



# Submittal Data Information

101-207

## 0018e™ ECM High-Efficiency Circulator

Effective: December 27, 2018

Supersedes: New

Job: \_\_\_\_\_ Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_ Rep: \_\_\_\_\_

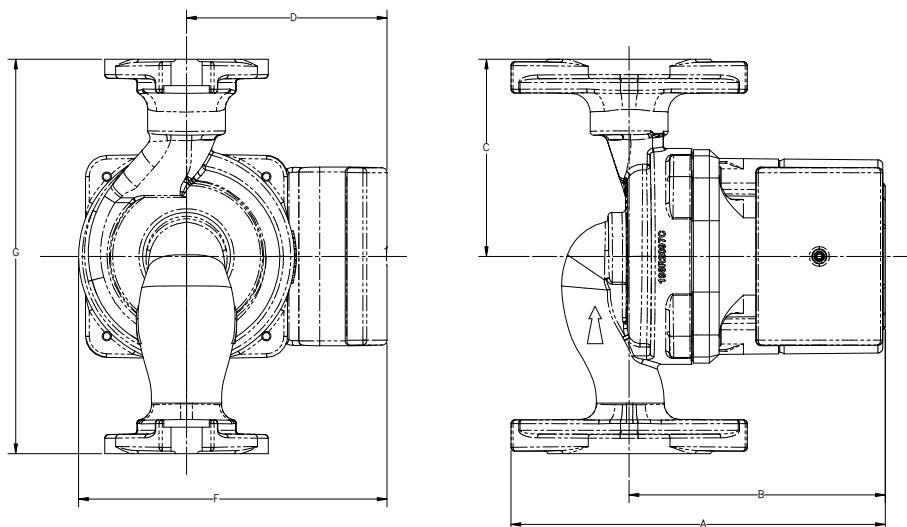
ITEM NO.	MODEL NO.	

### Specifications

- Maximum Shut-off Head: 18 feet
- Maximum Flow: 16 gpm
- Maximum Operating Pressure: 125 psi (8.6 bar)
- Maximum Water Temp: 230°F (110°C)
- Minimum Water Temp: 36°F (2°C)
- Electrical specifications:
  - Voltage: 120V, 60 Hz
  - Single phase
  - Operating Power: 4W - 44W
  - Max. AMP Rating: 0.54
- Equipped with a cast iron casing and should be used for closed loop systems only
- Not suitable for chilled water or open loop potable water systems
- Taco circulator pumps are for indoor use only
- Acceptable for use with water or maximum of 50% water/glycol solution

### Applications

The 0018e circulator is a variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor. Operating modes include infinitely variable fixed speed to fine tune any zone, constant pressure for zone valve applications, proportional pressure for panel radiators with thermostatic radiator valves or self-adjusting activeADAPT™ auto mode. The 0018e is not suitable for chilled water or open loop potable water systems.



### Materials of Construction:

- Casing: .....Cast Iron
- Stator Housing: .....Composite
- Cartridge: .....Composite
- Impeller: .....Composite
- Shaft: .....Ceramic
- Bearings: .....Carbon
- Thrust Bearing: .....Ceramic
- O-Ring & Gaskets: .....EPDM
- Integral Flow Check (IFC\*):
  - Body, Plunger .....Acetal
  - O-ring Seal .....EPDM
  - Spring .....Stainless Steel

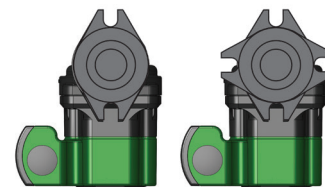
### Pump Dimensions & Weights

Model Number Part Number	Flange Code	A		B		C		D		F		G		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
<b>0018e-2F2</b> VR1816-HY2-FC2A01	S	6	152	4-1/8	104	3-3/16	80	3-1/4	82	5	126	6-3/8	161	5.8	2.6
<b>0018e-2F4</b> VR1816-HY2-4C2A01	U	6	152	4-1/8	104	3-3/16	80	3-1/4	82	5-1/8	130	6-3/8	161	6	2.7

### Mounting Positions



### Flange Orientation



Standard (S)

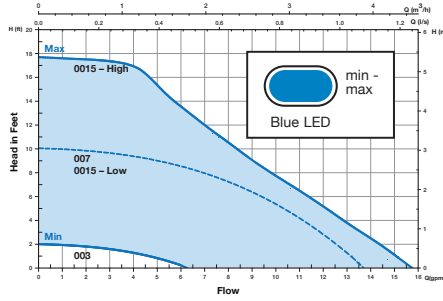
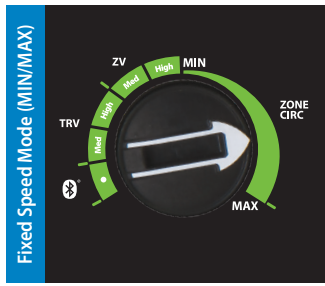
Universal (U)

