

## Components and Specifications

The component parts that make up the Metlund D'MAND System are the highest quality and reproduced by the largest manufacturers in the world. The pump, controller and zone valve are the finest quality available and are designed to operate 15 to 20 years as a D'MAND System. By using only major manufacturers, we are certain that they are capable of meeting our production requirements and development modifications.

All of our components are designed with United States technology and manufactured in the United States.

	<b>Model S-71T</b>	<b>Model S-03T</b>
Controller	Metlund	Metlund
Pump	Taco Model 008	Taco Model 0011
Valve	PDV	PDV

### **Metlund Electronic Controller (solid state)**

Designed and developed by ACT, Inc. Metlund Systems; manufactured and quality controlled by EMS/Sandberg Industries in Santa Ana, California, a leading manufacturer of electronic circuit boards and electronic packaging. EMS/Sandberg Industries is a Fortune 500 company whose client list includes AT&T, Beckman Industries, IBM, Jet Propulsion Laboratories and NASA.

### **Taco Model 008 Cartridge Circulator (S-71T Models)**

The more quiet direct-drive cartridge type "00" series circulator is self-lubricating, contains no mechanical seal and requires no maintenance. The unique replaceable cartridge contains all the moving parts, and allows the circulator to be serviced instead of replacing the entire unit. This compact low-power consumption design is ideal for jobs where high efficiency is necessary.

The built-in Positive D'MAND Valve (PDV) prevents thermo-siphoning and acts as a check valve.

### **UL & CSA Listed**

Casing	Bronze	Performance	Litress/Minute = 51 Total Head = 4.8 metres
Impeller	Non-Metallic	Motor type	Permanent Split Capacitor
Shaft	Ceramic	HP	1/25 HP @ 3250 RPM
Bearings	Carbon	Electrical Charge	.52 Amp Rating Impedance Protected
Connections	½" Thread	Pressure Rating	860 Kpa Max

	BSP		
Life Expectancy	15 years	Temp Rating	90° C Max
		Power Supply	240v (50Htz)

### Taco Model 0011 High Velocity Circulator (S-03T Models)

The Taco 0011 high velocity/high head bronze circulator is designed for residential and light commercial systems.

The 0011 has the exclusive "00" cartridge design and ACB motor protector. The "00" cartridge contains all the moving parts; replacing it virtually rebuilds the circulator. The unique ACB anti-condensate baffle with ambient air-flow prevents the buildup of condensation on the motor windings when pumping chilled water. It has a high head medium flow characteristic for applications in high pressure drop boilers, fan coil units, heat exchangers, large radiant heating systems and heat recovery units/earth loop systems.

The quiet, direct-drive high velocity series contains no mechanical seal and requires no maintenance. This compact design has low power consumption and is ideal for those high efficiency jobs that have space requirements. Because universal flange to flange length and orientations are featured, the 0011 may easily replace other models.

The built-in Positive D'MAND Valve (PDV) in the S-03T prevents thermo-siphoning and acts as a check valve.

### UL & CSA Listed

Casing	Bronze	Performance	Litres/Minute = 93 Total Head = 9.6 metres
Impeller	Non-Metallic	Motor type	Permanent Split Capacitor
Shaft	Ceramic	HP	1/8 HP @ 3250 RPM
Bearings	Carbon	Electrical Charge	.80 Amp Rating Impedance Protected
Connections	Flanged ¾"	Pressure Rating	860 Kpa Max
Life Expectancy	15 years	Temp Rating	90° C Max
ACB Baffle	Non-ferrous	Power Supply	240v (50Htz)