

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



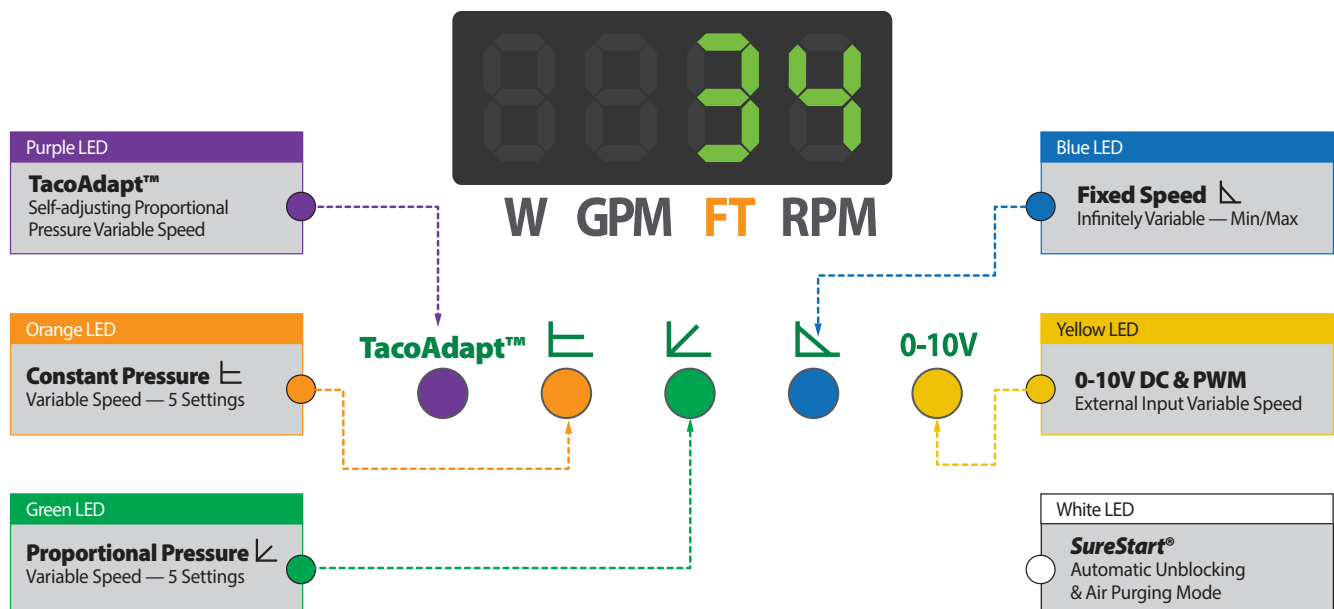
Applications



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 | Wilo |
|---------|------------------|-------------|--------------|---------------|
| 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



