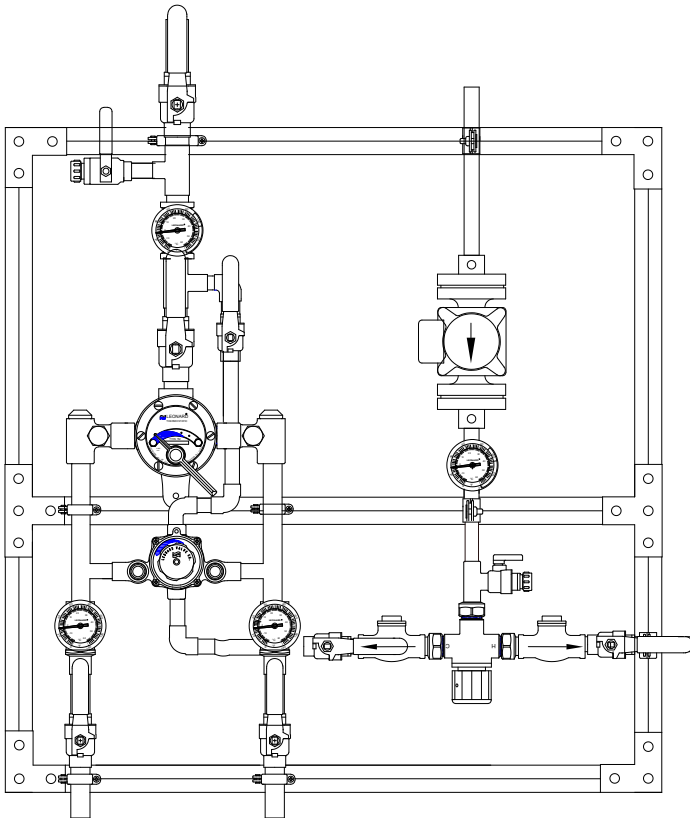


COMPLETE WATER TEMPERATURE CONTROL STATION

ECO-MIX™

MEGATRON® LEAD FREE MODEL 4NB-LF

- 1¼" HOT & COLD INLETS
- 1¼" MIXED OUTLET
- ¾" RETURN PIPING
- 1.0 to 115 GPM (3.7 to 453 l/min)



Valve assembly is ASSE 1017 Certified



Valve assembly is 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, contain 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

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

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



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MEGATRON® MODEL 4NB-LF

LEONARD MEGATRON® MODEL 4NB-LF Complete Water Temperature Control Station (1.0 - 115 GPM, 3.7 to 453 l/min) to include:

- Wetted surface area of this product contains less than one quarter of one percent (0.25%) of lead by weight
- Lead Free construction, to comply with LEAD FREE requirements
- 1 ¼" bottom inlet connections (copper tube)
- 1 ¼" top outlet connection (copper tube)
- ¾" return line size with piping method #2 (8 GPM maximum flow) see page 5 for piping options.
- Large thermostatic water mixing valve with DURA-trol® solid bimetal thermostat (with Extended 7 Year Limited Warranty) directly linked to hot and cold valve porting, adjustable high temperature limit stop set for 120°F (49°C)*, color-coded dial: C-H, locking temperature regulator, inlet union angle strainer checkstops
- Full port ball valve on mixed water outlet piping of large mixing valve
- Small thermostatic water mixing valve with DURA-trol® solid bimetal thermostat (with Extended 7 Year Limited Warranty) directly linked to hot and cold valve porting, adjustable high temperature limit stop set for 120°F (49°C)*, color-coded dial: Cold-Hot, integral checkstops on inlets
- Full port ball valve on outlet of small 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 ¾" 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, ¾", Taco 0034E PLUS circulator, dial thermometer (0 to 140°F, -10 to 60°C), automatic return valve to balance system, and check valve
- Bypass piping, ¾", with check valve and isolation ball valve to bottom port of small 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

