

# GRUNDFOS UPM3 HYBRID 15-70 130 ACA EUX6 NSR CIRCULATOR PUMP



## Function

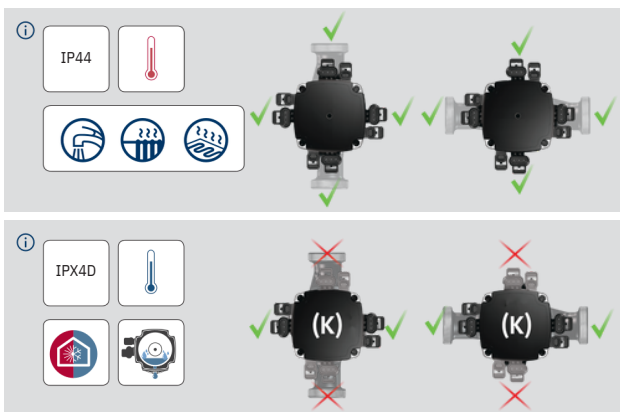
The UPM3 pumps are high-efficiency, speed-controlled pumps equipped with an electronically commutated motor (ECM), permanent magnet rotor, and frequency converter. They can be externally controlled via a low-voltage digital PWM (Pulse-Width Modulation) signal, LIN bus signal, or internally controlled in constant pressure mode, proportional pressure mode, or constant speed mode defined by a panel operating system or factory preset. The product is suitable for pumping clean, thin, non-aggressive, and non-explosive liquids free of solid particles or fibers. In heating systems, the water must meet the quality requirements established by accepted standards for heating system water, such as the German VDI 2035 standard.

## Technical data

	Ambient temperature 55 °C Liquid temperature 95 °C	Ambient temperature 70 °C Liquid temperature 65 °C	Ambient temperature 70 °C Liquid temperature 110 °C	Ambient temperature 60 °C Liquid temperature 130 °C	Ambient temperature 95 °C
Standard variants					
GFNHB UPM3S			●	●	●
GFNKB UPM3			●	●	●
GFNKC UPM3L	●		●	●	
GFNFB UPM3			●	●	●

Liquid temperature	75 °C	95 °C	110 °C
Pressure	0.005 MPa 0.05 bar	0.05 MPa 0.5 bar	0.108 MPa 1.08 bar

## Control box position

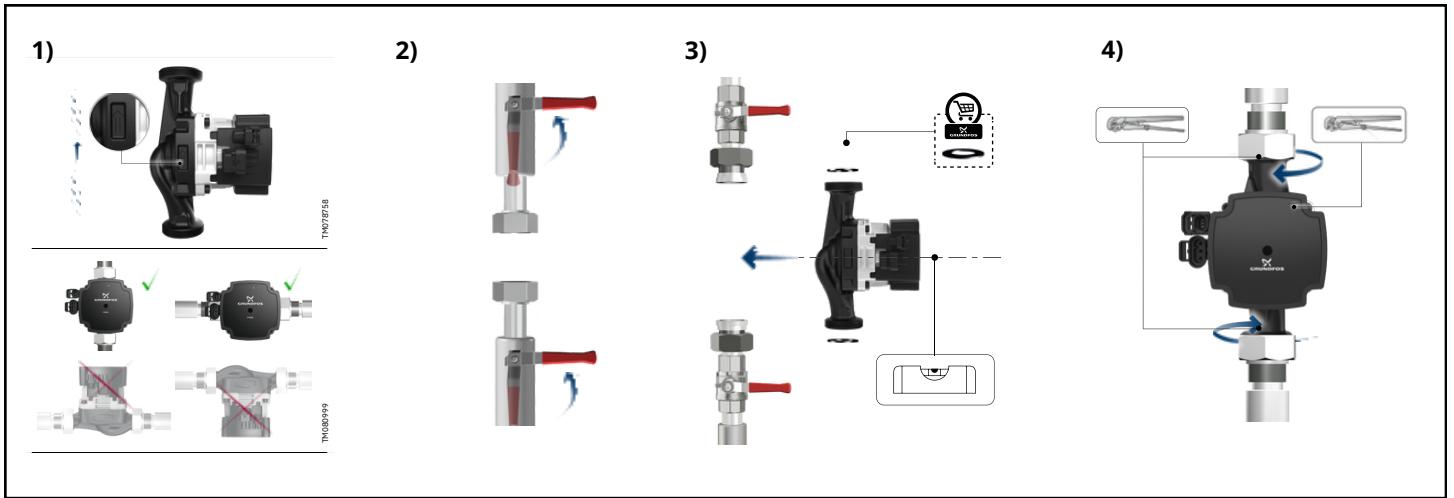


The control box provides access to the terminals from the front. If necessary, the control box can be rotated in 90-degree increments:

- 3 o'clock position
- 6 o'clock position
- 9 o'clock position
- 12 o'clock position

By default, the control panel is in the highest position (12 o'clock) when the terminals are at the 9 o'clock position. The front cover can be placed in four different positions. This allows you to position it horizontally regardless of the orientation of the control box.

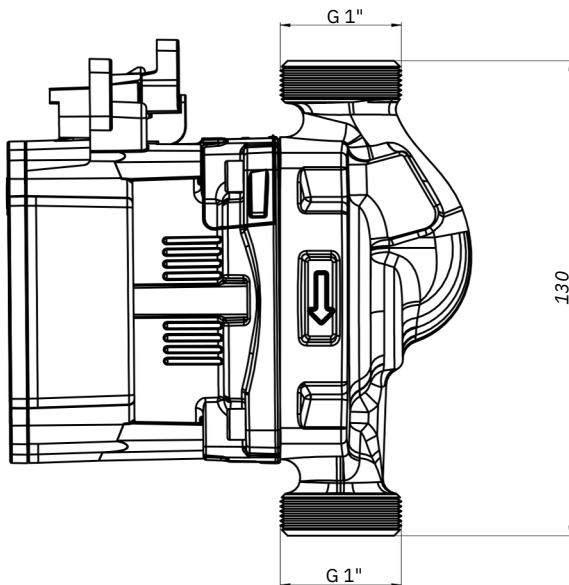
## Installation



The pump must be installed in the system so that a significant amount of air flows through or accumulates in the pump housing, affecting the pump when it is not operating.

- If an additional non-return valve is installed on the discharge pipe, there is a high risk of dry running because air cannot pass through the valve.
- It must be possible to vent the system at the highest point of each system segment.
- A permanent venting device is recommended.

## Dimensions



## Certifications

- Pressure equipment (PED 2014/68/EU)
- Safety components (UNI EN ISO 4126:2019)
- Ball valves (UNI EN 1328:2004)
- Gas ball valves (UNI EN 331:2015)
- Components for drinking water (KTW GUIDELINE and W270)

