  | Pdh    | 19,93 | kW   | Tj = bivalent temperature  | COPd       | 2,44  | -    |
| Tj = operating limit   | Pdh    | 13,17 | kW   | Tj = operating limit   | COPd       | 1,67  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh    | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd       | -     | -    |
| Bivalent temperature   | Tbiv   | -10   | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL        | -22   | °C   |
| Cycling interval capacity for heating  | Pcyc   | -     | kW   | Cycling interval efficiency  | COPcyc     | -     | -    |
| Degradation co-efficient (**)  | Cdh    | 0,9   | --   | Heating water operating limit temperature  | WTOL       | 60    | °C   |
| Power consumption in modes other than active mode  |        |       |      | Supplementary heater   |            |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup       | 9,07  | kW   |
| Standby mode   | Psb    | 0,018 | kW   |  |            |       |      |
| Thermostat-off mode  | Pto    | 0,096 | kW   | Type of energy input   | Electrical |       |      |
| Crankcase heater mode  | Pck    | 0,000 | kW   |  |            |       |      |

|                                     |                 |       |     |  |   |       |      |
|-------------------------------------|-----------------|-------|-----|--|---|-------|------|
| Other items                         |                 |       |     |  |   |       |      |
| Capacity control                    | variable        |       |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 10650 | m³/h |
| Sound power level, indoors/outdoors | <sup>L</sup> WA | -     | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -     | m³/h |
| Annual energy consumption           | <sup>Q</sup> HE | 20390 | kWh |  |   |       |      |

|                                   |                   |   |     |                                 |                   |   |     |
|-----------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| For heat pump combination heater: |                   |   |     |                                 |                   |   |     |
| Declared load profile             | -                 |   |     | Water heating energy efficiency | wh                | - | %   |
| Daily electricity consumption     | <sup>Q</sup> clec | - | kWh | Daily fuel consumption          | <sup>Q</sup> fuel | - | kWh |
| Annual electricity consumption    | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

IDOLA M 3.2 30T - Modo riscaldamento - Clima più caldo - Bassa temperatura (35°C) / Heating mode - Warmer climate - Low temperature (35°C)

|  |  |       |      |  |                   |       |      |
|--|--|-------|------|--|-------------------|-------|------|
| Technical parameters   |  |       |      |  |                   |       |      |
| Model(s):  | IDOLA M 3.2 30T  |       |      |  |                   |       |      |
| Air-to-water heat pump:  | YES  |       |      |  |                   |       |      |
| Water-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Brine-to-water heat pump:  | NO   |       |      |  |                   |       |      |
| Low-temperature heat pump:   | NO   |       |      |  |                   |       |      |
| Equipped with a supplementary heater:  | NO   |       |      |  |                   |       |      |
| Heat pump combination heater:  | NO   |       |      |  |                   |       |      |
| Declared climate condition:  | WARMER   |       |      |  |                   |       |      |
| Parameters are declared for low-temperature (35°C) application.  |  |       |      |  |                   |       |      |
| Item   | Symbol   | Value | Unit | Item   | Symbol            | Value | Unit |
| Rated heat output (*)  | Prated   | 30    | kW   | Seasonal space heating energy efficiency   | $\eta_s$          | 213   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj   |  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                   |       |      |
| Tj = -7°C  | Pdh  | -     | kW   | Tj = -7°C  | COPd              | -     | -    |
| Tj = 2°C   | Pdh  | 26,29 | kW   | Tj = 2°C   | COPd              | 2,94  | -    |
| Tj = 7°C   | Pdh  | 19,57 | kW   | Tj = 7°C   | COPd              | 4,75  | -    |
| Tj = 12°C  | Pdh  | 8,9   | kW   | Tj = 12°C  | COPd              | 7,53  | -    |
| Tj = bivalent temperature  | Pdh  | 19,57 | kW   | Tj = bivalent temperature  | COPd              | 4,75  | -    |
| Tj = operating limit   | Pdh  | 26,29 | kW   | Tj = operating limit   | COPd              | 2,94  | -    |
| For air-to-water heat pumps: Tj = -15°C  | Pdh  | -     | kW   | For air-to-water heat pumps: Tj = -15  | COPd              | -     | -    |
| Bivalent temperature   | Tbiv   | 7     | °C   | For air-to-water heat pumps: Operation limit temperature   | TOL               | 2     | °C   |
| Cycling interval capacity for heating  | Pcych  | -     | kW   | Cycling interval efficiency  | COPcyc            | -     | -    |
| Degradation co-efficient (**)  | Cdh  | 0,9   | --   | Heating water operating limit temperature  | WTOL              | 60    | °C   |
| Power consumption in modes other than active mode  |  |       |      | Supplementary heater   |                   |       |      |
| Off mode   | Poff   | 0,018 | kW   | Rated heat output (**)   | Psup              | 10,43 | kW   |
| Standby mode   | Psb  | 0,018 | kW   |  |                   |       |      |
| Thermostat-off mode  | Pto  | 0,096 | kW   | Type of energy input   | Electrical        |       |      |
| Crankcase heater mode  | Pck  | 0,000 | kW   |  |                   |       |      |
| Other items  |  |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors   |                   |       |      |
| Capacity control   | variable   |       |      | -  | 10650             | m³/h  |      |
| Sound power level, indoors/outdoors  | L <sub>WA</sub>  | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |                   |       |      |
| Annual energy consumption  | Q <sub>HE</sub>  | 7540  | kWh  | -  | -                 | m³/h  |      |
| For heat pump combination heater:  |  |       |      |  |                   |       |      |
| Declared load profile  | -  |       |      | Water heating energy efficiency  | $\eta_{wh}$       | -     | %    |
| Daily electricity consumption  | Q <sub>elec</sub>  | -     | kWh  | Daily fuel consumption   | Q <sub>fuel</sub> | -     | kWh  |
| Annual electricity consumption   | AEC  | -     | kWh  | Annual fuel consumption  | AFC               | -     | GJ   |
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| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |       |      |  |                   |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  |  |       |      |  |                   |       |      |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)**

|  |                    |  |                                |  |             |       |                       |
|--|--------------------|--|--------------------------------|--|-------------|-------|-----------------------|
| Information requirements for comfort chillers  |                    |  |                                |  |             |       |                       |
| Model(s):  |                    |  |                                | IDOLA M 3.2 30T  |             |       |                       |
| Outdoor side heat exchanger of chiller:  |                    |  |                                | Air to water   |             |       |                       |
| Indoor side heat exchanger chiller:  |                    |  |                                | Water  |             |       |                       |
| Type:  |                    |  |                                | Compressor driven vapour compression   |             |       |                       |
| Driver of compressor:  |                    |  |                                | Electric motor   |             |       |                       |
| Item   | Symbol             | Value  | Unit                           | Item   | Symbol      | Value | Unit                  |
| Rated cooling capacity   | $P_{rated,c}$      | 29,5   | kW                             | Seasonal space cooling energy efficiency   | $\eta_{sc}$ | 177   | %                     |
| Declared cooling capacity for part load at given outdoor temperature $T_j$   |                    |  |                                | Declared energy efficiency ratio for part load at given outdoor temperature $T_j$                |             |       |                       |
| $T_j=+35^\circ\text{C}$  | $P_{dc}$           | 29,5   | kW                             | $T_j=+35^\circ\text{C}$  | EERd        | 2,29  | -                     |
| $T_j=+30^\circ\text{C}$  | $P_{dc}$           | 21,2   | kW                             | $T_j=+30^\circ\text{C}$  | EERd        | 3,62  | -                     |
| $T_j=+25^\circ\text{C}$  | $P_{dc}$           | 13,5   | kW                             | $T_j=+25^\circ\text{C}$  | EERd        | 5,06  | -                     |
| $T_j=+20^\circ\text{C}$  | $P_{dc}$           | 6,0  | kW                             | $T_j=+20^\circ\text{C}$  | EERd        | 6,75  | -                     |
| Degradation co-efficient for chillers (*)  |                    |  |                                | $C_{dc}$ 0,9 -   |             |       |                       |
| Power consumption in modes other than "active mode"  |                    |  |                                |  |             |       |                       |
| Off mode   | $P_{OFF}$          | 0,017  | kW                             | Crankcase heater mode  | $P_{CK}$    | 0,000 | kW                    |
| Thermosat-off mode   | $P_{TO}$           | 0,084  | kW                             | Standby mode   | $P_{SB}$    | 0,017 | kW                    |
| Other items  |                    |  |                                |  |             |       |                       |
| Capacity control   | variable           |  |                                | For air-to-water comfort chillers:<br>air flow rate, outdoor measured                            | -           | 10650 | $\text{m}^3/\text{h}$ |
| Sound power level, indoors / outdoors  | $L_{WA}$           | -77  | dB                             |  |             |       |                       |
| Emissions of nitrogen oxides (if applicable)   | $\text{NO}_x$ (**) | -  | mg/kWh input GCV               | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -           | -     | $\text{m}^3/\text{h}$ |
| GWP of the refrigerant   | -                  | 675  | kg $\text{CO}_2$ eq (100years) |  |             |       |                       |
| Standard rating conditions used  |                    | Low temperature application  |                                |  |             |       |                       |
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| (*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018. |                    |  |                                |  |             |       |                       |

