

# Pro Elyo Inverboost NN



AIR/WATER HEAT PUMPS, FOR OUTDOOR INSTALLATION

ASTRALPOOL 



AstralPool Toolbox  
app for IOS and Android



Fluidra Connect  
compatible



PRO ELYO INVERBOOST NN

## KEY BENEFITS

- **Full inverter technology:** silent and energy saving
- **8 power levels** from 7 kW to 35 Kw\*
- **-20°C lowest outdoor air** working temperature

\*Temperature conditions of 28°C Air / 28°C Water / 80% Humidity

## TECHNICAL TIPS

### 1. FULL INVERTER TECHNOLOGY

Inverter technology enables a heat pump to change its power mode depending on the temperature of the pool water and the weather conditions. It therefore runs to achieve the best energy efficiency at the lowest noise level.

#### 3 operating modes:

**Silent:** Ideal to maintain the temperature or at night time

- Heat Pump works at low power setting
- Compressor operates on low speed ranges to minimize energy consumption
- Lowest noise and Highest COP

#### **Smart:** Normal use

- Compressor operates smartly from low to high speeds
- Reduced noise and energy consumption

**Powerful:** Ideal to begin the season or to operate in cold conditions

- Heat Pump runs at high power setting
- Compressor operates on high speed ranges to heat the pool faster
- Maximum heating power

### 2. AUTOMATIC HEAT / COOL MODE

The heat pump will switch automatically from heat to cool mode to stabilize the temperature at the desired target.

## INCLUDED ACCESSORIES

- 1 x Winter Cover
- 4 x Anti-vibrations feet
- 3 x Water nozzles
- 1 x 4-way connection
- 4 x Drain hoses
- 1 x 10m Signal wire (to connect the screen remotely)
- 1 x screen waterproof box
- 1 x 10m Modbus signal wire (to connect the Heat Pump to the Connect Box)
- 2 x PVC fittings ½ unions 50

## OPTIONAL ACCESSORIES

- By-pass kit

## COMPLEMENTARY INFORMATION

- Check out our Website: <http://www.fluidra.com> or <https://www.astralpool.com>
- Check out our Astralpool configurator to select the best heat pumps according to your need: <https://www.astralpool.com>

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[www.astralpool.com](http://www.astralpool.com)

