

TCPO 07÷30

Heat pump heaters for swimming pools



Technical and construction features

The A2B Accorroni E.G. they are applicable to indoor and outdoor swimming pools of small, medium and large dimensions.

They are an effective solution for heating the pool water, even in late autumn or in the event of sudden drops in temperature, anticipating and extending the period of use of the pool.

Equipped with titanium heat exchanger and high efficiency compressor, the A2B Accorroni E.G. they guarantee absolute operating reliability, high energy performance and reduced operating consumption.

The air source heat pumps take 80% of the energy to heat the pool that comes from the outside air.

The heat pump takes the (free) thermal energy from the outside air and transforms it into heat which it transfers to the water.

Heat pumps for swimming pools TCPO horizontal expulsion Heat pump with horizontal expulsion, available in 2 power sizes:

- Full DC inverter, high efficiency
- Mitsubishi inverter compressor
- Titanium heat exchanger
- DC inverter fan motor + sawtooth fan, very low noise
- WIFI function included (easily control the heat pump with your mobile phone)
- Beautiful design with ABS plastic casing



For correct installation, it is mandatory to provide a suitable hydraulic bypass equipped with special calibration gate valves in correspondence with the hydraulic connections of the heat pump.

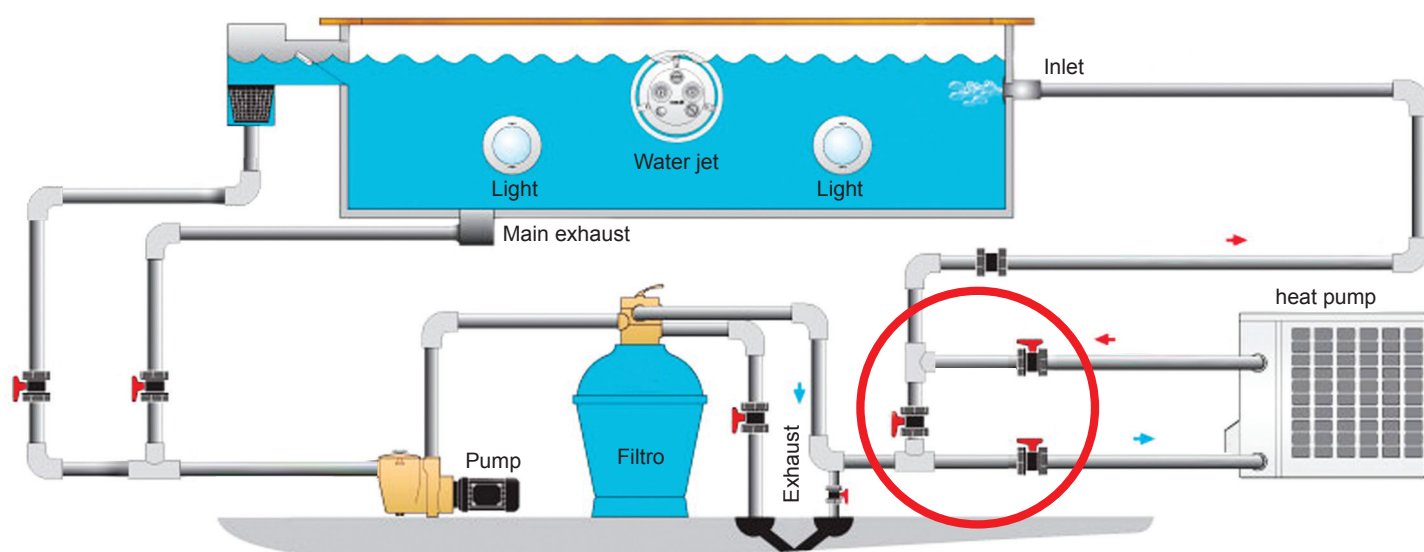
Model	Heating power kW*	Volume Swimming pool m ³ **	Code	€
TCPO 07 single phase	7,76 ÷ 1,76	< 40	39000008	4.158,00
TCPO 10 single phase	10,55 ÷ 2,40	< 50	39000009	4.405,00
TCPO 13 single phase	13,61 ÷ 3,09	< 70	39000010	5.016,00
TCPO 17 single phase	17,15 ÷ 3,88	< 95	39000011	5.511,00
TCPO 21 single phase	21,41 ÷ 4,85	< 115	39000012	5.758,00
TCPO 30 three-phase	30,05 ÷ 6,84	< 160	39000013	10.131,00

* Thermal power, external air 26 ° C, water inlet 26 ° C, water outlet, 28 ° C, humidity 80%

** Volumes expressed as an indication which does not constitute any responsibility of A2B Accorroni E.G.

For the actual estimate it is essential to consider the specific characteristics of each pool (according to the thermal study).

