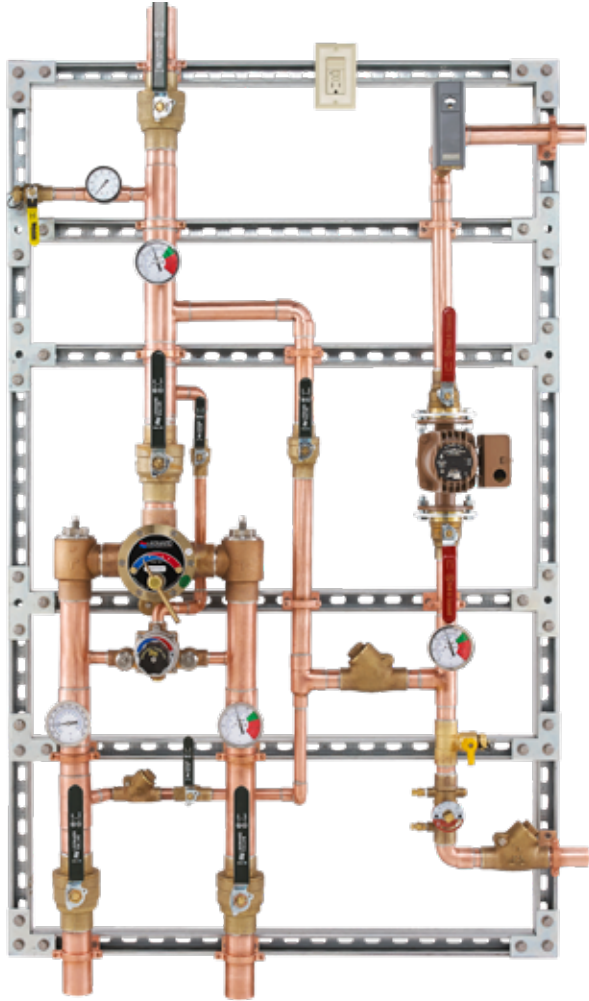




Mixing Safety & Performance for Over 100 Years

WATER TEMPERATURE CONTROL SYSTEMS



MEGATRON® 6NB-LF



TM-2020B-LF-DT



TM-2020B-2PS-LF



ASSE 1017 | LOW LEAD CERTIFIED
Made in the USA with Domestic and Imported Parts

1360 Elmwood Ave., Cranston, RI 02910
TF: 800.222.1208 | P: 401.461.1200 | F: 401.941.5310
www.leonardvalve.com

WATER TEMPERATURE CONTROL SYSTEMS

Leonard Megatron®

- Regulate water temperature for building hot water systems and other commercial, institutional and industrial applications.
- DURA-trol® solid bi-metal thermostatic control
- Adjustable high temperature limit stops set for 120°F
- Mixed water capacity from 1-678 GPM (3.7-2567 l/min)
- Simple installation, reduced setup costs
- All lead-free bronze, brass and stainless steel construction
- System mounted on strut with return piping and circulator
- Factory-preassembled and tested as a complete control station
- Toll-free technical support

Water Temperature DURA-trol® Bi-Metal Control System Selection Guide

Megatron®

All valve assemblies are ASSE 1017 Listed and 3rd Party certified as Lead-Free

Models

1NB-LF	3/4" inlets, 1" outlet, 1-42GPM (3.7-159 l/min)
2NB-LF	3/4" inlets, 1" outlet, 1-72 GPM (3.7-272 l/min)
3NB-LF	1" inlets, 1-1/4" outlet, 1-84 GPM (3.7-318 l/min)
4NB-LF	1-1/4" inlets and outlet, 1-103 GPM (3.7-390 l/min)
5NB-LF	1-1/4" inlets, 1-1/2" outlet, 1-158 GPM (3.7-598 l/min)
6NB-LF	2" inlets and outlet, 1-214 GPM (3.7-810 l/min)
7NB-LF	2" inlets and outlet, 2-316 GPM (7.6-1196 l/min)
8NB-LF	3" inlets and outlet, 2-428 GPM (7.6-1620 l/min)
10NB-LF	4" inlets and outlet, 3-642 GPM (11.4-2430 l/min)