# Pro Elyo Inverboost NN



AIR/WATER HEAT PUMPS, FOR OUTDOOR INSTALLATION



## TECHNICAL CHARACTERISTICS - Pro Elyo Inverboost NN

| MODELS          |  | 7 kW<br>PRO ELYO<br>INVERBOOST<br>NN | 9 kW<br>PRO ELYO<br>INVERBOOST<br>NN | 11 kW<br>PRO ELYO<br>INVERBOOST<br>NN | 14 kW<br>PRO ELYO<br>INVERBOOST<br>NN | 16 kW<br>PRO ELYO<br>INVERBOOST<br>NN | 20 kW<br>PRO ELYO<br>INVERBOOST<br>NN | 26 kW<br>PRO ELYO<br>INVERBOOST NN | 26 kW Tri<br>PRO ELYO<br>INVERBOOST<br>NN | 35 kW<br>PRO ELYO<br>INVERBOOST<br>NN | 35 Kw Tri<br>PRO ELYO<br>INVERBOOST<br>NN |      |     |
|-----------------|--|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|---|---------------------------------------|---|------|-----|
| CODES           |  | 71676                                | 71677                                | 71678                                 | 71679                                 | 71680                                 | 71681                                 | 71682                              | 68821                                     | 68822                                 | 68823                                     |      |     |
| GENERAL DATA    | Indicative pool volume <sup>(1)</sup>          | m <sup>3</sup>                       | ≤ 26                                 | ≤ 35                                  | ≤ 60                                  | ≤ 66                                  | ≤ 85                                  | ≤ 120                              | ≤ 132                                     | ≤ 135                                 | ≤ 160                                     |      |     |
|                 | Refrigerant fluid                              |                                      | R32                                  |                                       |                                       |                                       |                                       |                                    | R410A                                     |                                       |   |      |     |
|                 | Refrigerant fluid quantity                     | Kg                                   | 0,65                                 | 0,7                                   | 0,75                                  | 1,1                                   | 1,5                                   | 1,9                                | 2   | 3,8                                   | 4   |      |     |
|                 | Defrosting mode                                |                                      | Reverse cycle                        |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Cooling mode                                   |                                      | √ (Automatic)                        |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Heating priority (filtration control)          |                                      | √                                    |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Average water flow                             | m <sup>3</sup> /h                    | 2,5                                  | 3                                     | 3,7                                   | 4                                     | 5                                     | 6                                  | 8   | 12                                    |   |      |     |
|                 | Water pressure loss                            | Kpa(Bar)                             | 12                                   |                                       | 14                                    | 15                                    |                                       | 18                                 | 20  |                                       | 25  |      |     |
|                 | Net weight                                     | kg                                   | 56                                   | 68                                    | 73                                    | 78                                    | 98                                    | 117                                | 128                                       |                                       | 130                                       |      |     |
|                 | Gross weight                                   | kg                                   | 68                                   | 73                                    | 78                                    | 83                                    | 113                                   | 135                                | 146                                       |                                       | 148                                       |      |     |
|                 | Net dimension (WxDxH)                          | mm                                   | 1008x380x577                         |                                       | 1050x440x709                          |                                       |                                       | 1050x450x870                       |   | 1050x452x1295                         | 1050x460x1285                             |      |     |
|                 | Packing dim. (WxDxH)                           | mm                                   | 1095x430x705                         |                                       | 1130x470x850                          |                                       |                                       | 1140x480x1010                      |   | 1130x515x1430                         | 1140x500x1435                             |      |     |
| INSTALLATION    | Air blowing                                    |                                      | Horizontal                           |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Outdoor / Indoor installation                  |                                      | Outdoor                              |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Hydraulic connection                           | mm                                   | Ø 50                                 |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Power cable length                             | m                                    | X                                    |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Recommended power cable section <sup>(2)</sup> |                                      | 3x1,5                                |                                       | 3x2,5                                 |                                       |                                       | 3x4                                |   | 5x2,5                                 | 3x6                                       | 5x4  |     |
| ELECTRICAL DATA | Maximum operating current                      | A                                    | 6,5                                  | 8                                     | 10                                    | 13                                    | 15                                    | 18,5                               | 23,5                                      | 9                                     | 32  | 11,5 |     |
|                 | Starting current                               | A                                    | - (Inverter, Soft Start)             |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Rated current                                  | A                                    | 4.6                                  | 5.9                                   | 7.2                                   | 9.2                                   | 10.5                                  | 13.2                               | 17  | 6.2                                   | 22.9                                      | 8.4  |     |
|                 | Electric Power Supply                          | V                                    | 220~240V / 50Hz or 60Hz / 1PH        |                                       |                                       |                                       |                                       |                                    | 380V / 50Hz or 60Hz /                     | 220-240V / 50Hz or 60Hz /             | 380V / 50Hz or 60Hz /                     | 1 PH | 3PH |
| EQUIPMENT       | Casing   |                                      | ABS                                  |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Exchanger                                      |                                      | Titanium                             |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Expansion valve                                |                                      | Electronic                           |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Compressor                                     |                                      | Inverter Rotary                      |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Fan  |                                      | DC                                   |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Number of Fan                                  | Unit                                 | 1                                    |                                       |                                       |                                       |                                       |                                    | 2   |                                       |   |      |     |
|                 | Anti-icing resistance                          |                                      | On the condenser                     |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | Remote display                                 |                                      | √ (Detachable display)               |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | User interface                                 |                                      | Touchscreen                          |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
|                 | NN comptability                                |                                      | √                                    |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |
| WIFI            |  | X                                    |                                      |                                       |                                       |                                       |                                       |                                    |   |                                       |   |      |     |

(1) Estimated average values for a private pool with isothermal cover, from 15 May to 15 September. For an accurate sizing, please consult our configurator Astralpool

(2) For a maximum length of 20 meters

√ Standard feature

X Non available feature

- No data associated to this feature

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# Pro Elyo Inverboost NN



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## TECHNICAL CHARACTERISTICS - Pro Elyo Inverboost NN

| MODELS | 7 kW                   | 9 kW                   | 11 kW                  | 14 kW                  | 16 kW                  | 20 kW                  | 26 kW                  | 26 kW Tri              | 35 kW                  | 35 kW Tri              |
|--------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|        | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN | PRO ELYO INVERBOOST NN |
| CODES  | 71676                  | 71677                  | 71678                  | 71679                  | 71680                  | 71681                  | 71682                  | 68821                  | 68822                  | 68823                  |

