

### Model 003 Cartridge Circulator

The compact Taco 003 Cartridge Circulator is designed for circulating hot and chilled fresh water in open and closed loop, lower flow applications. Reduces erosion corrosion and flow noise in shorter pipe run systems. Its unique, field-serviceable cartridge contains all moving parts. Replacing the cartridge rebuilds the circulator. With no mechanical seal, the self-lubricating, maintenance free design provides quiet, efficient operation and unmatched reliability. Available in low lead Bronze or Stainless Steel construction with Sweat, Threaded or Union connections.



Stainless Steel Model

**NSF® ≤ .25% Lead**

Meets California AB 1953  
and Vermont Act 193



# Submittal Data Information Model 003 Cartridge Circulator

Submittal Data # 101-061

Supersedes: 04/22/10

Effective: 06/01/11

## Features

- Reduces erosion corrosion and flow noise in shorter pipe run applications
- Standard High Capacity Output-Compact Design
- Quiet, Efficient Operation
- Direct Drive-Low Power Consumption
- Unique Replaceable Cartridge Design-Field Serviceable
- Self Lubricating
- No Mechanical Seal
- Unmatched Reliability-Maintenance Free
- Low lead Bronze or Stainless Steel construction with Sweat, Threaded or Union Connections

## Materials of Construction

|                   |                                    |
|-------------------|------------------------------------|
| Casing (Volute):  | Low Lead Bronze or Stainless Steel |
| Stator Housing:   | Steel                              |
| Cartridge:        | Stainless Steel                    |
| Impeller:         | Non-Metallic                       |
| Shaft:            | Ceramic                            |
| Bearings:         | Carbon                             |
| O-Ring & Gaskets: | EPDM - Chlorine Resistant          |

## Model Nomenclature

|    |                                            |
|----|--------------------------------------------|
| B  | - Bronze, 3/4" Sweat                       |
| BC | - Bronze, 1/2" Sweat, Panel Mount Tappings |
| ST | - Stainless Steel, 3/4" Threaded           |
| SC | - St. Steel, Union, Panel Mount Tappings   |

## Performance Data

Flow Range: 0 – 7 GPM  
Head Range: 0 – 4.5 Feet  
Minimum Fluid Temperature: 40°F (4°C)  
Maximum Fluid Temperature: 220°F (104°C)  
Maximum Working Pressure: 125 psi  
Connection Sizes: 1/2" Swt, 3/4" Swt, 3/4" NPT, or Union



**FOR INDOOR USE ONLY**

NSF® ≤ .25% lead

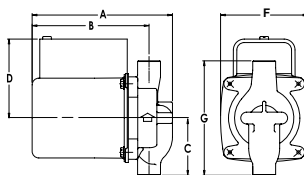
Complies with California Health and Safety Code Section 116875 / AB1953 and Vermont Act 193

## Application

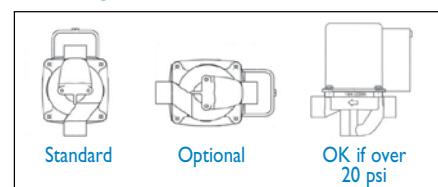
The Taco 003 is designed for circulating hot or chilled fresh water in open or closed loop, lower flow applications. Flow characteristics are ideal for Domestic Hot Water Recirculation, Heat Recovery units, Water Source Heat Pumps, and Potable Water systems. The unique, replaceable cartridge contains all of the moving parts and allows for easy service instead of replacing the entire circulator. The compact, low power consumption design is ideal for high efficiency jobs.

## Pump Dimensions & Weights

| Model     | Conn     | A      |     | B       |     | C       |    | D      |    | F      |    | G       |     | Ship Wt. |     |
|-----------|----------|--------|-----|---------|-----|---------|----|--------|----|--------|----|---------|-----|----------|-----|
|           |          | in.    | mm  | in.     | mm  | in.     | mm | in.    | mm | in.    | mm | in.     | mm  | lbs.     | Kg  |
| 003-B4    | 3/4" Swt | 5-1/8  | 130 | 4-1/8   | 105 | 2-3/16  | 56 | 3-1/16 | 78 | 3-5/16 | 84 | 4-13/32 | 112 | 6.0      | 2.7 |
| 003-BC4   | 1/2" Swt | 5-1/8  | 130 | 4-1/8   | 105 | 2-1/8   | 54 | 3-1/16 | 78 | 3-5/16 | 84 | 4-1/4   | 108 | 6.0      | 2.7 |
| 003-ST4   | 3/4" NPT | 5-5/8  | 143 | 4-7/8   | 124 | 2       | 51 | 3-1/16 | 78 | 3-5/16 | 84 | 4       | 102 | 6.0      | 2.7 |
| 003-SC4-I | Union    | 5-5/32 | 131 | 4-11/32 | 110 | 2-31/32 | 76 | 3-1/16 | 78 | 3-5/16 | 84 | 5-15/16 | 151 | 6.0      | 2.7 |



## Mounting Positions



## Electrical Data

| Model          | Volts                                            | Hz | Ph | Amps | RPM  | HP   |
|----------------|--------------------------------------------------|----|----|------|------|------|
| 003 All Models | 115                                              | 60 | 1  | .43  | 3250 | 1/40 |
| Motor Type     | Permanent Split Capacitor<br>Impedance Protected |    |    |      |      |      |
| Motor Options  | 220/50/1, 220/60/1, 230/60/1, 100/110/50/60/1    |    |    |      |      |      |

## Performance Field - 60Hz

