

# High Efficiency Circulator with Three Constant Pressure Control Modes

## GRUNDFOS ALPHA1

The ALPHA1 is an energy efficient, variable-speed circulator built with reliable, electronically controlled Grundfos permanent magnet motor (ECM) technology, which has been used by Grundfos in the industry for more than 16 years. Featuring three-constant pressure control modes, an LED display and easy-to-use push button controls, the ALPHA1 is the perfect solution for domestic hydronic heating and hot water recirculation applications.

Capable of replacing more than 30 other pump models, the ALPHA1 has the highest torque rating and most powerful start feature in its class. A magnetite resistant design, robust ceramic shaft and stainless steel bearing plate ensure that the ALPHA1 reliably delivers the optimal system flow at the lowest possible energy consumption.

The expanded ALPHA product line, including the ALPHA1 and ALPHA2, delivers the highest range of flexibility and feature options to meet the needs of many applications. All components of the ALPHA1 and ALPHA2 are produced by Grundfos with our highest manufacturing standards – the ALPHA product line is built by Grundfos in Fresno, California.

Not all circulators are created equal.  
be genuine **ALPHA1**

## Key Features and Benefits

- ALPHA1 can replace more than 30 other pump models
- Designed with trusted Grundfos ECM technology which has been used by Grundfos for more than 16 years
- ALPHA1 features the highest torque rating and most powerful start feature in its class which attempts to restart indefinitely every seven seconds in blocked rotor conditions
- ALPHA1 features an integrated check-valve and nut captures for flanges
- ALPHA1 features three-constant pressure control modes with easy to use push button settings
- Large LED display shows energy watt consumption and flow indicator in gallons per minute
- Magnetite resistant design with a stainless-steel bearing plate, robust ceramic shaft and ceramic bearing rings
- Extremely quiet 19.2 dB(A) operation – tested in one of the best European sound labs
- Available in both cast iron and stainless steel models
- ALPHA1 is compatible with either a line cord or terminal box for conduit connections



### APPLICATIONS

- Heating & cooling
- Hot water recirculation

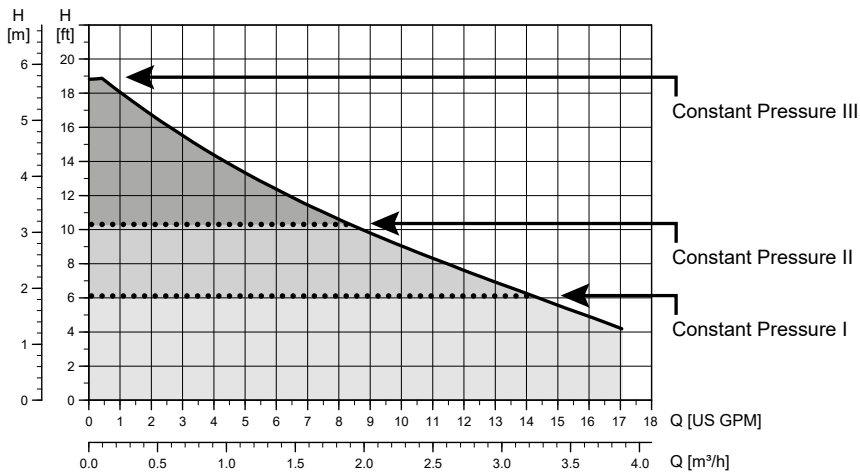
## ALPHA1 Technical Data

ALPHA1	
Flow, Q:	max. 21 gpm (80 lpm)
Head, H:	max. 19 ft. (5.8 m)
Motor:	1 x 115V
Liquid temp.:	36°F to 230°F (2°C to 110°C)
Working Pressure:	max. 150 PSI
Watts:	5-45 W
Amps:	0.65 A
Approvals:	ETL, NSF 61, NSF 372 Canadian ICES-003

## Product Offering

Product Number	Model	Description
99287256	ALPHA1 15-55 F	Cast iron flange with terminal box
99287259	ALPHA1 15-55 FR	Cast iron rotated flange with terminal box
99287262	ALPHA1 15-55 SF	Stainless flange with terminal box
99285998	ALPHA1 15-55 F/LC	Cast iron flange with line cord
99287244	ALPHA1 15-55 FR/LC	Cast iron rotated flange with line cord
99287250	ALPHA1 15-55 SF/LC	Stainless flange with line cord

## Performance Data



- • Push-button for selection of pump setting
- Every time the push-button is pressed, the circulator pump setting is changed.
- III **Constant Pressure III**
  - The duty point of the pump will move left and right along the highest constant-pressure curve depending on the water demand in the system.
- II **Constant Pressure II**
  - The duty point of the pump will move left and right along the middle constant-pressure curve depending on the water demand in the system.
- I **Constant Pressure I**
  - The duty point of the pump will move left and right along the lowest constant-pressure curve depending on the water demand in the system.

## Cross Reference Chart

The Grundfos ALPHA1 can replace the pump models listed below:

GRUNDFOS	TACO	B&G	Armstrong	WILO
UP 15-10F	005-F2-3	NRF-9F/LW	Astro 20	Star S 16FX
UP 15-42F	006-F7	NRF-22	Astro 25	Star S 21FX
UPS 15-42F	007-F5-5	NRF-25	Astro 30	Star S 21RFC
UPS 15-58FC	008-F6-1	NRF-9F/LW	Astro 230CI-R	Stratos ECO 16 RFC
	008-F6-3	Ecocirc 19-14 vario	Astro 250CI-R	
	00R-F6-1	Ecocirc 19-14 auto	Compass 20-20	
	00R-MSF			
	0015-MSF3-1			
	007e			
	0015e			



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