### HEATING PERFORMANCE <sup>(3)(4)</sup>

|   |                   |    |           |           |           |           |            |            |            |            |
|---|-------------------|----|-----------|-----------|-----------|-----------|------------|------------|------------|------------|
| Performance at Air 28°C, Water 28°C, Humidity 60% | Heating capacity  | kW | 2.1 - 7   | 2.3 - 9   | 2.9 - 11  | 3.2 - 14  | 3.8 - 16   | 4.7 - 20   | 5.9 - 26   | 8 - 35     |
|   | Power consumption | kW | 0.2 - 1   | 0.2 - 1.3 | 0.2 - 1.6 | 0.3 - 2.1 | 0.4 - 2.4  | 0.4 - 3    | 0.5 - 3.9  | 0.6 - 5.2  |
|   | C.O.P.            |    | 13 - 6.7  |           |           |           |            |            |            |            |
| Performance at Air 15°C, Water 26°C, Humidity 70% | Heating capacity  | kW | 1.5 - 4.7 | 1.6 - 6.6 | 2 - 7.9   | 2.3 - 9.5 | 2.7 - 11.2 | 3.3 - 14   | 4.1 - 18.2 | 5.6 - 24.5 |
|   | Power consumption | kW | 0.2 - 0.9 | 0.2 - 1.3 | 0.2 - 1.6 | 0.3 - 1.9 | 0.4 - 2.2  | 0.4 - 2.8  | 0.5 - 3.6  | 0.6 - 4.9  |
|   | C.O.P.            |    | 8.5 - 5   |           |           |           |            |            |            |            |
| Performance at Air 7°C, Water 26°C, Humidity 70%  | Heating capacity  | kW | 1.1 - 3.7 | 1.2 - 5.2 | 1.4 - 6.3 | 1.7 - 7.5 | 2 - 8.9    | 2.4 - 11.1 | 3.1 - 14.3 | 4.1 - 19.4 |
|   | Power consumption | kW | 0.2 - 0.9 | 0.2 - 1.3 | 0.2 - 1.6 | 0.3 - 1.9 | 0.3 - 2.2  | 0.4 - 2.8  | 0.5 - 3.6  | 0.6 - 4.9  |
|   | C.O.P.            |    | 6.6 - 4   |           |           |           |            |            |            |            |
| Performance at Air 0°C, Water 26°C, Humidity 78%  | Heating capacity  | kW | 0.9 - 3.1 | 1 - 4.1   | 1.1 - 5.2 | 1.3 - 6.2 | 1.5 - 7.2  | 1.7 - 9.1  | 2.1 - 12   | 3.7 - 15.8 |
|   | Power consumption | kW | 0.2 - 0.9 | 0.2 - 1.3 | 0.2 - 1.6 | 0.2 - 1.9 | 0.3 - 2.2  | 0.4 - 2.8  | 0.5 - 3.6  | 0.6 - 4.5  |
|   | C.O.P.            |    | 4.6 - 3   |           |           |           | 4.7 - 3.1  |            |            |            |

(3) Power, expressed in kW, indicates the quantity of heat transferred to the water. It varies depending on 3 conditions: temperature of the outside air, humidity of the outside air and temperature of the water in the pool. To compare the performances of different heat pumps, it is a must to compare Power and COP under the same conditions.

### COOLING PERFORMANCE <sup>(4)</sup>

|   |                    |    |           |           |           |           |           |            |            |            |
|---|--------------------|----|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Performance at Air 40°C, Water 28°C, Humidity N/C | Cooling capacity   | kW | 1.8 - 3.2 | 1.3 - 4.3 | 1.5 - 4.6 | 1.6 - 5.4 | 2.2 - 7.2 | 3.6 - 9.2  | 3.9 - 11.2 | 4.7 - 17.6 |
|   | Power consumption  | kW | 0.4 - 1.1 | 0.3 - 1.5 | 0.3 - 1.8 | 0.3 - 2.1 | 0.4 - 2.6 | 0.6 - 3.2  | 0.7 - 4.2  | 0.8 - 6.5  |
|   | EER <sup>(5)</sup> |    | 4.5 - 2.8 | 5.1 - 2.8 | 5.2 - 2.6 | 5.4 - 2.6 | 5.6 - 2.8 | 5.6 - 2.7  | 5.6 - 2.7  | 5.6 - 2.7  |
| Performance at Air 30°C, Water 26°C, Humidity N/C | Cooling capacity   | kW | 2.2 - 3.9 | 2.1 - 5.2 | 1.6 - 5.6 | 1.8 - 6.6 | 2.5 - 9   | 11.2 - 4.1 | 13.2 - 4.4 | 20.7 - 5.5 |
|   | Power consumption  | kW | 0.4 - 1   | 0.3 - 1.2 | 0.3 - 1.4 | 0.3 - 1.7 | 0.4 - 2.1 | 0.6 - 2.6  | 0.6 - 3.2  | 0.8 - 5.1  |
|   | EER                |    | 6.6 - 3.9 |           | 6.8 - 4   |           | 7 - 4.1   |            | 6.8 - 4    |            |

### ACOUSTIC PERFORMANCE <sup>(4)</sup>

|  |       |         |         |         |         |         |         |   |   |   |
|--|-------|---------|---------|---------|---------|---------|---------|---|---|---|
| Acoustic power (Lw) Heating mode           | dB(A) | -       | -       | -       | -       | -       | -       | - | - | - |
| Acoustic pressure (Lp) at 1m Heating mode  | dB(A) | 38 - 51 | 39 - 52 | 40 - 52 | 40 - 54 | 41 - 56 | 42 - 60 |   |   |   |
| Acoustic pressure (Lp) at 10m Heating mode | dB(A) | -       | -       | -       | -       | -       | -       | - | - | - |

(4) Value with Min-Max compressor speed

(5) Energy Efficiency Ratio

#### Outdoor Air working temperature

Maximum T°C / Minimum T°C

| Heating Mode   | Cooling Mode  |
|----------------|---------------|
| 43 °C / -20 °C | 43 °C / 15 °C |

#### Target Pool Water temperature

Maximum T°C / Minimum T°C

| Heating Mode  | Cooling Mode |
|---------------|--------------|
| 41 °C / 15 °C | 35 °C / 6 °C |

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