Submittal Data Information

Model 003-IFC Cartridge Circulator

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
• Bronze 1/2", 3/4" sweat or Stainless Steel with union connections

Application

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

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.

Materials of Construction

Casing (Volute): Low-lead 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 or union

Certifications & Listings

UL LISTED FOR INDOOR USE ONLY
Low-lead Compliant

Electrical Data

Volts: 115
Hz: 60
Ph: 1
Amps: 0.45
RPM: 3250
HP: 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 • INTEGRAL FLOWCHECK (IFC) MODELS

Mounting Positions

Standard
Optional
OK if over 20 psi

* IFC is located in the discharge port on union connection model only