

OmniA Series

Wet Rotor Circulating Pump



OmniA Series Wet Rotor Circulating Pump

Suction Flange	: G 1½"
Discharge Flange	: G 1½"
Operating Pressure	: 10 Bar
Temperature Class	: TF110
Flow Range	: 0 - 24 m ³ /h
Man. Head Range	: 1 - 12 m
EEl	: 0,18 ≥ - ≥ 0,23



Fields of Application

HVAC systems,

Floor Heating Systems,

Design Specification

High efficiency and compact motor design.

Low-noise and low-vibration operation.

User interface with three control modes: constant pressure, proportional pressure, and constant speed.

Automatic performance optimization with SmartAdapt function.

LED display/screen indicating energy consumption.

Silent operation with automatic night mode.

Motor Technology

The pump features a high-efficiency motor architecture compatible with integrated or external speed control, enabling speed adjustment in line with system requirements

Sealing Applications

The wet-rotor design eliminates the need for a mechanical seal, providing a hermetically sealed construction.

The motor stator is separated from the rotor chamber by a stainless steel can, ensuring hydraulic sealing.

This structure eliminates the risk of external leakage and minimizes the need for maintenance.

Bearing

The bearing principle is based on hydrodynamic film formation. During the pump is in operation, the fluid film formed between the shaft and the bearing surface minimizes friction and ensures the transmission of radial loads.

The pumped medium provides both lubrication and cooling of the rotor assembly.

Operating Modes

1. Constant Speed Mode

The pump operates at a fixed engine speed at the selected level. It is suitable for applications requiring a constant flow rate.

2. Constant Pressure Mode

The differential pressure generated by the pump is kept constant. It provides optimum performance especially in floor heating systems.

3. Proportional Pressure Mode

The generated pressure is automatically adjusted depending on the flow rate demand in the system. It is ideal for circulation applications in heating systems.

4. AUTO SmartAdapt Mode

Pump performance automatically adapts to the actual thermal demand of the system. Adjustment is performed gradually, and the learning process may take longer than one week. In case of power interruption, the pump retains the last operating setting in memory.

5. External Control Mode

The pump speed can be controlled via an external control unit. Mode selection is performed via the integrated selection button. The selected mode is displayed symbolically by the LED indicators.

Pump Coding

OmniA 25 - 80 180 S

Series Name	_____
Nominal flange diameter (mm)	_____
Maximum Head x 10 (m)	_____
Distance Between Flanges (mm)	_____
S: Stainless steel body	_____
Z: Body bronze	_____

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Better!*



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