

Model 0012-IFC™ Cartridge Circulator

The High Velocity series Taco 0012-IFC Cartridge Circulator now includes an Integral Flow Check (IFC). The patented, removable IFC replaces a separate in-line flow check, saving installation costs while improving system performance. With all the features of the standard 0012, the 0012-IFC is also available with optional Priority Zone control with built-in transformer, relay and priority switch and three Variable Speed control options. See Catalog # 100-24. Available in Cast Iron or Bronze construction.



HYDRONIC COMPONENTS & SYSTEMS

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Submittal Data Information Model 0012-IFC™ Cartridge Circulator

Features

- Integral Flow Check (IFC) Patent# 5,664,939
Prevents gravity flow
Eliminates separate in-line flow check
Reduces installed cost, easy to service
Improved performance vs. In-line flow checks
- Optional Variable Speed or Priority Zoning Control
- 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 or Bronze construction, Flanged connections

Materials of Construction

Casing (Volute): Cast Iron or Bronze
Integral Flow Check:
Body, Plunger.....Acetal
O-ring Seals.....Nitrile
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
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 – 42 GPM
Head Range: 0 – 13 Feet
Minimum Fluid Temperature: 40°F (4°C)
Maximum Fluid Temperature: 230°F (110°C)
Maximum Working Pressure: 125 psi
Connection Sizes: 1-1/4", 1-1/2" Flanged



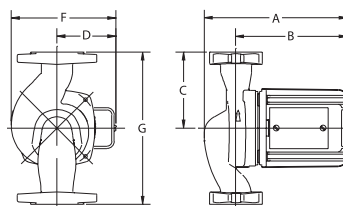
FOR INDOOR USE ONLY

Application

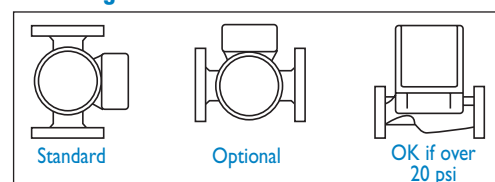
The Taco 0012-IFC with Integral Flow Check (IFC) is designed to reduce installation costs when zoning with "00" circulators on high flow / medium head applications in large residential and light commercial systems. Ideal for large BTUH Boilers, 2" recirculation loops, primary/secondary loops, commercial water heaters and light commercial heating and cooling systems. The Bronze 0012-IFC can be used on open loop systems. The unique replaceable cartridge contains all of the moving parts and allows for easy service instead of replacing the entire circulator. Available with optional Priority Zoning or Variable Speed controls.

Pump Dimensions & Weights

		A		B		C		D		F		G		Ship Wt.	
Model	Casing	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
0012-F4-IFC	Cast Iron	8-1/16	205	6-3/8	162	4-1/4	108	3-5/16	84	6	152	8-1/2	216	14.0	6.3
0012-BF4-IFC	Bronze	8-1/16	205	6-3/8	162	4-1/4	108	3-5/16	84	6	152	8-1/2	216	14.5	6.6
0012-ZF4-IFC	Cast Iron	8-1/16	205	6-3/8	162	4-1/4	108	4	102	6-5/8	168	8-1/2	216	15.0	6.8
0012-ZBF4-IFC	Bronze	8-1/16	205	6-3/8	162	4-1/4	108	4	102	6-5/8	168	8-1/2	216	15.5	7.0



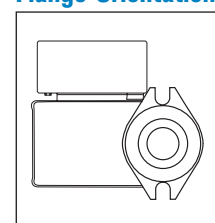
Mounting Positions



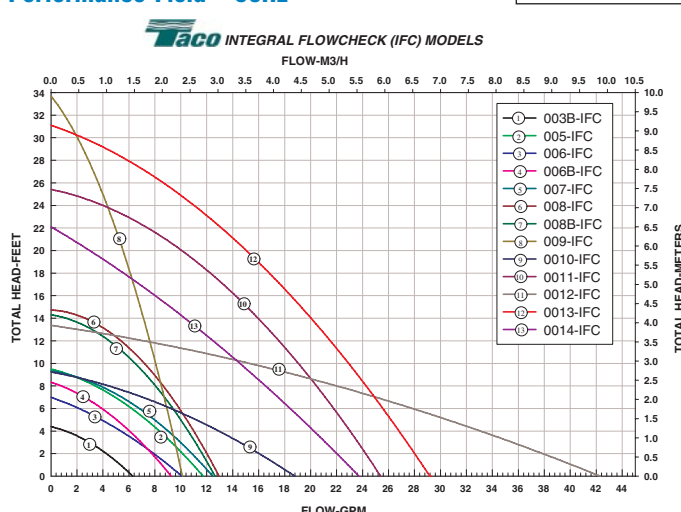
Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
All Models	115	60	1	1.33	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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