



### 0034ePlus™ ECM High-Efficiency Circulator

The 0034ePlus™ is a high-performance, variable speed, wet-rotor circulator with high-efficiency ECM permanent magnet technology. An intuitive digital user interface lets you choose between a variety of operating modes; **TacoAdapt™**, five Constant Pressure curves, five Proportional Pressure curves, Min/Max fixed speed or speed control through 0-10V DC or PWM external input. Ideal for large residential and light commercial hydronic heating, chilled water cooling and domestic hot water systems. The 0034ePlus reduces power consumption by up to 85% compared to equivalent AC permanent split capacitor circulators. With a maximum of 34 feet of head and 50 gpm, it is available in either Cast Iron or NSF certified Stainless Steel



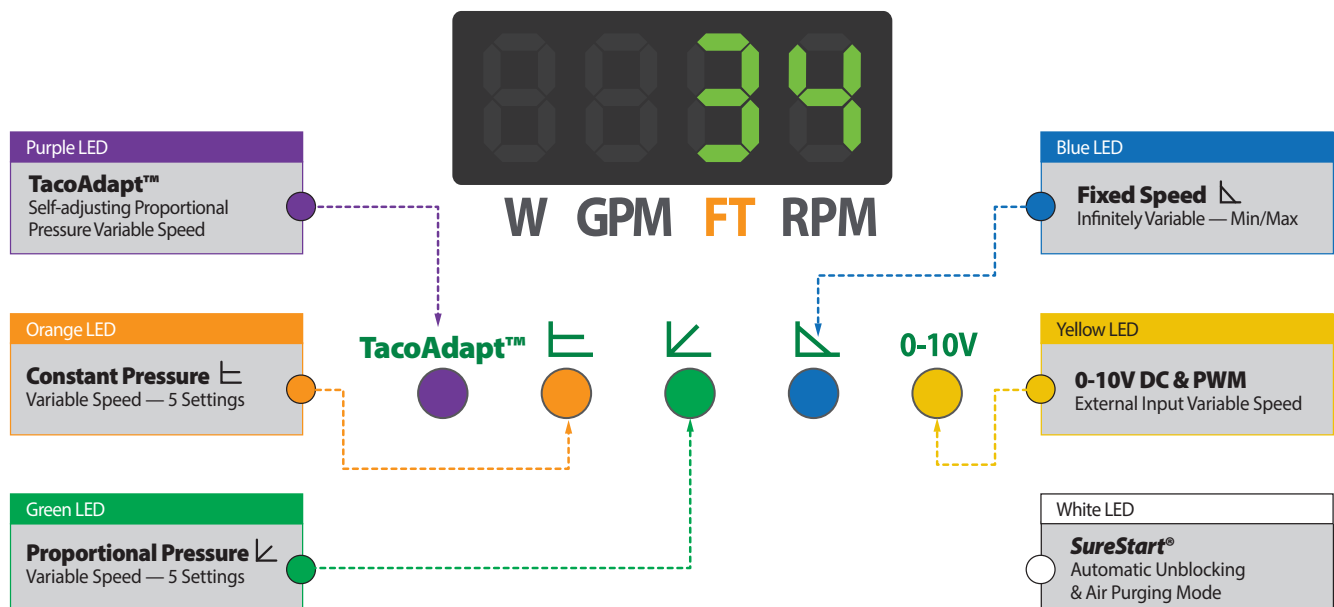
## Applications



### APPLICATION:

- Maximum operating pressure: 150 psi (10.3 bar)
- Minimum NPSHR: 18 psi at 203°F (95°C)
- Maximum fluid temperature: 230°F (110°C)
- Minimum fluid temperature: 14°F (-10°C)
- Electrical specifications:
  - Voltage: 115/208/230V, 50/60 Hz, single phase
  - Maximum operating power: 170W
  - Maximum amp rating: 1.48 (115V) / .70 (230V)
- Equipped with a cast iron or stainless steel casing
- 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

