

0018e[®] ECM High-Efficiency Circulator

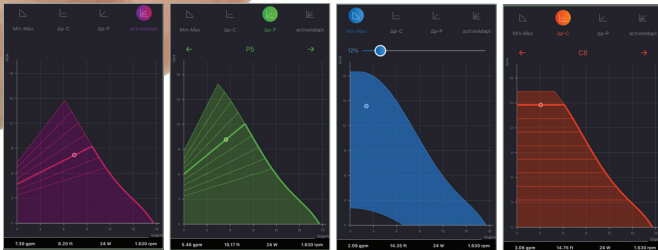
The 00e[®] series - 0018e featuring Bluetooth[®] is a versatile, variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor ideal for closed loop hydronic heating, open loop or domestic water applications. Download the Taco 0018e Mobile App to see and control real-time system 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!



ECM Circulator

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



©Taco Catalog #100-157
Supersedes: 03/26/21

Effective Date: 08/16/21
Printed in USA

Features & Benefits

Maximize system efficiency, maximize system control.



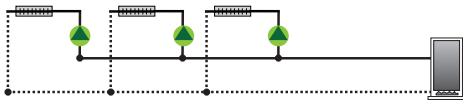
Use the Cast Iron 0018e with a Taco Switching Relay or Zone Valve Control

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)

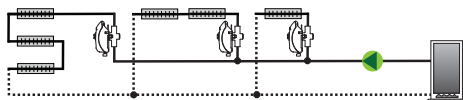
Typical Applications for Closed Loop Hydronic Heating Systems

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



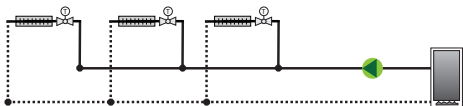
Constant Pressure Mode (ZV)

Across a series loop system using zone valves

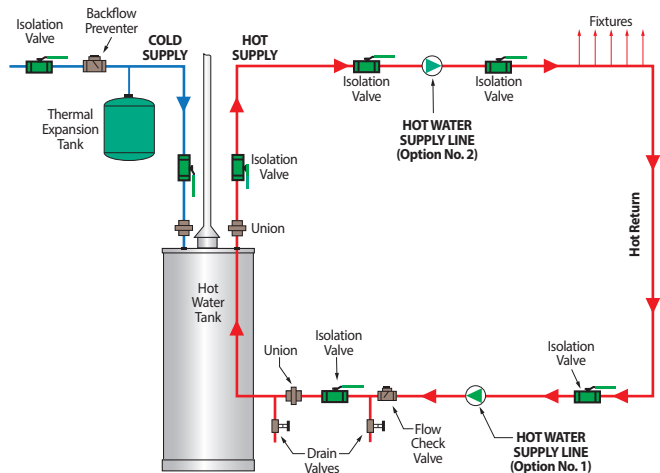


Proportional Pressure Mode (TRV) Across multiple panel radiators with thermostatic radiator valves

T = thermostatic radiator valve (TRV)



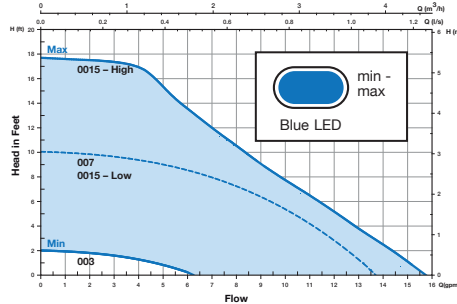
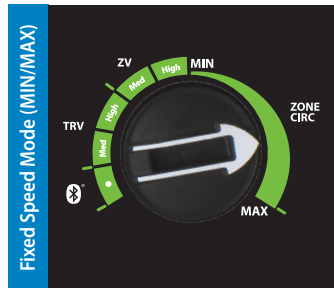
Typical Installation for Open Loop Hot Water Recirculation Systems



Modes & Performance

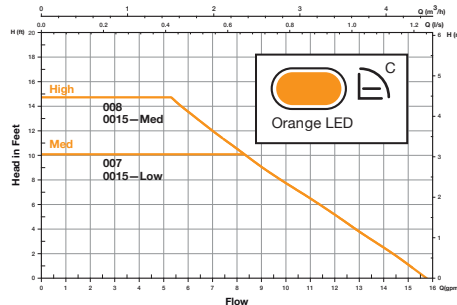
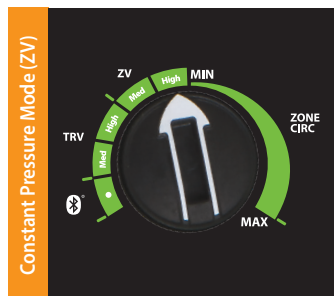
Versatility & dependability

