



## Water Circulation Pumps & Circulators

### 0018e® ECM High-Efficiency Circulator

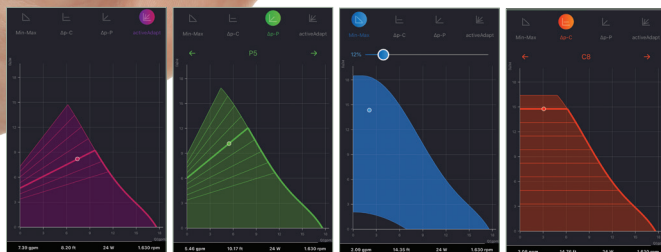
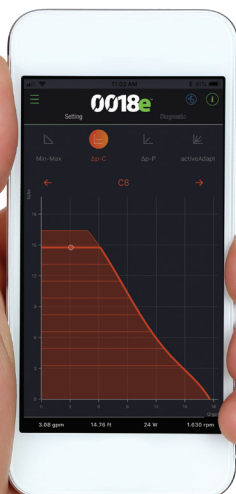
The 00e® series - 0018e featuring Bluetooth® is a versatile, variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor ideal for closed loop hydronic heating, open loop or domestic water applications. Download the Taco 0018e Mobile App to see and control real-time system performance. Run system operation & validation reports including performance diagnostics & history. Know the most efficient setting based on real-time feedback and alleviate the problems of over-pumping. You design systems with precision. The 0018e offers the performance & control to match.

#### It's time to take control!



2-Way Communication with  
the Taco 0018e ECM Circulator  
Mobile App featuring Bluetooth®

ECM Circulator



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Supersedes: 12/27/18

Effective Date: 03/26/21  
Printed in USA

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## Features & Benefits

### Maximize system efficiency, maximize system control.



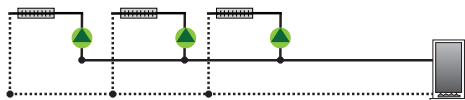
Use the Cast Iron 0018e with a Taco Switching Relay or Zone Valve Control

Use the Stainless Steel 0018e for open loop potable hot water systems with up to 1,000 feet of recirculation piping

- 18' Shut-off head, 16 gpm max flow
- ECM High-Efficiency motor uses up to 85% less electricity
- Easy-to-use dial
- 0018e mobile app for real-time performance display, system control and reporting
- 4 different operating modes:
  - Infinitely Variable Fixed Speed
  - Constant Pressure — Variable Speed
  - Proportional Pressure — Variable Speed
  - activeADAPT® — Self-Adjusting, proportional pressure, variable speed
- Multi-color LED
- **SureStart®** automatic unblocking & air purge
- **BIO Barrier®** protects pump from system contaminants (Cast Iron only)
- Nut-grabber flanges for easier fit-up
- Dual electrical knock-outs and 6" stranded wire leads included for easy wiring
- Integral Flow Check (IFC®) included
- Whisper quiet operation
- Double insulated — no ground required
- Cast Iron models available with standard or universal flange
- Stainless Steel models available with universal flange or 1" union connection
  - Customizable 1/2" & 3/4" union fitting sets available in sweat, NPT or press (Sold Separately)

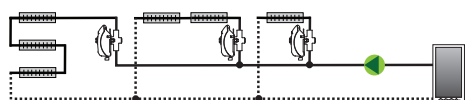
#### Typical Applications for Closed Loop Hydronic Heating Systems

##### Fixed Speed Mode (Min/Max) For zoning with circulators



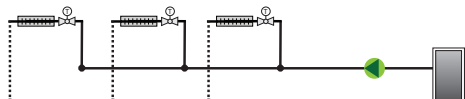
##### Constant Pressure Mode (ZV)

Across a series loop system using zone valves

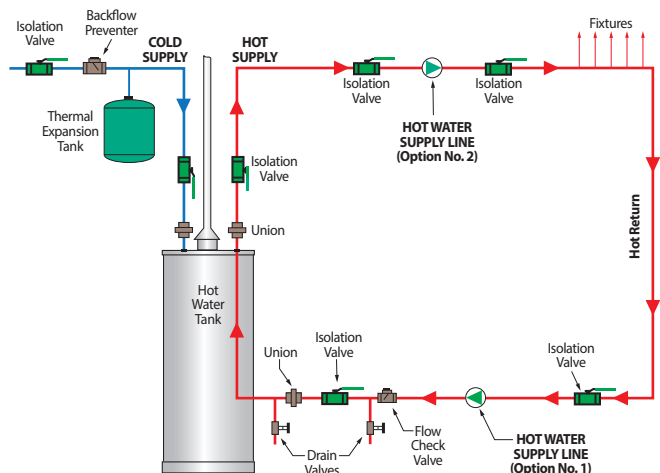


##### Proportional Pressure Mode (TRV) Across multiple panel radiators with thermostatic radiator valves

T = thermostatic radiator valve (TRV)



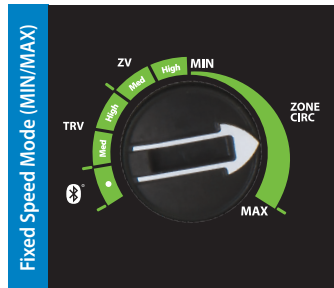
#### Typical Installation for Open Loop Hot Water Recirculation Systems



## Modes & Performance

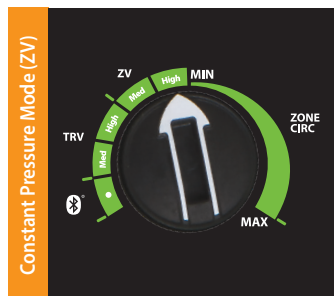
### Versatility & dependability

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



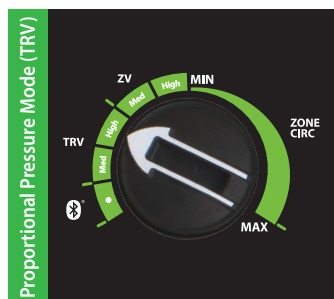
Fixed speed mode (Zone Circ) allows the installer to fine tune the circulator flow rate to precisely match design load conditions. It is infinitely variable between MIN/MAX settings.

