

Pro Elyo Inverboost NN



AIR/WATER HEAT PUMPS, FOR OUTDOOR INSTALLATION

ASTRAL POOL 



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
- 2 x Water nozzles
- 1 x 4-way connection
- 2 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>

We reserve the right to change all or part of the features of the articles or contents of this document, without prior notice.

www.astralpool.com

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TECHNICAL CHARACTERISTICS - Pro Elyo Inverboost NN

MODELS		7 kW PRO ELYO INVERBOOST NN	9 kW PRO ELYO INVERBOOST NN	11 kW PRO ELYO INVERBOOST NN	14 kW PRO ELYO INVERBOOST NN	16 kW PRO ELYO INVERBOOST NN	20 kW PRO ELYO INVERBOOST NN	26 kW PRO ELYO INVERBOOST NN	26 kW Tri PRO ELYO INVERBOOST NN	35 kW PRO ELYO INVERBOOST NN	35 Kw Tri PRO ELYO INVERBOOST NN		
CODES		71676	71677	71678	71679	71680	71681	71682	68821	68822	68823		
GENERAL DATA	Indicative pool volume ⁽¹⁾	m ³	≤ 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 ³ /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 ⁽²⁾		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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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 ⁽³⁾⁽⁴⁾

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 ⁽⁴⁾

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 ⁽⁵⁾		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 ⁽⁴⁾

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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