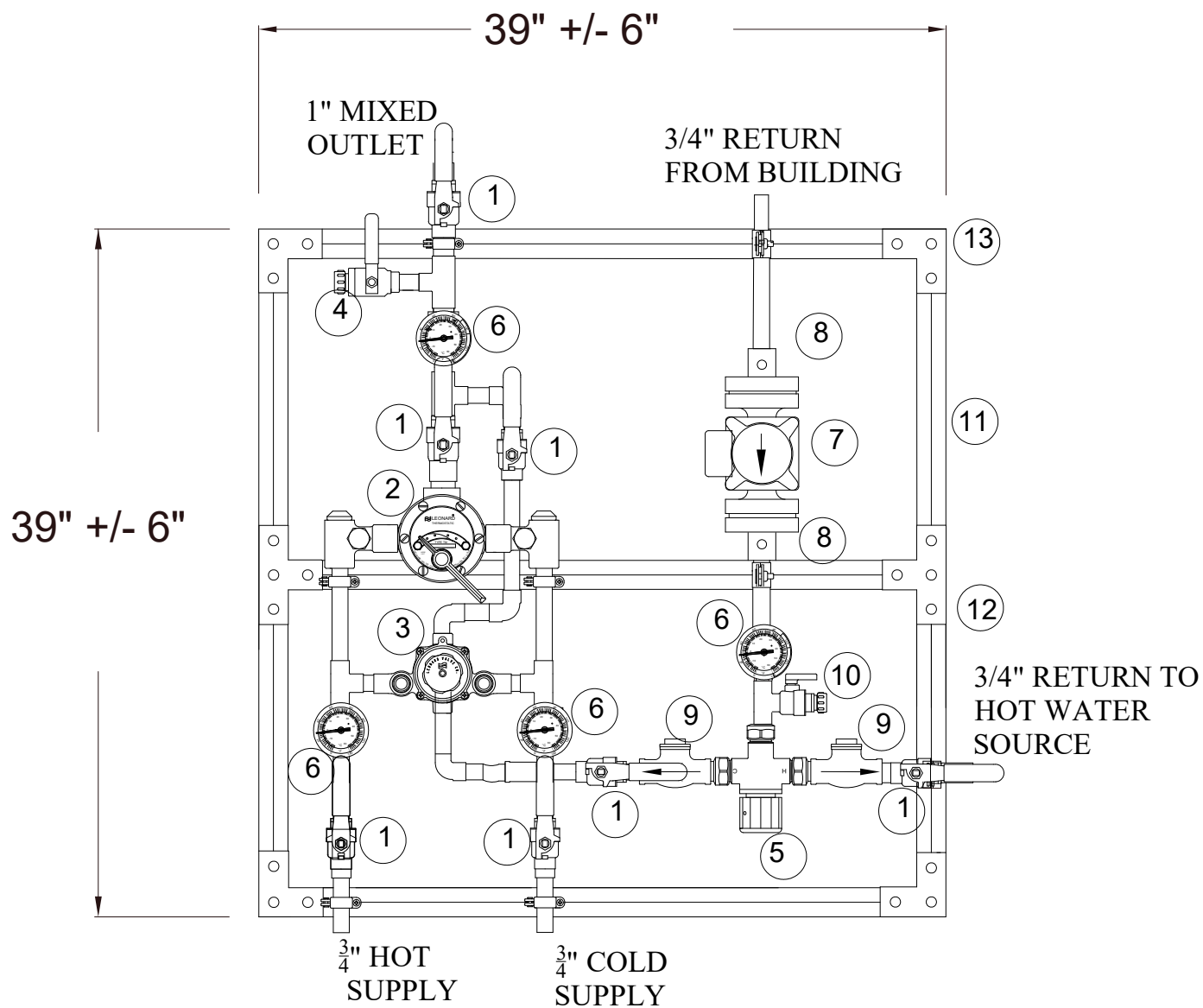
An intuitive digital user interface lets you choose between a variety of operating modes; activeADAPT™, five Constant Pressure curves, five Proportional Pressure curves, Min/Max fixed speed or speed control through 0-10V DC or PWM external input

Digital LED screen displays; Watts, GPM, Head, RPM and diagnostic error codes

Maximums of 34 feet of head and 50 GPM



MEGATRON® MODEL 4NB-LF



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

LEGEND

1. Full port ball valve	6. Dial thermometer	10. Tee drain
2. Large TM mixing valve	7. Circulator-As specified by Engineer	11. Galvanized Strut
3. Small TM mixing valve	8. Pump shut offs	12. Tee bracket
4. Test connection	9. Flapper check	13. Corner Bracket
5. Automatic Return Valve		

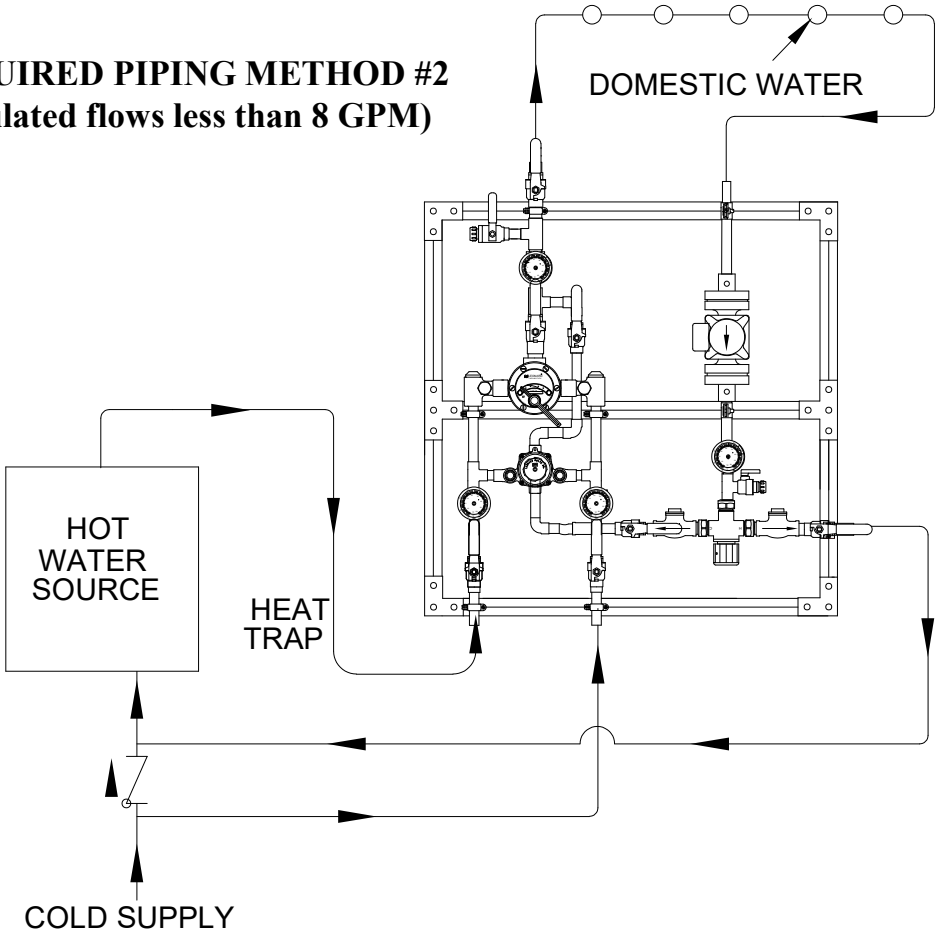
MEGATRON® MODEL 4NB-LF (1.0 TO 115 GPM)

