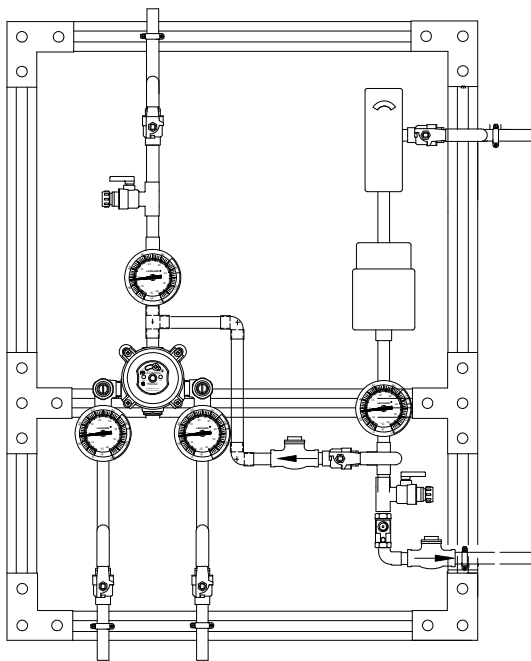


**COMPLETE  
WATER  
TEMPERATURE  
CONTROL  
STATION  
ECO-MIX™**

**MEGATRON® MODEL TA-F-LF**

VALVE IS 1017 CERTIFIED



**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.	
Job # _____	<b>Engineer's Approval</b>
Arch/Eng. _____	
Contractor _____	

\_\_\_TA-F-LF, 1/2" angle checkstops

- Thermostatic mixing valve for critical line control/process applications
- Dura-trol® solid bimetal thermostat directly linked to valve porting to control the intake of hot and cold water and compensate for supply temperature or pressure fluctuations. Dura-trol® is highly responsive and cannot be damaged by extremes in temperature.
- Adjustable high temperature limit stop set for 110°F\* (43°C)
- Maximum operation pressure: 125 PSI (860 KPA)
- Temperature selector handle with scale: COLD-HOT
- 1/2" inlet/outlet connections (copper tube)
- Dial thermometer (range 0 to 140°F, -10 to 60°C) on mixed water outlet of the system
- Outlet Test Connection with ball valve and 3/4" hose connection with cap
- Full port ball valve mounted downstream of test connection 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 aquastat, circulator (TACO 006, 4gpm @ 6ft head), dial thermometer (0 to 140°F, -10 to 60°C), balancing valve (with positive shutoff) to balance system, and check valve.
- Bypass piping, 1/2" with check valve and isolation ball valve to tempered side 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



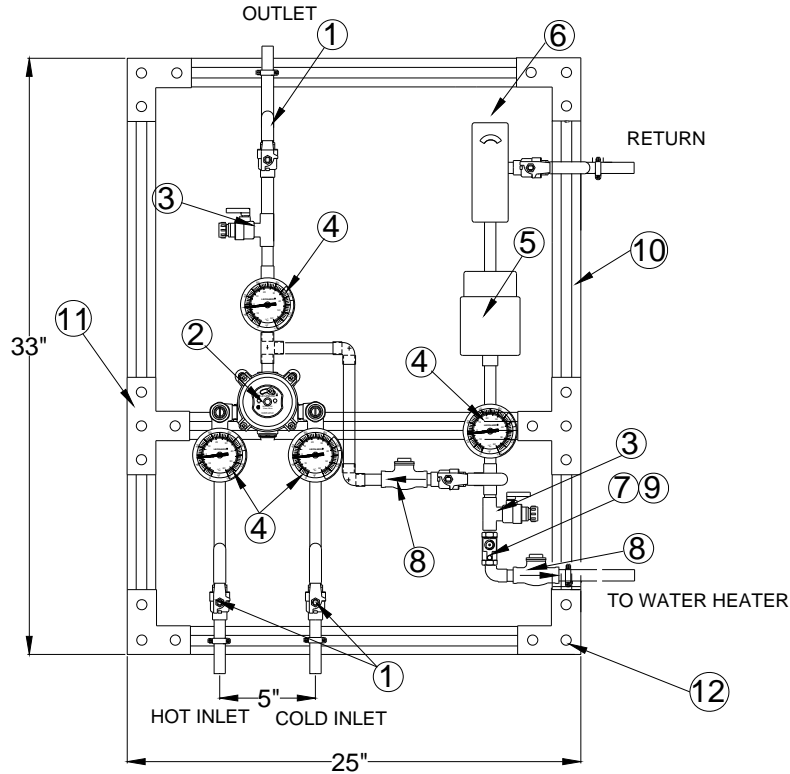
1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: [info@leonardvalve.com](mailto:info@leonardvalve.com)

