



# **TECHNICAL DATA**

**AIR-WATER HEAT PUMPS IGLU® INUIT**

# Technical data of IGLU ® INUIT 6÷16kW air-water heat pumps

|  | Units   | 6 kW              | 9 kW        | 12 kW         | 16 kW      |
|--|---------|-------------------|-------------|---------------|------------|
| <b>Air-water used</b>                                  |         |                   |             |               |            |
| Nominal Heating capacity/ COP (A7/W35) <sup>1)</sup>   | kW/ W/W | 6,0/ 4,92         | 9,0/ 4,81   | 12,0/ 4,63    | 16,0/ 4,26 |
| Nominal Heating capacity/ COP (A2/W35) <sup>2)</sup>   | kW/ W/W | 5,2/ 3,51         | 7,7/ 3,41   | 11,0/ 3,48    | 13,7/ 3,26 |
| Nominal Heating capacity/ COP (A-7/W35) <sup>3)</sup>  | kW/ W/W | 5,5/ 2,75         | 7,9/ 2,72   | 11,3/ 2,76    | 13,8/ 2,53 |
| Nominal Heating capacity/ COP (A7/W45) <sup>4)</sup>   | kW/ W/W | 5,6/ 3,71         | 8,6/ 3,69   | -             | -          |
| Nominal Heating capacity/ COP (A7/W55) <sup>5)</sup>   | kW/ W/W | 5,2/ 2,87         | 8,0/ 2,93   | -             | -          |
| Nominal Cooling capacity/ EER (A35/W18) <sup>6)</sup>  | kW/ W/W | 6,5/ 4,42         | 8,7/ 4,12   | 12,0/ 3,87    | 15,0/ 3,62 |
| Seasonal enr. efficiency $\eta_s$ LWT 35°C/ 55°C       | ETA %   | 180/ 129          | 175/ 127    | 184/ 107      | 173/ 115   |
| <b>Outdoor units</b>                                   |         |                   |             |               |            |
| Water Flow Rate (35°C)                                 | m³/h    | 1.04              | 1.56        | 2.1           | 2.76       |
| Water Flow Rate (55°C)                                 | m³/h    | 0.57              | 0.87        | -             | -          |
| Ambient Temperature, Heating                           | °C      | from -25 to +35   |             |               |            |
| Ambient Temperature, Cooling                           | °C      | from +10 to +46   |             |               |            |
| Ambient Temperature, DHW                               | °C      | from -25 to +43   |             |               |            |
| Compressor Type  |         | BLDC Twin Rotary  |             |               |            |
| Refrigerant Type                                       | kg      | R32               |             | R410A         |            |
| Refrigerant Factory Charging                           | kg      | 0,81              | 0,95        | 2,98          |            |
| Sound Pressure <sup>8)</sup>                           | dBA     | 47                | 49          | 50            | 54         |
| Dimensions (height x width x depth)                    | mm      | 880x638x310       | 940x998x330 | 940x1420x330  |            |
| Weight (without packaging)                             | kg      | 46,5              | 73          | 100           |            |
| <b>Power network connection values</b>                 |         |                   |             |               |            |
| Electrical connections                                 |         | 1F 220÷240V/ 50Hz |             | 3F 400V/ 50Hz |            |
| Compressor rated power, Heating (A7/W35) <sup>1)</sup> | kW      | 1,22              | 1,87        | 2,59          | 3,76       |
| Compressor rated power, Heating (A7/W35) <sup>5)</sup> | kW      | 1,81              | 2,73        | -             | -          |
| Compressor rated power, Cooling (A7/W35) <sup>6)</sup> | kW      | 1,47              | 2,11        | 3,10          | 4,14       |
| Max. current with inrush current limiter               | A       | 20                | 27,5        | 16,1          | 16,1       |
| <b>Piping Connections</b>                              |         |                   |             |               |            |
| Liquid Pipe Connections                                | mm      | 6,35              | 6,35        | 9,52          | 9,52       |
| Gas Pipe Connections                                   | mm      | 15,88             | 15,88       | 15,88         | 15,88      |
| Max.[Equiv.] Piping length (ODU-IDU)                   | m       | 30                | 35          | 50            | 50         |
| <b>Indoor units</b>                                    |         |                   |             |               |            |
| Ambient Temperature                                    | °C      | from +5 to +35    |             |               |            |
| Min. flow temperature                                  | °C      | 15                |             |               |            |
| Max. flow temperature <sup>7)</sup>                    | °C      | 65                |             |               |            |
| Sound Pressure <sup>8)</sup>                           | dBA     | 26                |             |               |            |
| Dimensions (height x width x depth)                    | mm      | 1650 x 600 x 625  |             |               |            |
| Weight (without packaging)                             | kg      | 135               | 140         | 142           | 145        |
| DHW volume   | l       | 200               |             |               |            |
| Electric heater power                                  | kW      | 3 / 6 / 9         |             |               |            |

1) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]

2) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air 2°CDB

3) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air -7°CDB

4) A2W Condition: (Heating) Water In/Out 40°C/45°C, Outdoor Air 7°CDB

5) A2W Condition: (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°CDB

6) A2W Condition: (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

7) 65°C down to +10°C (max. 60°C down to -5°C)

8) Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

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