Scheme of a heat pump heater system for swimming pools TCPO



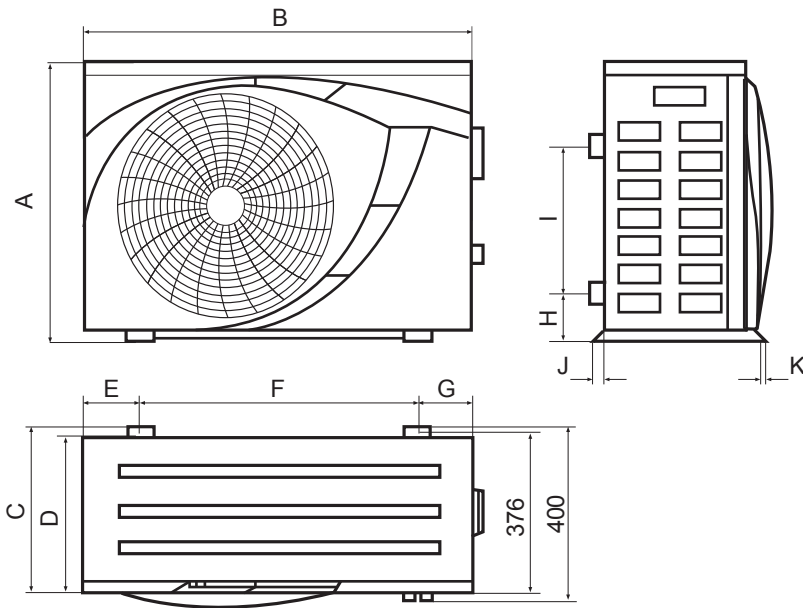
All A2B Accorroni E.G. they can be installed easily and immediately: by simply connecting the pool and the system, the hot water produced will be directly introduced between the inlet and outlet pipes of the unit.

For correct installation, it is always mandatory to provide a suitable hydraulic bypass equipped with special calibration gate valves as shown in the diagram above.

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Dimensions TCPO 07÷30



TCPO	07	10	13	17	21	30
A	591	591	641	641	641	641
B	836	836	896	896	896	896
C	379	379	389	389	389	389
D	335	335	363	363	363	363
E	98	98	128	128	128	128
F	640	640	640	640	640	640
G	98	98	128	128	128	128
H	107	107	107	107	107	107
I	290	290	340	340	340	340
J	26	26	26	26	26	26
K	11	11	11	11	11	11

values in mm

Technical data table TCPO 07÷30

DESCRIPTION	U.M.	TCPO 07	TCPO 10	TCPO 13	TCPO 17	TCPO 21	TCPO 30	
<i>Performance under the following conditions: outdoor air 26 °C / water inlet 26 °C / water outlet, 28 °C / humidity 80%</i>								
Heating power	kW	7,76÷1,76	10,55÷2,40	13,61÷3,09	17,15÷3,88	21,41÷4,85	30,05÷6,84	
Absorbed power	kW	1,12÷0,11	1,52÷0,15	1,95÷0,19	2,46÷0,24	3,08÷0,30	4,30÷0,42	
COP	W/W	15,75÷6,94	15,84÷6,95	16,12÷6,98	15,96÷6,98	15,95÷6,96	16,14÷6,99	
<i>Performance under the following conditions: external air 15 °C / water inlet 26 °C / water outlet, 28 °C / humidity 70%</i>								
Heating power	kW	5,76÷1,30	7,85÷1,78	10,12÷2,29	12,78÷2,89	15,91÷3,59	22,14÷4,99	
Absorbed power	kW	1,16÷0,17	1,58÷0,23	2,03÷0,30	2,57÷0,38	3,20÷0,47	4,44÷0,65	
COP	W/W	7,57÷4,96	7,59÷4,97	7,64÷4,99	7,63÷4,98	7,59÷4,97	7,63÷4,99	
<i>Performance under the following conditions: external air 35 °C / water inlet 29 °C / water outlet, 27 °C</i>								
Refrigeration power	kW	4,28÷1,06	5,92÷1,48	7,25÷1,82	9,47÷2,35	11,58÷2,96	15,89÷3,93	
Absorbed electrical power	kW	1,15÷0,16	1,57÷0,22	1,89÷0,26	2,51÷0,34	3,07÷0,43	4,17÷0,56	
EER	W/W	6,61÷3,73	6,74÷3,76	6,95÷3,83	6,89÷3,78	6,87÷3,77	6,98÷3,81	
Power supply		230V/1/50Hz					400V/3+N/50Hz	
Nominal electrical power	kW	1,2	1,6	2,1	2,6	3,2	4,4	
Current consumption	A	5,4	7,3	9,4	11,7	14,6	7,9	
Compressor		Mitsubishi						
Refrigerant gas		R32						
Heat exchanger		Titanium						
Air expulsion direction		horizontal						
Type of defrost		4-way valve						
Degree of protection		IPX4						
Operating temperature	°C	-15÷43						
Water flow	m ³ /h	2,5	3,5	4,5	5,5	6,5	9,0	
Sound level	dB(A)	≤ 43	≤ 43	≤ 46	≤ 46	≤ 46	≤ 48	
Net weight	Kg	40	42	51	54	58	86	
Operating weight	Kg	51	53	62	65	69	97	