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



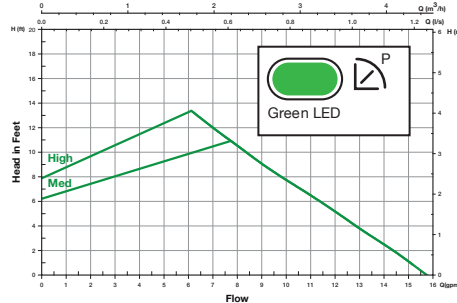
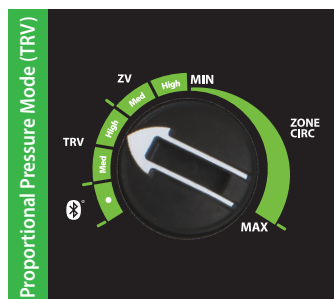
Fixed speed mode (Zone Circ) allows the installer to fine tune the circulator flow rate to precisely match design load conditions. It is infinitely variable between MIN/MAX settings.

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!

2-way Bluetooth communication

Blue LED

Infinitely Variable Fixed Speed

Orange LED

Nine Constant Pressure Curves

Green LED

Nine Proportional Pressure Curves

Violet LED

activeADAPT:
Self-adjusting Proportional Pressure

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

Submittal Data # 101-207
Supersedes: 03/05/21

Effective: 08/16/21

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

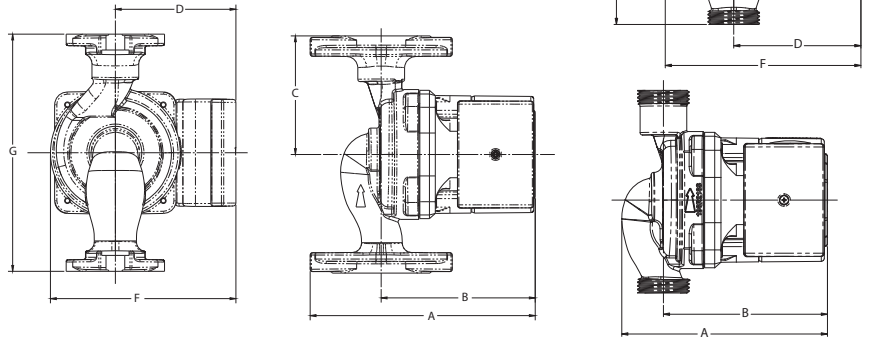


Certified to
NSF/ANSI 61 & 372
Stainless Steel
models only



Applications

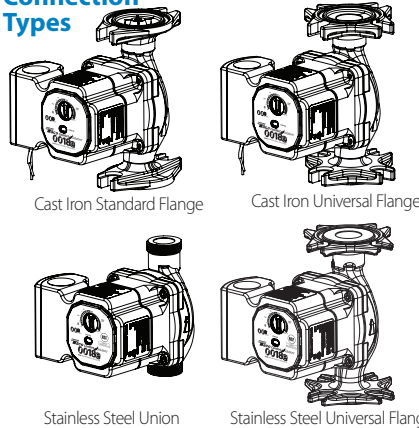
The 0018e is a variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor. Operating modes include infinitely variable fixed speed, constant pressure, proportional pressure or self-adjusting activeADAPT®. Stainless Steel models for use in potable water systems for domestic 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-5F4	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



HYDRAULIC ENERGY INSTITUTE RATING

Model #: 0018e
WAIP: 0.071

CIRCULATOR PUMP CEI: 0.39 (ER 188)

ENERGY RATING

152 188

Most Consumptive RANGE Least Consumptive

Note: The ER value is dependent on the selected control. Multiple options may be available on this pump, as follows:

- Full Speed
- Manual Speed Control
- Pressure (Rated)

Power savings (watts) over a baseline case can be estimated by multiplying the ER by WAIP and multiplying by 7.46. Multiplying power savings by operating hours and cost of energy will yield estimated cost savings.

4V2DBK er.pumps.org Apr 2021

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					



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Taco (Canada) Ltd., 8450 Lawson Road, Unit #3, Milton, Ontario L9T 0J8 / (905) 564-9422 / Fax (905) 564-9436