



Submittal Data Information

101-099

Model 009-IFC™ Cartridge Circulator

Effective: June 1, 2004

Supersedes: New

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	IMP. DIA.	G.P.M.	HEAD/FT.	H.P.	ELEC. CHAR.

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



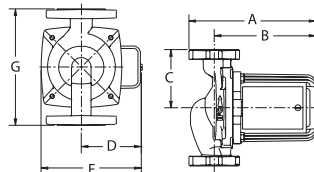
FOR INDOOR USE ONLY

Application

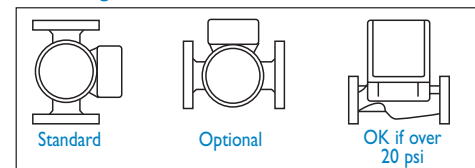
The Taco 009-IFC with Integral Flow Check (IFC) is designed to reduce installation costs when zoning with "00" circulators on a wide range of residential and light commercial higher-head/lower-flow water circulating applications. Typical uses include Hydronic heating, Radiant In-Floor/Panel heating and 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



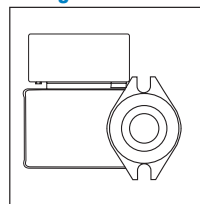
Electrical Data

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

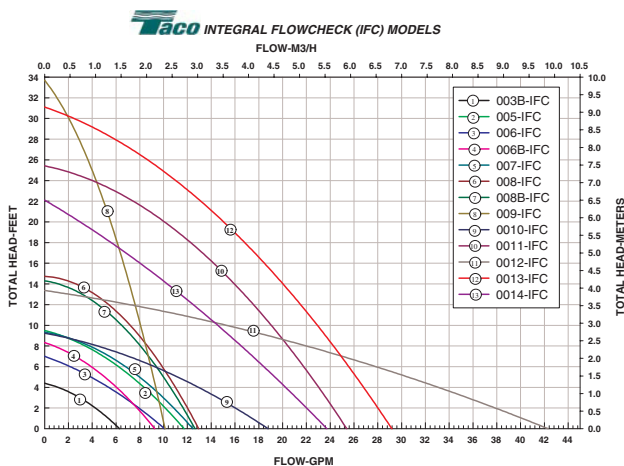
Motor Type: Permanent Split Capacitor
 Impedance Protected

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

Flange Orientation



Performance Field - 60Hz



Do it Once. Do it Right.

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