

Are You Waiting for HOT WATER?

**HOT
WATER
NOW®**

GreenSpec®
LISTED 2004



GSA Advantage!®
www.gsa.gov

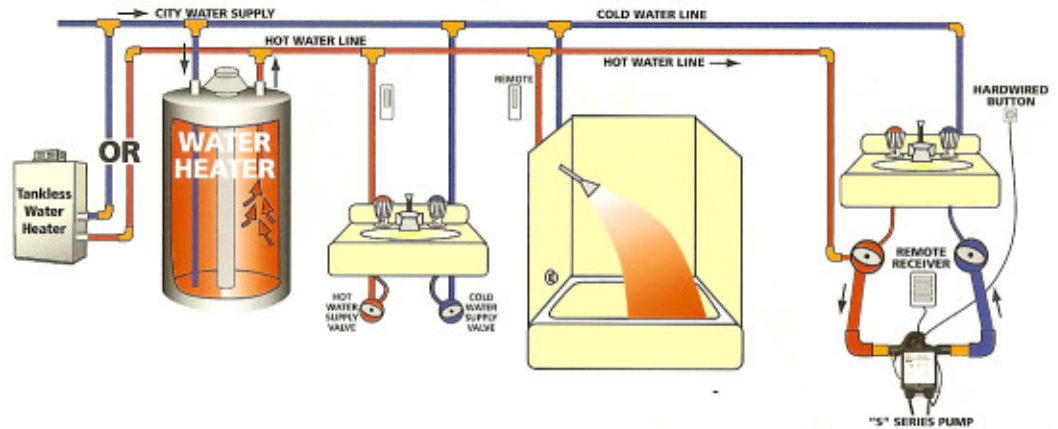


Electronics Make the Difference

The Metlund® *D'MAND*® System is designed to move hot water to your most remote fixture on *D'MAND*® within seconds!

- 3 models (S-50T, S-70T and S-02T series) from residential to commercial
- Receives Green Building LEED Credits
- Tested and Proven by the US Dept. of Energy to save both water and energy

**EXISTING HOMES
STANDARD
PLUMBING**

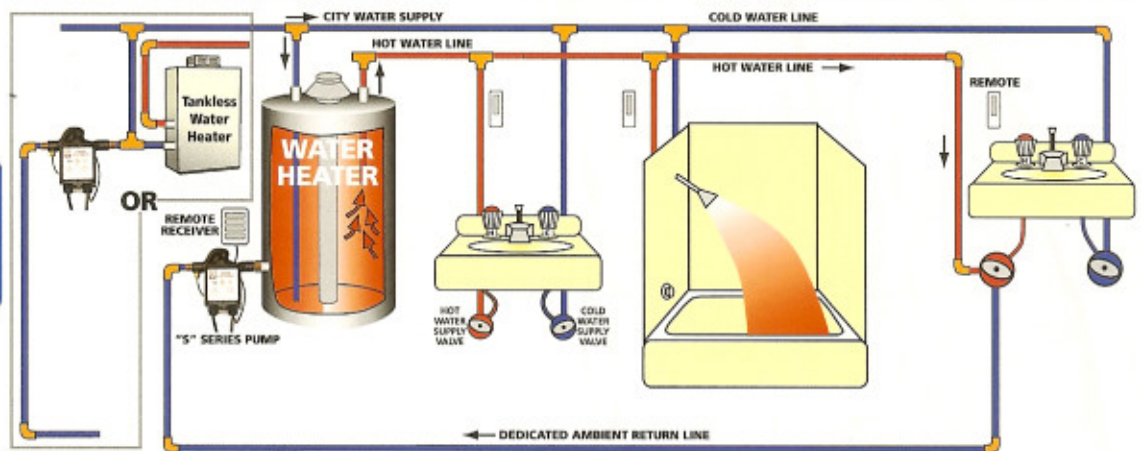


HOW IT WORKS:

The *D'MAND*® System is designed to move the hot water from your water heater to your most remote fixture (kitchen, master bath, etc.) within seconds. At the push of a button, the cool water you normally let run down the drain is circulated back to the water heater through the cold water line. The *D'MAND*® System is easily installed under the sink farthest from your water heater.

At your *D'MAND*®, the pump pulls the hot water from the water heater moving only the cold water back through the cold water line into the water heater to replace the hot water being moved. When the hot water arrives at the *D'MAND*® System it is automatically shut off by a thermo sensor at a 3 to 5 degree temperature change.

**NEW HOMES
STRUCTURED
PLUMBING®
DIAGRAM**



HOW IT WORKS:

There are two options for Structured Plumbing, both using the S-Series Metlund *D'MAND*® System. The first option is to locate the S-Series pump and the thermo sensor at the fixture furthest from the water heater. The second option is to locate the S-Series pump at the water heater and extend the thermo sensor from the electronic control board back to the fixture furthest from the water heater. Both options can be activated by hand with buttons, remote wireless buttons or motion

sensor. Both the S-Series pump and the thermo sensor should be installed on the dedicated return line pipe. When hot water is demanded, using any of our activation methods, the Metlund *D'MAND*® System brings hot water rapidly to the farthest fixture from the water heater where the sensor will pick up the temperature rise and send a signal to turn the pump off. This concept prevents the hot water passing the thermo sensor, thus saving lost energy in the dedicated return line.