**FOGLIO DATI TECNICI ERP / ERP TECHNICAL DATA SHEET**

**IDOLA M 3.2 30T - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)**

|   |  |       |                                  |  |              |       |                   |
|---|--|-------|----------------------------------|--|--------------|-------|-------------------|
| Information requirements for comfort chillers   |  |       |                                  |  |              |       |                   |
| Model(s):   |  |       |                                  | IDOLA M 3.2 30T  |              |       |                   |
| Outdoor side heat exchanger of chiller:   |  |       |                                  | Air to water   |              |       |                   |
| Indoor side heat exchanger chiller:   |  |       |                                  | Water  |              |       |                   |
| Type:   |  |       |                                  | Compressor driven vapour compression   |              |       |                   |
| Driver of compressor:   |  |       |                                  | Electric motor   |              |       |                   |
| Item  | Symbol   | Value | Unit                             | Item   | Symbol       | Value | Unit              |
| Rated cooling capacity  | $P_{rated,c}$  | 30,8  | kW                               | Seasonal space cooling energy efficiency   | $\eta_{s,c}$ | 225   | %                 |
| Declared cooling capacity for part load at given outdoor temperature $T_j$  |  |       |                                  | Declared energy efficiency ratio for part load at given outdoor temperature $T_j$                |              |       |                   |
| $T_j=+35^\circ\text{C}$   | $P_{dc}$   | 30,8  | kW                               | $T_j=+35^\circ\text{C}$  | EERd         | 3,79  | -                 |
| $T_j=+30^\circ\text{C}$   | $P_{dc}$   | 22,1  | kW                               | $T_j=+30^\circ\text{C}$  | EERd         | 5,06  | -                 |
| $T_j=+25^\circ\text{C}$   | $P_{dc}$   | 13,9  | kW                               | $T_j=+25^\circ\text{C}$  | EERd         | 6,33  | -                 |
| $T_j=+20^\circ\text{C}$   | $P_{dc}$   | 6,3   | kW                               | $T_j=+20^\circ\text{C}$  | EERd         | 7,01  | -                 |
| Degradation co-efficient for chillers (*)   |  |       |                                  |  |              |       |                   |
|   | $C_{dc}$   | 0,9   | -                                |  |              |       |                   |
| Power consumption in modes other than "active mode"   |  |       |                                  |  |              |       |                   |
| Off mode  | $P_{OFF}$  | 0,017 | kW                               | Crankcase heater mode  | $P_{CK}$     | 0,000 | kW                |
| Thermosat-off mode  | $P_{TO}$   | 0,084 | kW                               | Standby mode   | $P_{SB}$     | 0,017 | kW                |
| Other items   |  |       |                                  |  |              |       |                   |
| Capacity control  | variable   |       |                                  | For air-to-water comfort chillers:<br>air flow rate, outdoor measured                            | -            | 10650 | m <sup>3</sup> /h |
| Sound power level, indoors / outdoors   | $L_{WA}$   | -77   | dB                               |  |              |       |                   |
| Emissions of nitrogen oxides (if applicable)  | NOx (**)   | -     | mg/kWh input GCV                 | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -            | -     | m <sup>3</sup> /h |
| GWP of the refrigerant  | -  | 675   | kg CO <sub>2</sub> eq (100years) |  |              |       |                   |
| Standard rating conditions used   | Medium temperature application   |       |                                  |  |              |       |                   |
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| (*) If Cdc is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018. |  |       |                                  |  |              |       |                   |

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

## IDOLA M 3.2 Mod. 22T - Prestazioni riscaldamento / Heating capacity

| "Tw_out<br>°C" | "DB/WB<br>°C" | Heating Capacity [W] |       |       |       |       |       | COP  |      |      |      |      |      |
|----------------|---------------|----------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%   | 30%   | 130% | 100% | 90%  | 70%  | 50%  | 30%  |
| 25             | -25           | /                    | 12,53 | 11,23 | 8,67  | 6,14  | 3,76  | /    | 2,37 | 2,40 | 2,46 | 2,54 | 2,68 |
|                | -20           | /                    | 14,83 | 13,30 | 10,26 | 7,28  | 4,45  | /    | 2,63 | 2,67 | 2,79 | 2,85 | 2,97 |
|                | -15           | /                    | 17,44 | 15,64 | 12,08 | 8,56  | 5,25  | /    | 2,99 | 3,04 | 3,21 | 3,29 | 3,43 |
|                | -10           | /                    | 20,39 | 18,28 | 14,12 | 10,02 | 6,14  | /    | 2,93 | 3,08 | 3,23 | 3,31 | 3,48 |
|                | -7            | /                    | 21,54 | 20,03 | 14,97 | 10,48 | 6,74  | /    | 3,07 | 3,42 | 3,43 | 3,50 | 3,84 |
|                | -5            | /                    | 22,11 | 19,83 | 15,32 | 10,87 | 6,93  | /    | 3,11 | 3,30 | 3,48 | 3,58 | 3,85 |
|                | -2            | 22,84                | 22,17 | 19,89 | 15,38 | 10,92 | 7,34  | 3,10 | 3,19 | 3,34 | 3,47 | 3,54 | 3,81 |
|                | 0             | 23,13                | 22,43 | 20,13 | 15,56 | 11,05 | 7,61  | 3,42 | 3,49 | 3,66 | 3,77 | 3,84 | 4,12 |
|                | 2             | 23,59                | 22,83 | 20,50 | 15,86 | 11,27 | 7,94  | 3,83 | 3,91 | 4,14 | 4,27 | 4,36 | 4,53 |
|                | 5             | 24,67                | 23,14 | 20,78 | 16,10 | 11,46 | 9,18  | 4,53 | 4,59 | 4,79 | 4,91 | 4,95 | 5,31 |
|                | 7             | 25,43                | 23,25 | 20,89 | 16,19 | 11,55 | 9,71  | 5,05 | 5,10 | 5,22 | 5,39 | 5,46 | 5,73 |
|                | 10            | 25,86                | 23,44 | 21,06 | 16,34 | 11,65 | 10,56 | 5,54 | 5,62 | 5,76 | 5,91 | 5,98 | 6,00 |
|                | 12            | 26,53                | 23,37 | 21,01 | 16,30 | 11,84 | /     | 5,61 | 5,68 | 5,84 | 5,98 | 6,05 | /    |
|                | 15            | 27,54                | 23,27 | 20,93 | 16,23 | 12,11 | /     | 5,71 | 5,77 | 5,97 | 6,07 | 6,15 | /    |
|                | 20            | 29,04                | 23,03 | 20,70 | 16,09 | 13,85 | /     | 5,79 | 5,84 | 6,08 | 6,19 | 6,21 | /    |
|                | 25            | 28,38                | 23,31 | 20,95 | 16,29 | 15,80 | /     | 5,82 | 5,88 | 6,14 | 6,23 | 6,24 | /    |
| 30             | /             | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 35             | /             | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 30             | -25           | /                    | 12,55 | 11,25 | 8,68  | 6,14  | 3,71  | /    | 2,17 | 2,20 | 2,27 | 2,35 | 2,46 |
|                | -20           | /                    | 14,84 | 13,30 | 10,26 | 7,27  | 4,39  | /    | 2,39 | 2,43 | 2,55 | 2,61 | 2,69 |
|                | -15           | /                    | 17,43 | 15,63 | 12,06 | 8,55  | 5,17  | /    | 2,68 | 2,73 | 2,90 | 2,98 | 3,11 |
|                | -10           | 20,36                | 20,08 | 18,00 | 13,90 | 9,86  | 6,05  | 2,65 | 2,70 | 2,85 | 3,00 | 3,07 | 3,23 |
|                | -7            | 22,29                | 21,31 | 19,43 | 15,01 | 10,65 | 6,63  | 2,81 | 2,80 | 3,07 | 3,20 | 3,31 | 3,47 |
|                | -5            | 21,92                | 21,60 | 19,58 | 15,13 | 10,73 | 6,92  | 2,80 | 2,87 | 3,09 | 3,23 | 3,32 | 3,49 |
|                | -2            | 22,63                | 21,96 | 19,70 | 15,23 | 10,81 | 7,22  | 2,88 | 2,97 | 3,13 | 3,26 | 3,33 | 3,58 |
|                | 0             | 22,90                | 22,20 | 19,92 | 15,40 | 10,93 | 7,48  | 3,15 | 3,22 | 3,39 | 3,50 | 3,56 | 3,83 |
|                | 2             | 23,32                | 22,56 | 20,25 | 15,67 | 11,13 | 7,80  | 3,38 | 3,45 | 3,69 | 3,82 | 3,91 | 3,98 |
|                | 5             | 24,21                | 22,70 | 20,39 | 15,79 | 11,24 | 9,02  | 4,10 | 4,15 | 4,35 | 4,47 | 4,51 | 4,86 |
|                | 7             | 25,06                | 22,91 | 20,58 | 15,95 | 11,38 | 9,54  | 4,61 | 4,70 | 4,82 | 4,98 | 5,06 | 5,31 |
|                | 10            | 25,46                | 23,07 | 20,73 | 16,08 | 11,47 | 10,37 | 4,95 | 5,03 | 5,16 | 5,32 | 5,38 | 5,40 |
|                | 12            | 26,11                | 22,99 | 20,66 | 16,03 | 11,63 | /     | 5,02 | 5,09 | 5,25 | 5,39 | 5,46 | /    |
|                | 15            | 27,09                | 22,86 | 20,57 | 15,94 | 11,88 | /     | 5,13 | 5,19 | 5,39 | 5,49 | 5,57 | /    |
|                | 20            | 28,53                | 22,60 | 20,31 | 15,79 | 13,57 | /     | 5,23 | 5,28 | 5,51 | 5,62 | 5,64 | /    |
|                | 25            | 27,84                | 22,84 | 20,54 | 15,97 | 15,47 | /     | 5,26 | 5,32 | 5,59 | 5,67 | 5,68 | /    |
| 30             | 29,26         | 22,61                | 20,38 | 17,61 | 17,61 | /     | 5,60  | 5,69 | 5,71 | 5,73 | 5,73 | /    |      |
| 35             | /             | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 35             | -25           | 12,49                | 11,19 | 9,48  | 8,63  | 6,11  | 3,71  | 2,01 | 2,04 | 2,08 | 2,11 | 2,19 | 2,30 |
|                | -20           | 14,75                | 13,22 | 11,20 | 10,20 | 7,22  | 4,40  | 2,18 | 2,23 | 2,30 | 2,35 | 2,41 | 2,49 |
|                | -15           | 17,30                | 15,51 | 13,15 | 11,97 | 8,48  | 5,17  | 2,41 | 2,46 | 2,56 | 2,63 | 2,72 | 2,84 |
|                | -10           | 20,19                | 17,85 | 15,13 | 13,78 | 9,77  | 6,04  | 2,45 | 2,66 | 2,75 | 2,81 | 2,88 | 3,04 |
|                | -7            | 21,32                | 19,85 | 16,53 | 14,80 | 10,54 | 6,62  | 2,49 | 2,78 | 2,86 | 2,92 | 3,04 | 3,20 |
|                | -5            | 21,70                | 21,39 | 17,01 | 14,82 | 10,51 | 6,70  | 2,61 | 2,82 | 2,95 | 3,05 | 3,15 | 3,41 |
|                | -2            | 22,39                | 21,52 | 17,21 | 15,05 | 10,68 | 6,98  | 2,71 | 2,90 | 3,01 | 3,08 | 3,16 | 3,40 |
|                | 0             | 22,64                | 21,95 | 17,46 | 15,22 | 10,80 | 7,18  | 2,92 | 2,99 | 3,14 | 3,26 | 3,33 | 3,59 |
|                | 2             | 23,02                | 22,00 | 17,64 | 15,46 | 10,98 | 7,65  | 3,03 | 3,10 | 3,31 | 3,47 | 3,56 | 3,63 |
|                | 5             | 23,34                | 22,34 | 17,81 | 15,54 | 11,05 | 8,83  | 3,74 | 3,79 | 3,97 | 4,11 | 4,16 | 4,56 |
|                | 7*            | 24,14                | 22,00 | 17,79 | 15,68 | 11,19 | 9,33  | 4,32 | 4,40 | 4,56 | 4,69 | 4,76 | 5,06 |
|                | 10            | 24,45                | 22,67 | 18,08 | 15,79 | 11,26 | 10,14 | 4,45 | 4,53 | 4,70 | 4,82 | 4,89 | 5,18 |
|                | 12            | 25,31                | 22,57 | 18,00 | 15,73 | 11,41 | /     | 4,57 | 4,64 | 4,81 | 4,93 | 5,00 | /    |
|                | 15            | 26,59                | 22,42 | 17,90 | 15,63 | 11,63 | /     | 4,74 | 4,80 | 4,98 | 5,11 | 5,18 | /    |
|                | 20            | 27,97                | 22,13 | 17,69 | 15,46 | 13,28 | /     | 4,90 | 4,95 | 5,14 | 5,30 | 5,31 | /    |
|                | 25            | 27,24                | 22,34 | 17,86 | 15,61 | 15,12 | /     | 4,96 | 5,02 | 5,22 | 5,37 | 5,38 | /    |
| 30             | 28,60         | 22,07                | 18,82 | 17,19 | 17,19 | /     | 5,20  | 5,28 | 5,31 | 5,32 | 5,32 | /    |      |
| 35             | 28,65         | 22,03                | 20,36 | 19,52 | 19,52 | /     | 5,54  | 5,59 | 5,60 | 5,60 | 5,60 | /    |      |
| 40             | -25           | /                    | 13,88 | 11,10 | 9,71  | 6,87  | 4,01  | /    | 2,25 | 2,17 | 2,11 | 2,17 | 2,29 |
|                | -20           | /                    | 16,30 | 13,02 | 11,38 | 8,06  | 4,71  | /    | 2,49 | 2,43 | 2,39 | 2,47 | 2,57 |
|                | -15           | 19,00                | 18,30 | 14,75 | 12,97 | 9,19  | 5,50  | 2,32 | 2,61 | 2,62 | 2,62 | 2,69 | 2,84 |
|                | -10           | 20,78                | 19,10 | 15,69 | 13,98 | 9,91  | 6,02  | 2,39 | 2,67 | 2,71 | 2,73 | 2,85 | 3,01 |
|                | -5            | 20,73                | 20,42 | 16,24 | 14,15 | 10,04 | 6,18  | 2,49 | 2,56 | 2,77 | 2,94 | 3,04 | 3,21 |
|                | -2            | 21,55                | 20,89 | 16,62 | 14,48 | 10,27 | 6,53  | 2,53 | 2,62 | 2,82 | 2,98 | 3,06 | 3,23 |
|                | 0             | 21,77                | 21,09 | 16,77 | 14,62 | 10,38 | 6,77  | 2,71 | 2,78 | 2,98 | 3,14 | 3,20 | 3,36 |
|                | 2             | 22,86                | 22,09 | 17,59 | 15,34 | 10,90 | 7,15  | 2,84 | 2,91 | 3,10 | 3,26 | 3,35 | 3,42 |
|                | 5             | 22,93                | 22,44 | 17,88 | 15,60 | 11,09 | 8,76  | 3,48 | 3,53 | 3,71 | 3,86 | 3,90 | 4,12 |
|                | 7             | 23,70                | 22,65 | 18,05 | 15,75 | 11,24 | 9,25  | 3,91 | 3,99 | 4,18 | 4,32 | 4,39 | 4,49 |
|                | 10            | 23,98                | 22,81 | 18,20 | 15,89 | 11,33 | 9,93  | 4,04 | 4,12 | 4,32 | 4,48 | 4,54 | 4,56 |
|                | 12            | 24,81                | 22,74 | 18,15 | 15,85 | 11,34 | /     | 4,13 | 4,20 | 4,39 | 4,54 | 4,61 | /    |
|                | 15            | 26,05                | 22,64 | 18,07 | 15,78 | 11,36 | /     | 4,26 | 4,32 | 4,50 | 4,63 | 4,71 | /    |
|                | 20            | 27,35                | 22,43 | 17,92 | 15,67 | 12,95 | /     | 4,51 | 4,56 | 4,70 | 4,80 | 4,84 | /    |
|                | 25            | 26,59                | 22,73 | 18,16 | 15,88 | 14,74 | /     | 4,63 | 4,69 | 4,80 | 4,88 | 4,90 | /    |
|                | 30            | 28,17                | 22,59 | 18,69 | 16,74 | 16,74 | /     | 4,98 | 5,04 | 5,08 | 5,10 | 5,10 | /    |
| 35             | 28,04         | 22,64                | 20,21 | 18,99 | 18,99 | /     | 5,06  | 5,11 | 5,14 | 5,16 | 5,16 | /    |      |

