

Air to Water Swimming Pool Heat Pump

This air to water heat pump features a PVC titanium heat exchanger for corrosion resistance. It also has an intelligent controller with LCD touch screen for easy adjustment.



ADDITIONAL IMAGES



Overview

High-Efficiency Pool Heating Solution

This Air to Water Swimming Pool Heat Pump utilizes advanced DC inverter technology to provide fast heating and exceptional energy savings. Designed for durability with a PVC Titanium heat exchanger and hydrophilic-coated fins, it ensures reliable performance even in corrosive environments. With intelligent touch-screen controls and quiet operation, it offers a premium, low-maintenance heating solution for various pool sizes.

Key Features

MACON®

High Energy-Saving Efficiency
MACON's DC inverter technology allows for a wide range of speed adjustment from 10% to 90%, according to the requirements. With the advanced, hydrophilic-coated fins, the heat pump can reach a COP as high as 20.04 at 27°C. High COP means 10°C more energy is used for each unit of electricity.

Smart App Remote Control
On a business trip or holiday or at night, you can check your pool temperature and the speed in your smartphone. The pool temperature will be just a few degrees.

Monitor and adjust your pool temperature remotely via a smartphone app. Certified Class A energy efficiency.

Core Features

- Full DC inverter technology for 10% to 90% strength adjustment
- PVC Titanium heat exchanger with full corrosion resistance
- Hydrophilic coating on air exchanger fins
- Automatic defrosting with internal reverse cycle valve
- Flow switch for integrated water flow protection
- Intelligent LCD touch screen wire controller
- Smart App remote control for temperature monitoring

Performance Metrics

Efficiency & Performance

20.04

Max COP (Air 27°C/Water 26°C)

45 dB(A)

Max Operating Noise (1m)

-20 °C

Min Ambient Temp

Technical Specifications

Model Performance Data

Model Capacity	Power Supply	Heating Cap (A30/W28)	COP (A30/W28)	Water Flow
020ZA1	220V/1Ph/50Hz	8.5 kW	6.7	3.65 m³/h
030ZA1	220V/1Ph/50Hz	13.0 kW	6.82	5.58 m³/h
040ZA1	220V/1Ph/50Hz	17.5 kW	6.71	7.52 m³/h
050ZA1	220V/1Ph/50Hz	21.5 kW	6.84	9.00 m³/h
050ZA1/S	380V/3Ph/50Hz	21.5 kW	6.9	9.00 m³/h

Refrigerant Support

R410A, R32

Physical Connections

1-1/2 inch Water Outlet/Inlet

Installation & Design



The vertical exhaust design allows for installation in confined spaces while the enclosed cabinet ensures ultra-quiet operation.

Design & Build

- Vertical exhaust design for tight space installation
- Fully enclosed compressor cabinet for noise reduction
- Soft starter technology (0A to 28A) to protect electrical systems
- Compact and demountable structure for easy maintenance access
- Horizontal fan direction

Compliance

Standards & Energy Class

CE • TÜV Rheinland Certified • Class A Energy Level • EN14511-3 Compliant