

## **Model 0013 Cartridge Circulator**

The High Velocity series Taco 0013 Cartridge Circulator is designed for quiet, efficient operation in high head / high flow applications for Large Residential / Light Commercial Hydronic heating, Radiant heating, Chilled Water cooling and Domestic fresh water systems. The exclusive ACB anti-condensate baffle with ambient air flow prevents the build up of condensate on the motor windings when pumping chilled water. Its unique field-serviceable cartridge contains all moving parts. Replacing the cartridge rebuilds the circulator. With no mechanical seal, the self-lubricating, maintenance free design provides unmatched reliability. Compact and lightweight, with excellent performance characteristics, the 0013 is ideal for high efficiency jobs where space is a premium. Available in Cast Iron or Bronze construction.



**HYDRONIC COMPONENTS & SYSTEMS**

**Do it once.  
Do it right.** 

# Submittal Data Information Model 0013 Cartridge Circulator

## Features

- Exclusive ACB Anti-Condensate Baffle with Ambient Air Flow-Protects Motor Windings against Condensate Buildup
- High Velocity Performance-Compact Design
- Quiet, Efficient Operation
- Direct Drive-Low Power Consumption
- Unique Replaceable Cartridge Design-Field Serviceable
- Self Lubricating
- No Mechanical Seal
- Unmatched Reliability-Maintenance Free
- Universal Flange to Flange Dimensions
- Cast Iron or Bronze Construction

## Materials of Construction

ACB Baffle	Non-Ferrous
Casing (Volute):	Cast Iron or Bronze
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  
**Variations:**  
 Z – Zoning Circulator  
 J – Bronze Cartridge with Cast Iron Casing

## Performance Data

- Flow Range: 0 – 33 GPM  
 Head Range: 0 – 33 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



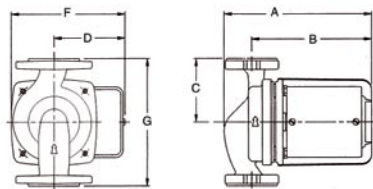
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## Application

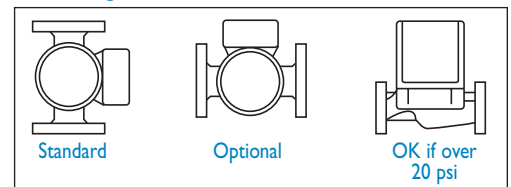
The Taco 0013 is specifically designed for high head / high flow applications in Large Residential and Light Commercial systems. Ideal for high pressure drop Boilers, Fan Coil units, Heat Exchangers, larger Radiant systems, Heat Recovery and Geothermal systems. The Bronze 0013 should be used on open loop systems. The unique replaceable cartridge contains all of the moving parts and allows for easy service instead of replacing the entire circulator. Universal flange to flange dimensions and orientation allows the 0013 to easily replace other models. Compact, low power consumption design makes it ideal for high-efficiency jobs.

## 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
0013-F3	Cast Iron	7-3/4	197	6-3/8	162	3-1/4	82	3-3/4	95	6	152	6-1/2	165	12.0	5.5
0013-BF3	Bronze	7-3/4	197	6-3/8	162	3-1/4	82	3-3/4	95	6	152	6-1/2	165	12.0	5.5



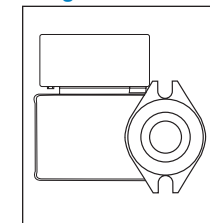
## Mounting Positions



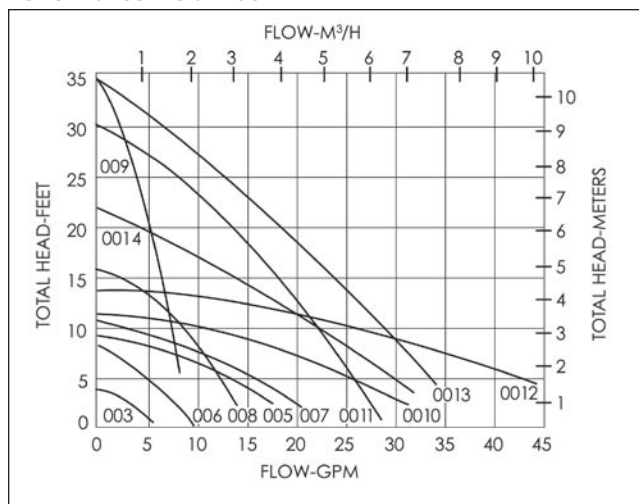
## Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
0013-F3	115	60	1	2.0	3250	1/6
0013-BF3	115	60	1	2.0	3250	1/6
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



## HYDRONIC COMPONENTS & SYSTEMS