| "Tw_out<br>°C" | "DB/WB<br>°C" | Heating Capacity [W] |              |       |       |       |      | COP  |             |      |      |      |      |   |
|----------------|---------------|----------------------|--------------|-------|-------|-------|------|------|-------------|------|------|------|------|---|
|                |               | 130%                 | 100%         | 90%   | 70%   | 50%   | 30%  | 130% | 100%        | 90%  | 70%  | 50%  | 30%  |   |
| 45             | -25           | /                    | /            | /     | /     | /     | /    | /    | /           | /    | /    | /    | /    | / |
|                | -20           | /                    | /            | /     | /     | /     | /    | /    | /           | /    | /    | /    | /    | / |
|                | -15           | /                    | 16,22        | 14,54 | 11,22 | 7,94  | 4,67 | /    | 1,97        | 2,08 | 2,25 | 2,33 | 2,43 |   |
|                | -10           | /                    | 18,61        | 16,68 | 12,88 | 9,13  | 5,44 | /    | 2,12        | 2,26 | 2,42 | 2,49 | 2,64 |   |
|                | -7            | /                    | 20,00        | 20,31 | 15,67 | 11,10 | 6,33 | /    | 2,20        | 2,41 | 2,54 | 2,66 | 2,82 |   |
|                | -5            | 20,27                | 19,96        | 17,90 | 13,82 | 9,80  | 6,50 | 2,28 | 2,35        | 2,55 | 2,74 | 2,84 | 3,01 |   |
|                | -2            | 21,04                | 20,40        | 18,29 | 14,13 | 10,02 | 6,44 | 2,36 | 2,45        | 2,69 | 2,82 | 2,89 | 3,07 |   |
|                | 0             | 21,72                | 21,04        | 18,87 | 14,58 | 10,34 | 6,44 | 2,49 | 2,56        | 2,81 | 2,92 | 2,99 | 3,14 |   |
|                | 2             | 22,42                | 22,00        | 18,94 | 14,65 | 10,40 | 7,29 | 2,53 | 2,60        | 2,81 | 2,95 | 3,04 | 3,10 |   |
|                | 5             | 22,70                | 22,21        | 19,94 | 15,44 | 10,98 | 8,32 | 3,04 | 3,09        | 3,30 | 3,42 | 3,46 | 3,69 |   |
|                | 7             | 23,22                | <b>22,00</b> | 20,39 | 15,78 | 11,22 | 8,79 | 3,31 | <b>3,40</b> | 3,56 | 3,73 | 3,80 | 3,98 |   |
|                | 10            | 23,47                | 22,32        | 20,04 | 15,54 | 11,08 | 9,69 | 3,54 | 3,62        | 3,82 | 3,98 | 4,04 | 4,06 |   |
|                | 12            | 24,26                | 22,23        | 19,97 | 15,49 | 11,07 | /    | 3,61 | 3,68        | 3,89 | 4,02 | 4,09 | /    |   |
|                | 15            | 25,45                | 22,10        | 19,86 | 15,40 | 11,07 | /    | 3,72 | 3,79        | 3,99 | 4,10 | 4,17 | /    |   |
|                | 20            | 26,68                | 22,80        | 20,51 | 15,89 | 12,61 | /    | 3,93 | 3,98        | 4,11 | 4,22 | 4,27 | /    |   |
|                | 25            | 25,89                | 22,11        | 19,87 | 15,45 | 14,33 | /    | 4,17 | 4,23        | 4,33 | 4,42 | 4,44 | /    |   |
| 30             | 27,11         | 21,93                | 19,72        | 16,25 | 16,25 | /     | 4,40 | 4,46 | 4,50        | 4,52 | 4,52 | /    |      |   |
| 35             | 27,21         | 21,98                | 19,75        | 18,41 | 18,41 | /     | 4,65 | 4,70 | 4,72        | 4,75 | 4,75 | /    |      |   |
| 50             | -25           | /                    | /            | /     | /     | /     | /    | /    | /           | /    | /    | /    | /    |   |
|                | -20           | /                    | /            | /     | /     | /     | /    | /    | /           | /    | /    | /    | /    |   |
|                | -15           | /                    | 15,72        | 14,09 | 10,87 | 7,70  | 4,57 | /    | 1,74        | 1,87 | 1,96 | 2,01 | 2,08 |   |
|                | -10           | /                    | 18,01        | 16,14 | 12,46 | 8,83  | 5,32 | /    | 1,78        | 1,95 | 2,07 | 2,13 | 2,24 |   |
|                | -7            | 19,66                | 19,37        | 17,37 | 13,41 | 9,50  | 5,94 | 1,89 | 1,90        | 2,14 | 2,27 | 2,33 | 2,43 |   |
|                | -5            | 20,06                | 19,76        | 17,72 | 13,68 | 9,70  | 6,10 | 1,95 | 1,98        | 2,21 | 2,35 | 2,46 | 2,61 |   |
|                | -2            | 20,88                | 20,23        | 18,14 | 14,01 | 9,93  | 6,17 | 2,05 | 2,07        | 2,33 | 2,44 | 2,57 | 2,84 |   |
|                | 0             | 21,73                | 21,04        | 18,87 | 14,57 | 10,34 | 6,38 | 2,16 | 2,21        | 2,46 | 2,60 | 2,70 | 2,74 |   |
|                | 2             | 22,40                | 21,24        | 19,05 | 14,73 | 10,46 | 6,94 | 2,32 | 2,32        | 2,60 | 2,75 | 2,87 | 3,02 |   |
|                | 5             | 22,46                | 21,98        | 19,74 | 15,28 | 10,86 | 8,24 | 2,56 | 2,61        | 2,85 | 2,95 | 3,06 | 3,24 |   |
|                | 7             | 22,69                | 22,18        | 19,92 | 15,42 | 10,96 | 8,40 | 2,93 | 3,02        | 3,19 | 3,24 | 3,30 | 3,46 |   |
|                | 10            | 22,90                | 22,34</      |       |       |       |      |      |             |      |      |      |      |   |