Flow Capacity

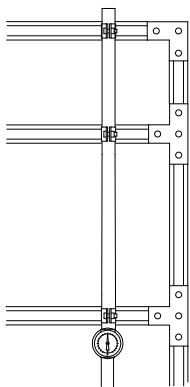
MINIMUM FLOW (GPM) (l/min)	SYSTEM PRESSURE DROP (PSIG)										
	5	10	15	20	25	30	35	40	45	50	PSI
	,3	.7	.97	1.4	1.7	2.1	2.4	2.8	3.1	3.4	BAR
1.0 (3.7)	33 124	47 178	56 212	63 238	68 257	82 310	85 322	92 348	103 390	115 453	GPM l/min

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.

REQUIRED PIPING METHOD #2 (circulated flows less than 8 GPM)

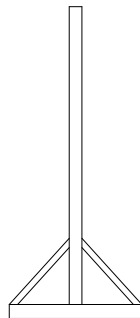


OPTIONS



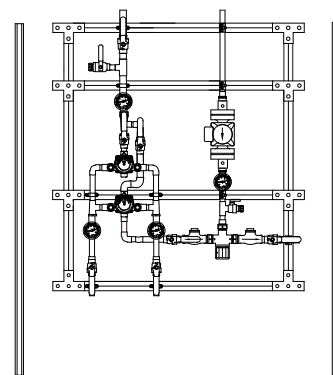
LC

Megatron® furnished without a circulator.



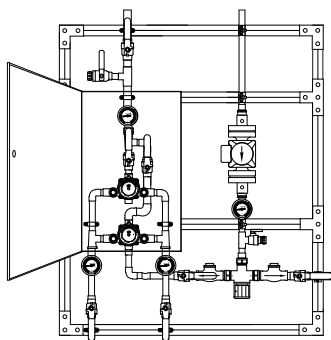
FM

Megatron® with 3 legs, 3 ½" feet and 45 degree braces front and back for mounting to floor in center of room.



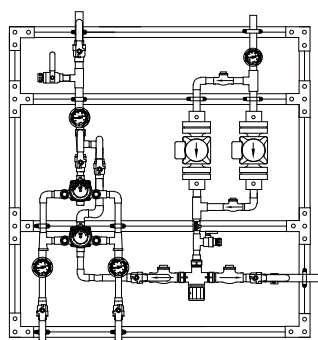
FS

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



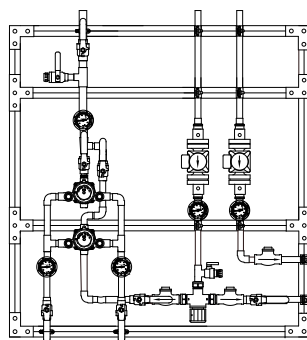
CAB

Megatron® with SS cabinet around mixing valve



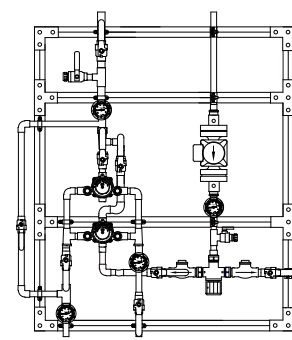
2 PUMPS R

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
- ☐ **CS** Circuit setter, replaces automatic return valve

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 *

- ☐ **M5** Piping Method #5 circulated flows over 8 GPM (Requires **RP** option below)
- ☐ **RP 1** 1" Return line size (**M5**)
- ☐ **RP 1 ¼"** 1 ¼" Return line size (**M5**)
- ☐ **RP 1 ½"** 1 ½" Return line size (**M5**)
- ☐ **RP 2** 2" Return line size (**M5**)

* Any option chosen will alter pricing



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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**