Standard Megatron® Systems – Piping Methods

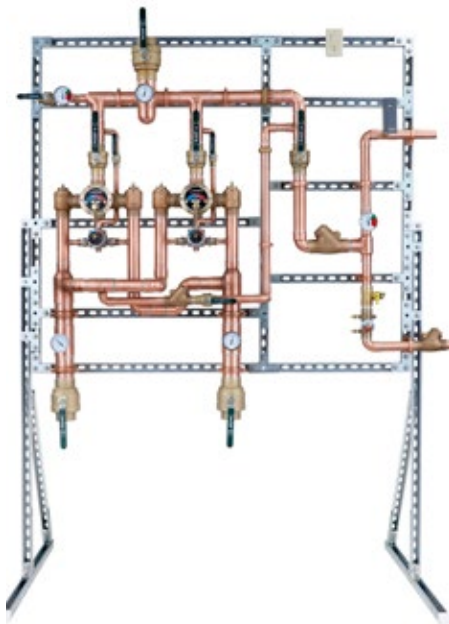
Method 2 (up to 8.0 GPM)	Models 1NB, 2NB, 3NB, 4NB
Method 5 (over 8.0 GPM)	Models 5NB, 6NB, 7NB, 8NB, 10NB

Optional Piping

M5	Method #5 piping for systems circulating over 8.0 GPM
RP 1	1" Return line size (M5)
RP 1-1/4"	1-1/4" Return line size (M5)
RP 1-1/2"	1-1/2" Return line size (M5)
RP 2	2" Return line size (M5)

Options

LMS-188-4P-BMS	Building Management System Interface
AU-3000	Audio Visual Alarm
FM	Floor Mounted
FS	Free Standing
SCO	Solenoid Control Option
LC	Less Circulator
2 Pump H	High Temperature Recirculation loop with circulator
2 Pump R	Redundant Recirculation pump
RDU	Remote Display Unit

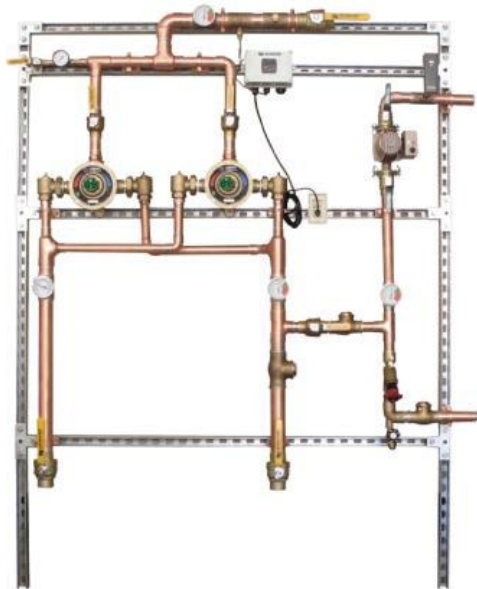


Megatron® 8NB-LF-LC-FM

2-428 GPM (7.6-1620 l/min)
3" inlets/outlet, 1-1/2" return line

Leonard Megatron®

- Regulate water temperature for building hot water systems and other commercial, institutional and industrial applications.
- Paraffin-based thermostatic control solutions
- Adjustable high temperature limit stops set for 120°F
- Mixed water capacity from 0.25-416 GPM (0.95-1575 l/min)
- Simple installation, reduced setup costs
- All lead-free bronze, brass and stainless steel construction
- System mounted on strut with return piping and circulator
- Factory-preassembled and tested as a complete control station
- Toll-free technical support



Megatron® XL-150-2P-LF-BMSI-FS

6.0 – 248 GPM (23 – 938 l/min)
2" inlets/outlet, 1-1/2" return line

Water Temperature Paraffin Wax Control System Selection Guide

Megatron®

Models

270-LF	1/2" inlets and outlet, 0.25-11 GPM (0.95-42 l/min)
370-LF	3/4" inlets and outlet, 0.25-12.5 GPM (0.95-47 l/min)
XL-32A-LF	3/4" inlets and outlet, 1-32 GPM (3.7-121 l/min)
XL-82-LF	1" inlets, 1-1/4" outlet, 1-58 GPM (3.7-219 l/min)
XL-150-LF	1-1/4" inlets, 1-1/2" outlet, 3-124 GPM (11.4-469 l/min)
XL-200-LF	2" inlets and outlet, 5.0 - 198 GPM (18.9 - 750 l/min)
XL-150-2P-LF	2" inlets and outlet, 6-248 GPM (22.7-939 l/min)
XL-200-SW-2P-LF	3" inlets and outlet, 5-198 GPM (18.9-750 l/min)

Standard Megatron® Systems - Piping Method

Method W (wax and electronic only)

