Submittal Data Information

101-087

Model 0014-IFC® Cartridge Circulator

Effective: August 7, 2007 **Supersedes:** December 1, 2003

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	IMP. DIA.	G.P.M.	HEAD/FT.	H.P.	ELEC. CHAR.

Features

- Integral Flow Check (IFC®)
  - Prevents gravity flow
  - Eliminates separate in-line flow check
  - Reduces installed cost, easy to service
  - Improved performance vs. In-line flow checks
- Unique replaceable cartridge-Field serviceable
- Unmatched reliability-Maintenance free
- Quiet, efficient operation
- Direct drive-Low power consumption
- Self lubricating, No mechanical seal
- Standard high capacity output-Compact design
- Wide range of applications
- Cast Iron, Bronze or Stainless Steel construction, Flanged connections

Materials of Construction

Casing (Volute): Cast Iron, Bronze or 304 Stainless Steel
Integral Flow Check:
Body, Plunger....Acetal
O-ring Seals.....EPDM
Spring.....Stainless Steel
Stator Housing: Aluminum
Cartridge: Stainless Steel
Impeller: Non-Metallic
Shaft: Ceramic
Bearings: Carbon
O-Ring & Gaskets: EPDM

Model Nomenclature

F – Cast Iron, Flanged
BF – Bronze, Flanged
SF – 304 Stainless Steel, Flanged
IFC – Integral Flow Check

Variations:

Z – Zoning Circulator
J – Bronze Cartridge with Cast Iron Casing

Performance Data

Flow Range: 0 - 29 GPM
Head Range: 0 - 23 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

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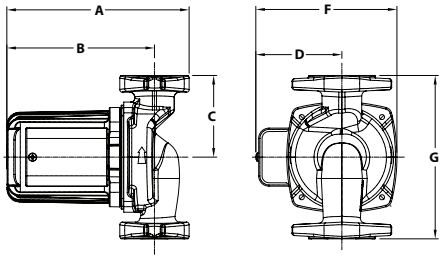
FOR INDOOR USE ONLY

Application

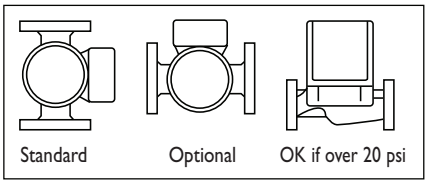
The 0014-IFC with an Integral Flow Check is designed to reduce installation costs when zoning with 00® circulators on medium head / medium flow hydronic or radiant heating, hydro-air fan coils or closed loop solar heating systems. By locating the removable, spring-loaded IFC inside the pump casing, a separate in-line flow check is eliminated, reducing installation costs. The reduced pressure drop of the IFC, increases the flow performance over in-line check valves. Both the IFC and cartridge are easily accessed for service instead of replacing the entire unit. Our patented Priority Zoning circulator with built-in transformer, relay, priority switch and IFC in one complete, compact package makes it ideal for zoning.

Pump Dimensions & Weights

Model	Casing	A		B		C		D		F		G		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
0014-F1-1 IFC	Cast Iron	7-1/4	184	5-3/4	146	3-1/4	83	3-5/16	84	5-1/2	140	6-1/2	165	13.0	5.9
0014-BF1-1 IFC	Bronze	7-1/4	184	5-3/4	146	3-1/4	83	3-5/16	84	5-1/2	140	6-1/2	165	13.0	5.9
0014-SF1-IFC	St.Steel	7-1/4	184	5-3/4	146	3-1/4	83	3-5/16	84	5-1/2	140	6-1/2	165	12.0	5.4
0014-ZF1-1 IFC	Cast Iron	7-1/4	184	5-3/4	146	3-1/4	83	3-13/16	97	6	152	6-1/2	165	13.5	6.1
0014-ZBF1-1 IFC	Bronze	7-1/4	184	5-3/4	146	3-1/4	83	3-13/16	97	6	152	6-1/2	165	13.5	6.1
0014-ZSF1-IFC	St.Steel	7-1/4	184	5-3/4	146	3-1/4	83	3-13/16	97	6	152	6-1/2	165	12.5	5.7



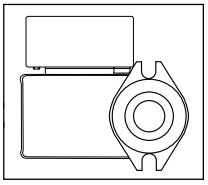
Mounting Positions



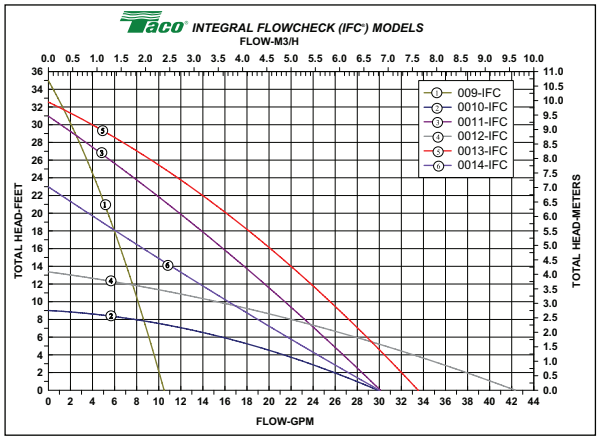
Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
All Models	115	60	1	1.55	3250	1/8
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 Field - 60Hz



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