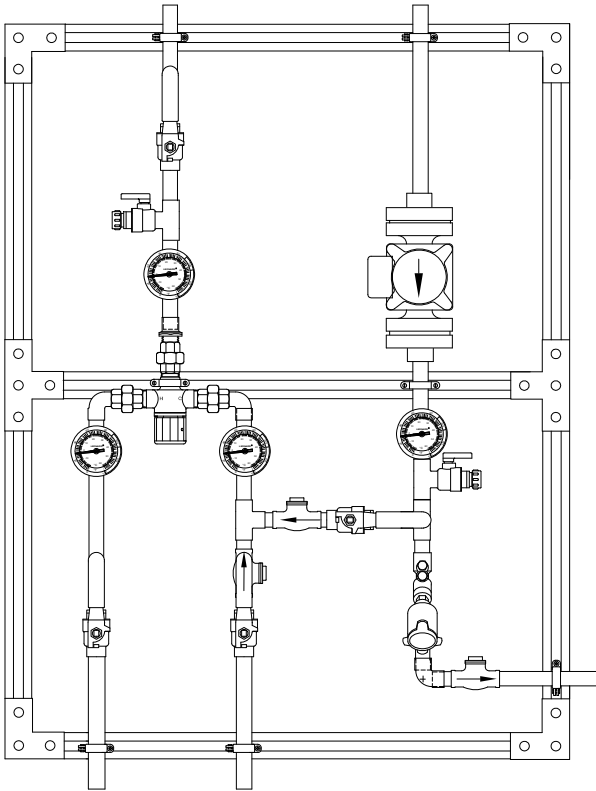


# COMPLETE WATER TEMPERATURE CONTROL STATION

## ECO-MIX™

# MEGATRON® MODEL 370 LF \_\_\_ MODEL 370 LF, 3/4"



### MATERIALS:

- Minimum flow .5 GPM
- Lead Free Bronze body
- Locked temperature adjustment cap (vandal resistant)
- Copper encapsulated thermostat assembly with polymer thermoplastic shuttle
- Stainless steel springs
- Integral check valves on hot and cold inlets
- Union connections on valve inlets and outlet
- Maximum operation pressure: 125 PSI (860 KPA)
- Temperature selector handle with scale: COLD-HOT
- 3/4" inlet/outlet connections (copper tube)
- Dial thermometer (range 0 to 140°F, -10 to 60°C) on outlet
- Temperature adjustment range, 90-140°F (32-60°C) \*\*
- Outlet Test Connection with ball valve and 3/4" hose connection with cap
- Full port ball valve on mixed water outlet of the system
- Inlet piping with full port ball valves and dial thermometers (20 to 240°F, -7 to 116°C on hot supply, 0 to 140°F, -10 to 60°C on cold supply) on hot and cold supply inlets
- Return piping, 1/2", with circulator (TACO 008), dial thermometer (0 to 140°F, -10 to 60°C), balancing valve and check valve
- Bypass piping, 1/2" with check valve and isolation ball valve to cold inlet of mixing valve
- System mounted on strut, galvanized. Strut shall be assembled with three hole flange angle plate on corners, four hole tee plates or two hole flat plate connectors on all other support pieces using 3/8" grip lock nuts and 3/8" x 1" hex head cap screws, washers and lock washers
- Factory pre-assembled and tested as a complete system
- All electrical connections to be completed by Electrical Contractor
- TACO 008 standard



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.Ca.gov](http://www.P65Warnings.Ca.gov)

Valve assembly is certified to meet Low-Lead requirements of wetted surface area containing less than 0.25% lead by weight. All other fittings and components, the sum total of which comprise the wetted surface of this product contains less than one quarter of one percent of lead by weight.

Product is non-cancellable and non-returnable from date from order with factory. Signed submittal required with purchase order.

\*\*NOTE: For temperatures outside of this valve's stated range, please see our line of bi-metal valves.

