

COMPLETE WATER TEMPERATURE CONTROL STATION

MEGATRON® LEAD FREE MODEL M-XL52LF

- 3/4" HOT & COLD INLETS
- 1" MIXED OUTLET
- 3/4" RETURN PIPING
- 1 to 55 GPM (3.8 to 208 l/min)

ASSE 1017 CERTIFIED 

CSA CERTIFIED 

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.

See page 2 for Specification detail

See page 3 for Drawing detail

See page 4 for Flow capacity chart

See page 5 for Options



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

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

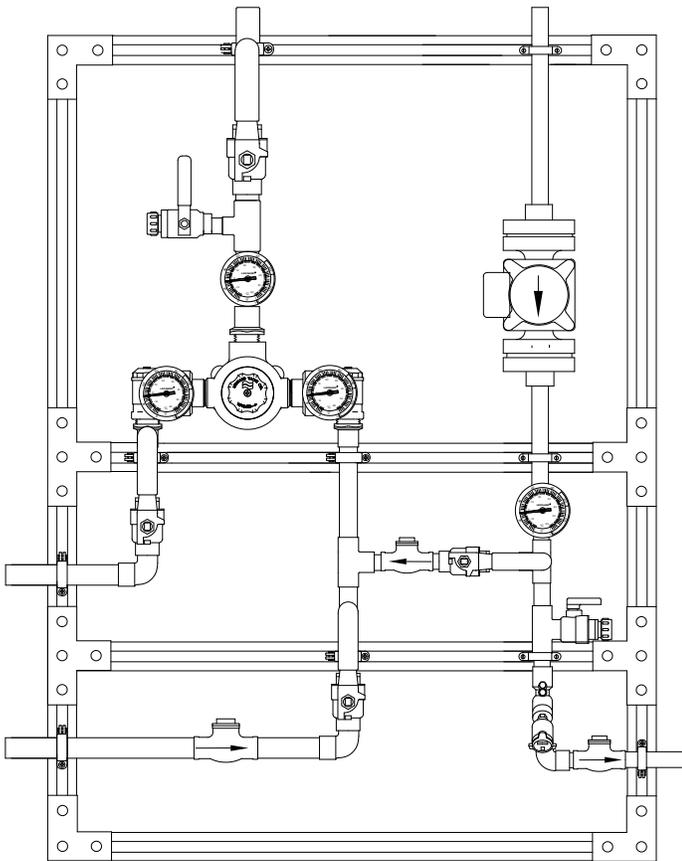


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Engineer's Approval	Job # _____
	Arch/Eng. _____
	Contractor _____

Note: The models shown represent Leonard Products which are believed to be equivalent in type and function to items specified. Leonard Valve Company is not responsible for errors or omissions due to differences in interpretations of information provided.