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

## IDOLA M 3.2 Mod. 26T - Prestazioni riscaldamento / Heating capacity

| "Tw_out<br>°C" | "DB/WB<br>°C" | Heating Capacity [W] |       |       |       |       |       | COP  |      |      |      |      |      |
|----------------|---------------|----------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%   | 30%   | 130% | 100% | 90%  | 70%  | 50%  | 30%  |
| 25             | -25           | /                    | 12,91 | 11,57 | 8,92  | 6,31  | 3,85  | /    | 2,35 | 2,39 | 2,45 | 2,53 | 2,60 |
|                | -20           | /                    | 15,28 | 13,69 | 10,56 | 7,48  | 4,57  | /    | 2,60 | 2,65 | 2,72 | 2,83 | 2,86 |
|                | -15           | /                    | 17,83 | 15,98 | 12,33 | 8,74  | 5,33  | /    | 2,97 | 3,02 | 3,11 | 3,27 | 3,32 |
|                | -10           | /                    | 21,04 | 18,69 | 14,42 | 10,23 | 6,24  | /    | 3,03 | 3,05 | 3,21 | 3,28 | 3,34 |
|                | -7            | /                    | 22,48 | 20,15 | 15,56 | 11,04 | 6,72  | /    | 3,13 | 3,15 | 3,35 | 3,47 | 3,62 |
|                | -5            | /                    | 22,96 | 20,46 | 15,80 | 11,21 | 6,91  | /    | 3,17 | 3,22 | 3,41 | 3,51 | 3,62 |
|                | -2            | /                    | 23,92 | 21,45 | 16,57 | 11,75 | 7,24  | /    | 3,25 | 3,28 | 3,41 | 3,48 | 3,59 |
|                | 0             | /                    | 24,93 | 22,36 | 17,27 | 12,26 | 7,53  | /    | 3,32 | 3,49 | 3,60 | 3,67 | 3,77 |
|                | 2             | 26,40                | 26,05 | 23,36 | 18,05 | 12,80 | 8,06  | 3,61 | 3,69 | 3,92 | 4,05 | 4,14 | 4,21 |
|                | 5             | 28,19                | 26,31 | 23,62 | 18,29 | 13,01 | 9,18  | 4,22 | 4,27 | 4,48 | 4,59 | 4,64 | 5,31 |
|                | 7             | 28,84                | 26,77 | 24,04 | 18,62 | 13,24 | 9,71  | 4,73 | 4,78 | 4,90 | 5,07 | 5,14 | 5,73 |
|                | 10            | 29,33                | 26,45 | 23,76 | 18,42 | 13,11 | 10,56 | 5,33 | 5,41 | 5,54 | 5,70 | 5,77 | 6,00 |
|                | 12            | 30,24                | 26,61 | 23,90 | 18,54 | 13,19 | 11,18 | 5,41 | 5,48 | 5,64 | 5,78 | 5,85 | 6,06 |
|                | 15            | 31,61                | 26,84 | 24,12 | 18,71 | 13,32 | 12,11 | 5,52 | 5,59 | 5,78 | 5,89 | 5,97 | 6,15 |
|                | 20            | 31,44                | 26,58 | 23,91 | 18,54 | 13,85 | /     | 5,61 | 5,66 | 5,90 | 6,01 | 6,21 | /    |
| 25             | 31,23         | 26,24                | 23,59 | 18,34 | 15,80 | /     | 5,68  | 5,74 | 6,00 | 6,09 | 6,24 | /    |      |
| 30             | /             | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 35             | /             | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 30             | -25           | /                    | 12,77 | 11,44 | 8,82  | 6,24  | 3,77  | /    | 2,16 | 2,19 | 2,25 | 2,33 | 2,40 |
|                | -20           | /                    | 15,10 | 13,53 | 10,43 | 7,39  | 4,47  | /    | 2,36 | 2,40 | 2,53 | 2,59 | 2,62 |
|                | -15           | /                    | 17,74 | 15,90 | 12,26 | 8,69  | 5,26  | /    | 2,66 | 2,71 | 2,88 | 2,96 | 3,01 |
|                | -10           | /                    | 20,71 | 18,56 | 14,33 | 10,15 | 6,15  | /    | 2,67 | 2,82 | 2,97 | 3,04 | 3,11 |
|                | -7            | /                    | 22,32 | 20,01 | 15,44 | 10,95 | 6,61  | /    | 2,77 | 2,97 | 3,10 | 3,21 | 3,27 |
|                | -5            | /                    | 22,84 | 20,30 | 15,67 | 11,11 | 6,80  | /    | 2,82 | 2,99 | 3,17 | 3,27 | 3,38 |
|                | -2            | /                    | 23,72 | 21,27 | 16,42 | 11,65 | 7,12  | /    | 2,91 | 3,07 | 3,19 | 3,27 | 3,38 |
|                | 0             | /                    | 24,71 | 22,16 | 17,12 | 12,14 | 7,40  | /    | 3,05 | 3,22 | 3,33 | 3,40 | 3,49 |
|                | 2             | 26,16                | 25,80 | 23,14 | 17,88 | 12,68 | 7,92  | 3,16 | 3,23 | 3,47 | 3,60 | 3,69 | 3,76 |
|                | 5             | 28,36                | 26,46 | 23,75 | 18,38 | 13,07 | 9,02  | 3,78 | 3,84 | 4,04 | 4,16 | 4,20 | 4,86 |
|                | 7             | 28,47                | 26,41 | 23,71 | 18,36 | 13,06 | 9,54  | 4,29 | 4,38 | 4,50 | 4,66 | 4,74 | 5,31 |
|                | 10            | 28,91                | 26,63 | 23,92 | 18,53 | 13,19 | 10,37 | 4,73 | 4,81 | 4,95 | 5,11 | 5,17 | 5,40 |
|                | 12            | 29,77                | 26,54 | 23,84 | 18,48 | 13,16 | 10,97 | 4,82 | 4,89 | 5,05 | 5,19 | 5,25 | 5,47 |
|                | 15            | 31,05                | 26,40 | 23,72 | 18,40 | 13,12 | 11,88 | 4,94 | 5,01 | 5,20 | 5,31 | 5,39 | 5,57 |
|                | 20            | 31,20                | 26,36 | 23,71 | 18,38 | 13,57 | /     | 5,05 | 5,10 | 5,33 | 5,44 | 5,64 | /    |
| 25             | 31,25         | 26,25                | 23,60 | 18,35 | 15,47 | /     | 5,12  | 5,18 | 5,44 | 5,53 | 5,68 | /    |      |
| 30             | 30,93         | 26,51                | 23,83 | 18,53 | 17,61 | /     | 5,35  | 5,43 | 5,46 | 5,48 | 5,73 | /    |      |
| 35             | /             | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 35             | -25           | /                    | 12,71 | 10,09 | 8,78  | 6,21  | 3,72  | /    | 2,00 | 2,06 | 2,10 | 2,18 | 2,25 |
|                | -20           | /                    | 15,01 | 11,92 | 10,37 | 7,34  | 4,40  | /    | 2,16 | 2,26 | 2,33 | 2,39 | 2,42 |
|                | -15           | /                    | 17,62 | 13,99 | 12,18 | 8,63  | 5,18  | /    | 2,39 | 2,52 | 2,61 | 2,70 | 2,74 |
|                | -10           | /                    | 20,10 | 16,17 | 14,21 | 10,07 | 6,05  | /    | 2,53 | 2,67 | 2,78 | 2,85 | 2,91 |
|                | -7            | /                    | 21,96 | 18,12 | 16,20 | 11,48 | 6,91  | /    | 2,74 | 2,79 | 2,82 | 2,94 | 3,00 |
|                | -5            | /                    | 22,74 | 18,07 | 15,73 | 11,15 | 6,69  | /    | 2,77 | 2,89 | 2,98 | 3,08 | 3,19 |
|                | -2            | /                    | 23,49 | 18,67 | 16,26 | 11,53 | 7,00  | /    | 2,80 | 2,93 | 3,02 | 3,10 | 3,21 |
|                | 0             | /                    | 24,05 | 19,12 | 16,65 | 11,81 | 7,12  | /    | 2,82 | 2,97 | 3,10 | 3,16 | 3,26 |
|                | 2             | 25,59                | 24,65 | 19,65 | 17,48 | 12,40 | 7,61  | 2,81 | 2,96 | 3,09 | 3,25 | 3,34 | 3,41 |
|                | 5             | 27,72                | 25,84 | 20,58 | 17,95 | 12,76 | 8,83  | 3,42 | 3,48 | 3,66 | 3,80 | 3,84 | 4,56 |
|                | 7*            | 27,90                | 26,00 | 20,89 | 18,33 | 13,03 | 9,33  | 3,99 | 4,08 | 4,24 | 4,37 | 4,41 | 5,06 |
|                | 10            | 28,45                | 26,76 | 21,33 | 18,61 | 13,25 | 10,14 | 4,24 | 4,32 | 4,48 | 4,61 | 4,64 | 5,18 |
|                | 12            | 29,30                | 26,00 | 21,28 | 18,58 | 13,23 | 10,73 | 4,37 | 4,44 | 4,60 | 4,73 | 4,78 | 5,18 |
|                | 15            | 30,58                | 26,59 | 21,22 | 18,53 | 13,21 | 11,63 | 4,56 | 4,62 | 4,79 | 4,93 | 5,00 | 5,18 |
|                | 20            | 30,96                | 26,38 | 21,05 | 18,39 | 13,28 | /     | 4,72 | 4,77 | 4,96 | 5,12 | 5,31 | /    |
| 25             | 30,91         | 26,11                | 20,87 | 18,25 | 15,12 | /     | 4,82  | 4,88 | 5,07 | 5,23 | 5,38 | /    |      |
| 30             | 30,94         | 26,20                | 20,94 | 18,31 | 17,19 | /     | 4,94  | 5,03 | 5,05 | 5,07 | 5,32 | /    |      |
| 35             | 30,76         | 26,32                | 21,79 | 19,52 | 19,52 | /     | 5,38  | 5,41 | 5,52 | 5,60 | 5,60 | /    |      |
| 40             | -25           | /                    | 14,87 | 11,44 | 9,72  | 6,88  | 4,04  | /    | 2,05 | 2,07 | 2,08 | 2,14 | 2,17 |
|                | -20           | /                    | 16,49 | 13,09 | 11,40 | 8,07  | 4,74  | /    | 2,10 | 2,25 | 2,38 | 2,46 | 2,51 |
|                | -15           | /                    | 19,21 | 15,26 | 13,29 | 9,42  | 5,54  | /    | 2,31 | 2,47 | 2,61 | 2,68 | 2,74 |
|                | -10           | /                    | 20,05 | 16,37 | 14,53 | 10,30 | 6,06  | /    | 2,35 | 2,54 | 2,68 | 2,80 | 2,86 |
|                | -7            | /                    | 21,28 | 16,91 | 14,73 | 10,44 | 6,23  | /    | 2,39 | 2,60 | 2,78 | 2,88 | 2,99 |
|                | -5            | /                    | 22,45 | 17,84 | 15,54 | 11,02 | 6,59  | /    | 2,42 | 2,62 | 2,78 | 2,86 | 2,97 |
|                | -2            | /                    | 23,75 | 18,88 | 16,44 | 11,66 | 6,98  | /    | 2,51 | 2,71 | 2,87 | 2,94 | 3,04 |
|                | 0             | 25,12                | 24,77 | 19,69 | 17,15 | 12,16 | 7,44  | 2,59 | 2,66 | 2,85 | 3,01 | 3,10 | 3,17 |
|                | 5             | 27,07                | 25,65 | 20,43 | 17,82 | 12,66 | 8,76  | 3,40 | 3,46 | 3,64 | 3,78 | 3,83 | 4,12 |
|                | 7             | 26,89                | 26,70 | 21,12 | 18,33 | 13,03 | 9,25  | 3,61 | 3,73 | 3,89 | 4,02 | 4,09 | 4,49 |
|                | 10            | 27,94                | 26,92 | 21,15 | 18,26 | 12,99 | 9,93  | 3,78 | 3,95 | 4,10 | 4,22 | 4,28 | 4,56 |
|                | 12            | 28,88                | 26,70 | 21,11 | 18,31 | 13,04 | 10,50 | 3,89 | 4,02 | 4,18 | 4,30 | 4,37 | 4,62 |
|                | 15            | 30,30                | 26,38 | 21,05 | 18,38 | 13,10 | 11,36 | 4,06 | 4,12 | 4,30 | 4,44 | 4,51 | 4,71 |
|                | 20            | 31,17                | 26,18 | 20,89 | 18,25 | 12,95 | /     | 4,32 | 4,37 | 4,50 | 4,61 | 4,84 | /    |
|                | 25            | 30,20                | 26,36 | 21,04 | 18,38 | 14,74 | /     | 4,39 | 4,45 | 4,56 | 4,64 | 4,90 | /    |
| 30             | 30,17         | 26,32                | 21,04 | 18,40 | 16,74 | /     | 4,75  | 4,82 | 4,85 | 4,88 | 5,10 | /    |      |
| 35             | 30,43         | 26,23                | 21,40 | 18,99 | 18,99 | /     | 4,95  | 5,00 | 5,09 | 5,16 | 5,16 | /    |      |