ACT Inc.
METLUND® *D'MAND*® Systems
800-638-5863
www.gothotwater.com

Features

- Life expectancy of 15-20 years
- Energy Star Credit
- Operates with Tankless or Tank water heaters
- Five Year Warranty
- IAPMO Listing
- UL Listed - US/Canada

S-Series for Standard Plumbing

No soldering required – Easy installation – allow 1 to 1½ hours

S-50T-PF Series equipped with Custom T's & 18" flex-lines

S-70T-PF Series equipped with Custom T's & 18" flex-lines

S-02T-PF Series equipped with Custom T's & 18" flex-lines



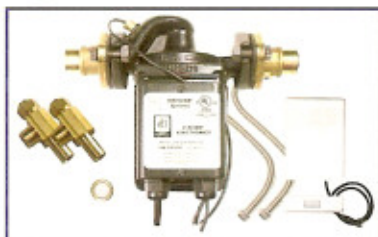
S-50T-PF-R (as shown)

8 gallons per minute flow
12 feet of head
1/40 Horse Power
.57 AMPS
3 YEAR WARRANTY



S-70T-PF-R (as shown)

14 gallons per minute flow
16 feet of head
1/25 Horse Power
.84 AMPS
5 YEAR WARRANTY



S-02T-PF-R (as shown)

26 gallons per minute flow
32 feet of head
1/8 Horse Power
1.76 AMPS
5 YEAR WARRANTY

Alternative Methods of Activation

- Automatic door opening
- Motion detection
- Flow Switch

The Intelligent Choice

The hot water D'MAND® System is the only recirculating system that is available on demand, saving water, energy and money while adding convenience. It is a welcome addition to any standard plumbed home or home with a recirculating loop and can be installed in both new construction as well as on existing homes. No additional plumbing is required.

Electronic D'MAND® Pumping Technology

Patented Electronics are designed to shut off automatically with a rise of temperature (Delta-T) and a "fail safe" shut off is added for safety. The bronze pump contains a replaceable cartridge which is self lubricating, contains a mechanical seal that requires no maintenance. A Patented PDV (Positive D'MAND Valve) built in valve prevents backflow. All major components are modular and can be easily replaced if necessary. D'MAND® Systems life expectancy is 15 to 20 years.

Conventional Water Heater Specifications

The D'MAND® System has both commercial and residential applications. S-Series are for retrofit applications and will cost less than \$1.00 per year to operate. S-50T Series are designed for homes and condos with hot water runs up to 50' from the water heater. The S-70T series are designed to deliver hot water rapidly up to 100 feet from the water heater. The S-02T Series will accommodate larger homes and commercial applications where distanced from the water heater and larger diameter piping is a factor.

D'MAND® Circ are for dedicated return line applications. S-70T Series to be installed at the water heater on lines less than 200 feet. S-02T-R Series to be installed at the water heater on lines more than 200 feet. If in doubt about which pump will work for your situation, call us at our toll-free phone number.

D'MAND® Pumping Systems work effectively on tank, tank-less and boiler type water heaters that use electricity, gas or propane fuel.

Tankless Water Heater Specifications

S-50T Series not recommended	S-70T	S-02T
Standard Plumbing AND Distance between Tankless water heater and fixture where D'MAND® system is installed	Under 60 feet	Over 60 feet
Re-Circulating plumbing AND square footage of house	Under 2500 sq. ft.	Over 2500 sq. ft.

TANKLESS WATER HEATERS / D'MAND SYSTEMS

The S-70T and S-02T D'MAND Systems work extremely well with tankless gas and electric water heaters. In fact all of the tankless water heater manufacturer's recommend Metlund D'MAND Systems for hot water distribution with their tankless water heaters.

Use of the Metlund D'MAND System on re-circulation loop systems will 1) increase the efficiency, 2) NOT void the Manufacturer's Warranty and 3) add convenience.

WE STRONGLY RECOMMEND DEDICATED RE-CIRCULATION FOR NEW HOME CONSTRUCTION. "STRUCTURED PLUMBING". (See our structured plumbing diagram).

WARNING!

Never use tankless water heaters with FULL TIME or TIMER type re-circulation systems. First, the tankless water heater manufacturer will void their 10 year warranty. Second, the cost of operation to the tankless water heater due to excessive use is extremely high. (check with your local gas or electric utility as to why this is so costly) Third, the extra operation to the tankless water heater will cause the unit to fail much quicker.

SAVINGS OF ENERGY AND WATER TO THE USER

By using a Metlund D'MAND System with your tankless water heater, the estimated savings in dollars on average nationally will be \$200.00 a year or more.