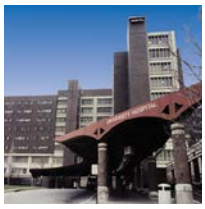
Hydrotherapy/Patient Care Controls/Dialysis Systems/ High Temperature Alarms



Leonard Thermostatic Water Mixing Systems and Audio Visual High Temperature Alarms

Control water temperature for patient bathing, hydrotherapy, specialized treatments, dialysis applications.

0R-1776D

LV-356-20-LF W/HA

AU-2000

Hydrotherapy/Patient Care Controls/ Dialysis Systems/High Temperature Alarms

Leonard Thermostatic Water Mixing Systems

- Copper encapsulated thermostatic control
- Adjustable high temperature limit stops set for 110°F (43°C)
- Outlet on/off volume control, vacuum breaker
- Optional dial thermometers, cabinet mounting
- Up to three sizes (depending upon the model specified)
- Factory-preassembled and tested systems
- Toll Free technical support

Model XL-690-LF is ASSE 1069 Listed and 3rd Party certified as Lead Free

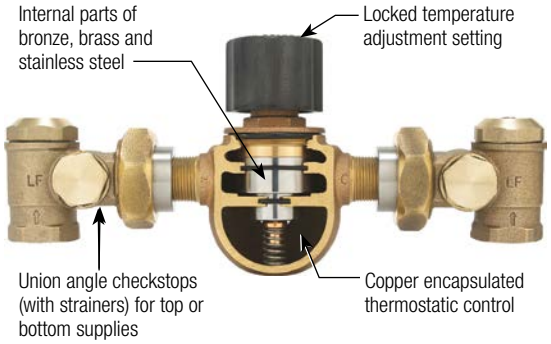
LV/XL Series Thermostatic Water Mixing Valves

All LV/XL Series Valves are furnished factory-assembled and tested 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 supply pressure: 125 PSI



Note: LV-10-LF and LV-20-LF have integral checks

Flow Capacities

Models	In	Out	Minimum Flow GPM	PRESSURE DROP										
				5	10	15	20	25	30	35	40	45	50	PSI
			L/MIN	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.4	BAR
TM-26-LF*	3/4"	3/4"	1.0	7	10	13	15	17	19	21	23	25	26	GPM
	(19.1mm)	(19.1mm)	(3.8)	26	38	49	57	64	72	80	87	95	98	L/MIN
LV-10-LF	1/2"	1/2"	1.0	4	6	7.5	8.8	10	11	12	13	14	15	GPM
	(12.7mm)	(12.7mm)	(3.8)	15	23	28	33	38	42	46	49	53	57	L/MIN
LV-20-LF*	3/4"	3/4"	1.0	6	9	12	14	16	18	20	22	24	25	GPM
	(19.1mm)	(19.1mm)	(3.8)	23	34	45	53	61	68	76	83	89	95	L/MIN
269-LF**	1/2"	1/2"	1.0	3.5	5.3	6.3	7	7.8	8.5	9.3	10	10.8	11.5	GPM
	(12.7mm)	(12.7mm)	(3.8)	13	20	24	27	30	32	35	38	41	44	L/MIN
369-LF**	3/4"	3/4"	1.0	4	5.8	6.8	7.5	8.3	9	9.8	10.5	11.3	12	GPM
	(19.1mm)	(19.1mm)	(3.8)	15	21	26	28	31	34	37	40	43	45	L/MIN
XL-670-LF***	1"	1 1/4"	2.5	5	10	20	35	39	41	48	55	59	62	GPM
	(25.4mm)	(31.6mm)	(9.5)	19	38	76	132	148	155	182	208	223	235	L/MIN
XL-690-LF****	1"	1 1/4"	1.0	5	10	20	35	39	41	48	55	59	62	GPM
	(25.4mm)	(31.6mm)	(3.8)	19	38	76	132	148	155	182	208	223	235	L/MIN

*ASSE 1017 listed and 3rd party certified as lead free
**ASSE 1069 listed and 3rd party certified as lead free
***ASSE 1070 listed and 3rd party certified as lead free
****ASSE 1017 & 1069 listed and 3rd party certified as lead free

MAXIMUM FLOW CAPACITY

CAUTION! All thermostatic water mixing valves have limitations. They will not provide the desired accuracy outside of their flow capacity range. Consult the above chart and make certain minimum flow is greater than as shown.