## Intuitive Digital Interface



## Features



Cast Iron



Stainless Steel

### FEATURES:

- Simple 3-button control
- Digital LED screen displays; Watts, GPM, Head, RPM and diagnostic error codes
- Five operating modes to match any system requirements — **TacoAdapt™**, Constant Pressure, Proportional Pressure, Min/Max Fixed Speed or speed control through 0-10V DC or PWM external input
- **BIO Barrier®** protects the pump from system contaminants
- **SureStart®** automatic unblocking and air purging mode
- Replaces all single speed and 3-speed circulators in its class
- Use with a Taco ZVC Zone Valve Control or SR Switching Relay for ON/OFF operation
- Nut-grabber feature on flanges for easier fit-up
- Dual electrical knockouts and removable quick-connect terminal strip for easy wiring
- Whisper quiet operation
- Rotatable control cover to simplify installation

### Pump Replacement Chart

(6-1/2" Flange-to-Flange Dimension)

Taco	Bell & Gossett	Armstrong	Grundfos	Wilco
2400-10	PL 50	E 11	TP(E) 32-40	Stratos:
2400-20	PL 45	E 10	UP 50-75	1.25 x 3 – 35
2400-30	PL 36	E 8	UPS 43-100	1.25 x 3 – 30
2400-40	PL 30	E 7	UPS 50-44	1.25 x 3 – 25
110	E90 1AAB	S 25	UP 43-75	1.25 x 3 – 20
111	Series 60 (601)	H 63	UP(S) 43-44	
112	Series HV	H 52	UP 26-116	Top S:
113	Series PR	H 51	UP(S) 26-99	1.25 x 15
009	Series HV	Astro 290	UP 26-96	1.25 x 25
0010	Series 100	Astro 280	UP 26-64	1.25 x 35
0011	NRF 45	Astro 210	UPS 32-40	1.50 x 20
0012	NRF 36	1050 1B	UPS 32-80	
0013	ECOCirc XL 36-45	1050 1 1/4B	Magna 32-100	Top Z:
0014		Compass ECM	Magna 32-60	1.5 x 15
VR3452			Alpha2 26-99	1.5 x 20

NOTE: Flange size and flange-to-flange dimensions will vary by competitive model and may require some piping changes.



