

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 output power from 10% to 90%, according to the requirements. With the advanced, hydrophilic-coated fins, the heat exchanger reaches a COP as high as 20.04 at 27°C. High COP means 10°C more energy is used for water heating.

Smart App Remote Control
On a business trip or holiday or at night, just check your pool temperature via the app in your smartphone. The pool temperature will be just what you need.

Energy Efficiency
COP 20.04

Smart App Remote Control

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