

# Submittal Data Information Model 009 Cartridge Circulator

Submittal Data # 101-032  
Supersedes: 101-032 Dated: 07/1/01

Effective: 09/1/03

## 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 Bronze Construction

## Materials of Construction

Casing (Volute):	Cast Iron or Bronze
Stator Housing:	Aluminum
Cartridge:	Stainless Steel
Impeller:	Non-Metallic
Shaft:	Ceramic
Bearings:	Carbon
O-Ring & Gaskets:	EPDM

## Model Nomenclature

F – Cast Iron, Flanged  
BF – Bronze, Flanged

### Variations:

Z – Zoning Circulator  
J – Bronze Cartridge with Cast Iron Casing

## Performance Data

Flow Range: 0 – 8 GPM  
Head Range: 0 – 34 Feet  
Minimum Fluid Temperature: 40°F (4°C)  
Maximum Fluid Temperature: 230°F (110°C)  
Maximum Working Pressure: 125 psi  
Connection Sizes: 3/4", 1", 1-1/4", 1-1/2" Flanged



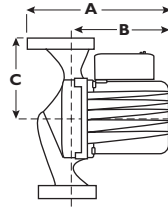
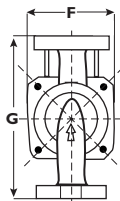
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## Application

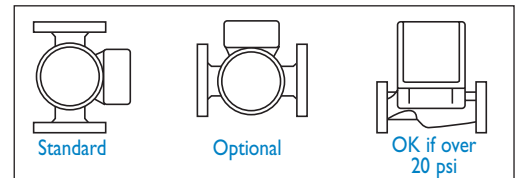
The Taco 009 is designed for a wide range of Residential and Light Commercial higher-head/lower-flow water circulating applications. Typical uses include Hydronic heating, Radiant In-Floor/Panel heating and closed-loop Solar heating systems. The Bronze 009 can be used in higher-head/lower-flow Heat Recovery, 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

Model	Casing	A		B		C		D		F		G		Ship Wt.	
		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-BF5	Bronze	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



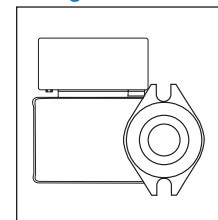
## Mounting Positions



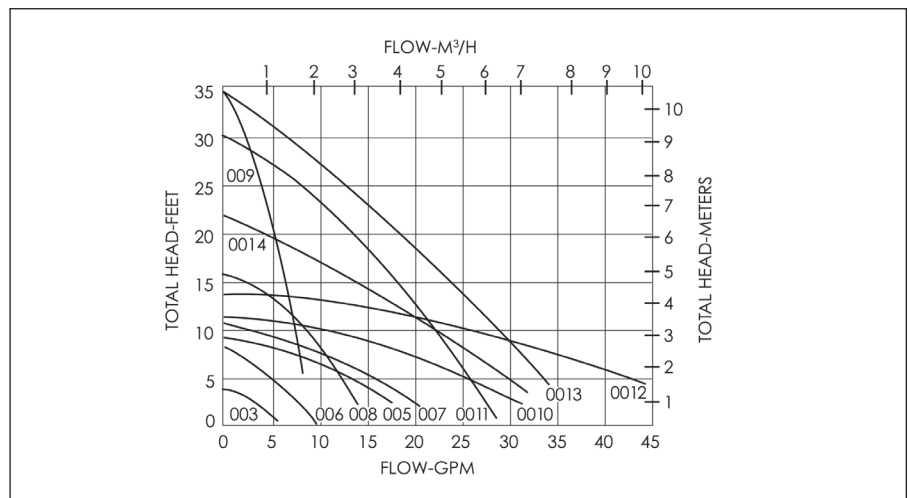
## Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
009-F5	115	60	1	1.40	3250	1/8
009-BF5	115	60	1	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



## HYDRONIC COMPONENTS & SYSTEMS

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