| "Tw_out<br>°C" | "DB/WB<br>°C" | Heating Capacity [W] |       |       |       |       |       | COP  |      |      |      |      |      |
|----------------|---------------|----------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%   | 30%   | 130% | 100% | 90%  | 70%  | 50%  | 30%  |
| 45             | -25           | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    | /    |
|                | -20           | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    | /    |
|                | -15           | /                    | 16,60 | 14,88 | 11,47 | 8,12  | 4,75  | /    | 1,95 | 2,06 | 2,23 | 2,32 | 2,36 |
|                | -10           | /                    | 19,32 | 17,32 | 13,36 | 9,46  | 5,54  | /    | 2,10 | 2,25 | 2,40 | 2,48 | 2,54 |
|                | -7            | /                    | 21,00 | 20,82 | 16,05 | 11,37 | 6,76  | /    | 2,15 | 2,36 | 2,49 | 2,61 | 2,67 |
|                | -5            | 23,50                | 23,18 | 20,78 | 16,02 | 11,35 | 6,82  | 2,17 | 2,19 | 2,39 | 2,58 | 2,68 | 2,78 |
|                | -2            | 23,62                | 23,29 | 20,88 | 16,11 | 11,42 | 6,93  | 2,20 | 2,25 | 2,49 | 2,62 | 2,69 | 2,80 |
|                | 0             | 24,64                | 24,29 | 21,77 | 16,80 | 11,91 | 7,33  | 2,23 | 2,30 | 2,55 | 2,65 | 2,72 | 2,82 |
|                | 2             | 25,08                | 24,00 | 23,42 | 18,08 | 12,81 | 8,08  | 2,28 | 2,35 | 2,56 | 2,70 | 2,79 | 2,85 |
|                | 5             | 27,00                | 26,32 | 23,62 | 18,26 | 12,97 | 8,32  | 2,97 | 3,02 | 3,23 | 3,35 | 3,39 | 3,69 |
|                | 7             | 27,08                | 26,00 | 23,86 | 18,46 | 13,11 | 8,79  | 3,02 | 3,10 | 3,26 | 3,43 | 3,50 | 3,98 |
|                | 10            | 27,91                | 26,27 | 23,59 | 18,26 | 12,99 | 9,69  | 3,27 | 3,35 | 3,55 | 3,71 | 3,75 | 4,06 |
|                | 12            | 28,47                | 26,21 | 23,53 | 18,23 | 12,98 | 10,24 | 3,37 | 3,44 | 3,65 | 3,79 | 3,83 | 4,11 |
|                | 15            | 29,32                | 26,11 | 23,45 | 18,18 | 12,96 | 11,07 | 3,53 | 3,59 | 3,79 | 3,90 | 3,96 | 4,17 |
|                | 20            | 30,43                | 26,30 | 23,63 | 18,33 | 13,07 | 12,61 | 3,74 | 3,79 | 3,92 | 4,03 | 4,06 | 4,27 |
| 25             | 30,28         | 26,33                | 23,69 | 18,36 | 14,33 | 14,33 | 3,93  | 3,99 | 4,09 | 4,18 | 4,44 | 4,44 |      |
| 30             | 30,34         | 26,09                | 23,45 | 18,23 | 16,25 | 16,25 | 4,17  | 4,24 | 4,28 | 4,30 | 4,52 | 4,52 |      |
| 35             | 30,68         | 26,03                | 23,40 | 18,41 | 18,41 | 18,41 | 4,55  | 4,59 | 4,61 | 4,63 | 4,75 | 4,75 |      |
| 50             | -25           | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    | /    |
|                | -20           | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    | /    |
|                | -15           | /                    | 16,26 | 14,57 | 11,23 | 7,95  | 4,61  | /    | 1,72 | 1,85 | 1,94 | 1,99 | 2,03 |
|                | -10           | /                    | 18,89 | 16,93 | 13,06 | 9,25  | 5,36  | /    | 1,74 | 1,92 | 2,04 | 2,10 | 2,16 |
|                | -7            | /                    | 21,34 | 19,12 | 14,75 | 10,44 | 6,11  | /    | 1,87 | 2,11 | 2,24 | 2,30 | 2,35 |
|                | -5            | 21,90                | 21,60 | 19,35 | 14,93 | 10,57 | 6,27  | 1,89 | 1,91 | 2,13 | 2,28 | 2,39 | 2,49 |
|                | -2            | 22,75                | 22,43 | 20,10 | 15,51 | 10,99 | 6,61  | 1,99 | 2,01 | 2,27 | 2,38 | 2,52 | 2,65 |
|                | 0             | 23,71                | 23,37 | 20,95 | 16,16 | 11,45 | 7,00  | 2,08 | 2,12 | 2,38 | 2,51 | 2,62 | 2,73 |
|                | 2             | 24,69                | 24,33 | 21,81 | 16,83 | 11,92 | 7,46  | 2,30 | 2,30 | 2,58 | 2,73 | 2,85 | 2,98 |
|                | 5             | 26,45                | 26,00 | 23,33 | 18,04 | 12,81 | 8,24  | 2,36 | 2,41 | 2,65 | 2,75 | 2,85 | 3,24 |
|                | 7             | 26,80                | 26,31 | 23,61 | 18,26 | 12,97 | 8,40  | 2,73 | 2,82 | 2,99 | 3,05 | 3,10 | 3,46 |
|                | 10            | 27,26                | 26,16 | 23,49 | 18,18 | 12,93 | 9,43  | 3,10 | 3,14 |      |      |      |      |

