



Submittal Data Information

0034e

ECM High-Efficiency Circulator

101-192

Effective: March 10, 2020

Supersedes: New

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	

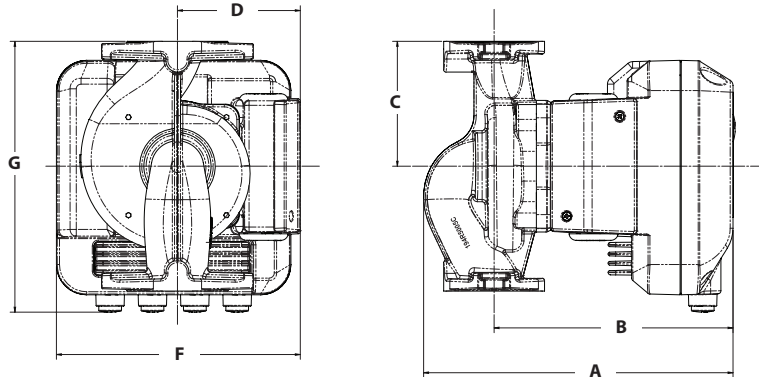
Specifications

- Maximum Shut-off Head: 34 feet
- Maximum Flow: 50 gpm
- Maximum Operating Pressure: 150 psi (10.3 bar)
- Maximum Water Temp: 230°F (110°C)
- Minimum Water Temp: 14°F (-10°C)
- Electrical specifications:
 - Voltage: 115V/208/230, 50/60 Hz
 - Single phase
 - Operating Power Range: 10 - 170W
 - Max. AMP Rating: 1.48 (115V) - 0.70 (230V)
- Equipped with a Cast Iron or Stainless Steel casing
- Suitable for chilled water systems
- Stainless Steel model suitable for open loop potable water systems
- Taco circulators are for indoor use only
- Acceptable for use with water or maximum of 50% water/glycol solution

Applications

Cast Iron Model: Closed loop, pressurized heating and chilled water HVAC systems
Stainless Steel Model: Open loop, potable water systems

The 0034e is a high-performance, variable speed, wet-rotor circulator with high-efficiency ECM permanent magnet technology. With 5 easy settings, its variable speed performance curves are equivalent to the Taco 009, 0010, 0011, 0012, 0012 3-Speed, 0013, 0013 3-Speed & 0014. Ideal for large residential and light commercial hydronic heating, chilled water cooling and domestic hot water systems. The 0034e reduces power consumption by up to 85% compared to equivalent AC permanent split capacitor circulators.



Pump Dimensions & Weights

Model Number Part Number	Casing	Flange Type	A	B	C	D	F	G	Wt.lbs. [kg]
			Inches [mm]						
0034e-F2 VM3450-HY1-FC2A00	Cast Iron	R	8.05" [205]	6.22" [158]	3.25" [83]	3.20" [81]	6.22" [158]	7.05" [179]	10.5 [4.8]
0034e-SF2 VM3450-HY1-FS2A00	Stainless Steel								

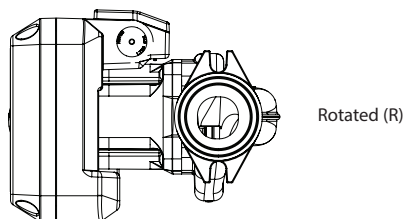
Materials of Construction:

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

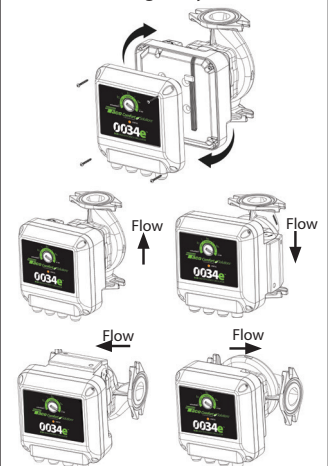
Electrical Data

Model	Volts	Hz	Ph	Max Amps	Watts	RPM
All Models	115/208/230	50/60	1	1.48	10 - 170	830 - 4300
Motor Type	ECM, Permanent Magnet, Electronically Protected					

