## **Model 009 Cartridge Circulator**

The High Velocity series Taco 009 cartridge circulator is designed for quiet, efficient operation in higher-head/lower-flow applications for hydronic heating, radiant in-floor/panel heating, solar heating, heat recovery, and domestic water recirculation 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 unmatched reliability. Available in Cast Iron or Stainless Steel construction.





## **Submittal Data Information Model 009 Cartridge Circulator**

Submittal Data # 101-032 Supersedes: 09/1/03



Effective: 02/10/09

#### **Features**

- · 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
- · Universal flange to flange dimensions
- Cast Iron or Stainless Steel construction

#### **Materials of Construction**

Casing (Volute): Cast Iron or Stainless Steel

Stator Housing: Aluminum Stainless Steel Cartridge: Non-Metallic Impeller: Shaft: Ceramic Bearings: Carbon O-Ring & Gaskets: EPDM

#### **Model Nomenclature**

F - Cast Iron, Flanged

SF - Stainless Steel, Flanged

#### **Variations:**

- Z Zoning Circulator
- Bronze cartridge with Cast Iron casing

#### **Performance Data**

Flow Range: 0 - 10 GPM Head Range: 0 - 35 Feet

Minimum Fluid Temperature: 40°F (4°C) Maximum Fluid Temperature: 230°F (110°C)

Maximum Working Pressure: 125 psi

Connection Sizes: 3/4", I", I-I/4", I-I/2" Flanged



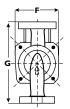
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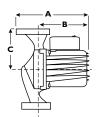
#### **Application**

The Taco 009 is designed for a wide range of residential and light commercial higher-head/lowerflow water circulating applications. Typical uses include hydronic heating, radiant in-floor/panel heating and closed-loop solar heating systems. The Stainless Steel 009 can be used in higherhead/lower-flow heat recovery, open-loop solar heating and light commercial domestic water recirculation systems. The unique replaceable cartridge contains all of the moving parts and allows for easy service, instead of replacing the entire circulator. Compact, direct-drive, low power consumption design is ideal for high-efficiency jobs.

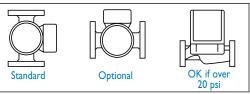
#### **Pump Dimensions & Weights**

		Α		В		С		D		F		G		Ship Wt.	
Model	Casing	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
009-F5	Cast Iron	7	178	5-11/16	144	3-3/16	81	3-5/16	84	4-1/8	105	6-3/8	162	9.5	4.3
009-SF5	St. Steel	7	178	5-11/16	144	3-3/16	81	3-5/16	84	4-1/8	105	6-3/8	162	9.5	4.3





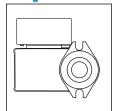
# **Mounting Positions**



#### **Electrical Data**

Model	Volts	Hz	Ph	Amps	RPM	HP				
009-F5	115	60	1	1.40	3250	1/8				
009-SF5	115	60		1.40	3250	1/8				
Motor Type	Permanent Split Capacitor Impedance Protected									
Motor Options	220/50/1, 220/60/1, 230/60/1, 100/110/50/60/1									

### **Flange Orientation**



#### Performance Field - 60Hz