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

## IDOLA M 3.2 Mod. 30T - Prestazioni riscaldamento / Heating capacity

| *Tw_out<br>°C | *DB/WB<br>°C | Heating Capacity [W] |       |       |       |       |       | COP  |      |      |      |      |      |
|---------------|--------------|----------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
|               |              | 130%                 | 100%  | 90%   | 70%   | 50%   | 30%   | 130% | 100% | 90%  | 70%  | 50%  | 30%  |
| 25            | -25          | /                    | 12,91 | 11,57 | 8,92  | 6,31  | 3,85  | /    | 2,32 | 2,35 | 2,42 | 2,50 | 2,60 |
|               | -20          | /                    | 15,28 | 13,69 | 10,56 | 7,48  | 4,57  | /    | 2,53 | 2,57 | 2,70 | 2,75 | 2,86 |
|               | -15          | /                    | 17,83 | 15,98 | 12,33 | 8,74  | 5,33  | /    | 2,70 | 2,97 | 3,14 | 3,22 | 3,32 |
|               | -10          | /                    | 20,84 | 18,69 | 14,42 | 10,23 | 6,24  | /    | 2,85 | 3,00 | 3,15 | 3,22 | 3,34 |
|               | -7           | /                    | 21,96 | 20,15 | 15,56 | 11,04 | 6,72  | /    | 2,92 | 3,27 | 3,40 | 3,35 | 3,62 |
|               | -5           | /                    | 23,11 | 20,72 | 16,00 | 11,35 | 6,91  | /    | 2,96 | 3,15 | 3,33 | 3,43 | 3,62 |
|               | -2           | /                    | 24,23 | 21,73 | 16,78 | 11,91 | 7,24  | /    | 3,01 | 3,17 | 3,30 | 3,37 | 3,59 |
|               | 0            | /                    | 25,26 | 22,66 | 17,50 | 12,42 | 7,53  | /    | 3,23 | 3,40 | 3,50 | 3,57 | 3,77 |
|               | 2            | /                    | 26,59 | 23,85 | 18,42 | 13,07 | 7,92  | /    | 3,61 | 3,84 | 3,97 | 4,06 | 4,13 |
|               | 5            | 30,47                | 29,12 | 26,13 | 20,22 | 14,37 | 9,18  | 4,12 | 4,17 | 4,37 | 4,49 | 4,53 | 5,31 |
|               | 7            | 30,49                | 29,98 | 26,92 | 20,83 | 14,81 | 9,71  | 4,56 | 4,61 | 4,73 | 4,90 | 4,97 | 5,73 |
|               | 10           | 31,31                | 30,16 | 27,08 | 20,97 | 14,93 | 10,56 | 5,22 | 5,30 | 5,44 | 5,59 | 5,66 | 6,00 |
|               | 12           | 31,79                | 30,05 | 26,99 | 20,92 | 14,90 | 11,18 | 5,25 | 5,32 | 5,48 | 5,62 | 5,69 | 6,06 |
|               | 15           | 32,50                | 29,89 | 26,85 | 20,83 | 14,86 | 12,11 | 5,29 | 5,36 | 5,55 | 5,66 | 5,74 | 6,15 |
|               | 20           | 33,71                | 30,08 | 27,03 | 20,97 | 14,96 | 13,85 | 5,44 | 5,49 | 5,73 | 5,84 | 5,86 | 6,21 |
|               | 25           | 34,27                | 29,53 | 26,56 | 20,60 | 15,80 | /     | 5,53 | 5,59 | 5,85 | 5,94 | 6,24 | /    |
| 30            | /            | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 35            | /            | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 30            | -25          | /                    | 12,77 | 11,44 | 8,82  | 6,24  | 3,77  | /    | 2,12 | 2,15 | 2,22 | 2,30 | 2,40 |
|               | -20          | /                    | 15,10 | 13,53 | 10,43 | 7,39  | 4,47  | /    | 2,29 | 2,33 | 2,46 | 2,51 | 2,62 |
|               | -15          | /                    | 17,74 | 15,90 | 12,26 | 8,69  | 5,26  | /    | 2,62 | 2,67 | 2,84 | 2,92 | 3,01 |
|               | -10          | /                    | 20,72 | 18,56 | 14,33 | 10,15 | 6,15  | /    | 2,66 | 2,76 | 2,92 | 2,99 | 3,11 |
|               | -7           | /                    | 22,32 | 20,01 | 15,44 | 10,95 | 6,61  | /    | 2,72 | 2,92 | 3,05 | 3,16 | 3,27 |
|               | -5           | /                    | 23,21 | 20,57 | 15,88 | 11,26 | 6,80  | /    | 2,77 | 2,92 | 3,10 | 3,20 | 3,38 |
|               | -2           | /                    | 24,04 | 21,55 | 16,64 | 11,80 | 7,12  | /    | 2,80 | 2,96 | 3,09 | 3,16 | 3,38 |
|               | 0            | /                    | 25,04 | 22,46 | 17,34 | 12,30 | 7,40  | /    | 2,96 | 3,12 | 3,23 | 3,30 | 3,49 |
|               | 2            | /                    | 26,35 | 23,63 | 18,25 | 12,95 | 7,79  | /    | 3,15 | 3,39 | 3,52 | 3,61 | 3,68 |
|               | 5            | /                    | 30,12 | 26,23 | 20,29 | 14,42 | 9,02  | /    | 3,68 | 3,94 | 4,05 | 4,10 | 4,86 |
|               | 7            | 30,11                | 30,11 | 27,02 | 20,91 | 14,86 | 9,54  | 4,12 | 4,21 | 4,33 | 4,49 | 4,57 | 5,31 |
|               | 10           | 30,88                | 30,02 | 26,96 | 20,87 | 14,85 | 10,37 | 4,63 | 4,71 | 4,84 | 5,00 | 5,06 | 5,40 |
|               | 12           | 31,33                | 30,00 | 26,94 | 20,87 | 14,87 | 10,97 | 4,66 | 4,73 | 4,89 | 5,03 | 5,10 | 5,47 |
|               | 15           | 32,01                | 29,97 | 26,92 | 20,87 | 14,89 | 11,88 | 4,71 | 4,78 | 4,97 | 5,08 | 5,16 | 5,57 |
|               | 20           | 33,14                | 29,96 | 26,92 | 20,88 | 14,90 | 13,57 | 4,87 | 4,92 | 5,09 | 5,20 | 5,22 | 5,64 |
|               | 25           | 33,83                | 29,72 | 26,73 | 20,72 | 15,47 | /     | 4,97 | 5,03 | 5,17 | 5,25 | 5,68 | /    |
| 30            | 34,82        | 29,26                | 26,30 | 20,45 | 17,61 | /     | 5,24  | 5,32 | 5,35 | 5,37 | 5,73 | /    |      |
| 35            | /            | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 35            | -25          | /                    | 12,71 | 10,09 | 8,78  | 6,21  | 3,72  | /    | 1,97 | 2,02 | 2,06 | 2,14 | 2,25 |
|               | -20          | /                    | 15,01 | 11,92 | 10,37 | 7,34  | 4,40  | /    | 2,09 | 2,18 | 2,26 | 2,31 | 2,42 |
|               | -15          | /                    | 17,62 | 13,99 | 12,18 | 8,63  | 5,18  | /    | 2,35 | 2,47 | 2,57 | 2,65 | 2,74 |
|               | -10          | /                    | 20,55 | 16,32 | 14,21 | 10,07 | 6,05  | /    | 2,53 | 2,64 | 2,72 | 2,80 | 2,91 |
|               | -7           | /                    | 22,38 | 18,23 | 16,16 | 11,45 | 6,91  | /    | 2,71 | 2,75 | 2,77 | 2,89 | 3,00 |
|               | -5           | /                    | 22,94 | 18,13 | 15,73 | 11,15 | 6,69  | /    | 2,73 | 2,83 | 2,91 | 3,01 | 3,19 |
|               | -2           | /                    | 23,85 | 18,93 | 16,47 | 11,68 | 7,00  | /    | 2,75 | 2,84 | 2,91 | 2,99 | 3,21 |
|               | 0            | /                    | 24,79 | 19,70 | 17,16 | 12,17 | 7,12  | /    | 2,77 | 2,90 | 3,00 | 3,07 | 3,26 |
|               | 2            | /                    | 26,00 | 20,70 | 18,05 | 12,79 | 7,61  | /    | 2,80 | 3,00 | 3,17 | 3,26 | 3,41 |
|               | 5            | 29,72                | 28,83 | 22,95 | 20,01 | 14,21 | 8,83  | 3,32 | 3,37 | 3,55 | 3,70 | 3,74 | 4,56 |
|               | 7*           | 30,25                | 30,10 | 23,95 | 20,87 | 14,83 | 9,33  | 3,85 | 3,91 | 4,07 | 4,20 | 4,27 | 5,06 |
|               | 10           | 30,40                | 29,83 | 23,77 | 20,73 | 14,75 | 10,14 | 4,16 | 4,21 | 4,38 | 4,50 | 4,57 | 5,18 |
|               | 12           | 30,81                | 29,95 | 23,87 | 20,82 | 14,81 | 10,73 | 4,22 | 4,28 | 4,49 | 4,58 | 4,65 | 5,18 |
|               | 15           | 31,46                | 30,12 | 24,01 | 20,95 | 14,91 | 11,63 | 4,30 | 4,39 | 4,56 | 4,70 | 4,77 | 5,18 |
|               | 20           | 32,52                | 30,18 | 24,08 | 21,03 | 15,00 | 13,28 | 4,52 | 4,60 | 4,79 | 4,94 | 4,96 | 5,31 |
|               | 25           | 33,58                | 30,00 | 23,95 | 20,92 | 15,12 | /     | 4,67 | 4,73 | 4,93 | 5,08 | 5,38 | /    |
| 30            | 34,06        | 30,20                | 24,15 | 21,12 | 17,19 | /     | 4,86  | 4,92 | 4,94 | 4,96 | 5,32 | /    |      |
| 35            | 34,22        | 30,09                | 24,05 | 21,03 | 19,52 | /     | 5,19  | 5,23 | 5,26 | 5,28 | 5,60 | /    |      |
| 35            | /            | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |
| 40            | -25          | /                    | 14,06 | 11,17 | 9,72  | 6,88  | 4,04  | /    | 1,87 | 1,98 | 2,07 | 2,13 | 2,17 |
|               | -20          | /                    | 16,49 | 13,09 | 11,40 | 8,07  | 4,74  | /    | 2,05 | 2,20 | 2,33 | 2,41 | 2,51 |
|               | -15          | /                    | 19,21 | 15,26 | 13,29 | 9,42  | 5,54  | /    | 2,25 | 2,41 | 2,55 | 2,62 | 2,74 |
|               | -10          | /                    | 21,00 | 16,69 | 14,53 | 10,30 | 6,06  | /    | 2,29 | 2,48 | 2,63 | 2,75 | 2,86 |
|               | -7           | /                    | 22,50 | 17,87 | 15,56 | 11,03 | 6,23  | /    | 2,35 | 2,56 | 2,74 | 2,78 | 2,93 |
|               | -5           | /                    | 23,54 | 18,70 | 16,28 | 11,54 | 6,59  | /    | 2,36 | 2,56 | 2,75 | 2,80 | 2,97 |
|               | -2           | /                    | 24,50 | 19,47 | 16,95 | 12,02 | 6,98  | /    | 2,42 | 2,61 | 2,77 | 2,84 | 3,04 |
|               | 0            | /                    | 25,75 | 20,46 | 17,82 | 12,63 | 7,48  | /    | 2,56 | 2,75 | 2,91 | 3,00 | 3,07 |
|               | 2            | 29,27                | 28,38 | 22,59 | 19,69 | 13,99 | 8,76  | 3,19 | 3,24 | 3,42 | 3,57 | 3,61 | 4,12 |
|               | 5            | 29,83                | 29,83 | 23,74 | 20,70 | 14,71 | 9,25  | 3,41 | 3,49 | 3,68 | 3,82 | 3,89 | 4,49 |
|               | 7            | 30,42                | 29,86 | 23,78 | 20,74 | 14,75 | 9,93  | 3,66 | 3,74 | 3,94 | 4,10 | 4,16 | 4,56 |
|               | 10           | 30,59                | 29,73 | 23,68 | 20,67 | 14,70 | 10,50 | 3,77 | 3,85 | 4,04 | 4,19 | 4,26 | 4,62 |
|               | 12           | 30,85                | 29,53 | 23,54 | 20,55 | 14,61 | 11,36 | 3,95 | 4,01 | 4,19 | 4,33 | 4,40 | 4,71 |
|               | 15           | 31,84                | 29,62 | 23,59 | 20,57 | 14,67 | 12,95 | 4,19 | 4,24 | 4,37 | 4,48 | 4,52 | 4,84 |
|               | 20           | 33,00                | 29,31 | 23,39 | 20,43 | 14,74 | /     | 4,30 | 4,36 | 4,47 | 4,55 | 4,90 | /    |
|               | 25           | 33,74                | 29,65 | 23,71 | 20,74 | 16,74 | /     | 4,66 | 4,73 | 4,76 | 4,79 | 5,10 | /    |
| 30            | 33,59        | 29,61                | 23,67 | 20,69 | 18,99 | /     | 4,82  | 4,87 | 4,90 | 4,92 | 5,16 | /    |      |
| 35            | /            | /                    | /     | /     | /     | /     | /     | /    | /    | /    | /    | /    |      |