NOTE: The valve model must be selected based upon the following:

- Maximum system demand for mixed water (see Leonard's exclusive CASPAK® Sizing Program at www.leonardvalve.com)
- System pressure drop†
- Designer's estimated minimum mixed water flow requirement

† System pressure drop = the pressure available at the inlet of the mixing valve minus the pressure required to operate the farthest fixture, i.e., faucet or shower valve, in the building

Dialysis Systems

Thermostatic Mixing Station For Dialysis Applications

Leonard OR-1776A systems are special thermostatic mixing valve stations designed exclusively for dialysis applications. They deliver controlled lower flow water temperatures using Leonard's TAP Thermostatic Water Mixing Valve powered by the exclusive DURA-trol® solid bi-metal thermostat. The outlet assembly includes an atmospheric vacuum breaker, dial thermometer, on-off valve and quick coupler with dust cover. All components are factory-assembled and tested.

OR-1776A Thermostatic Mixing Station

- TAP Photomaster® with DURA-trol® solid bi-metal thermostat
- Adjustable high temperature limit stop set for 110°F (43°C)
- Maximum operating pressure 125 PSI (860 kPa)
- Temperature selector handle with scale: Cold-Hot
- Combination angle checkstops on inlets
- Outlet vacuum breaker (atmospheric type), dial thermometer (25 to 125°F, 0 to 50°C), volume control/shutoff, quick coupler with dust cover
- Stainless steel cabinet with all rounded corners, 2" waste
- Factory-assembled and tested

Option:

Suffix **RPZ** Reduced pressure principle assembly

OR-1776D
Stainless steel cabinet with rounded corners, fixed flange, 2" waste, hinged door (left side), cylinder lock.

OR-1775 Manual Station for Dialysis Applications
The water outlet assembly includes an atmospheric vacuum breaker, volume control/shutoff and stainless steel quick coupler with dust cover. The unit is mounted in a stainless steel recessed cabinet with drain, door with cylinder lock, and panel with vandal resistant screws.

Flow Capacities

Models	In	Out	Minimum Flow GPM	PRESSURE DROP 5	10	20	30	40	45	50	PSI
			L/MIN	0.3	0.7	1.4	2.1	2.8	3.1	3.4	BAR
OR-1776A	1/2"	1/2"	0.5	2.0	2.9	5.3	6.9	8.3	8.7	9.0	GPM
	(12.7mm)	(12.7mm)	1.89	7.6	11	20	26	31	33	34	L/MIN

Cabinet Assemblies

Standard Features:

Recessed stainless steel cabinet, 12 gauge door, left hand hinge, 16 gauge body, lock, chrome plated valve/piping, factory-assembled and tested

Optional Features:

Steel cabinet, baked white enamel finish, exposed cabinet, rough bronze valve/piping, unassembled components

LV-296 (Whirlpool Bath, Arm-Leg, Hip, Lower Lumbar Bath, Sitz Bath, Autopsy Table)

LV-296-10-LF	Bottom inlets, single side outlet with thermometer, vacuum breaker
LV-296-20-LF	
XL-296-670-LF	

LV-296-10-LF

LV-177A (Perineal Bath, Therapeutic Tub, Hygiene Pier Pattern Bath)

LV-177A-10-LF	Bottom inlets, double outlet with separate on/off valves, one outlet to tub, one outlet to vacuum breaker, 6 ft. rubber hose, rose spray
XL-177A-670-LF	

LV-177A-10-LF

LV-203 (Supervised Patient Shower/Bath, Sitz Bath, Autopsy Table)

LV-203-10-LF	Bottom inlets, single top outlet with thermometer
LV-203-20-LF	
XL-186-670-LF	

LV-203-10-LF

Exposed Assemblies

LV-356 (Whirlpool Bath, Arm-Leg-Hip-Lower Lumbar Bath)

LV-356-10-LF	Bottom inlets, single side outlet less thermometer, with vacuum breaker
LV-356-20-LF	
XL-356-670-LF	

LV-356-W/HA (With Washout Hose Assembly)

LV-356-10-LF W/HA	Bottom inlets, aux. 1/2" outlet with vacuum breaker 9 ft. rubber hose, rose spray, hook, side outlet with vacuum breaker
LV-356-20-LF W /HA	
XL-356-670-LF W/HA	

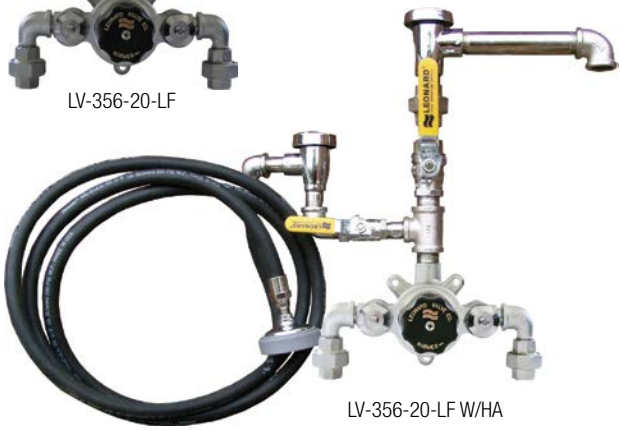
LV-504 (Whirlpool Bath, Arm-Leg-Hip-Lower Lumbar Bath, Sitz Bath, Shampoo Table)