Intertek  
4001998  
CONFORMS TO:  
UL STD. 778  
CERTIFIED TO:  
CAN/CSA STD.  
C22.2 NO. 108



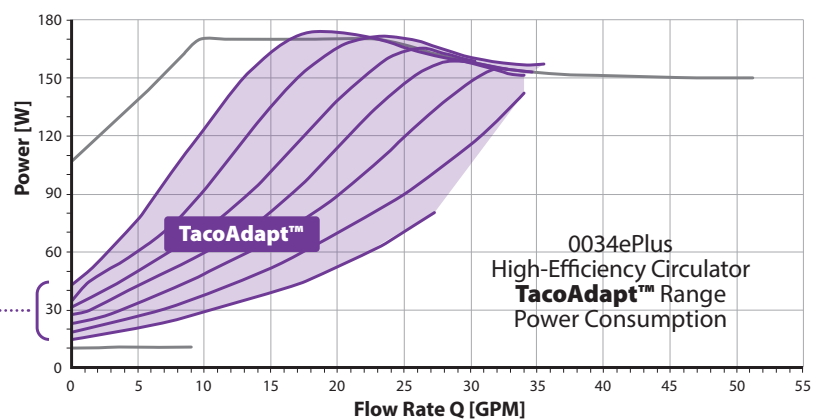
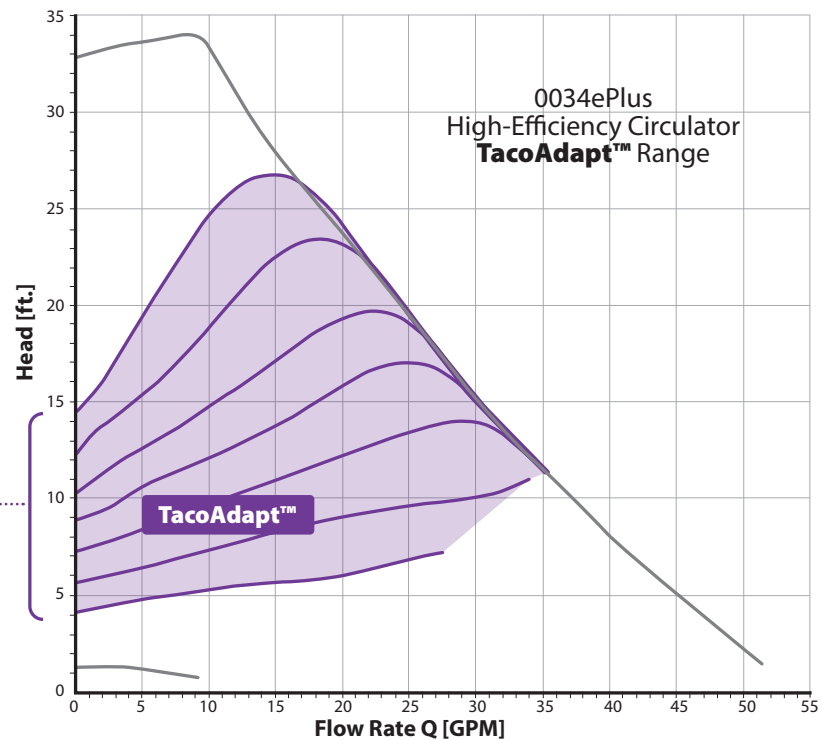
Certified to  
NSF/ANSI CAN  
61 & 372

Stainless Steel  
Model Only

## Performance Curves

### TacoAdapt™ Mode:

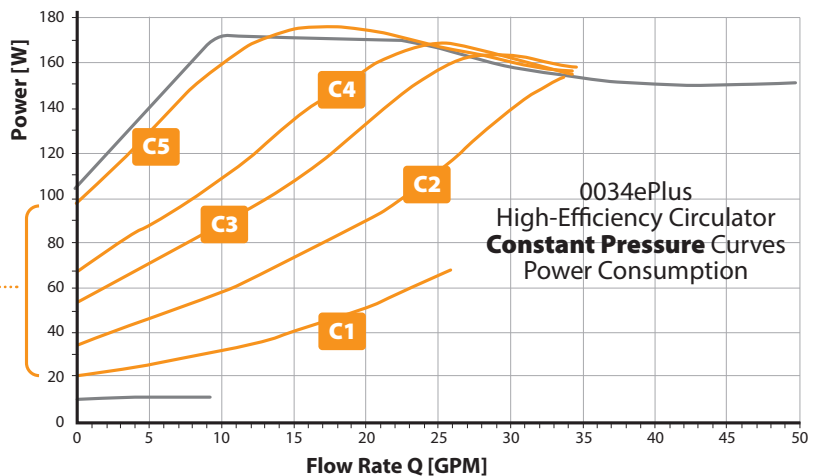
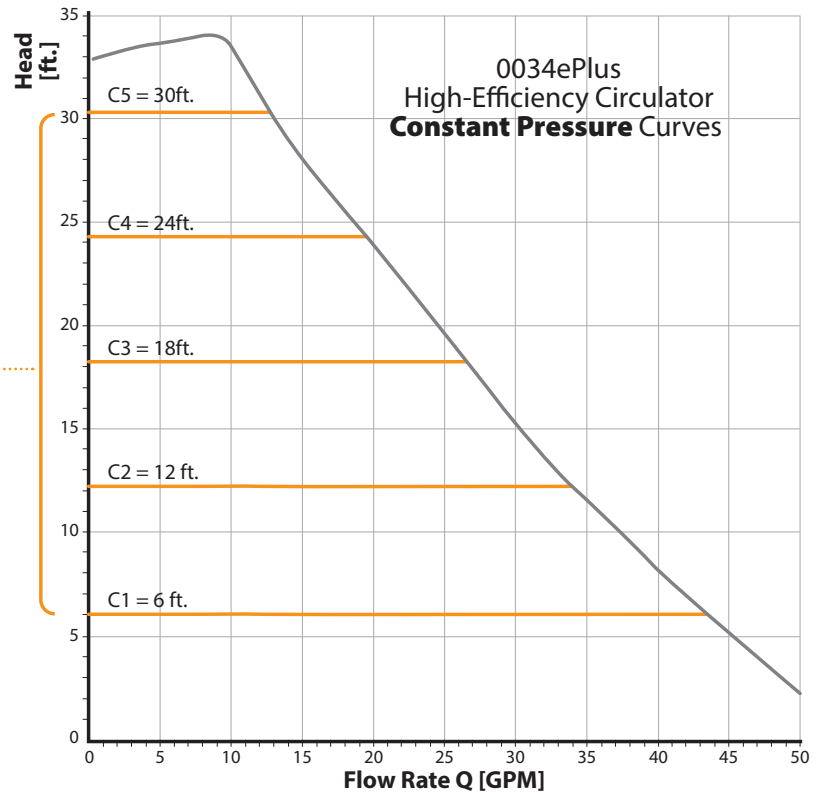
**TacoAdapt™** is an operating mode designed for constant circulation systems. On this setting, the circulator will sense changes in system flow and head conditions and adjust the operating curve automatically.