### Certifications:

Valve is ASSE 1017, 1070



Valve is CSA B125.70



Valve is Certified to NSF61 thru the ASSE 1070 testing process



1360 Elmwood Avenue, Cranston, RI 02910 USA

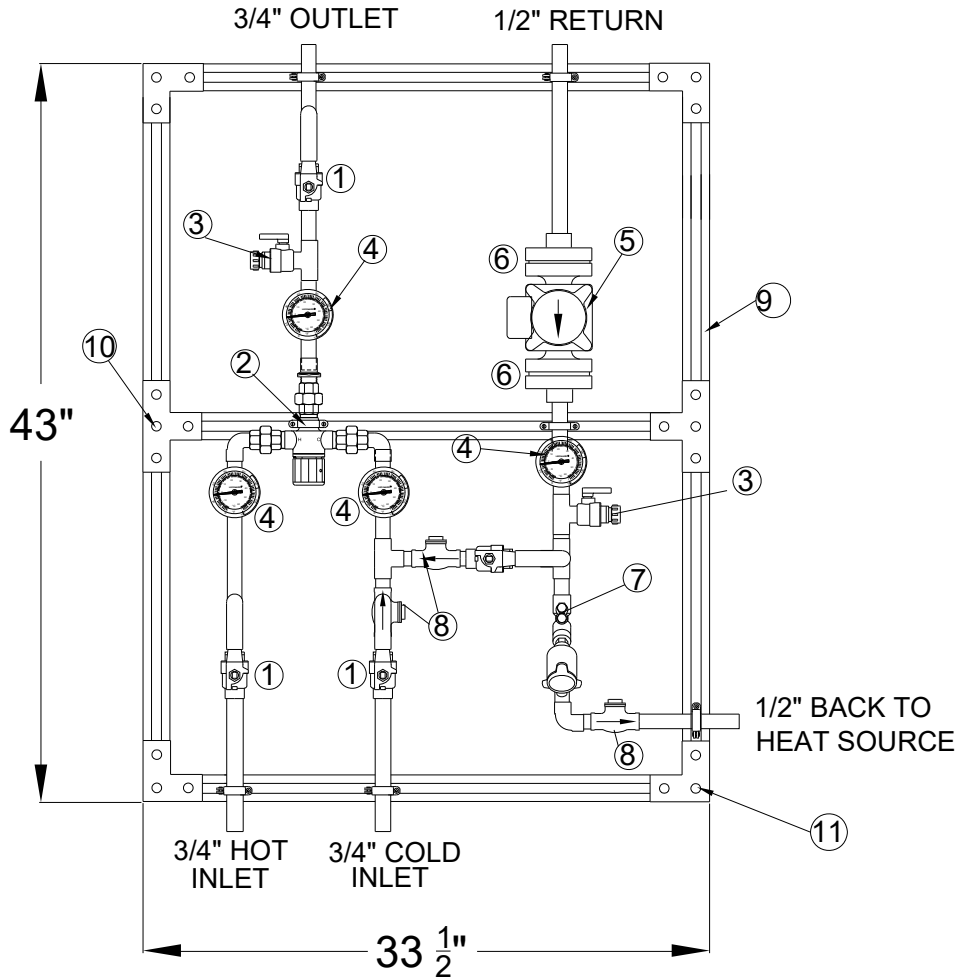
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WEB: <http://www.leonardvalve.com>

|  |                                   |
|--|-----------------------------------|
| <p>Product is non-cancellable and non-returnable from date from order with factory. Signed submittal required with purchase order.</p> |                                   |
| <p>**NOTE: For temperatures outside of this valve's stated range, please see our line of bi-metal valves.</p>                          |                                   |
| <p>Job # _____</p> <p>Arch/Eng. _____</p> <p>Contractor _____</p>  | <p><b>Engineer's Approval</b></p> |