Optional Piping

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
RP 2	2" Return line size

Options

LMS-188-4P-BMS	Building Management System Interface
AU-3000	Audio Visual Alarm
FM	Floor Mounted
FS	Free Standing
SCO	Solenoid Control Option
LC	Less Circulator
2 Pump H	High Temperature Recirculation loop with circulator
2 Pump R	Redundant Recirculation pump
RDU	Remote Display Unit

HIGH CAPACITY MANIFOLD SYSTEMS

Leonard High Capacity Manifold Systems

- Designed specifically for convention hotels, large apartments or condominiums and large prisons
- Regulate water temperature over a wide range of flows for large commercial and institutional applications.
- Thermostatic water mixing valves, DURA-trol® solid bi-metal thermostatic control and paraffin-based thermostatic control solutions
- Ten-Year Limited Thermostat Warranty
- Adjustable high-temperature limit stops set for 120°F (49°C)
- Mixed water capacities up to 678 GPM
- Factory-preassembled and tested systems
- Toll-free technical support

High Capacity Manifold Systems Selection Guide

Models

XL-150-2PS-LF	2" inlets/outlet, 6-248 GPM (22.7-939 l/min)
TM-1520B-2PS-LF	2" inlets/outlet, 2-316 GPM (7.6-1196 l/min)
XL-200-2PS-LF	3" inlets/outlet, 10-396 GPM (37.9-1499 l/min)
TM-2020B-2PS-LF	3" inlets/outlet, 2-428 GPM (7.6-1620 l/min)
TM-2020B-3PS-LF	4" inlets/outlet, 3-642 GPM (11.4-2340 l/min)

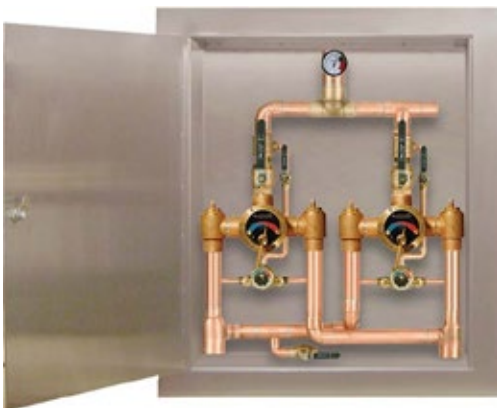
Enclosures

STSTL REC	Stainless Steel Recessed Cabinet*
STSTL EXP	Stainless Steel Exposed Cabinet*

*Available on selected models, contact Leonard

Options

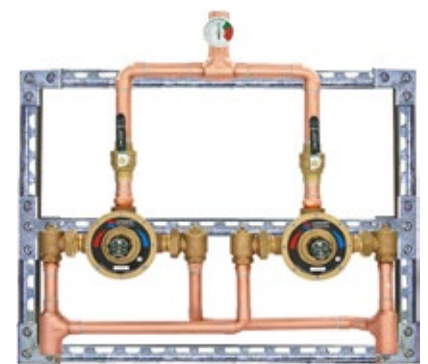
SUFFIX TC	Test Connection Piping on Outlet (2" Models Only, contact Leonard)
SUFFIX IT	Inlet Thermometers



TM-2020B-2PS-LF-STSTL-REC



TM-2020B-3PS-LF



XL-150-2PS-LF

NEXT GENERATION HIGH-LOW SYSTEMS

Leonard Next Generation High-Low Systems

- Control water temperature for domestic hot water systems, shower rooms and other commercial, institutional and industrial applications
- Dual thermostatic water mixing valves in a simple piping arrangement provide precise water temperature control of both high and low mixed water flow ranges
- DURA-trol® solid bi-metal thermostatic control (Ten-Year Limited Thermostat Warranty)
- Adjustable high-temperature limit stops set for 120°F (49°C)
- Mixed water capacities up to 226 GPM (856 l/min)
- All lead-free bronze, brass and stainless steel construction
- Factory-preassembled and tested systems
- Toll-free technical support

Next Generation System Selection Guide

Models

TM-420B-LF-DT	3/4" inlets, 1" outlet, 1-49 GPM (3.8-185 l/min)
TM-520B-LF-DT	3/4" inlets, 1" outlet, 1-75 GPM (3.8-284 l/min)
TM-820B-LF-DT	1" inlets, 1-1/4" outlet, 1-89 GPM (3.8-337 l/min)
TM-920B-LF-DT	1-1/4" inlets and outlet, 1-115 GPM (3.8-435 l/min)
TM-1520B-LF-DT	1-1/4" inlets, 1-1/2" outlet, 1-165 GPM (3.8-625 l/min)
TM-2020B-LF-DT	2" inlets and outlet, 1- 226 GPM (3.8-856 l/min)

