Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

LEAD FREE*

Series LFMMV-HTK

Hot Water Tank Capacity Extender

¾"

LFMMV-HTK hot water tank capacity extender maintains and limits mixed hot water to a desired, selectable temperature. The LFMMV-HTK increases hot water capacity from the hot water tank. It allows the hot water tank to be set at a higher temperature to minimize the occurrence of Legionella and other water-borne bacteria.

LFMMV-HTK

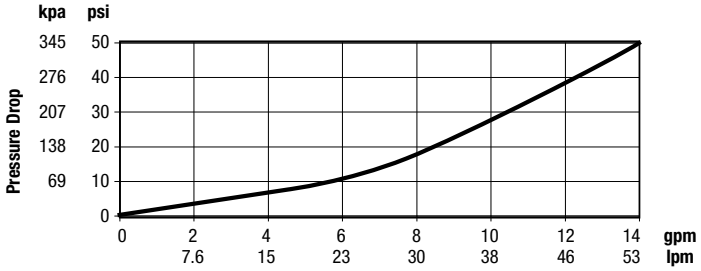
1017
1069
1070

Valve only

Features

- Increases hot water capacity from the hot water tank by as much as 133% depending on storage and incoming cold water temperature
- Allows hot water tank to be set at higher temperature to minimize the occurrence of Legionella and other water-borne bacteria
- Valve and key components conveniently packaged in one box
- Temperature control to ASSE 1017 and ASSE 1070 down to 0.5gpm
- Adjustable temperature selection with lock down
- Advance thermal actuator for precise control
- Integral checks and screens prevent cross-flow and contamination
- Includes thermostatic valve, corrugated stainless steel connector, tee and elbow

Capacity**



Flow curves are for reference. Actual flows may vary depending on system temperatures and/or pressures.

***Flow curve with integral inlet filters and check valves*

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Inquire with governing authorities for local installation requirements

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

+Thermostatic valve only

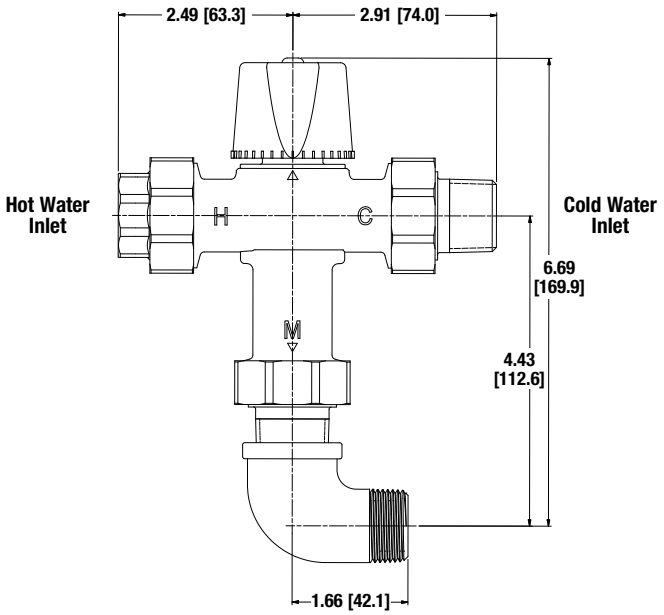
WATTS®

Specification

Temperature Adjustment	80° to 120°F (27° to 49°C)
Approach Temperature	5°F (3°C) above set point
Maximum Operating Pressure	125psi (861 kPa)
Maximum Hot Water Temperature	200°F (93°C)
Cold Water Temperature Range	39° - 80°F (5° - 27°C)
Maximum Pressure Differential Between Hot and Cold Supplies	25%
+Minimum ASSE 1070 flow:	0.5 gpm (1.90 lpm)
Minimum ASSE 1069 Flow:	For use with shower heads rated at 5.6 L/min (1.5 gpm) or higher
ASSE 1070 Flow at 45psi pressure drop:	13 gpm (49 lpm)
Maximum ASSE 1017 Flow:	2.5gpm at 10psi differential
+ASSE Certified to:	ASSE 1017, ASSE 1069, ASSE 1070/ASME A112.1070/CSA B125.70
+IAPMO cUPC Certified to:	ASSE 1017, ASSE 1070/ ASME A112.1070/CSA B125.70, CSA B125.3

NSF/ANSI/CAN 61 & NSF/ANSI/CAN 372 Certified

Dimensions



Typical Specification

Hot water tank capacity extender shall be constructed using lead free* copper silicon alloy material which shall comply with state codes and standards, where applicable requiring reduced lead content. The valve shall feature advanced paraffin-based actuation technology and union connection for ease of maintenance. All internal components shall be corrosion resistant. Valve shall feature integral checks to prevent cross-flow and inlet screens to filter out debris. The thermostatic mixing valve shall be ASSE 1070, ASSE 1017 and IAPMO cUPC listed. Capacity of the valve shall be 13.0 gpm (49 lpm) at 45 psi (310 kPa) differential. Valve shall perform to a minimum flow of 0.5 gpm (2 lpm) to ASSE 1070 and ASSE 1017. Control temperature shall be adjustable between 80° - 120°F (27° - 49°C). The valve shall feature a vandal-resistant lockable handle to prevent tampering. The hot water tank capacity extender shall be Watts Model LFMMV-HTK. Any alternate must have a written approval prior to bidding.

Typical Installation

Extending Hot Water Tank Capacity with the LFMMV-HTK Mixing Valve

(Based on 40 gallon Water Heater)

Call customer service if you need assistance with technical details.

INCOMING WATER TEMP. (°F)	STORAGE TEMP (°F)			
	120	140	160	180
		INCREASES CAPACITY BY:		
45	BASELINE	27%	53%	80%
55		31%	62%	92%
65		36%	73%	109%
75		44%	89%	133%

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