| *Tw_out<br>°C | *DB/WB<br>°C | Heating Capacity [W] |              |       |       |       |       | COP  |             |      |      |      |      |
|---------------|--------------|----------------------|--------------|-------|-------|-------|-------|------|-------------|------|------|------|------|
|               |              | 130%                 | 100%         | 90%   | 70%   | 50%   | 30%   | 130% | 100%        | 90%  | 70%  | 50%  | 30%  |
| 45            | -25          | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |
|               | -20          | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |
|               | -15          | /                    | 16,60        | 14,88 | 11,47 | 8,12  | 4,75  | /    | 1,90        | 2,01 | 2,18 | 2,27 | 2,36 |
|               | -10          | /                    | 19,32        | 17,32 | 13,36 | 9,46  | 5,54  | /    | 2,05        | 2,19 | 2,35 | 2,42 | 2,54 |
|               | -7           | /                    | 22,00        | 20,49 | 15,80 | 11,19 | 6,76  | /    | 2,10        | 2,31 | 2,44 | 2,56 | 2,67 |
|               | -5           | /                    | 22,22        | 19,91 | 15,36 | 10,88 | 6,82  | /    | 2,15        | 2,35 | 2,53 | 2,63 | 2,78 |
|               | -2           | /                    | 23,42        | 20,99 | 16,19 | 11,47 | 6,93  | /    | 2,19        | 2,43 | 2,56 | 2,63 | 2,80 |
|               | 0            | /                    | 24,36        | 21,84 | 16,85 | 11,94 | 7,33  | /    | 2,20        | 2,45 | 2,56 | 2,63 | 2,82 |
|               | 2            | /                    | 26,00        | 25,37 | 19,57 | 13,87 | 8,25  | /    | 2,25        | 2,46 | 2,60 | 2,69 | 2,75 |
|               | 5            | 28,77                | 28,77        | 25,02 | 19,34 | 13,74 | 8,32  | 2,75 | 2,75        | 3,01 | 3,13 | 3,17 | 3,69 |
|               | 7            | 30,14                | <b>30,00</b> | 26,78 | 20,70 | 14,70 | 8,79  | 2,86 | <b>2,90</b> | 3,06 | 3,23 | 3,30 | 3,98 |
|               | 10           | 30,36                | 29,82        | 26,76 | 20,70 | 14,72 | 9,69  | 3,16 | 3,24        | 3,44 | 3,60 | 3,66 | 4,06 |
|               | 12           | 30,29                | 29,70        | 26,66 | 20,63 | 14,67 | 10,24 | 3,26 | 3,33        | 3,53 | 3,67 | 3,74 | 4,11 |
|               | 15           | 30,18                | 29,53        | 26,51 | 20,53 | 14,60 | 11,07 | 3,42 | 3,48        | 3,68 | 3,79 | 3,87 | 4,17 |
|               | 20           | 31,69                | 29,58        | 26,57 | 20,60 | 14,69 | 12,61 | 3,61 | 3,66        | 3,79 | 3,90 | 3,95 | 4,27 |
|               | 25           | 32,42                | 29,42        | 26,43 | 20,50 | 14,62 | 14,33 | 3,83 | 3,89        | 4,00 | 4,08 | 4,10 | 4,44 |
| 30            | 33,32        | 29,34                | 26,39        | 20,45 | 16,25 | /     | 4,08  | 4,15 | 4,19        | 4,22 | 4,52 | /    |      |
| 35            | 32,78        | 29,50                | 26,51        | 20,61 | 18,41 | /     | 4,30  | 4,42 | 4,46        | 4,48 | 4,75 | /    |      |
| 35            | /            | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    |      |
| 50            | -25          | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |
|               | -20          | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |
|               | -15          | /                    | 16,26        | 14,57 | 11,23 | 7,95  | 4,61  | /    | 1,69        | 1,82 | 1,91 | 1,96 | 2,03 |
|               | -10          | /                    | 18,89        | 16,93 | 13,06 | 9,25  | 5,36  | /    | 1,73        | 1,91 | 2,02 | 2,09 | 2,16 |
|               | -7           | /                    | 21,34        | 19,12 | 14,75 | 10,44 | 6,11  | /    | 1,85        | 2,09 | 2,22 | 2,28 | 2,35 |
|               | -5           | /                    | 21,90        | 19,62 | 15,13 | 10,72 | 6,27  | /    | 1,87        | 2,09 | 2,24 | 2,35 | 2,49 |
|               | -2           | /                    | 23,06        | 20,67 | 15,94 | 11,29 | 6,61  | /    | 1,97        | 2,23 | 2,35 | 2,48 | 2,65 |
|               | 0            | /                    | 23,97        | 21,48 | 16,57 | 11,74 | 7,00  | /    | 2,07        | 2,33 | 2,46 | 2,57 | 2,73 |
|               | 2            | /                    | 25,75        | 23,08 | 17,80 | 12,61 | 7,40  | /    | 2,27        | 2,55 | 2,70 | 2,82 | 2,95 |
|               | 5            | 28,20                | 27,33        | 24,52 | 18,95 | 13,45 | 8,24  | 2,30 | 2,35        | 2,59 | 2,69 | 2,79 | 3,24 |
|               | 7            | 29,71                | 29,71        | 26,65 | 20,59 | 14,62 | 8,40  | 2,58 | 2,67        |      |      |      |      |