Optional Finish

CP	Chrome Plated
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Enclosures

STSTL REC	Stainless Steel Recessed Cabinet
STSTL EXP	Stainless Steel Exposed Cabinet
BWE REC	Baked White Enamel Recessed Cabinet
BWE EXP	Baked White Enamel Exposed Cabinet

Options

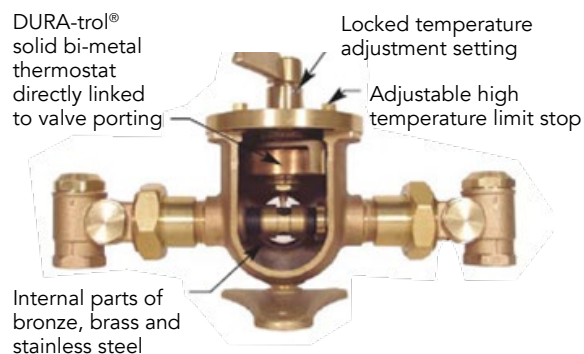
SUFFIX TC	Test Connection Piping on Outlet
LMS-188-4P-BMS	Building Management System Interface
SCO	Solenoid Control Option
SUFFIX IT	Inlet Thermometers
HT	High Temperature Thermometer



TM-920B-LF-DT



TM-186-920B-LF-DT-STSTL-REC



THERMOSTATIC HIGH-LOW MASTER MIXERS

XL Series Thermostatic Mixing Valves

- Copper encapsulated thermostatic control (Ten-Year Limited Thermostat Warranty)
- Mixed water capacities up to 216 GPM (818 l/min)
- All lead-free bronze, brass, and stainless steel construction
- Integral combination checkstops on inlets
- Locking temperature regulator
- Integral wall support
- Factory-preassembled and tested
- CASPAK® Sizing Program
- Toll-free technical support

Thermostatic High-Low Master Mixers Selection Guide

Models

XL-32A-LF	3/4" inlets/outlet, 1 – 33 GPM (3.8 – 125 l/min)
XL-82-LF	1" inlets, 1-1/4" outlet, 1 – 61 GPM (3.8 – 231 l/min)
XL-150-LF	1-1/4" inlets, 1-1/2" outlet, 3 – 130 GPM (11.4 – 492 l/min)
XL-200-SW-LF	2" inlets/outlet, 5 – 208 GPM (18.9 – 787 l/min)

Enclosures

STSTL REC	Stainless Steel Recessed Cabinet
STSTL EXP	Stainless Steel Exposed Cabinet
BWE REC	Baked White Enamel Recessed Cabinet
BWE EXP	Baked White Enamel Exposed Cabinet

Optional Finishes

RF	Rough Bronze
CP	Chrome Plated (not available on XL-200-SW-LF)

Options

LWS	Less Wall Support
BDT	Ball Valve with Dial Thermometer on outlet
LMS-BMS	Building Management System Interface
AU-3000	Audio Visual Alarm



XL-32A-LF



XL-82-LF



XL-150-LF



XL-200-SW-LF

LV Series are furnished with factory-assembled and test with:

- Highly responsive copper encapsulated thermostat assembly to control the intake of hot and cold water and regulate mixed water temperature
- Integral check valves on hot and cold inlets, wall supports, and locking temperature regulators
- Maximum hot water supply temperature: 200°F (93° C)
- Maximum supply pressure: 125 PSI

Thermostatic Master Mixers Selection Guide

Models

LV-981A-LF	3/4" inlets/outlet, 2.5 – 44 GPM (9 – 157 l/min)
LV-982-LF	1" inlets, 1-1/4" outlet, 3.0 – 66 GPM (11 – 250 l/min)
LV-983-LF	1-1/4" inlets/outlet, 5.0 – 126 GPM (19 – 477 l/min)
LV-984-LF	1-1/4" inlets, 1-1/2" outlet, 6.0 – 148 GPM (22.7 – 560 l/min)
LV-985-SW-LF	2" inlets/outlet, 10 – 216 GPM (37.9 – 818 l/min)

