



Submittal Data Information

101-077

Model 007-IFC® Cartridge Circulator

Effective: July 11, 2007

Supersedes: December 21, 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®)
 - 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, Bronze or Stainless Steel construction
- Flanged connections

Application

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

The 007-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.

Pump Dimensions & Weights

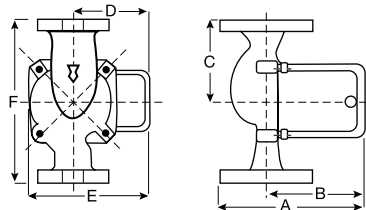
| Model | Casing | A | | B | | C | | D | | E | | F | | Ship Wt. | |
|---------------|-----------|-------|-----|-------|-----|--------|----|---------|----|-----|-----|-------|-----|----------|-----|
| | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | Kg |
| 007-F5-7 IFC | Cast Iron | 6-1/8 | 156 | 4-1/2 | 114 | 3-3/16 | 81 | 2-15/16 | 75 | 5 | 127 | 6-3/8 | 162 | 9 | 4.0 |
| 007-F5-8 IFC | Cast Iron | 5-7/8 | 149 | 4-1/2 | 114 | 3-3/16 | 81 | 2-15/16 | 75 | 5 | 127 | 6-3/8 | 162 | 9 | 4.0 |
| 007-BF5-1 IFC | Bronze | 6-1/8 | 156 | 4-1/2 | 114 | 3-3/16 | 81 | 2-15/16 | 75 | 5 | 127 | 6-3/8 | 162 | 9 | 4.0 |
| 007-SF5 IFC | S.Steel | 6-1/8 | 156 | 4-1/2 | 114 | 3-3/16 | 81 | 2-15/16 | 75 | 5 | 127 | 6-3/8 | 162 | 9 | 4.0 |

Materials of Construction

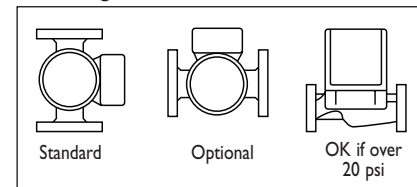
Casing (Volute): Cast Iron, Bronze or 304 Stainless Steel

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



Mounting Positions



Model Nomenclature

- F – Cast Iron, Flanged
- BF – Bronze, Flanged
- SF – 304 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

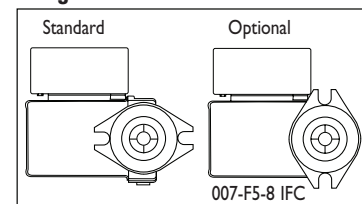
Electrical Data

| Model | Volts | Hz | Ph | Amps | RPM | HP |
|-----------------|-------|----|----|------|------|------|
| Cast Iron | 115 | 60 | 1 | .71 | 3250 | 1/25 |
| Bronze | 115 | 60 | 1 | .76 | 3250 | 1/25 |
| Stainless Steel | 115 | 60 | 1 | .76 | 3250 | 1/25 |

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

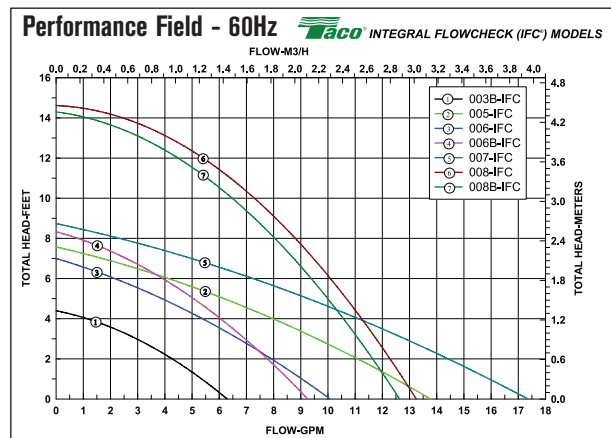


Performance Data

Flow Range: 0 - 17 GPM
 Head Range: 0 - 8.5 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



FOR INDOOR USE ONLY



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