

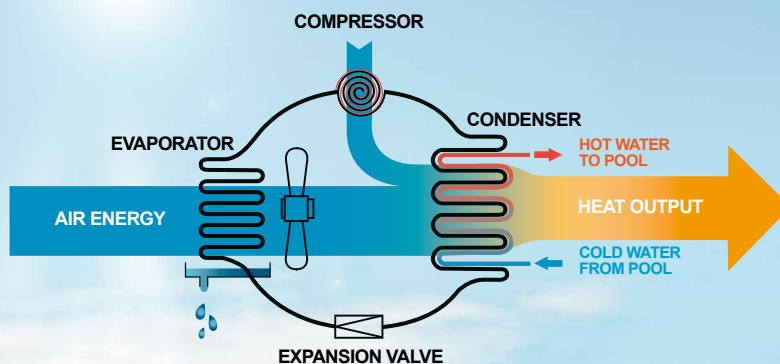
The problem

Your swimming pool is an investment you want to utilize to the maximum, but the temperature is often too low to be really comfortable.

You no longer have to hesitate about heating your pool from early spring to autumn, in the most energy-saving and ecological way, using a natural energy source. Thanks to the sun there is an enormous mass of heat stored in the air.

The solution

A PM heating pump takes more than 80% of the required heat out of the ambient outdoor air to which only less than 20% energy has to be added. One needs to buy less than $\frac{1}{4}$ of the required heat in the form of electricity whereas $\frac{3}{4}$ is provided free from nature! Each euro of electricity one puts in a PM heating pump, yields into 4 euro of heating capacity.



The operation of an air/water heat pump is based on the cooling principle applicable in any cooling installation, making use of the thermal energy drawn by the evaporator from a heat source (air) in order to heat another medium (water) with this energy via a condenser, with as little energy input as possible and with as much heat output as possible (C.O.P.).

PM Heat pump

The PM swimming pool heat pump is perfectly suitable to be installed outdoors.

Anodised chamfered aluminium profile and corners. Zinc panels painted in epoxy RAL 7011.

Heat exchanger: coaxial condenser in copper nickel 90/10 (CuNi10Fe1Mn).

Suited for swimming pool water and salted water according to DIN17664 and a pH-value between 6,8 and 8,2.

LCD display with digital read out of the required and measured water temperature.



Capacities

The required capacity depends on the heat loss on the surface, the cubic content that needs to be heated and the required water temperature.

Capacities of 15 and 25 kW.

		Vac/ph/Hz = 400/3/50	15	25
		Vac/ph/Hz = 230/1/50	15M	-
Input*		W	3300	4900
Output*		W	15800	22900
		C.O.P.	4,79	4,67
Nominal current	3 x 400 V	A/ph	5,7	8,97
	1 x 230 V	A	15,9	-
Air flow		m ³ /h	3200	6000
Noise level **		dbA	35	38
Dimensions	L	mm	1410	1410
	T	mm	480	480
	H	mm	870	1405
Weight		kg	111	195
Minimum/maximum flow rate condenser		m ³ /h	7,5 / 12	10 / 14

* At AT° = 15°C and WT° = 28°C (selection diagram)

** Measured at 10 m in open air

Under restrictions of modifications

Minimum / maximum working range WT°	10 °C / 36 °C
Minimum / maximum working range LT°	5 °C - 50 % RH / 36 °C - 70% RH
Control	24 VDC

Selection diagram*