Enclosures

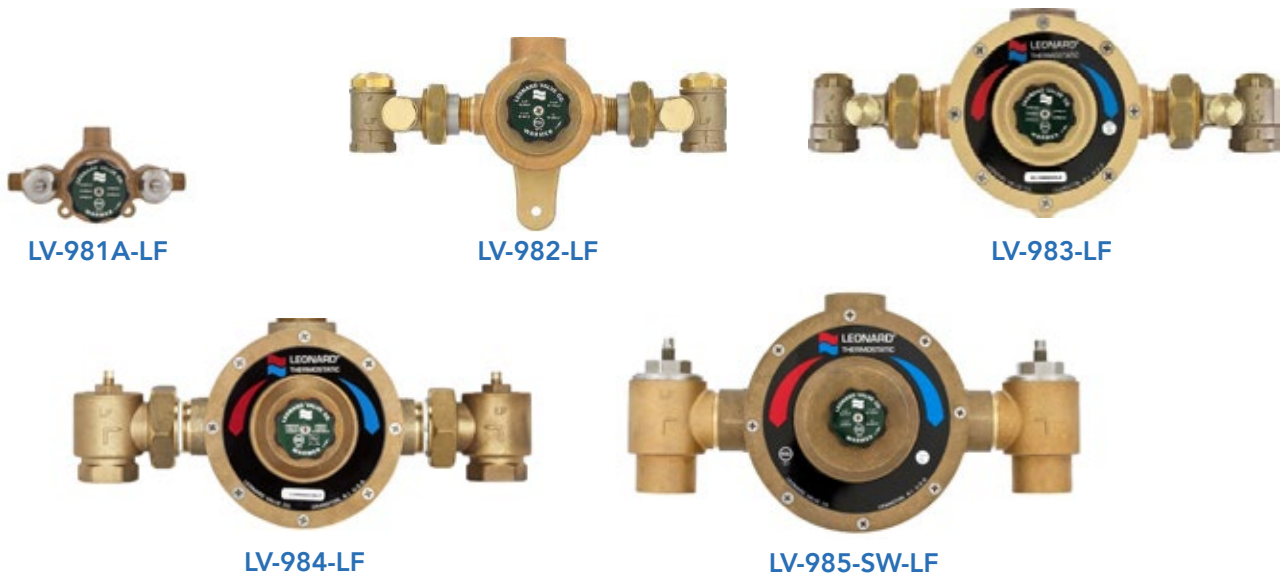
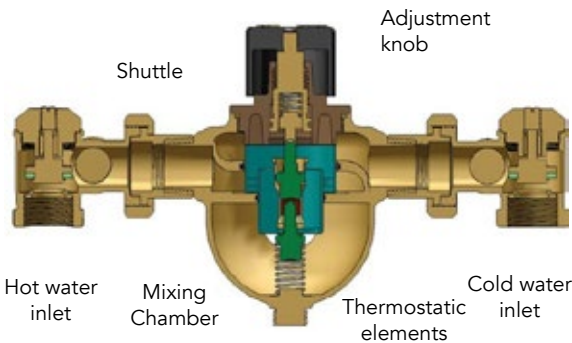
STSTL REC	Stainless Steel Recessed Cabinet
STSTL EXP	Stainless Steel Exposed Cabinet
BWE REC	Baked White Enamel Recessed Cabinet
BWE EXP	Baked White Enamel Exposed Cabinet

Optional Finishes

RF	Rough Bronze
CP	Chrome Plated (not available on LV-981A-LF or LV-985-SW-LF)

Options

LWS	Less Wall Support
BDT	Ball Valve with Dial Thermometer on outlet
LMS-BMS	Building Management System Interface
AU-3000	Audio Visual Alarm



ACCESSORIES



LMS-188-4P-BMS

For those applications where it is desired to monitor temperature in the domestic hot water system, specify Leonard's Building Management System Interface. This LMS-188-4P is mounted in a cabinet, including an enclosure, temperature indication, a Type J thermocouple, a 9' power cord (plug in 120V) and an Ethernet category 5 connection for LMS-188-4P-BMS communication.



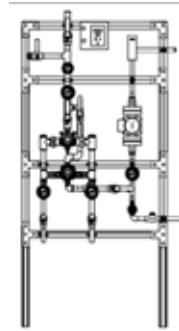
AU-3000

To ensure additional protection, specify Leonard AU-3000 Audio Visual High Temperature Alarm Systems.



Floor mounted (FM)

For those applications MEGATRON® with 2 legs, 3-1/2' and 45° braces front and back for mounting to floor in center of room.



Free Standing

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



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