Ideal for zoning with circulators and for domestic hot water recirculation.



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.

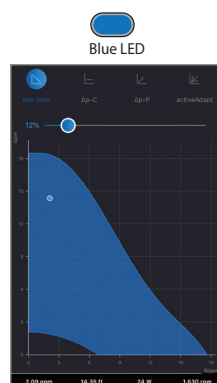
Best option for zoning with zone valves.



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) and for standard piping with crossover valves.

Go to the App Store or Google Play on your SmartPhone or tablet and download the **FREE Taco 0018e ECM Circulator Mobile App** to start taking control!



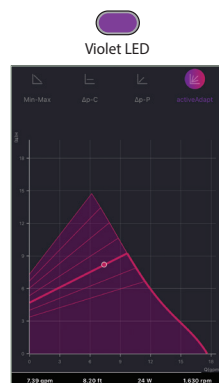
Infinitely Variable Fixed Speed



Nine Constant Pressure Curves



Nine Proportional Pressure Curves



activeADAPT: Self-adjusting Proportional Pressure

# Submittal Data Information Taco 00e® series — 0018e®

Submittal Data # 101-207  
Supersedes: 12/27/18

Effective: 03/05/21

## Specifications

- Max. Shut-off Head: 18 feet
- Max. Flow: 16 gpm
- Max. Operating Pressure:
  - Cast Iron: 125 psi (8.6 bar)
  - Stainless Steel: 150 psi (10 bar)
- Max. Water Temp: 230°F (110°C)
- Min. Water Temp: 36°F (2°C)
- Electrical specifications:
  - Voltage: 120V, 60 Hz
  - Single phase
  - Max. Operating Power: 44W
  - Max. AMP Rating: 0.54
- Cast iron casing suitable for closed loop systems only
- Stainless steel casing suitable for potable water or open systems
- Not suitable for chilled water
- Taco circulator pumps are for indoor use only
- Acceptable for use with water or maximum of 50% water/glycol solution

## Materials of Construction:

Casing: .....Cast Iron or  
Stainless Steel  
Stator Housing:.....Composite  
Cartridge:.....Composite  
Impeller:.....Composite  
Shaft:.....Ceramic  
Bearings:.....Carbon  
Thrust Bearing:.....Ceramic  
O-Ring & Gaskets:.....EPDM

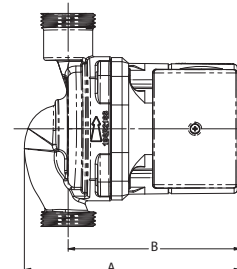
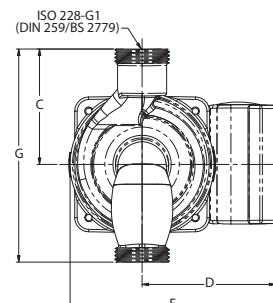
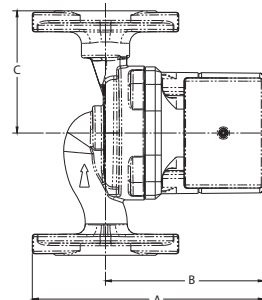
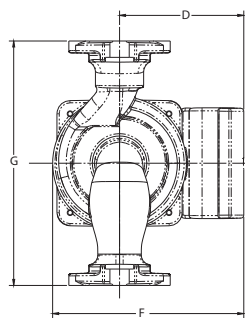


Certified to  
NSF/ANSI 61 & 372  
Stainless Steel  
models only



## Applications

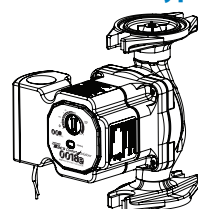
The 0018e is a variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor. Operating modes include infinitely variable fixed speed, constant pressure, proportional pressure or self-adjusting activeADAPT®. Stainless Steel models for use in potable water systems for domestic water recirculation. The 0018e is not suitable for chilled water systems.



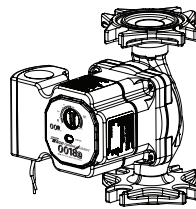
## Pump Dimensions & Weights

Model Number	Connection Type	Casing	A		B		C		D		F		G		Ship Wt.	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
0018e-2F2	Standard	CI	6	152	4-1/8	104	3-3/16	80	3-1/4	82	5	126	6-3/8	161	5.8	2.6
0018e-2F4	Universal	CI	6	152	4-1/8	104	3-3/16	80	3-1/4	82	5	126	6-3/8	161	6	3.7
0018e-SF4	Universal	SS	6	152	4-1/8	104	3-3/16	80	3-1/4	82	5	126	6-3/8	161	5.5	2.5
0018e-SU	Union	SS	5-1/6	131	4-1/8	104	3-3/16	80	3-1/4	82	5	126	5-1/8	130	4.6	2.1

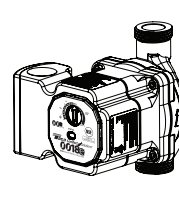
## Connection Types



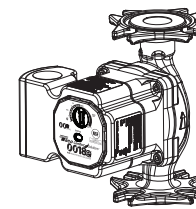
Cast Iron Standard Flange



Cast Iron Universal Flange



Stainless Steel Union



Stainless Steel Universal Flange

## 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					



A Taco Family Company

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