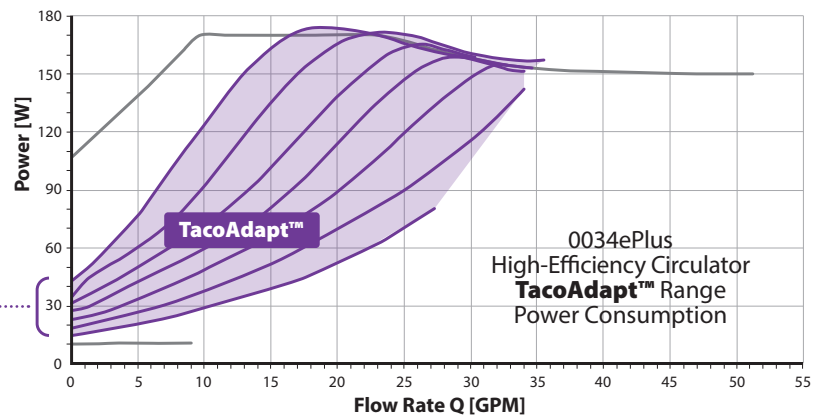
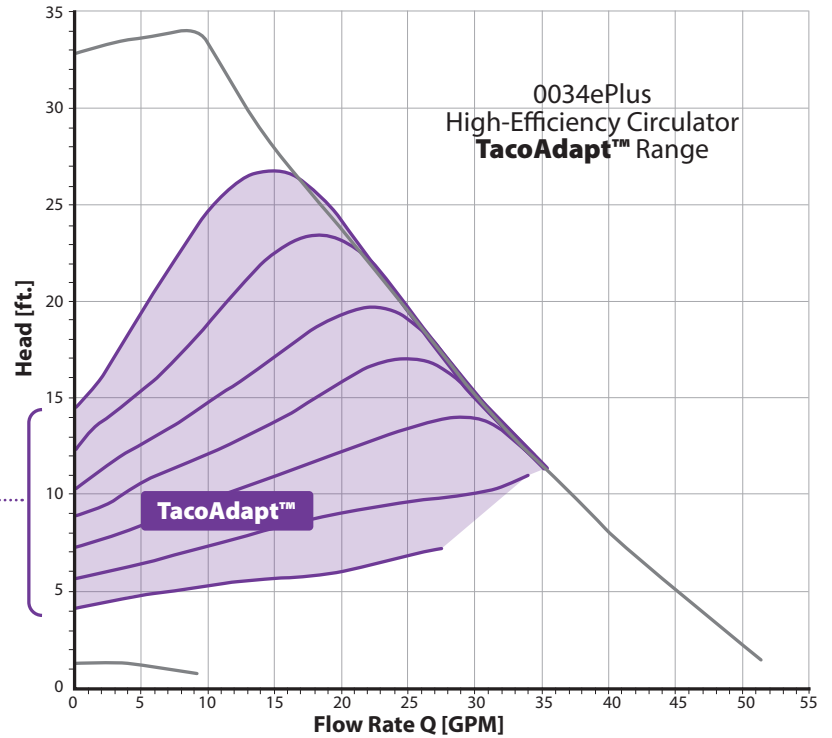
Certified to
NSF/ANSI/CAN 61
& 372

Stainless Steel
Model Only

Performance Curves

TacoAdapt™ Mode:

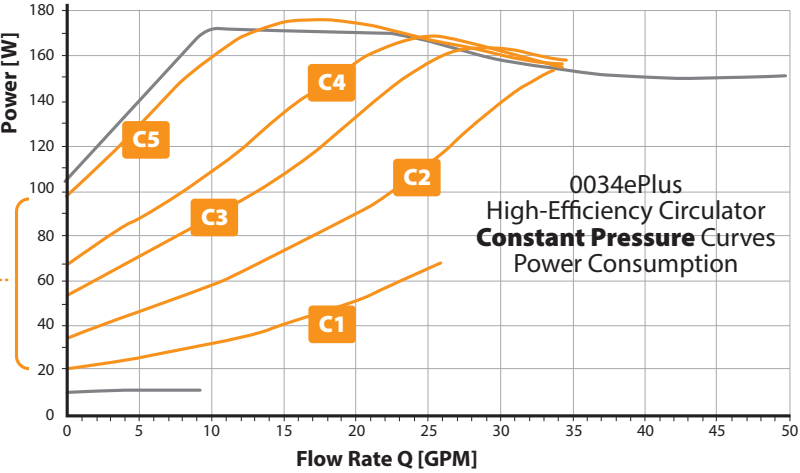
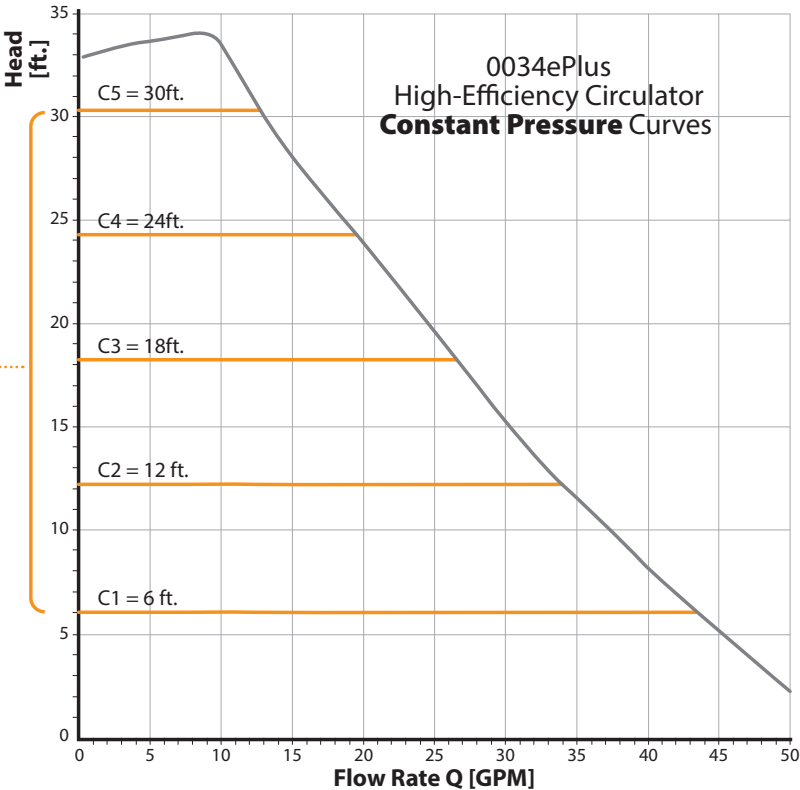
TacoAdapt™ is an operating mode designed for constant circulation systems. On this setting, the circulator will sense changes in system flow and head conditions and adjust the operating curve automatically.