# MEGATRON® MODEL 370 LF



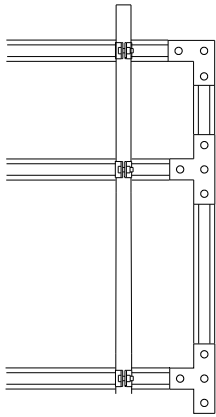
- |                         |                     |
|-------------------------|---------------------|
| 1. FULL PORT BALL VALVE | 7. BALANCING VALVE  |
| 2. MIXING VALVE         | 8. FLAPPER CHECK    |
| 3. TEST CONNECTION      | 9. GALVANIZED STRUT |
| 4. DIAL THERMOMETER     | 10. TEE BRACKET     |
| 5. TACO 008 CIRCULATOR  | 11. CORNER BRACKET  |
| 6. CIRCULATOR UNIONS    |                     |

| MODEL  | IN   | OUT  | MINIMUM FLOW (GPM) | PRESSURE DROP |    |    |    |    |    |      |      |      |    | PSI  |
|--------|------|------|--------------------|---------------|----|----|----|----|----|------|------|------|----|------|
|        |      |      |                    | 5             | 10 | 15 | 20 | 25 | 30 | 35   | 40   | 45   | 50 |      |
| 370 LF | 3/4" | 3/4" | 0.5                | 4             | 6  | 7  | 8  | 9  | 10 | 10.5 | 11.5 | 12.5 | 13 | GPM  |
|        |      |      | 1.9                | 15            | 23 | 27 | 30 | 34 | 38 | 40   | 43   | 47   | 49 | LMIN |

**CAUTION!** All thermostatic water mixing valves have limitations. They will NOT provide the desired accuracy outside of their flow capacity range. Consult the Flow Capacity Chart and DO NOT OVERSIZE.

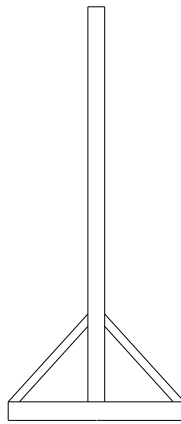
**\*NOTE:** A limit stop, set for 110°F (43°C), is simply a mechanical setting to prevent excessive handle rotation. If incoming water is hotter than 135°F (57°C), the temperature of the factory test, the valve when turned to full HOT may deliver water in excess of 110°F and the limit stop MUST BE RESET BY THE INSTALLER

# OPTIONS



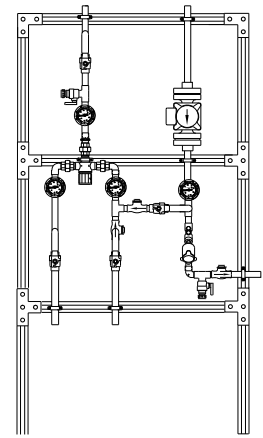
**LC**

Megatron® furnished without a circulator. Tie return line here



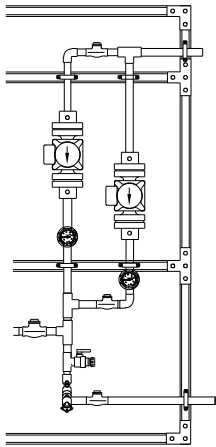
**FM**

Megatron® with 3 legs, 3 1/2" feet and 45 degree braces front and back for mounting to floor in center of room.



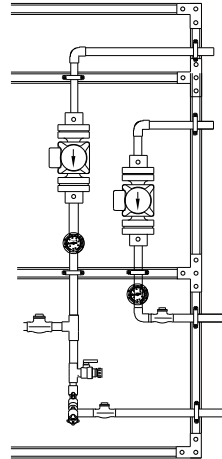
**FS**

Megatron® with legs to floor to support the unit without hangers.



