Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

LEAD EREE HydroGuard® XP Series

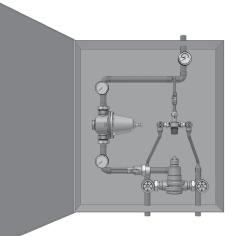
LFMM430 2 Valve Hi/Lo Supply Fixture Wall Mount Cabinet

Features

- Features Lead Free* construction to comply with Lead Free* installation requirements.
- Paraffin-based advanced thermal actuation technology to sense and adjust
 outlet temperature
- Dirt and lime resistant poppet and seat design
- Virtual shutoff if supply pressure fails
- · Vandal-resistant locking mechanism to secure temperature setting
- Factory tested as a complete unit
- Stainless steel or white painted cabinet
- Pressure/Temperature Gauges, Ball valves

Specifications

Connections	See chart on reverse
Maximum Hot Water Supply Temperature	200°F (93°C)
Minimum Hot Water Supply Temperature**	5°F (3°C) Above Set Point
Minimum Flow***	0.5 gpm (1.9 lpm)
Maximum Operating Pressure	125 psi (861 kPa)
Temperature Adjustment Range****	90 – 160°F (32 – 71°C)
Hot Water Inlet Temperature Range	120 – 180°F (49 – 82°C)
Cold Water Inlet Temperature Range	40 – 80°F (4 – 27°C)
Listing/Compliance (Valve Only)	ASSE 1017, CSA B125



Advanced Thermal Activation

* The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.

- ** With Equal Pressure
- *** Minimum flow when Hi/Lo valve is installed at or near hot water source w/ recirculating tempered water with a properly sized continuously operating recirculating pump.
- **** Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at least 5°F (3°C) above desired set point.

Capacity

Flow Capacity at 50-50 Mixed Ratio											
		Pressure Drop Across Valve									
Model	Min. Flow	Cv	5 psi	10 psi	20 psi	30 psi	45 psi	60 psi			
	to ASSE 1017		(34 kPa)	(69 kPa)	(138 kPa)	(207 kPa)	(310 kPa)	(414 kPa)			
LFMM431HL	0.5 gpm	9.7	22 gpm	31 gpm	43 gpm	53 gpm	65 gpm	75 gpm			
	1.89 lpm	9.7	83 lpm	117 lpm	163 lpm	201 lpm	246 lpm	284 lpm			
LFMM432HL	0.5 gpm	13.0	29 gpm	41 gpm	58 gpm	66 gpm	87 gpm	93 gpm			
	1.89 lpm	13.0	110 lpm	155 lpm	220 lpm	250 lpm	329 lpm	352 lpm			
LFMM433HL	0.5 gpm	19.8	44 gpm	63 gpm	86 gpm	108 gpm	133 gpm	153 gpm			
	1.89 lpm	19.0	167 lpm	238 lpm	326 lpm	409 lpm	503 lpm	579 lpm			
LFMM434HL	0.5 gpm	24.9	56 gpm	79 gpm	111 gpm	136 gpm	167 gpm	193 gpm			
	1.89 lpm	24.9	212 lpm	299 lpm	420 lpm	515 lpm	632 lpm	731 lpm			
LFMM435HL	3.0 gpm	27.7	62 gpm	88 gpm	124 gpm	152 gpm	186 gpm	215 gpm			
	11.0 lpm	21.1	235 lpm	333 lpm	469 lpm	575 lpm	704 lpm	814 lpm			

Powers product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Powers Technical Service. Powers reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Powers products previously or subsequently sold.



Dimensions	FINISHED	Valve	A		В	C	G	Inlets	Outle	et		
D	WALL LINE		9-1/	6" 3	3-5⁄8"	4-¾"	6-¾"	3⁄4"	3⁄4"			
		LFMM431H	1L 232n	nm 9	2mm	121mm	171mm	20mm	20mr	n		
		LFMM432H	9-½	6" 3	3-1⁄8"	5"	6-¾"	3⁄4"	1"			
			232n		9mm	127mm	171mm	20mm	25mr	1\01	e:	
6		LFMM433H	12-3		1-5⁄8"	6-¾"	9-1⁄4"	1-1⁄4"	1-1⁄4'		ensions	
	🎘 🧕 📗		318n		17mm	171mm	235mm	32mm	32mr	+1/2	shown "	
		LFMM434H	12-1 IL		2-1⁄2"	6-1⁄2"	8-¾"	1-1⁄4"	1-1/2'	Dim	ensions in	
	É See		- 318n		4mm	165mm	222mm	32mm	40mr	'	entheses in mm	
		LFMM435H	IL 12-1		2-7/8"	6-1⁄2"	8-¾"	1-1/4"	1-1/2'			
			318n	nm /	3mm	165mm	222mm	40mm	40mr	n		
			LFMM431HL & LFMM432HL			LFMM4	LFMM433HL & LFMM434HL			LFMM435HL		
		Cabinet	D	E	F	D	E	F	D	E	F	
		Dimensions	25"	32"	8"	34"	39"	11"	34"	42"	11"	
- A - B -	F		635mm	813mm	203mn	n 864mm	991mm	279mm	864mm	1067mm	279mm	
Ovelavia a lafa ma atia a												
Ordering Information								E				
Valve Inlets	Outlet Or	der Code						TT	$\top \top$	T		
LFLM490/LFMM431 34" (20mm)		MM431HL										
LFLM490/LFMM432 3/4" (20mm)	1" (25mm) LF	MM432HL										
LFLM490/LFMM433 1-1/4" (32mm)		-MM433HL										
LFLM490/LFMM434 1-¼" (32mm) LFMM431/LFMM434 1-¼" (32mm)		-MM434HL -MM435HL										
<u>Finish</u>												
Rough Bronze		A										
Chrome Plated		В										
<u>Piping</u>												
Bottom/Top		E										
		-										
Cabinets												
Stainless Steel, Wall Mount		Q U										
Painted Steel, Wall Mount		U										
Alarm												
None		0										
AquaSentry2 for LFMM431HL		1										
AquaSentry2 for LFMM432HL		2										
AquaSentry2 for LFMM433HL AquaSentry2 for LFMM434HL		3 4										
AquaSentry2 for LFMM435HL		5										
View Port												
None		0										

Recirculation Piping Diagram

Window

Please see Piping Diagram Section of this catalog.

Typical Specification — Supply Fixtures

Hi/Lo Water Temperature Control System shall be factory assembled and tested and include a stainless steel or painted steel cabinet. It shall include two thermostatic mixing valves capable of maintaining water temperature to 5°F (3°C) above set point. The valves shall be constructed using Lead Free* brass. Lead Free* brass valves shall comply with state codes and standards, where applicable, requiring reduced lead content. Hi/Lo shall include HydroGuard® XP LFMM430 and/or LFLM490 Series Master-Tempering Valve with advanced, paraffin-based actuation technology. Hi/Lo shall also include copper piping, ball valve(s) and temperature/pressure gauge for diagnostics. The tempering valve shall have union checkstops, an outlet temperature range of 90 - 160°F (32 - 71°C) (with lockable means), and a single-seat design for positive shutoff. Valve shall be ASSE 1017 listed and CSA certified. Minimum flows to ASSE 1017 shall be 0.5 gpm (1.9 lpm) for LFMM431HL, LFMM432HL, LFMM433HL, LFMM434HL, and 3.0 gpm (11 lpm) for LFMM435HL. Valve shall be a Powers' Model All alternatives must have written approval prior to bidding.

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