Performance Curves

Constant Pressure Mode:

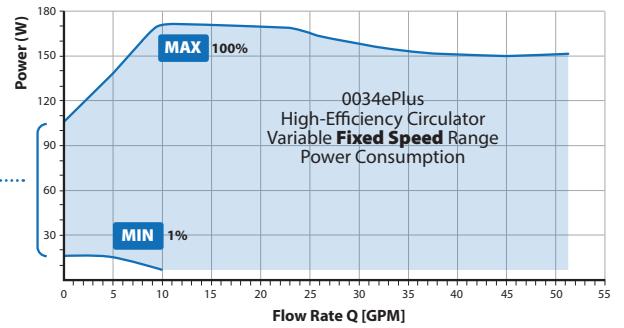
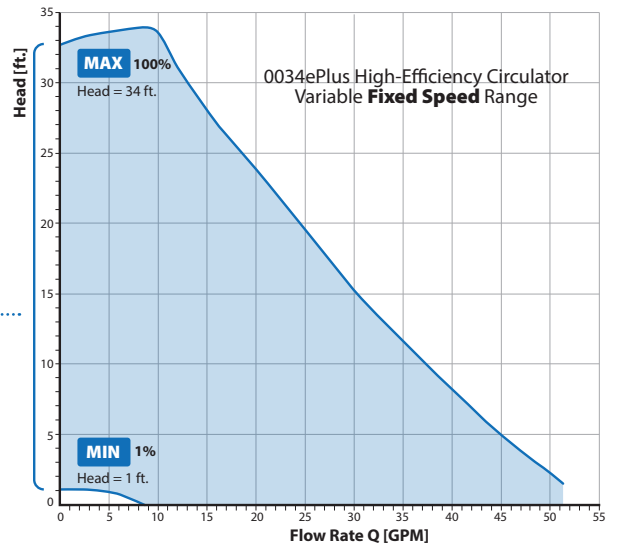
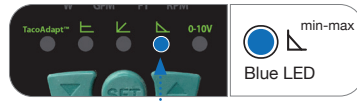
Circulator will vary speed to maintain desired feet of head constant pressure curve. There are 5 setting options: 6 - 30 feet.



