A Taco Family Company

Effective: August 1, 2023

Submittal Data Information **0034**

101-192

ECM High-Efficiency Circulator
Supersedes: December 17, 2021

Job:	
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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
- 6.5" Flange to Flange dimension retrofits most circulators in its class

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







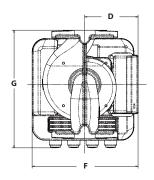


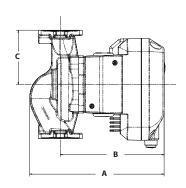
Stainless Steel Model

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.





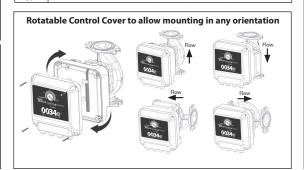


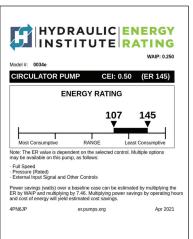
Pump Dimensions & Weights

Model Number	Ci	Flange	Α	В	C	D	F	G	Wt.lbs.
Model Number	Casing	Type		Inches [mm]					[kg]
0034e-F2	Cast Iron	R	8.05"	3.05" 6.22"	3.25″	3.20"	6.22"	7.05"	10.5
0034e-SF2	Stainless Steel		R [205]	[158]	[83]	[81]	[158]	[179]	[4.8]

Electrical Data

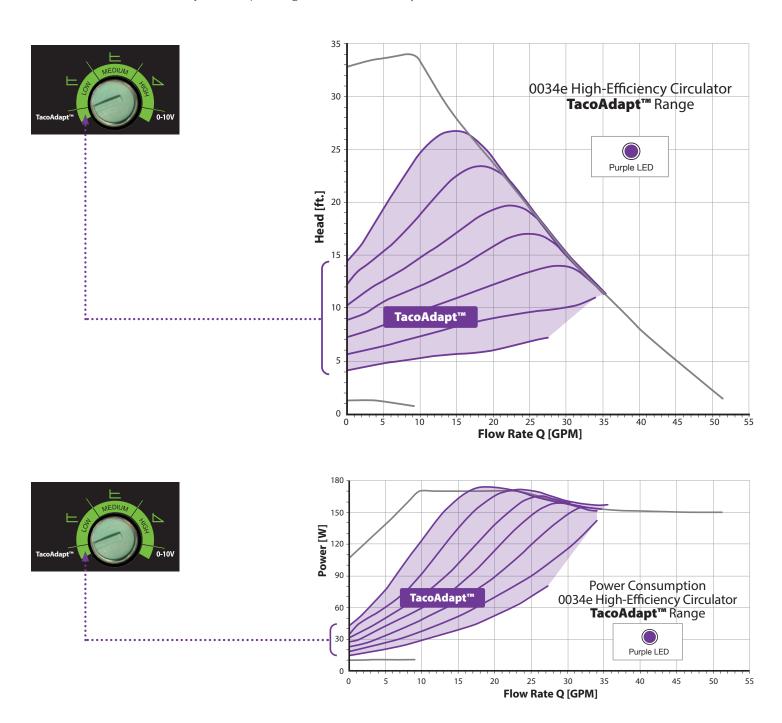
Model	Volts	Hz	Ph Max Amps		Watts	RPM	
All Models	115/208/230	50/60	1	1.48	10 - 170	830 - 4300	
Motor Type	tor De ECM, Permanent Magnet, Electronically Protected						





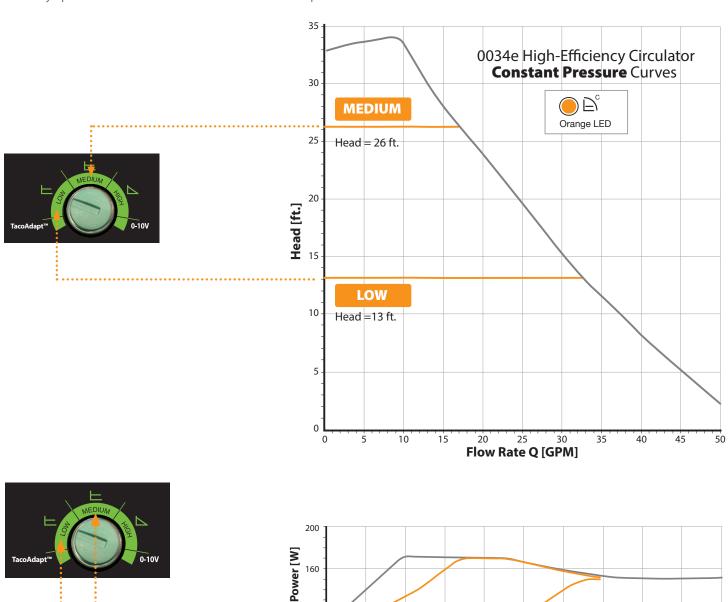
TacoAdapt™ Mode:

TacoAdapt™ 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.



