Submittal Data Information

Model 008-IFC® Cartridge Circulator

Effective: June 17, 2010

Supersedes: October 17, 2008

Features

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

Materials of Construction

- Casing (Volute): Cast Iron, Bronze or 304 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
- BC – Bronze, Sweat, Panel Mount
- 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 - 12.5 GPM
- Head Range: 0 - 15 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 or 3/4" Sweat

FOR INDOOR USE ONLY

Application

- Hydronic Heating/Cooling
- Domestic Water Recirculation (Bronze / Stainless Steel)
- Hydro-Air Fan Coils
- Radiant

The 008-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 service.

Pump Dimensions & Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Casing</th>
<th>Imp. Dia.</th>
<th>Head/FT.</th>
<th>H.P.</th>
<th>ELEC. CHAR.</th>
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</thead>
<tbody>
<tr>
<td>008-F6-I FIC</td>
<td>Cast Iron</td>
<td>5-15/16</td>
<td>11/16</td>
<td>81</td>
<td>75</td>
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<tr>
<td>008-SF6-I FIC</td>
<td>S Steel</td>
<td>6</td>
<td>15/16</td>
<td>11/16</td>
<td>81</td>
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<tr>
<td>008-SF6-IFC</td>
<td>Bronze</td>
<td>6-1/2</td>
<td>165</td>
<td>4-11/16</td>
<td>119</td>
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Electrical Data

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<th>Model</th>
<th>Volts</th>
<th>Hz</th>
<th>Ph</th>
<th>Amps</th>
<th>RPM</th>
<th>HP</th>
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<tr>
<td>Cast Iron</td>
<td>115</td>
<td>60</td>
<td>1</td>
<td>.79</td>
<td>3250</td>
<td>1/25</td>
</tr>
<tr>
<td>Bronze / SS</td>
<td>115</td>
<td>60</td>
<td>1</td>
<td>.84</td>
<td>3250</td>
<td>1/25</td>
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<tr>
<td>Motor Type</td>
<td>Permanent Split Capacitor Impedance Protected</td>
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<td>Motor Options</td>
<td>220/50/1, 220/60/1, 230/60/1, 100/115/50/601</td>
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</table>

Mounting Positions

- Standard
- Optional
- OK if over 20 psi

Flange Orientation

- Standard
- Optional

Performance Field - 60Hz

NSF® ≤ .25% Lead
Complies with California Health and Safety Code Section 116875 / AB1953 and Vermont Act 193