



Submittal Data Information

101-082

Model 003-IFC® Cartridge Circulator

Effective: June 1, 2011

Supersedes: April 1, 2006

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 / reverse flow
 - Eliminates separate in-line flow check
 - Reduces installed cost
 - Improves system performance
 - Easy to service
- Unique replaceable cartridge-Field serviceable
- Unmatched reliability-Maintenance free
- Quiet, efficient operation
- Self lubricating, No mechanical seal
- Wide range of applications
- 1/2", 3/4" Sweat, or Union connections

Materials of Construction

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

Model Nomenclature

- BC – Bronze, Panel Mount Tappings
- SC – Stainless Steel, Union Connection, Panel Mount Tappings
- IFC – Integral Flow Check

Performance Data

- Flow Range: 0 - 6 GPM
- Head Range: 0 - 4.5 Feet
- Minimum Fluid Temperature: 40°F (4°C)
- Maximum Fluid Temperature: 220°F (104°C)
- Maximum Working Pressure: 125 psi
- Connection Sizes: 1/2", 3/4" Sweat, Union Mount



FOR INDOOR USE ONLY

NSF® ≤ .25% Lead

Complies with California Health and Safety Code Section 116875 / AB1953 and Vermont Act 193

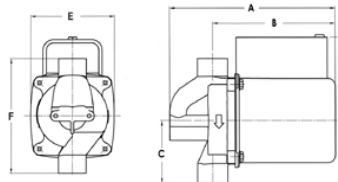
Application

- Domestic Hot Water Recirculation
- Hydro-Air Fan Coils
- Heat Recovery Units
- Water Source Heat Pumps
- Potable Water Systems

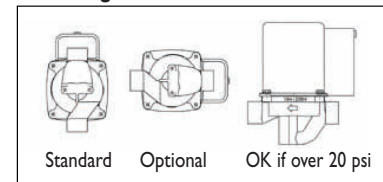
The 003-IFC with an Integral Flow Check (IFC®) is designed for the circulation of hot or chilled fresh water in open or closed loop applications. The IFC feature simplifies piping, eliminates separate in-line flow check, reduces installation costs and improves system performance. With its patented location at the impeller inlet, the IFC is easy to service without removing the entire unit from system piping. The unique, replaceable cartridge contains all of the moving parts and allows for easy service instead of replacing the entire circulator.

Pump Dimensions & Weights

Model	Conn.	A		B		C		D		E		F		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
003-BC4-I-IFC	1/2" Swt.	6	152	4-7/8	124	2-3/16	56	2-15/16	75	3-5/16	84	4-3/8	111	6.0	2.7
003-BC4-IFC	3/4" Swt.	6	152	4-7/8	124	2-3/16	56	2-15/16	75	3-5/16	84	4-3/8	111	6.0	2.7
003-SC4-IFC	Union	6	152	4-7/8	124	2-3/16	56	2-15/16	75	3-5/16	84	5-15/16	151	6.0	2.7



Mounting Positions



Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
All Models	115	60	1	.45	3250	1/40
Motor Type	Permanent Split Capacitor Impedance Protected					
Motor Options	220/50/1, 220/60/1, 230/60/1, 100/110/50/60/1					

Performance Field - 60Hz

