

For Residential and Light Commercial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

ThermalPro™ Standard Mixing with Pump

1" Base Manifold Size

The ThermalPro™ Standard Mix Pump panels are available with or without pre-wired actuators and corresponding actuator control. Available with Watts' standard 1" Stainless Steel manifold.

Specifications

Includes a 1" stainless steel manifold housed in a powder-coated steel enclosure with a latching door. Panels include manifold isolation valves with temperature gauges, a Watts 1170 tempering valve, and a vent/purge assembly with pre-wired 25-58 water lubricated circulator. The enclosure is designed to be recessed into a standard 4" wall cavity.

CIRCULATOR DETAILS		25-58
Casing Material		Cast Iron
Voltage		120
Amps/Watts	Speed 1	0.75/87
	Speed 2	0.66/80
	Speed 3	0.55/60
Horsepower		1/25
Max. Flow Capacity (GPM)		17.5
Max. Head Capacity ⁽¹⁾ (feet)		19

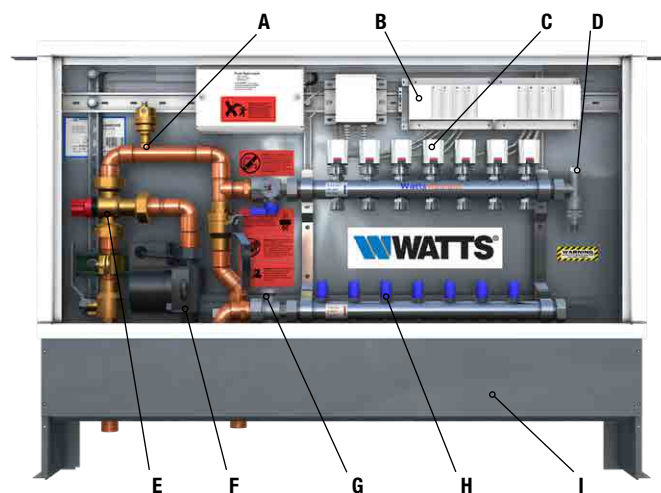
(1) Maximum head capacity shown does not correspond to maximum flow capacity. Refer to circulator specifications for actual pump curves.

Maximum flow rate for the entire manifold is 12 gpm. Individual circuit flow meters measure 0-2 gpm each. Manifolds are available in M-2 through M-7.

Panels with actuators may require an optional pressure differential by-pass valve (ordered separately). If the by-pass is used, the maximum manifold size is reduced to an M-5 manifold.

Features

- Flush mounted white powder coated galvanized enclosure with locking (screwdriver slot) access cover
- Enclosure depth can be expanded from 4½" to 5½"
- Optional pre-wired actuators (specific models only)
- Stainless Steel Manifold Pair
- Vent/Purge Assembly
- Trunk isolation ball valves with integrated temperature gauges
- Integrated circuit flow meters
- Watts LF1170 tempering valve; Cv=3.5
- 25-58 water lubricated circulator



- A Main Air Vent
- B Actuator Control
- C Circuit Actuator and Balance Valve
- D Vent/Purge Assembly
- E Tempering Valve
- F Circulator
- G Isolation Valve with Temperature Gauge
- H Circuit Flow Meter
- I Powder-coated Enclosure

⚠ CAUTION

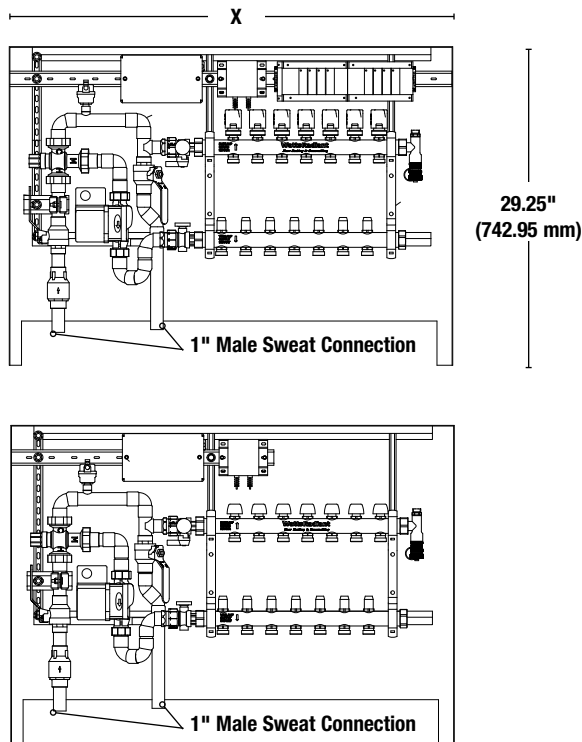
This Engineering Sheet is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.