# TABELLE PRESTAZIONALI - MODO RAFFREDDAMENTO / CAPACITY TABLES - COOLING MODE

## IDOLA M 3.2 Mod. 30T - Prestazioni raffreddamento / Cooling capacity

| "Tw_out<br>°C" | "DB/WB<br>°C" | Cooling Capacity [W] |              |       |       |       |       | EER  |             |      |      |      |      |   |
|----------------|---------------|----------------------|--------------|-------|-------|-------|-------|------|-------------|------|------|------|------|---|
|                |               | 130%                 | 100%         | 90%   | 70%   | 50%   | 30%   | 130% | 100%        | 90%  | 70%  | 50%  | 30%  |   |
| 5              | -5            | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    | / |
|                | 0             | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    | / |
|                | 5             | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    | / |
|                | 10            | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    | / |
|                | 15            | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    | / |
|                | 20            | 26.31                | 26.31        | 23.93 | 19.01 | 13.87 | 8.54  | 3.55 | 3.55        | 3.70 | 4.12 | 4.45 | 5.15 |   |
|                | 25            | 31.02                | 30.01        | 27.38 | 21.88 | 16.06 | 9.87  | 2.95 | 3.00        | 3.14 | 3.57 | 3.90 | 4.65 |   |
|                | 30            | 30.32                | 30.32        | 27.80 | 22.44 | 16.62 | 10.42 | 2.45 | 2.45        | 2.58 | 3.00 | 3.37 | 3.72 |   |
|                | 35            | 28.91                | 28.91        | 26.55 | 21.48 | 15.94 | 10.02 | 1.80 | 1.80        | 1.96 | 2.37 | 2.74 | 3.25 |   |
|                | 40            | 22.58                | 22.58        | 20.65 | 16.59 | 12.23 | 7.74  | 1.78 | 1.78        | 1.90 | 2.30 | 2.68 | 3.21 |   |
| 43             | 18.92         | 18.92                | 17.28        | 13.84 | 10.17 | 7.39  | 1.56  | 1.56 | 1.68        | 2.09 | 2.46 | 3.02 |      |   |
| 7              | -5            | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |   |
|                | 0             | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |   |
|                | 5             | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |   |
|                | 10            | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |   |
|                | 15            | 24.25                | 24.25        | 22.02 | 17.37 | 12.66 | 10.18 | 4.45 | 4.45        | 4.60 | 5.10 | 5.27 | 5.65 |   |
|                | 20            | 26.79                | 26.79        | 24.37 | 19.36 | 14.13 | 9.03  | 4.00 | 4.00        | 4.14 | 4.55 | 4.85 | 5.49 |   |
|                | 25            | 31.72                | 30.14        | 27.49 | 21.97 | 16.11 | 9.91  | 3.30 | 3.45        | 3.64 | 4.05 | 4.34 | 5.01 |   |
|                | 30            | 31.45                | 30.08        | 27.57 | 22.24 | 16.46 | 10.31 | 2.82 | 2.98        | 3.18 | 3.60 | 3.89 | 4.30 |   |
|                | 35            | 30.00                | <b>30.00</b> | 27.56 | 22.33 | 16.59 | 10.44 | 2.35 | <b>2.35</b> | 2.60 | 3.02 | 3.29 | 3.78 |   |
|                | 40            | 23.44                | 23.44        | 21.46 | 17.26 | 12.74 | 8.23  | 2.18 | 2.18        | 2.37 | 2.79 | 3.12 | 3.75 |   |
| 43             | 19.66         | 19.66                | 17.97        | 14.41 | 10.60 | 7.85  | 1.95  | 1.95 | 2.17        | 2.57 | 2.94 | 3.40 |      |   |
| 10             | -5            | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |   |
|                | 0             | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |   |
|                | 5             | /                    | /            | /     | /     | /     | /     | /    | /           | /    | /    | /    | /    |   |
|                | 10            | 22.54                | 22.54        | 20.44 | 16.09 | 11.63 | 11.63 | 5.45 | 5.45        | 5.68 | 5.92 | 6.50 | 6.50 |   |
|                | 15            | 26.08                | 26.08        | 23.69 | 18.69 | 13.53 | 10.97 | 4.95 | 4.95        | 5.06 | 5.42 | 5.94 | 6.35 |   |
|                | 20            | 29.22                | 29.22        | 26.60 | 21.16 | 15.46 | 10.72 | 4.42 | 4.42        | 4.54 | 4.90 | 5.21 | 5.81 |   |
|                | 25            | 33.65                | 29.99        | 27.34 | 21.82 | 15.99 | 10.35 | 3.67 | 3.95        | 4.08 | 4.50 | 4.79 | 5.48 |   |
|                | 30            | 33.44                | 30.29        | 27.75 | 22.35 | 16.53 | 10.02 | 3.12 | 3.40        | 3.51 | 3.89 | 4.14 | 4.67 |   |
|                | 35            | 31.86                | 30.41        | 27.93 | 22.61 | 16.79 | 10.56 | 2.70 | 2.90        | 3.04 | 3.43 | 3.71 | 4.22 |   |
|                | 40            | 25.03                | 25.03        | 22.93 | 18.47 | 13.65 | 9.22  | 2.56 | 2.56        | 2.69 | 3.06 | 3.33 | 3.85 |   |
| 43             | 21.29         | 21.29                | 19.49        | 15.66 | 11.55 | 8.80  | 2.32  | 2.32 | 2.48        | 2.82 | 3.14 | 3.63 |      |   |
| 15             | -5            | 23.85                | 23.85        | 21.65 | 16.93 | 13.86 | 13.86 | 7.16 | 7.16        | 7.24 | 7.58 | 8.20 | 8.30 |   |
|                | 0             | 23.45                | 23.45        | 21.27 | 16.64 | 13.59 | 13.59 | 6.75 | 6.75        | 6.83 | 7.15 | 7.80 | 7.90 |   |
|                | 5             | 23.86                | 23.86        | 21.63 | 16.97 | 13.29 | 13.29 | 6.37 | 6.37        | 6.45 | 6.78 | 7.43 | 7.53 |   |
|                | 10            | 25.00                | 25.00        | 22.57 | 17.85 | 12.88 | 12.88 | 6.02 | 6.02        | 6.11 | 6.47 | 7.10 | 7.20 |   |
|                | 15            | 28.37                | 28.37        | 25.79 | 20.36 | 13.75 | 12.48 | 5.52 | 5.52        | 5.62 | 6.02 | 6.45 | 6.85 |   |
|                | 20            | 32.03                | 30.50        | 27.77 | 22.10 | 16.16 | 12.13 | 4.86 | 4.98        | 5.09 | 5.50 | 5.77 | 6.42 |   |
|                | 25            | 35.04                | 30.79        | 28.07 | 22.40 | 16.42 | 11.71 | 4.30 | 4.58        | 4.72 | 5.20 | 5.47 | 6.02 |   |
|                | 30            | 35.61                | 30.75        | 28.17 | 22.68 | 16.77 | 11.61 | 3.65 | 3.99        | 4.11 | 4.56 | 4.76 | 5.26 |   |
|                | 35            | 33.91                | 30.54        | 28.04 | 22.67 | 16.82 | 11.15 | 3.15 | 3.45        | 3.63 | 4.11 | 4.34 | 4.88 |   |
|                | 40            | 26.78                | 26.78        | 24.56 | 19.83 | 14.68 | 10.68 | 3.08 | 3.08        | 3.30 | 3.79 | 3.99 | 4.49 |   |
| 43             | 23.15         | 23.15                | 21.22        | 17.10 | 12.64 | 10.19 | 2.82  | 2.82 | 3.03        | 3.48 | 3.70 | 4.19 |      |   |
| 18             | -5            | 25.88                | 25.88        | 23.51 | 18.39 | 13.82 | 13.82 | 7.28 | 7.28        | 7.36 | 7.69 | 8.44 | 8.54 |   |
|                | 0             | 25.47                | 25.47        | 23.11 | 18.09 | 13.55 | 13.55 | 7.17 | 7.17        | 7.26 | 7.62 | 8.26 | 8.36 |   |
|                | 5             | 25.93                | 25.93        | 23.52 | 18.45 | 13.25 | 13.25 | 6.79 | 6.79        | 6.88 | 7.23 | 7.87 | 7.97 |   |
|                | 10            | 27.15                | 27.15        | 24.52 | 19.42 | 12.85 | 12.85 | 6.48 | 6.48        | 6.59 | 6.93 | 7.56 | 7.66 |   |
|                | 15            | 28.98                | 28.98        | 26.34 | 20.80 | 13.17 | 12.91 | 6.02 | 6.02        | 6.17 | 6.49 | 7.12 | 7.27 |   |
|                | 20            | 33.85                | 30.52        | 27.78 | 22.11 | 16.09 | 12.56 | 5.40 | 5.56        | 5.71 | 6.01 | 6.27 | 6.86 |   |
|                | 25            | 36.36                | 30.96        | 28.22 | 22.52 | 16.50 | 12.12 | 4.68 | 4.98        | 5.19 | 5.61 | 5.89 | 6.49 |   |
|                | 30            | 37.02                | 31.09        | 28.48 | 22.93 | 16.95 | 12.63 | 4.09 | 4.42        | 4.56 | 4.98 | 5.31 | 5.79 |   |
|                | 35*           | 35.23                | <b>31.00</b> | 28.44 | 22.99 | 17.06 | 12.14 | 3.65 | <b>4.00</b> | 4.15 | 4.55 | 4.91 | 5.42 |   |
|                | 40            | 28.21                | 28.21        | 25.91 | 20.96 | 15.55 | 11.62 | 3.58 | 3.58        | 3.72 | 4.14 | 4.45 | 4.89 |   |
| 43             | 25.51         | 25.51                | 23.44        | 18.97 | 14.08 | 10.45 | 3.16  | 3.16 | 3.32        | 3.73 | 4.06 | 4.51 |      |   |
| 20             | -5            | 28.00                | 28.00        | 25.45 | 19.91 | 15.06 | 15.06 | 7.66 | 7.66        | 7.76 | 8.11 | 8.70 | 8.80 |   |
|                | 0             | 27.58                | 27.58        | 25.04 | 19.61 | 14.78 | 14.78 | 7.36 | 7.36        | 7.49 | 7.82 | 8.50 | 8.60 |   |
|                | 5             | 28.09                | 28.09        | 25.50 | 20.01 | 14.47 | 14.47 | 7.15 | 7.15        | 7.27 | 7.58 | 8.26 | 8.36 |   |
|                | 10            | 29.41                | 29.41        | 26.56 | 21.06 | 14.03 | 14.03 | 6.84 | 6.84        | 6.95 | 7.29 | 7.95 | 8.05 |   |
|                | 15            | 30.72                | 30.38        | 27.63 | 21.82 | 13.58 | 13.58 | 6.42 | 6.47        | 6.61 | 6.92 | 7.65 | 7.75 |   |
|                | 20            | 35.66                | 30.23        | 27.51 | 21.88 | 13.72 | 13.21 | 5.85 | 6.09        | 6.29 | 6.64 | 7.34 | 7.48 |   |
|                | 25            | 37.56                | 30.84        | 28.10 | 22.41 | 16.35 | 12.75 | 5.30 | 5.57        | 5.76 | 6.09 | 6.39 | 6.97 |   |
|                | 30            | 38.33                | 31.19        | 28.57 | 22.99 | 16.99 | 13.37 | 4.73 | 5.08        | 5.28 | 5.73 | 6.08 | 6.43 |   |
|                | 35            | 36.30                | 31.05        | 28.50 | 23.04 | 17.09 | 12.84 | 4.26 | 4.55        | 4.70 | 5.18 | 5.50 | 5.96 |   |
|                | 40            | 30.13                | 30.13        | 27.72 | 22.49 | 16.74 | 12.29 | 3.99 | 3.99        | 4.13 | 4.64 | 4.97 | 5.43 |   |
| 43             | 26.63         | 26.63                | 24.49        | 19.86 | 14.77 | 11.73 | 3.55  | 3.55 | 3.72        | 4.17 | 4.44 | 4.89 |      |   |
| 25             | -5            | 29.95                | 29.95        | 27.23 | 21.30 | 17.36 | 17.36 | 7.85 | 7.85        | 7.91 | 8.25 | 8.82 | 8.92 |   |
|                | 0             | 29.52                | 29.52        | 26.82 | 21.00 | 17.07 | 17.07 | 7.70 | 7.70        | 7.75 | 8.07 | 8.57 | 8.67 |   |
|                | 5             | 30.12                | 30.12        | 27.35 | 21.48 | 16.73 | 16.73 | 7.48 | 7.48        | 7.52 | 7.86 | 8.35 | 8.45 |   |
|                | 10            | 30.28                | 30.28        | 27.52 | 21.64 | 16.21 | 16.21 | 7.12 | 7.12        | 7.24 | 7.57 | 8.17 | 8.27 |   |
|                | 15            | 33.80                | 31.64        | 28.59 | 22.74 | 15.69 | 15.69 | 6.73 | 6.88        | 7.03 | 7.39 | 7.99 | 8.09 |   |
|                | 20            | 38.57                | 31.55        | 28.72 | 22.86 | 15.27 | 15.27 | 6.18 | 6.50        | 6.59 | 6.86 | 7.48 | 7.58 |   |
|                | 25            | 39.21                | 31.32        | 28.55 | 22.77 | 14.73 | 14.73 | 5.50 | 5.90        | 6.09 | 6.43 | 7.16 | 7.26 |   |
|                | 30            | 38.34                | 31.06        | 28.43 | 22.87 | 17.12 | 15.18 | 5.02 | 5.42        | 5.50 | 5.85 | 6.08 | 6.44 |   |
|                | 35            | 37.87                | 31.26        | 28.69 | 23.18 | 17.44 | 14.57 | 4.80 | 5.10        | 5.17 | 5.54 | 5.78 | 6.15 |   |
|                | 40            | 31.83                | 31.13        | 28.66 | 23.29 | 17.35 | 13.94 | 4.45 | 4.49        | 4.62 | 4.96 | 5.24 | 5.60 |   |
| 43             | 28.03         | 28.03                | 25.81        | 20.99 | 15.88 | 13.29 | 4.02  | 4.02 | 4.17        | 4.52 | 4.77 | 5.15 |      |   |

\* : Performance values useful for accessing the incentives provided in Italy / Valori prestazionali utili per accedere agli incentivi previsti in Italia









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