Flange Orientation



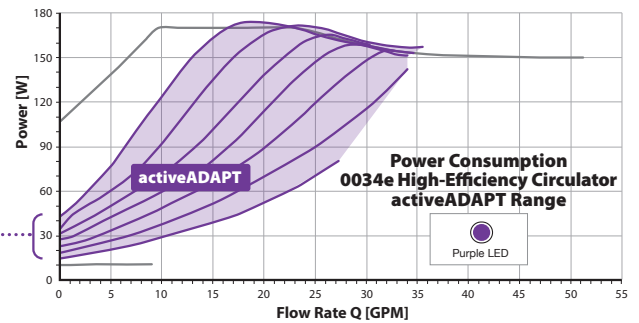
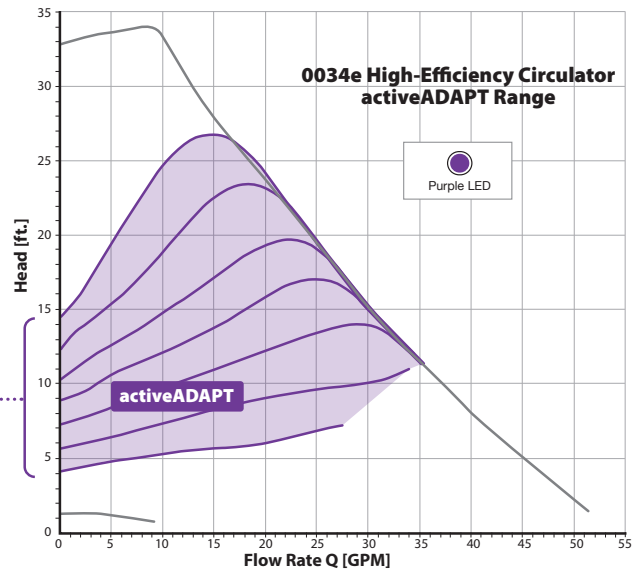
Rotatable Control Cover to allow mounting in any orientation



Certified to NSF/ANSI 61 & 372
 Stainless Steel Model

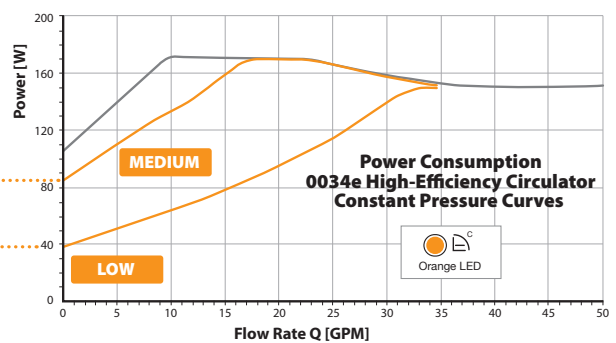
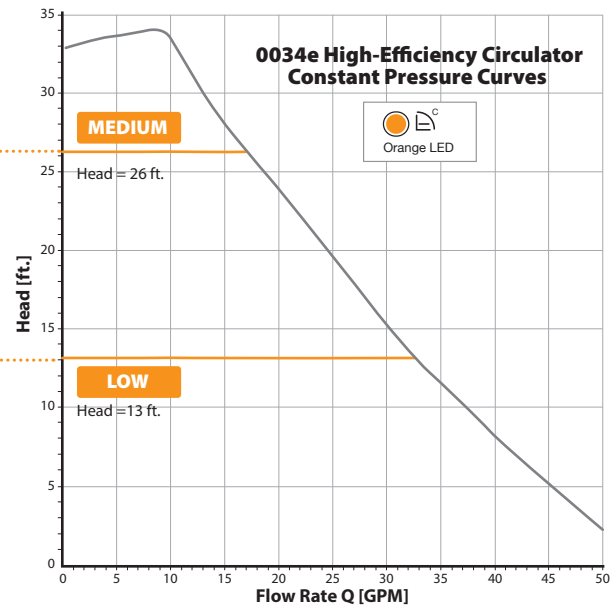
activeADAPT™ Mode:

activeADAPT is an operating mode designed for constant circulation systems. On this setting, the circulator will sense changes in system flow and head conditions and adjust the operating curve automatically.