## Performance Curves

### Constant Pressure Mode:

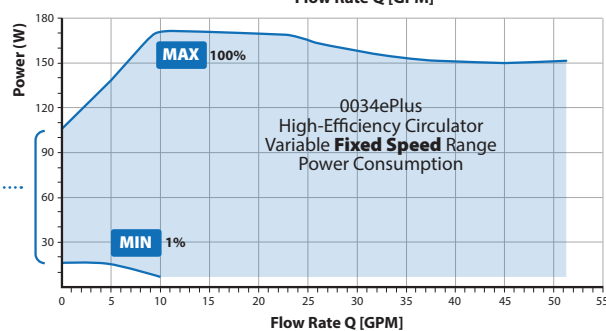
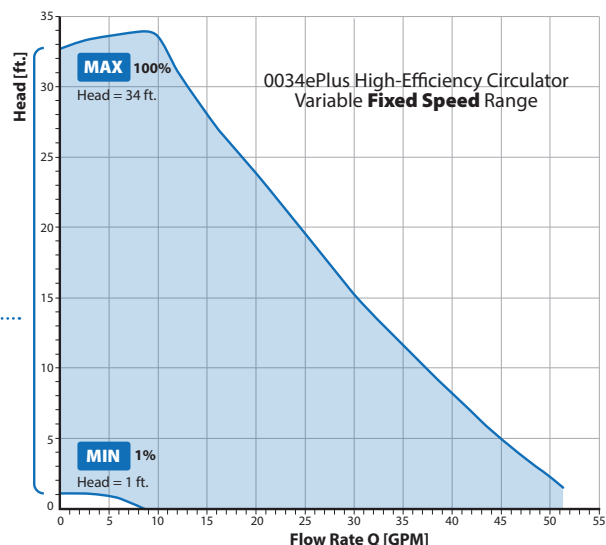
Circulator will vary speed to maintain desired feet of head constant pressure curve. There are 5 setting options: 6 - 30 feet.