### Electrical Data

Model	Volts	Hz	Ph	Max.Amps	Max. Watts	RPM
All Models	120	60	1	.54	44	1590 - 4830
Motor Type	ECM, Permanent Magnet, Thermally Protected					

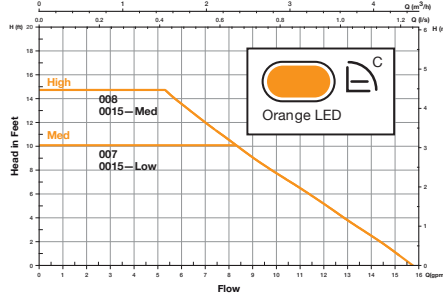
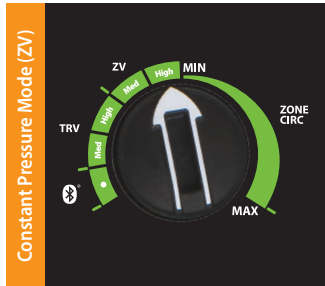


The 0018e is factory-programmed for **MAX Speed Setting**. Simply turn the dial to change speed, operating mode or activate Mobile App.



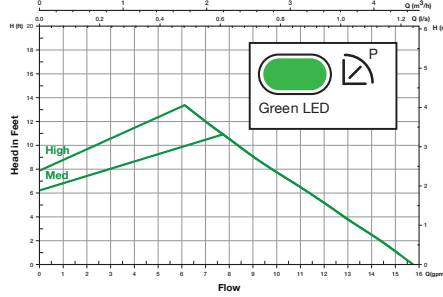
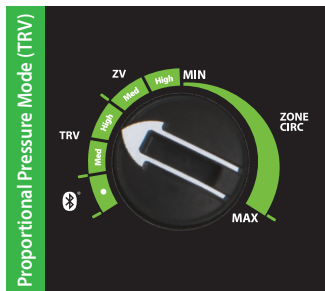
Fixed speed mode (Zone Circ) allows the installer to fine tune the circulator flow rate to precisely match design load conditions. It is infinitely variable between MIN/MAX settings.

Ideal for zoning with circulators.



In constant pressure mode (ZV), the circulator maintains a constant pressure differential ( $\Delta p-c$ ) in the system as heating load increases or decreases. Selections options are Medium or High.

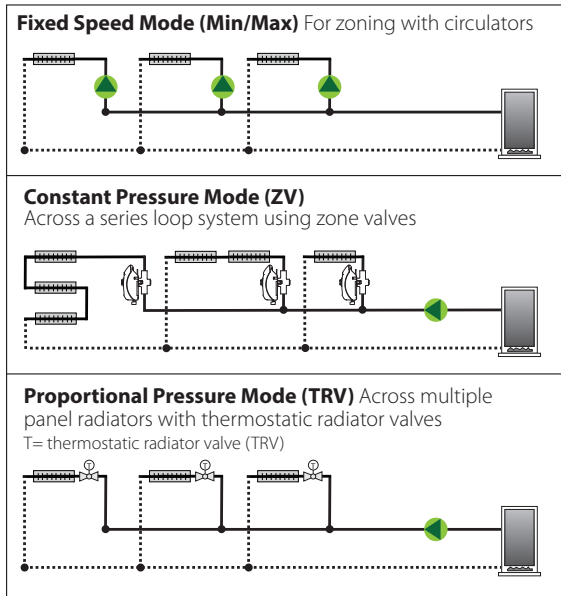
Best option for zoning with zone valves.



In proportional pressure mode (TRV), the circulator maintains a proportional pressure differential ( $\Delta p-v$ ) in the system as heating load increases or decreases. Flow will change in relationship to the change in pressure differential. Selections options are Medium or High.

Best option for panel radiators with thermostatic radiator valves (TRV).

### Typical Applications



### Replacement Chart (6-3/8" flange to flange dimension)

Taco	Grundfos	Armstrong	Xylem/B&G	Wilco
005	UP 15-10 F	Astro 230CI	ecocirc 19-14 auto	Star S 16F
006	UP 15-10 FR	Astro 230CI-R	ecocirc 19-14 vario	Star S 16FX
007	UP 15-42 F	Astro 250CI	NRF-22	Star S 21RFC
008	UP 15-42 FR	Astro 250CI-R	NRF-25	Star S 21FX
00R	UPS 15-42 F	Astro 20	NRF-9F/LW	Star S 21F
00R 3-Speed	UPS 15-58 FC	Astro 25		Stratos ECO 16 RFC
0015 3-Speed	UPS 15-58 FRC	Astro 30		
	ALPHA 15-55F	Astro 30-3		
	ALPHA 15-55FR	Astro 50-3		
		Compass 20-20		



Taco, Inc., 1160 Cranston Street, Cranston, RI 02920 | Tel: (401) 942-8000 | FAX: (401) 942-2360

Taco (Canada), Ltd., 8450 Lawson Road, Suite #3, Milton, Ontario L9T 0J8 | Tel: (905) 564-9422 | FAX: (905) 564-9436

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