Performance Curves

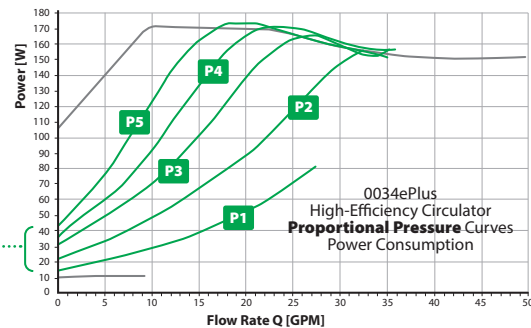
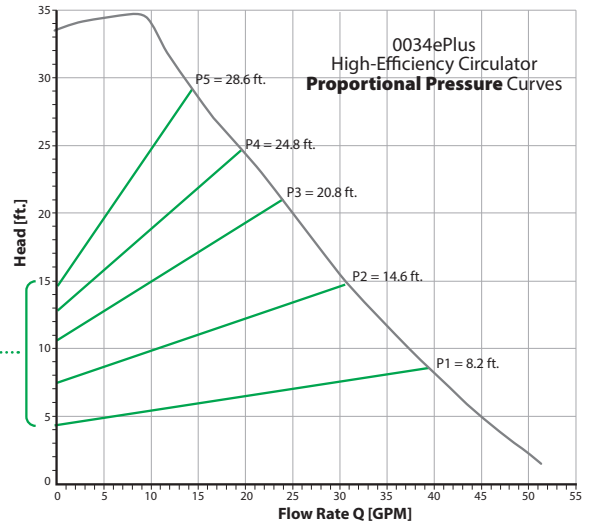
Variable Fixed Speed Mode:

Circulator operates at fixed speed between 1 - 100%



Proportional Pressure Mode:

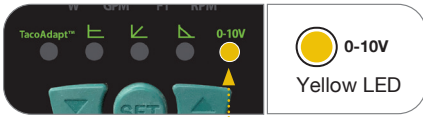
Circulator will vary speed to maintain desired feet of head proportional pressure curve. There are 5 setting options: 8.2 - 28.6 ft.



Performance Curves

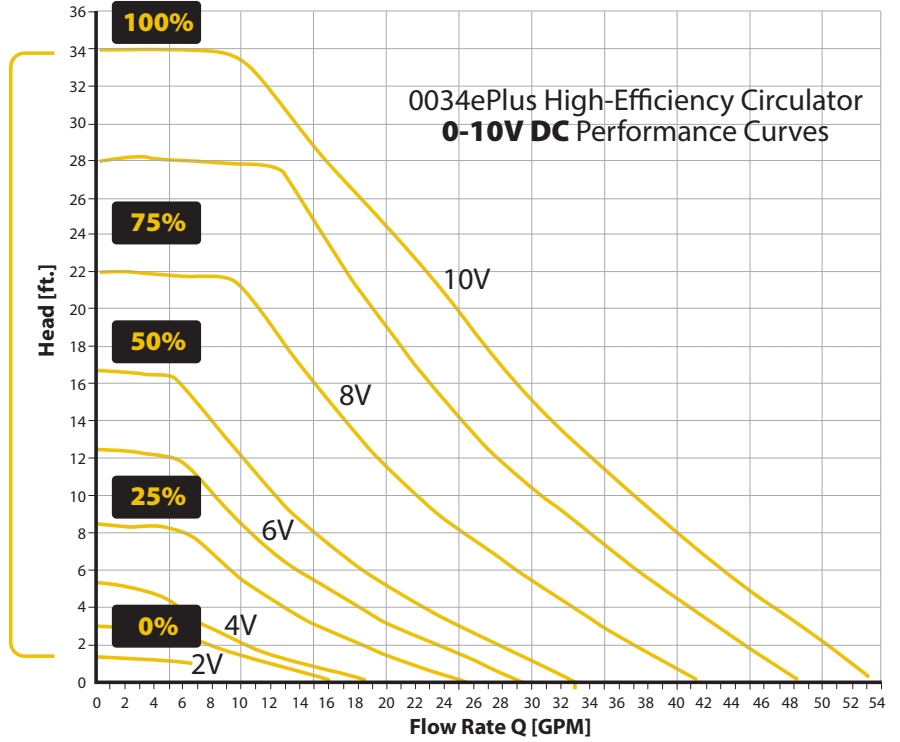
0-10V DC or PWM External Input:

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



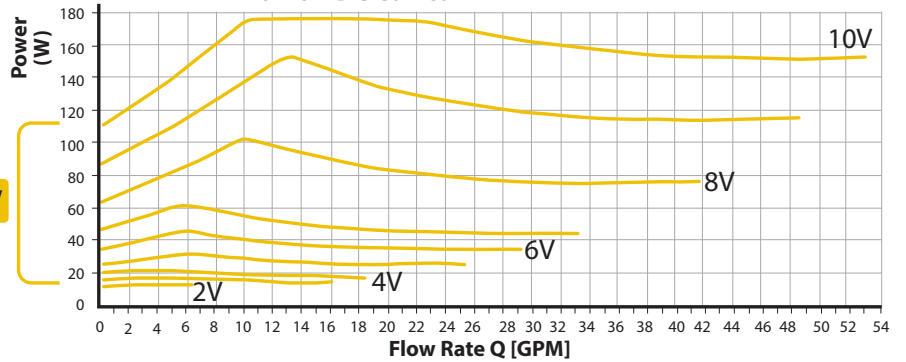
0-10V

PWM (Pulse Width Modulation)



0-10V

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



Submittal Data Information 0034ePlus™ ECM Circulator

Submittal Data # 101-193
Supersedes: 12/20/21

Effective: 08/02/23

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

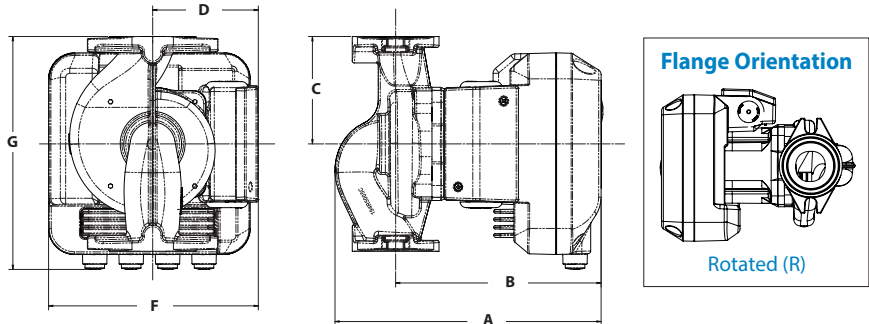
Materials of Construction:

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

Applications

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

The 0034ePlus is a high-performance, variable speed, wet-rotor circulator with high-efficiency ECM permanent magnet technology. With 5 easy settings and an intuitive digital interface, 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 0034ePlus reduces power consumption by up to 85% compared to equivalent AC permanent split capacitor circulators.



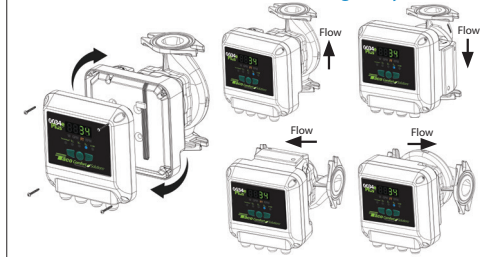
Pump Dimensions & Weights

| Model Number | Casing | Flange Type | A | B | C | D | F | G | Lbs. [kg] |
|--------------|-----------------|-------------|-------------|-------------|------------|------------|-------------|-------------|------------|
| | | | Inches [mm] | | | | | | |
| 0034eP-F2 | 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] |
| 0034eP-SF2 | Stainless Steel | | | | | | | | |

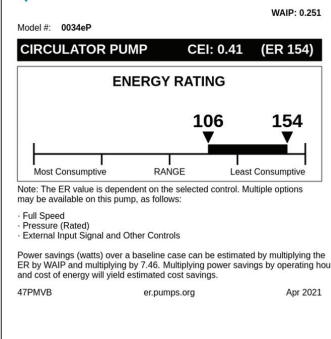
Electrical Data

| 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 | | | | | |

Rotatable Control Cover to allow mounting in any orientation



HYDRAULIC ENERGY INSTITUTE RATING



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

Stainless Steel
Model Only



A Taco Family Company

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