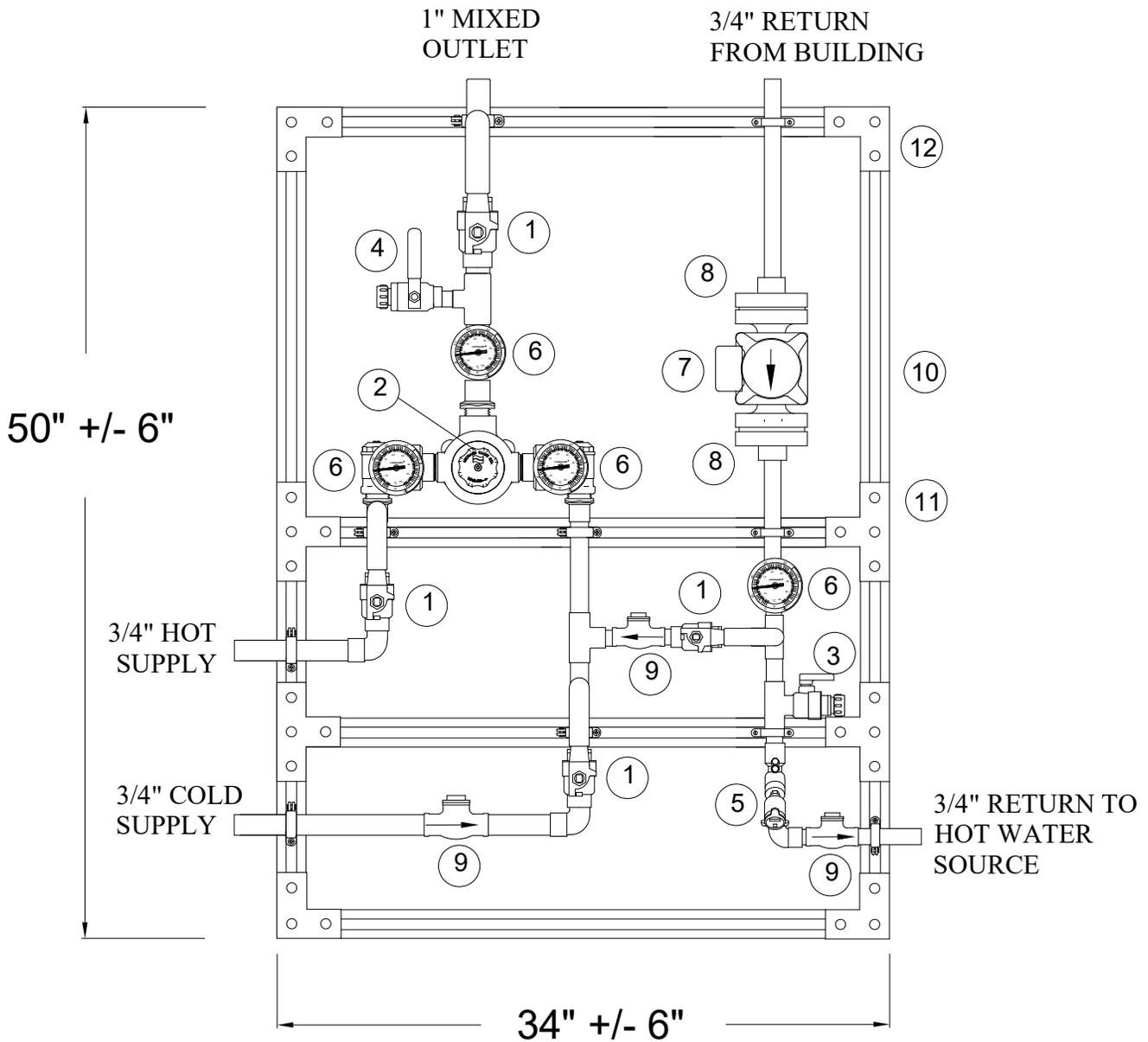
MEGATRON® MODEL M-XL-52-LF

- * Lead Free construction, to comply with LEAD FREE requirements
- * Wetted surface area of this product contains less than one quarter of one percent (0.25%) of lead by weight
- LEONARD MEGATRON® MODEL M-XL-52-LF Complete Water Temperature Control Station (1 - 55 GPM, 3.8 to 208 l/min) to include:
 - 3/4" side inlet connections (copper tube)
 - 1" top outlet connection (copper tube)
 - 3/4" return line size with piping method #W
 - Copper encapsulated thermostatic assembly with stainless steel shuttle
 - Locking temperature regulating handle set for 120°F (49°C)
 - Temperature adjustment range, 90-140°F (32-60°C) **
 - Full port ball valve on mixed water outlet piping of mixing valve.
 - 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 manifold 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, 3/4", Taco 0034E PLUS circulator, dial thermometer (0 to 140°F, -10 to 60°C), balancing valve (with positive shutoff) to balance system, and check valve
 - Bypass piping, 3/4", with check valve and isolation ball valve to cold inlet of mixing valve
 - Maximum operating pressure: 125 PSIG (860KPA)
 - System mounted on strut, galvanized. Strut shall be assembled with three hole flat 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 0034E PLUS standard pump included and installed
 - High-performance, variable speed, wet-rotor circulator with high-efficiency ECM permanent magnet technology, Simple 3-button control
 - An intuitive digital user interface lets you choose between a variety of operating modes; activeADAPT™, five Constant Pressure curves, five Proportional Pressure curves, Min/Max fixed speed or speed control through 0-10V DC or PWM external input
 - Digital LED screen displays; Watts, GPM, Head, RPM and diagnostic error codes
 - Maximums of 34 feet of head and 50 GPM

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



MEGATRON® MODEL M-XL-52-LF



Dimensions may vary with the addition of options see page #5

LEGEND

1. Full port ball valve	6. Dial thermometer	9. Flapper check
2. Mixing valve	7. Circulator-As specified by Engineer	10. Galvanized Strut
3. Tee Drain	8. Pump shut-offs	11. Tee bracket
4. Test connection		12. Corner Bracket
5. Balancing Valve		

