

ELYO SMART NN



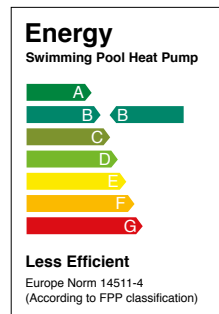
AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION

ASTRALPOOL 



Elyo Smart NN

Pool heat pump for outdoor installation energy class "B" and Inverter technology, specially designed to have good performance in cold weathers. Moreover, it can work in the optimal point to obtain more **energy efficiency**, in a **quieter** way and to helping **extend the swimming season**.



Astralpool Toolbox
app for IOS & Android



PRODUCT DESCRIPTION

- **Energy Class "B"**, allowing energy savings up to 21% in comparison with class "C".
- **Inverter Technology**, automatically varies the heating power to make the heat pump work in the optimal point.
- **Fluidra Connect Compatible**, Modbus connection to enable the Fluidra Connect platform.
- **Soft Start**, to avoid peak voltage when the compressor starts.
- **Minimum working air temperature -12°C**, ready to work in cold weathers.
- **Cycle inversion defrosting**, that allows faster defrosting.
- **Heating & Cooling**, thanks to its 4 way valve.
- **Electronic Expansion Valve**, to enhance the COP (Coefficient Of Performance).
- **R410a** refrigerant, non ozone depleting gas.
- **ABS plastic shell**, to avoid corrosion.
- **Titanium heat exchanger**, with twisted-tube to enhance performance.
- **Flow switch and high and low pressure switch**.

Accessories included: Winter cover, anti-vibration base, drainage connection, waterproof box, 10m signal wire, water connection assembly & Modbus signal wire.



We reserve the right to change all or part of the product features and/or the contents of this document without prior notice.

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AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION



ELYO SMART NN										
MODEL		6kW	9kW	12kW	16kW	19kW	24kW	28kW		
CODE		68769	68770	68771	68772	68774	68775	68776	68850	68851

27 °C AIR T. 26 °C WATER T. 80% HUMIDITY	Heating capacity	KW	6.1-2.1	9.2-2.3	12.5-2.9	16-3.8	19-4.7	24-5.9	28.5-6.8	
	Power consumption	KW	1.097-0.16	1.59-0.18	2.02-0.22	2.66-0.3	3.4-0.37	4.28-0.47	5.09-0.54	
	COP		13-5.6	13-5.8	13-6.2	12.6-6	12.5-5.6	12.5-5.6	12.4-5.6	

15 °C AIR T. 26 °C WATER T. 70% HUMIDITY	Heating capacity	KW	4.7-2.5	6.8-1.9	9.2-2.2	11.5-3	14.7-3.9	18.9-4.7	23.2-5.6	
	Power consumption	KW	1.04-0.35	1.51-0.27	2-0.31	2.55-0.39	3.27-0.51	4.2-0.61	5.16-0.73	
	COP		7.1-4.5		7.1-4.6	7-4.5				

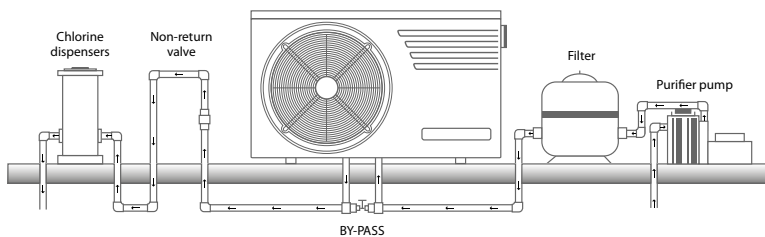
COMPRESSOR TYPE		GMCC/TOSHIBA					MITSUBISHI				
VOLTAGE	V/Hz/Ph	220~240V 50Hz /1Ph						380V 50Hz/3Ph	220~240V 50Hz/1Ph	380V 50Hz/3Ph	
RATED CURRENT	A	4,4	6,9	8,5	11,7	16,3	18,9	6,9	22,5	8,2	
MINIMUM FUSE	A	7	10	13	16	20	26	9	34	13	
ADVISED POOL VOLUME (with pool cover)	m³	10-25	12-33	15-60	25-85	55-120	65-130		75-180		
ADVISED WATER FLUX	m³/h	2,5	2,8	3,7	4,6	5,0	8,0		10,0		
WATER PRESSURE DROP	Kpa	12	12	14	15	18	20		25		
HEAT EXCHANGER		Twist-titanium tube in PVC									
WATER CONNECTION	mm	50									
FAN QUANTITY		1					2				
NOISE LEVEL (1m)	dB(A)	40-50	40-52		41-54		42-60				
REFRIGERANT (R410a)	g	800	950	1050	1600	2300	3000		3800		

DIMENSION / WEIGHT										
MODEL		6kW	9kW	12kW	16kW	19kW	24kW	28kW		
CODE		68769	68770	68771	68772	68774	68775	68776	68850	68851

NET WEIGHT	kg	54	68	78	98	117		128	
GROSS WEIGHT	kg	66	73	83	113	135		146	
NET DIMENSION	mm	1008x380x577		1050x440x709		1050x450x870		1050x452x1295	
PACKING DIMENSION	mm	1095x430x705		1130x470x850		1140x480x1010		1130x515x1430	

Maximum operating conditions: minimum outdoor air temperature -12 °C. Maximum pool water temperature 40 °C. Maximum water inlet pressure 3 bar.

Diagram of setup



- The heat pump is ready for connection to a general power supply to earth.
- The threshold voltage variation is +/-10% during operation.
- Protect the line with a circuit breaker and a 30 mA residual-current device.
- The air should reach the unit free of obstacles (30 cm min.).
- The air expelled should not be blocked by anything (2.5 m).
- Avoid potential air recirculation.
- Mount the unit on a level base.