

## Model 009-IFC™ Cartridge Circulator

The High Velocity series Taco 009-IFC Cartridge Circulator now 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. Also available with three Variable Speed control options. See Catalog # 100-24. Available in Cast Iron or Bronze construction.



HYDRONIC COMPONENTS & SYSTEMS

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Do it right.™ **Taco**®

# Submittal Data Information Model 009-IFC™ Cartridge Circulator

## Features

- Integral Flow Check (IFC) Patent# 5,664,939  
Prevents gravity flow  
Eliminates separate in-line flow check  
Reduces installed cost, easy to service  
Improved performance vs. In-line flow checks
- Optional Variable Speed or 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 Bronze construction, Flanged connections

## Materials of Construction

Casing (Volute): Cast Iron or Bronze  
Integral Flow Check:  
Body, Plunger....Acetal  
O-ring Seals.....Nitrile  
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  
BF – Bronze, Flanged  
IFC – Integral Flow Check  
**Variations:**  
Z – Zoning Circulator  
VR – Variable Speed Outdoor Reset  
VS – Variable Speed Set Point  
VV – Variable Speed Variable Voltage  
J – Bronze Cartridge with Cast Iron Casing

## Performance Data

Flow Range: 0 – 10 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



**FOR INDOOR USE ONLY**

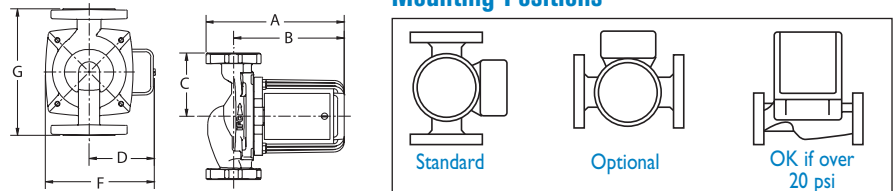
## Application

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 Bronze 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 or Variable Speed 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-BF5-IFC	Bronze	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-ZBF5-IFC	Bronze	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



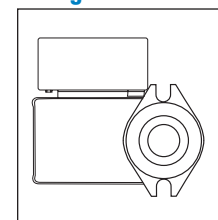
## Electrical Data

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

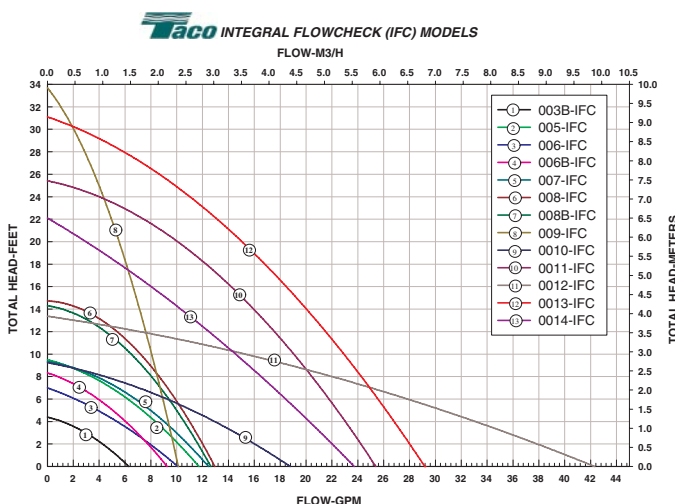
Motor Type: Permanent Split Capacitor  
Impedance Protected

Motor Options: 220/50/1, 220/60/1, 230/60/1, 100/110/50/60/1

## Flange Orientation



## Performance Field - 60Hz



## HYDRONIC COMPONENTS & SYSTEMS