LV-504-10-LF	Bottom inlets, single side outlet, thermometer, with vacuum breaker
LV-504-20-LF	
XL-504-670-LF	

XL-262 (Full Body Immersion and Underwater Treatment Bath/Tank, Hubbard Tank)

XL-262-670-LF	Bottom inlets, single top/back outlet with thermometer, vacuum breaker
XL-262-690-LF	

LV-356-20-LF



LV-356-20-LF W/HA

LV-504-10-LF

XL-262-690-LF

Concealed Assemblies

7600-C-60-1
Concealed 7600 thermostatic water mixing valve, 1.5 to 4 GPM, outlet dial thermometer with flange, elevated vacuum breaker, 6 ft. rubber hose, plain end, wall hook

7600-C-60-1

7600-C-60-7
Concealed 7600 thermostatic water mixing valve with outlet dial thermometer with flange, only

M-20-C-60-1
Concealed M-20-C thermostatic water mixing valve, 1 to 11 GPM, outlet dial thermometer with flange, elevated vacuum breaker, 6 ft. rubber hose, plain end, wall hook

M-20-C-60-7

M-20-C-60-7
Concealed M-20-C thermostatic water mixing valve with outlet dial thermometer with flange, only

Hydrotherapy/Patient Care Controls/ Dialysis Systems/High Temperature Alarms

High Temperature Alarms

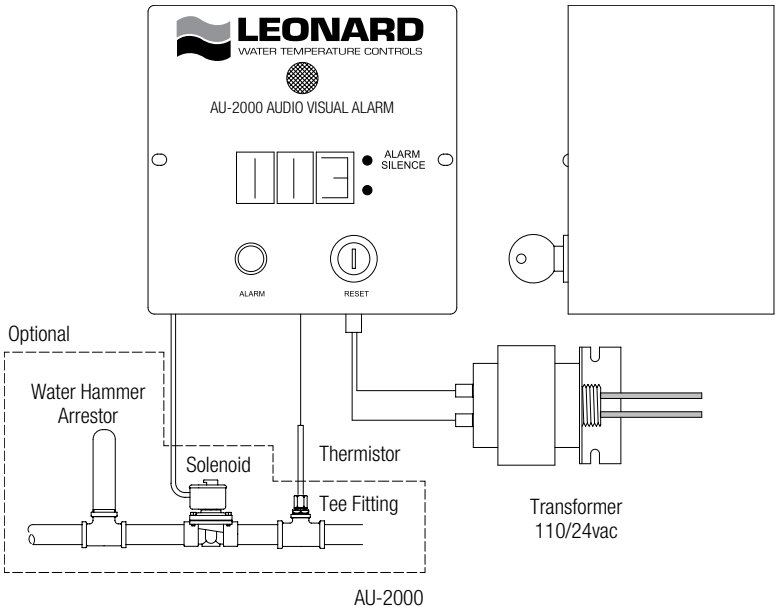
AU-2000 Audio Visual High Temperature Alarm

- Designed to monitor tempered water lines or hot water supply lines
- Alarm light activates, buzzer sounds, optional solenoid valve shuts water down when set point is reached
- Microprocessor based temperature controller
- LED display for easy viewing
- °F or °C temperature display
- Stainless steel thermistor sensor (sensor failure shuts down controller)
- Keyed reset switch to reactivate solenoid and allow resetting of water temperature
- Red alarm light, buzzer
- 110/24VAC transformer
- Pre-assembled in steel enclosure with stainless steel panel type cover

Option

Suffix **FL**	With stainless steel cover for recessed installation

AU-2000



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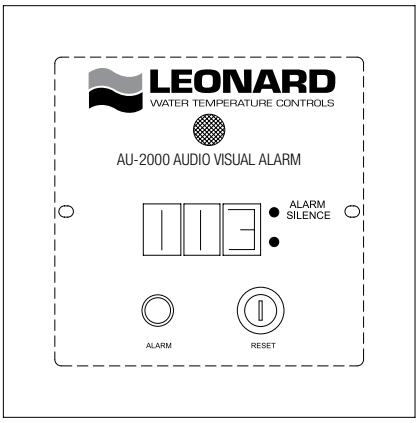

AU-2000-FL

WARNING: Hot Water In Excess Of 110°F (43°C) Is Dangerous!! Note: Solenoid Provided By Others

Note: All specifications are subject to change without notice!

LEONARD®
WATER TEMPERATURE CONTROLS

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LV-109 03/15
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