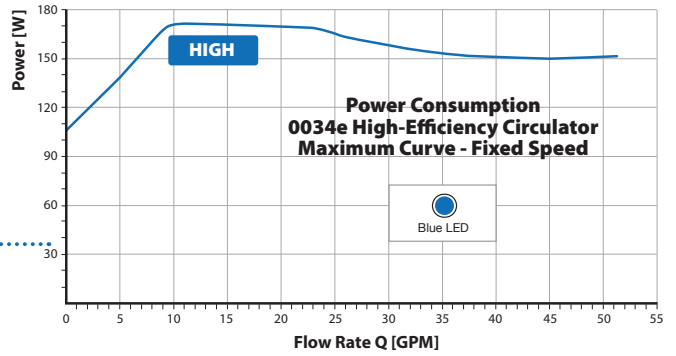
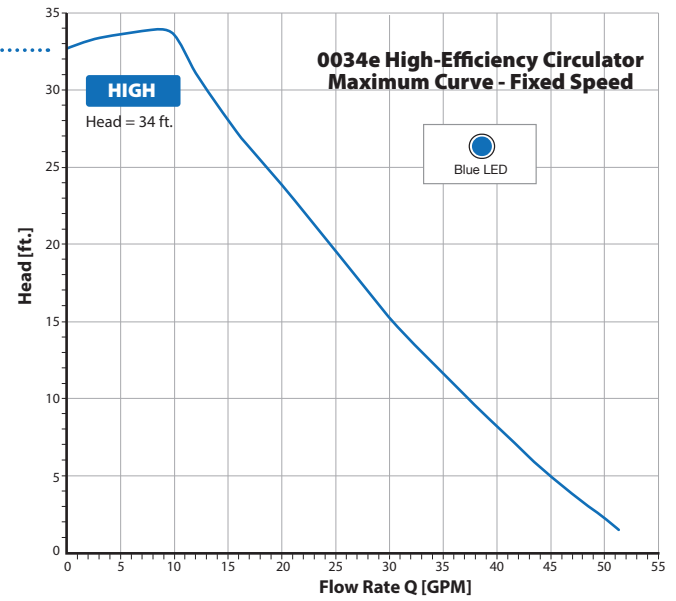
Constant Pressure Mode:

At Low setting the circulator will vary speed to maintain 13 feet of head constant pressure. At Medium setting the circulator will vary speed to maintain 26 feet of head constant pressure.



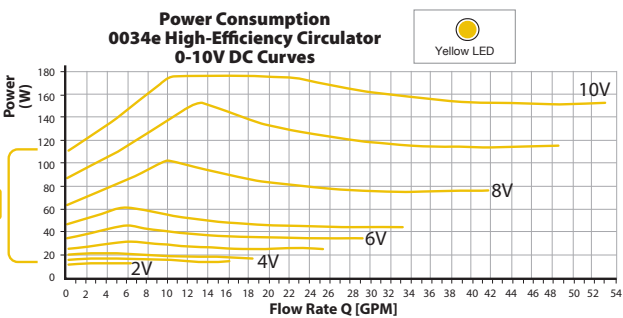
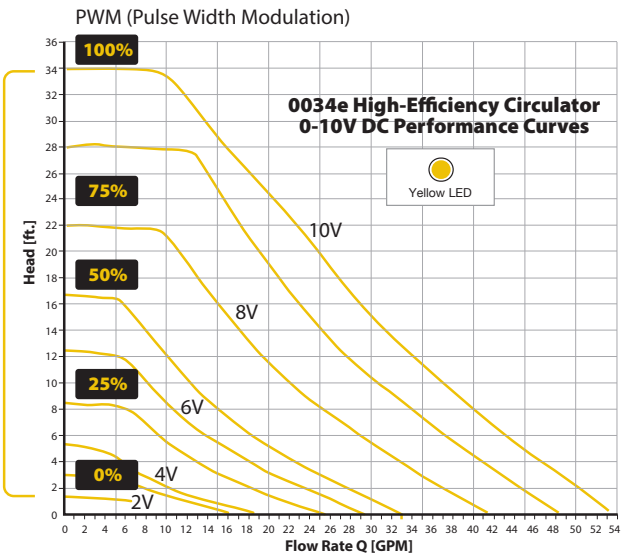
Fixed Speed Mode:

At High setting the circulator always operates at full speed.



0-10V DC or PWM External Input:

The circulator will vary its speed and performance based on a 0-10V DC analog or PWM digital signal external input.



0-10V

0-10V

Notes
