

# ALPHA1

Designed for essential heating and air conditioning applications, the ALPHA1 is a high-efficiency circulator that offers dependable performance and silent operation. With intelligent control modes and a range of intuitive features, it ensures comfort for residents and easy installation and maintenance for installers.

## Key features

- Robust startup
- Dry-running protection
- Toolless installer plug
- Self-venting function
- Three intelligent control modes

## Benefits

-  Reliable performance in harsh conditions
-  Reduced risk of blockages and breakdowns
-  Easy installation
-  Silent operation
-  Energy savings and enhanced comfort for residents



**GRUNDFOS** 

Possibility in every drop

## ALPHA1 in more detail

### Three intelligent control modes

Choose between Constant Pressure, Proportional Pressure, or Constant Curve—each with three speed settings—to match system requirements and optimise energy use.

### Toolless installer plug

Enables fast and easy electrical connection without tools. This simplifies setup and saves time on site.

### Robust startup

The non-magnetic shaft and bearings reduce the risk of blockages from dirt or magnetite. In the unlikely case of a blockage, the motor will attempt to continuously start at the highest possible torque, ensuring startup in tough conditions.

### Dry-running protection

The ALPHA1 will stop if dry-running is detected to prevent damage and avoid breakdowns.

### Self-venting function

The ALPHA1 automatically removes air from the pump, saving installers time by removing the need for manual venting.

### High ambient temperature performance

Designed to operate reliably at ambient temperatures up to 55 °C, ALPHA1 ensures optimal performance and longevity when integrated into modern heating appliances.

### Silent operation

Operating at just 32 dB(A), ALPHA1 guarantees silent performance and enhances comfort in residential and working environments.

### Error indicators on display

Built-in fault symbols make it easy to identify and resolve issues during servicing or commissioning.

## Technical specifications

Feature	
Max flow*	3,9 m <sup>3</sup> /h
Max head*	8 m
Max Power input*	60 W
Supply Voltage	1 × 220-240 V, 50/60 Hz
Energy Efficiency Index (EEI)	≤ 0,20
Acoustic sound pressure level (Lp)	< 25 dB(A)
Enclosure class	IP44
Pipe connection*	G1 1/2, G2
Port to port length*	130 mm, 180 mm
Ambient temperature	55 °C
Media temperature*	-10* to 110 °C

\*Depending on variant

## Performance curve

