

## Model 009-IFC® Cartridge Circulator

The High Velocity series Taco 009-IFC cartridge circulator includes an Integral Flow Check (IFC®). The patented, removable IFC replaces a separate in-line flow check, saving installation costs while improving system performance. The 009-ZF-IFC features our Priority Zone control with built-in transformer, relay and priority switch making it an ideal choice when zoning with circulators. Available in Cast Iron or Stainless Steel construction.



# Submittal Data Information Model 009-IFC® Cartridge Circulator

Submittal Data # 101-099  
Supersedes: 06/01/04

Effective: 02/09

## Features

- Integral Flow Check (IFC®)
  - Prevents gravity flow
  - Eliminates separate in-line flow check
  - Reduces installed cost, easy to service
  - Improved performance vs. In-line flow checks
- Optional Priority Zoning control
- Unique replaceable cartridge-Field serviceable
- Unmatched reliability-Maintenance free
- Quiet, efficient operation
- Direct drive - Low power consumption
- Self lubricating, No mechanical seal
- Standard high capacity output - Compact design
- Wide range of applications
- Cast Iron or Stainless Steel construction, Flanged connections

## Materials of Construction

Casing (Volute): Cast Iron or Stainless Steel  
 Integral Flow Check:  
 Body, Plunger...Acetal  
 O-ring Seals.....EPDM  
 Spring.....Stainless Steel  
 Stator Housing: Aluminum  
 Cartridge: Stainless Steel  
 Impeller: Non-Metallic  
 Shaft: Ceramic  
 Bearings: Carbon  
 O-Ring & Gaskets: EPDM

## Model Nomenclature

F – Cast Iron, Flanged  
 SF – Stainless Steel, Flanged  
 IFC – Integral Flow Check

### Variations:

Z – Zoning circulator  
 J – 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", 1", 1-1/4", 1-1/2" Flanged



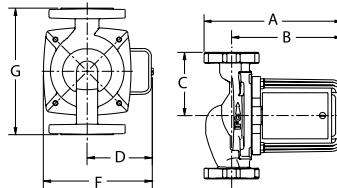
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## Application

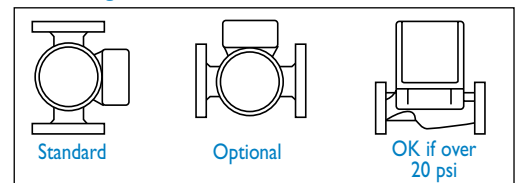
The Taco 009-IFC with Integral Flow Check (IFC®) is designed to reduce installation costs when zoning with 00® circulators on a wide range of residential and light commercial higher-head/lower-flow water circulating applications. Typical uses include hydronic heating, radiant in-floor/panel heating and closed-loop solar heating systems. The Stainless Steel 009-IFC 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. Available with optional Priority Zoning controls.

## 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-IFC	Cast Iron	7	178	5-11/16	144	3-3/16	81	3-3/8	86	5-1/2	140	6-3/8	162	9.5	4.3
009-SF5-IFC	St. Steel	7	178	5-11/16	144	3-3/16	81	3-3/8	86	5-1/2	140	6-3/8	162	9.5	4.3
009-ZF5-IFC	Cast Iron	7	178	5-11/16	144	3-3/16	81	3-13/16	97	6	153	6-3/8	162	10.5	4.7
009-ZSF5-IFC	St. Steel	7	178	5-11/16	144	3-3/16	81	3-13/16	97	6	153	6-3/8	162	10.5	4.7



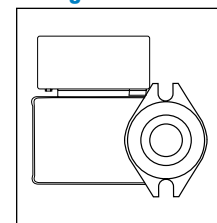
## Mounting Positions



## Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
009-F5-IFC	115	60	1	1.40	3250	1/8
009-SF5-IFC	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