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

# MEGATRON<sup>®</sup> MODEL TA-F-LF



- |    |                      |     |                         |
|----|----------------------|-----|-------------------------|
| 1. | FULL PORT BALL VALVE | 7.  | CIRCUIT SETTER          |
| 2. | MIXING VALVE         | 8.  | FLAPPER CHECK           |
| 3. | TEST CONNECTION      | 9.  | DRAIN W/ VACUUM BREAKER |
| 4. | DIAL THERMOMETER     | 10. | GALVANIZED STRUT        |
| 5. | CIRCULATOR           | 11. | TEE BRACKET             |
| 6. | AQUASTAT             | 12. | CORNER BRACKET          |

## FLOW CAPACITIES

MODEL	IN	OUT	MINIMUM FLOW (GPM)	PRESSURE DROP							PSI
				5	10	20	30	40	45	50	
TA	1/2"	1/2"	L/MIN	.3	.7	1.4	2.1	2.8	3.1	3.4	
			GPM	.5	2.0	2.9	5.3	6.9	8.3	8.7	9.0
			L/MIN	1.89	7.6	11	20	26	31	33	34

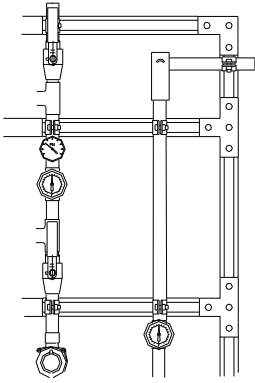
**CAUTION!** All thermostatic water mixing valves have limitations. They will NOT provide the desired accuracy outside of their flow capacity range. Consult the Flow Capacity Chart and DO NOT OVERSIZE. Minimum flow must be no less than as indicated.

**\*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

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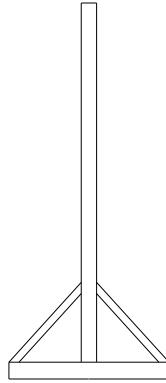
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# OPTIONS



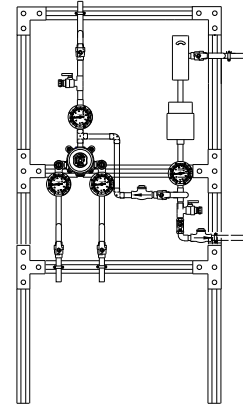
**LC**

Megatron® furnished without a circulator. Tie return line here



**FM**

Megatron® with 3 legs, 3 ½” 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.

## OPTIONS\*

- LC** Less circulator
- FM** Floor mount
- FS** Free standing

## OPTIONS (shown on next page) \*

- AL** Audio Visual Alarm
- RDU** Remote Display Unit
- LMS-188-4P** Leonard Monitoring system
- LMS-188-4P-BMS** Leonard Monitoring system with module to connect to building management

\* Any option chosen will alter pricing

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## OPTION AL: Leonard Single Probe Digital Temperature Alarm

### Primary Alarm Box includes:

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



## OPTION RDU: Leonard Remote Display Unit

### Remote Alarm Delay Option Includes:

- 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 System with Alarm

### Unit includes:

- Four (4) Temperature Probes - Range: -148°F to 212°F Resolution: 1°F
- Audio & visual alarms
- User adjustable high & low temperature alarm set points
- Alarm delay period to prevent nuisance alarms
- Remote alarm contacts (SPDT) with adjustable relay period
- 10/100 Ethernet Connection
- Web Server Interface for Setup & Commissioning
- Unit can send an E-mail transmission of alarms for up to 8 contacts
- Unit can send an E-mail report daily with temperatures readings over the previous day
- 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:

- Four (4) Temperature Probes - Range: -148°F to 212°F Resolution: 1°F
- User adjustable high & low set points and initial alarm delay period
- Audio & visual alarms
- Remote alarm contacts (SPDT) with adjustable relay period

### 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
- Cat 5 Ethernet Cable not included
- 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



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