⚠ WARNING

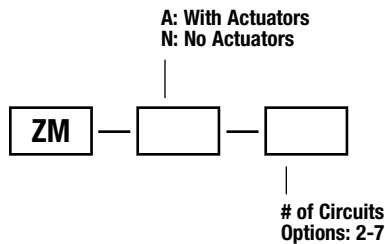
General Safety Instructions

1. THIS UNIT SHOULD BE INSTALLED ONLY BY QUALIFIED PERSONNEL!
2. Disconnect all power from the control before opening the front cover plate.

Typical Dimensions



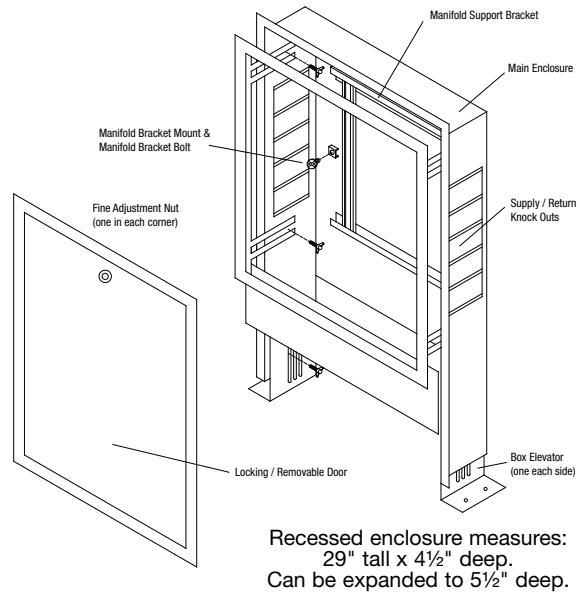
ThermalPro Standard Mixing with Pump shown with and without actuators.
Access door, frame, and access panel removed for clarity.



DESCRIPTION	MODEL #	WT (LBS)	X
2 Circuits	ZM-____-	70-75	41.5" (105.41 cm)
3 Circuits		70-75	
4 Circuits		70-75	
5 Circuits		75-80	
6 Circuits		75-80	
7 Circuits		75-80	

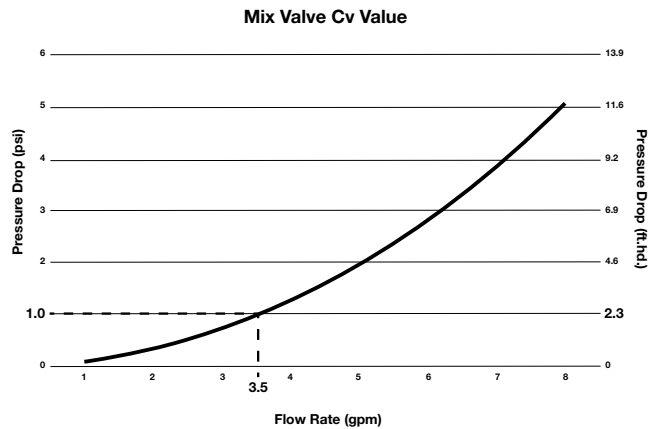
Typical Configuration

Standard manifold assemblies are available in 1" configurations only. Refer to the larger ThermalPro assemblies with 1½" Stainless Steel Manifolds if greater than 12 gpm or 7 circuits is required.



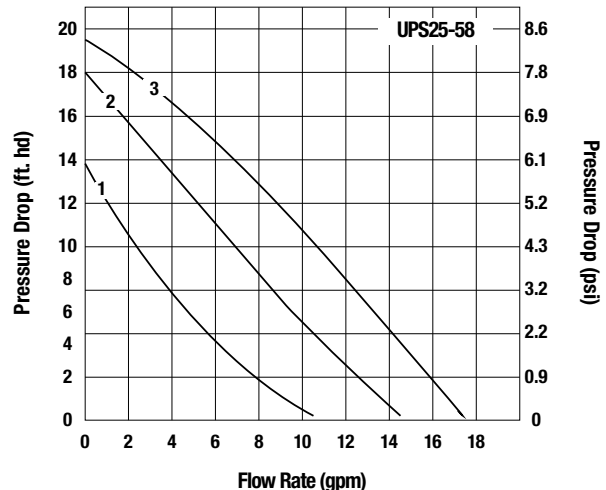
Mix Valve

A standard Watts 1170 thermostatic mix valve is provided with each ThermalPro SMP panel with temperature ranges from 100°F-160°F.



Circulator

Three-speed circulator is standard for the ThermalPro Standard Mixing with Pump panel to provide for a wide range of system conditions. Circulator speed not to exceed 2 gpm per circuit.



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