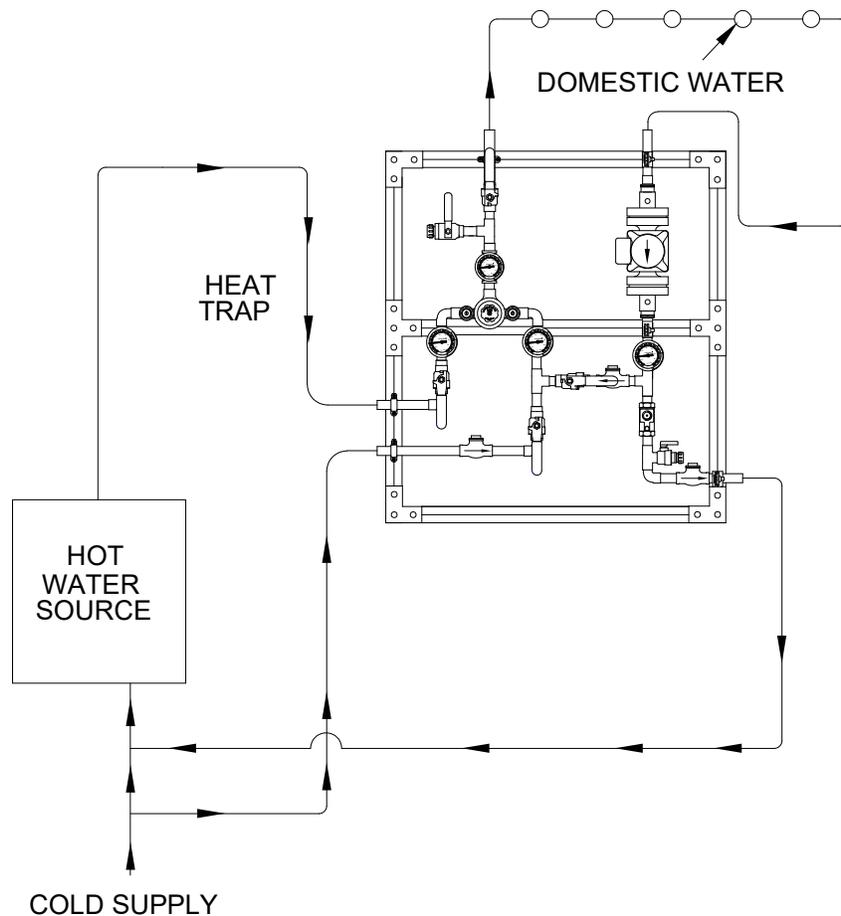
MEGATRON® MODEL M-XL52LF (1 TO 55 GPM)

Flow Capacity

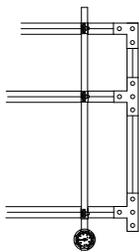
PRESSURE DROP											
MIN ⁺ FLOW	5	10	15	20	25	30	35	40	45	50	PSI
	0.3	0.7	1	1.4	1.7	2.1	2.4	2.8	3.1	3.4	BAR
1	18	26	31	36	40	44	47	50	53	55	GPM
3.8	68	98	117	136	151	167	178	189	201	208	l/min

+NOTE: The valve will maintain temperature with 0.5GPM flow from the domestic hot water loop when properly installed near the hot water source with a continuously operating recirculation pump.

NOTE: Flowrates will vary depending on existing field conditions. Leonard Valve Company always recommends using CASPAK® sizing software for proper valve sizing and model number applications.

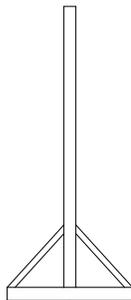


OPTIONS



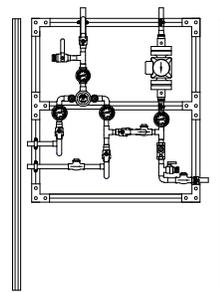
LC

Megatron® furnished without a circulator.



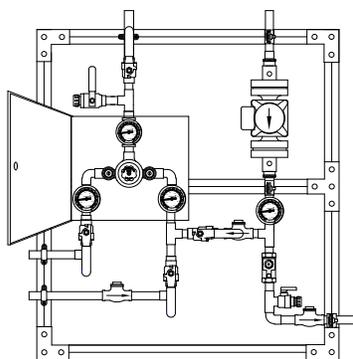
FM

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



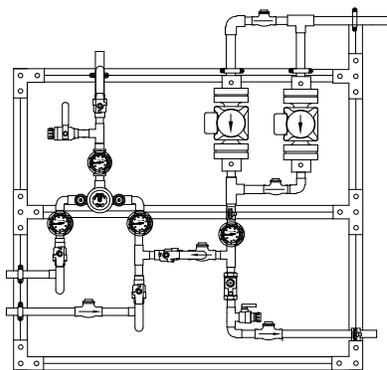
FS

Megatron® with legs to floor (shipped separate) to support the unit without hangers.



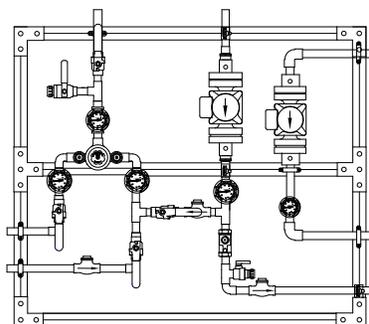
CAB

Megatron® with SS cabinet around mixing valve



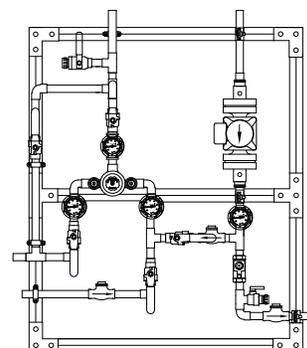
2 PUMPS R

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
- CAB** Cabinet around mixing valve
- 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
- ARV** Automatic return valve (replaces circuit setter)

* Any option chosen will alter pricing

OPTIONS (shown on next page) *

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

PIPING OPTIONS *

- RP 1** 1" Return line size
- RP 1-1/4** 1-1/4" Return line size
- RP 1-1/2** 1-1/2" Return line size





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 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 0034E PLUS, if another manufacturer is preferred please specify, but note that ANY change from standard pump will result in a **PRICE INCREASE**