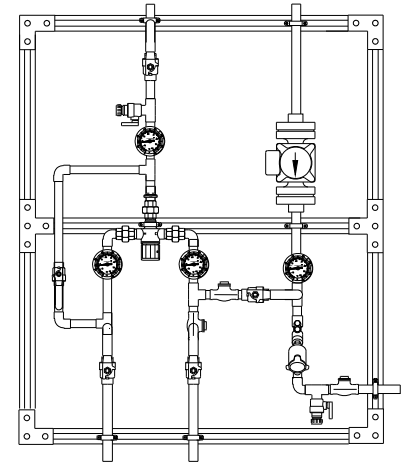
**2 PUMPS R**

Redundant recirculation pump



**2 PUMPS H**

High temperature loop recirculation pump



**HBP**

High temperature by-pass flush with locking ball valve

**OPTIONS \***

- LC** Less circulator
- FM** Floor mount
- FS** Free standing
- 2 PUMP R** Redundant recirculator pump
- 2 PUMP H** High temperature loop recirculator pump
- HBP** High temperature by-pass flush
- 265-1** Timer, Analog, 24 hour
- 265-3** Timer, Digital, 7 day
- HOA** HOA switch

**OPTIONS (shown on next page) \***

- AL** Audio Visual Alarm
- RDU** Remote Display Unit
- LMS-188-4P** Monitoring System
- LMS-188-4P-BMS** with BMS
- DA** Digital Aquastat
- DG** Digital Gauges
- User chosen pump**  
(specify on next page)

**OPTIONS**

- 3/4"** 3/4" return line



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**\* Any option chosen will alter pricing**



### OPTION AL: Leonard Single Probe Digital Temperature Alarm

- Single Point Temperature Probe - Range: -148°F to 212°F Resolution: 1°F
- User adjustable high / low set points, initial alarm delay period, audible & visual alarms
- Remote alarm contacts (SPDT) with adjustable relay delay period
- AL option replaces analog outlet dial thermometer with a single digital display



### OPTION RDU: Leonard Remote Display Unit

- Activation by Primary Alarm's (pictured above) remote alarm contacts
- Alarm Delay Module with yellow, red, green LED indicators
- Recommended maximum distance from controller to RDU is 500'



### OPTION LMS-188-4P: Leonard 4 Point Digital Monitoring with Alarm

- Four (4) Temperature Probes - Range: -148°F to 212°F Resolution: 1°F
- User adjustable high / low set points, initial alarm delay period, audible & visual alarms
- Remote alarm contacts (SPDT) with adjustable relay delay period
- 10/100 Ethernet Connection, Web Server Interface for Setup & Commissioning
- Unit can send an E-mail of alarms / temperatures for up to 8 contacts daily
- LMS-188-4P option replaces analog dial thermometers with a single digital display for all 4 temperatures, incoming hot, incoming cold, outlet and return



### OPTION LMS-188-4P-BMS: Leonard 4 Point Digital Monitoring System with Alarm & Enhanced Protocol Communication Interface Module

#### Primary Alarm Box includes:

- Same as above

#### ProtoNode Accessory Box includes:

- Interface Module to connect LMS-188-4P-BMS to Building Management System (-BMS) Network, Complete Protocol Package
- Supported protocols include BACnet MS/TP, BACnet IP, Modbus RTU, Modbus TCP/IP, SNMP, JC N2, available simply by selecting the proper DIP switches
- LMS-188-4P-BMS option replaces analog dial thermometers with a single digital display for all 4 temperatures, incoming hot, incoming cold, outlet and return



### OPTION DA: Digital Aquastat

- Electronic digital aquastat with Nema 1 case and SPDT Relay Output



### OPTION DG: Digital Gauges

- Replaces all analog gauges with digital gauges, inlet hot, inlet cold, outlet and return temperature

## OPTION USER CHOSEN PUMP

Standard pump is TACO 008, if another manufacturer is preferred please specify, but note that ANY change from standard pump will result in a **PRICE INCREASE**



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