Submittal Data Information
Model 005-IFC® Cartridge Circulator

Supersedes: October 17, 2008
Effective: June 1, 2011

Features
- Integral Flow Check (IFC®)
  - Simplifies piping
  - Prevents reverse flow and gravity 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
- Cast Iron or Stainless Steel construction
- Flanged connections

Application
- Hydronic Heating/Cooling
- Radiant
- Domestic Water Recirculation (Stainless Steel)
- Direct Water Heaters
- Hydro-Air coils

The 005-IFC is designed to simplify piping, reduce installation costs and improve system performance when zoning with 00® circulators. By locating the IFC inside the pump, a separate in-line flow check is eliminated. The low pressure drop of the IFC increases flow performance vs. in-line flow checks. Both the IFC and the cartridge are easily accessed for removal and service.

Materials of Construction
- Casing (Volutes): Cast Iron 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

Model Nomenclature
- F – Cast Iron, Flanged
- SF – Stainless Steel, 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 - 13.5 GPM
- Head Range: 0 - 7.5 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

Electrical Data
- Cast Iron 115V 60Hz
- Stainless Steel 115V 60Hz
- Motor Options 220V/50Hz, 220V/60Hz, 100V/50Hz, 110V/60Hz
- Motor Type Permanent Split Capacitor
- Impedance Protected

Mounting Positions
- Standard
- Optional
- OK if over 20 psi

Flange Orientation
- Standard
- Rotated

Performance Field – 60Hz