LOW

MEDIUM

10

Power Consumption 0034e High-Efficiency Circulator **Constant Pressure** Curves

Orange LED

35

50

25

Flow Rate Q [GPM]

30

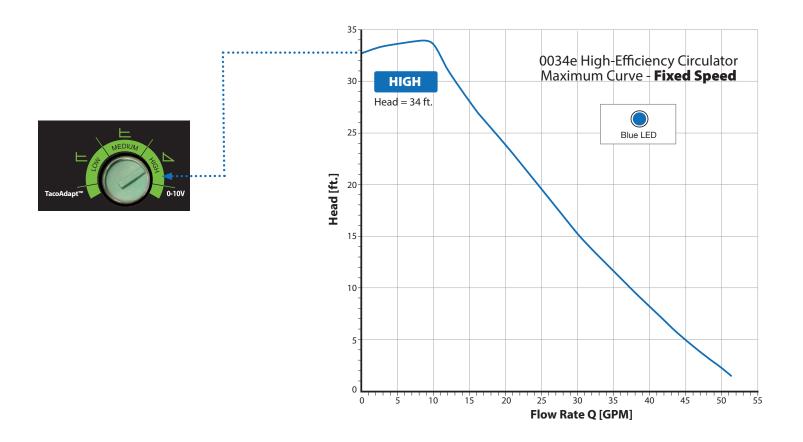
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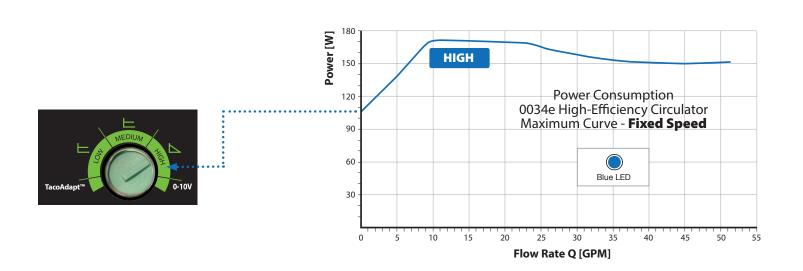
80

40

Fixed Speed Mode:

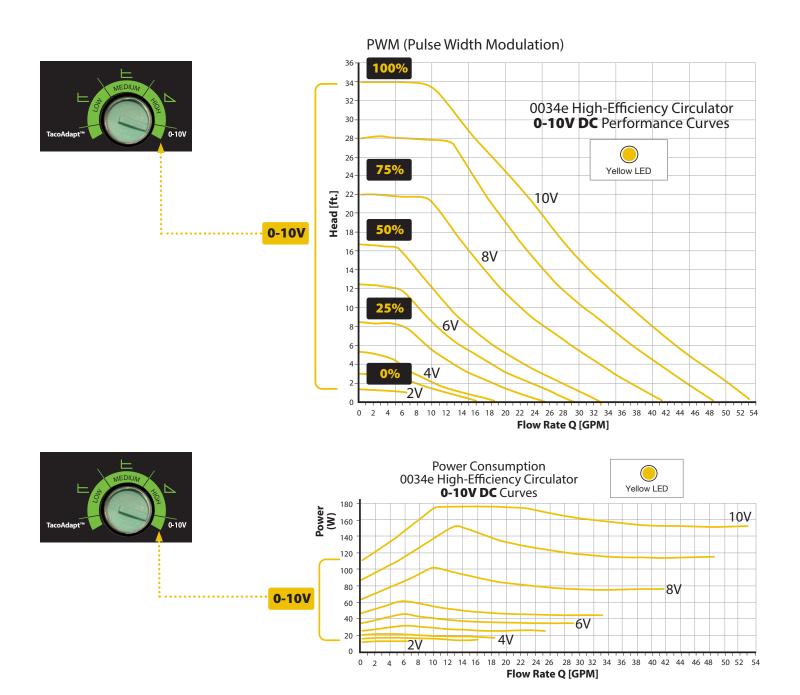
At High setting the circulator always operates at full speed.





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.





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