## Performance Curves

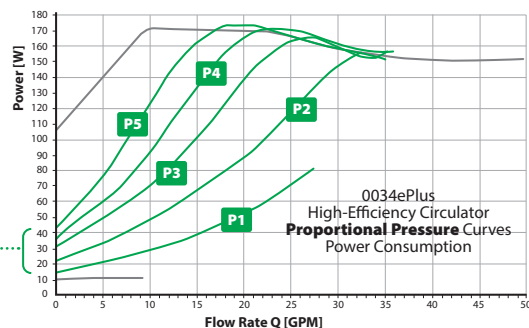
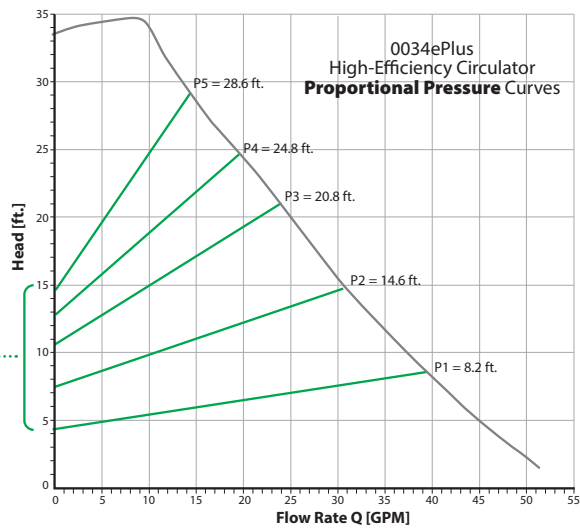
### Variable Fixed Speed Mode:

Circulator operates at fixed speed between 1 - 100%



### Proportional Pressure Mode:

Circulator will vary speed to maintain desired feet of head proportional pressure curve. There are 5 setting options: 8.2 - 28.6 ft.





## Performance Curves

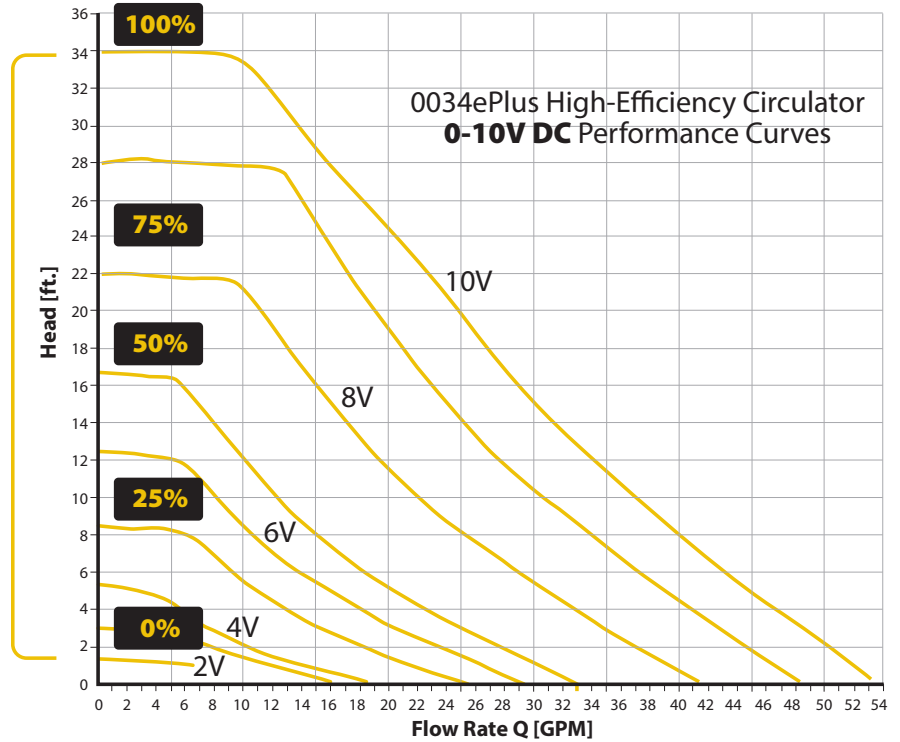
### 0-10V DC or PWM External Input:

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



0-10V

### PWM (Pulse Width Modulation)



### Power Consumption 0034ePlus High-Efficiency Circulator 0-10V DC Curves

