

For Residential and Light Commercial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

ThermalPro™ Isotherm Mixing

1" Base Manifold Size

The ThermalPro™ Isotherm panels are available with or without pre-wired actuators and corresponding actuator control. Available with a Watts' 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 3-way tempering valve, and a supply water temperature control sensor with pre-wired 25-58 water lubricated circulator. The enclosure is designed to be surface mounted.

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

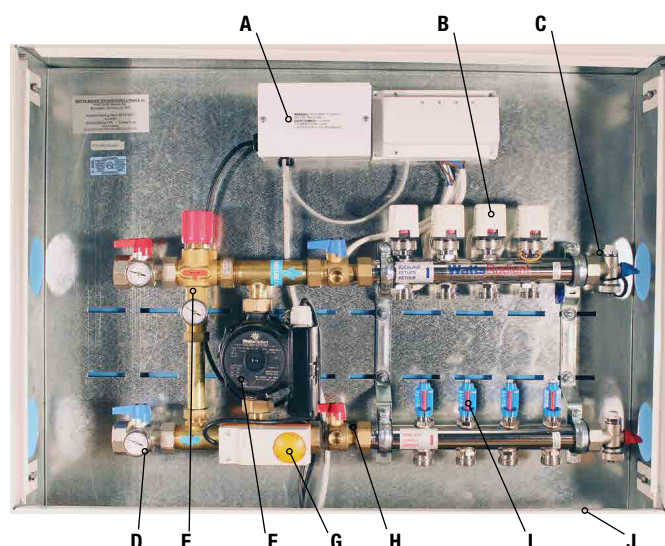
(1) Maximum head capacity shown does not correspond to maximum flow capacity. Refer to circulator specifications for actual pump curves.

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

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-10 manifold.

Features

- Surface mounted white powder coated galvanized enclosure with locking (screwdriver slot) access cover
- 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 tempering valve
- 25-58 water lubricated circulator



- A Electrical Controls
- B Circuit Actuator
- C Vent/Purge Assembly
- D Isolation Valve with Temperature Gauge
- E Mixing Valve
- F Circulator
- G Mix Temperature Sensor
- H Isolation Valve
- I Circuit Flow Meter
- J 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

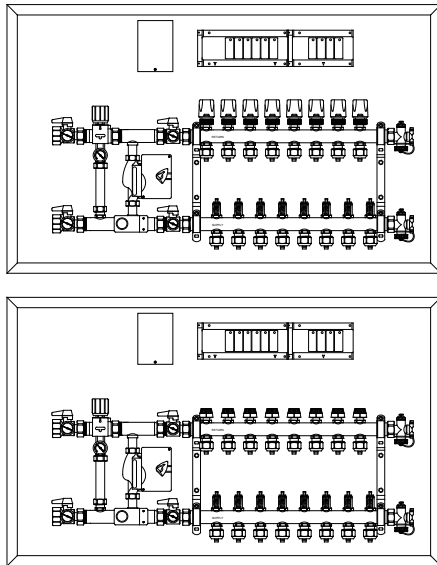
General Safety Instructions

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

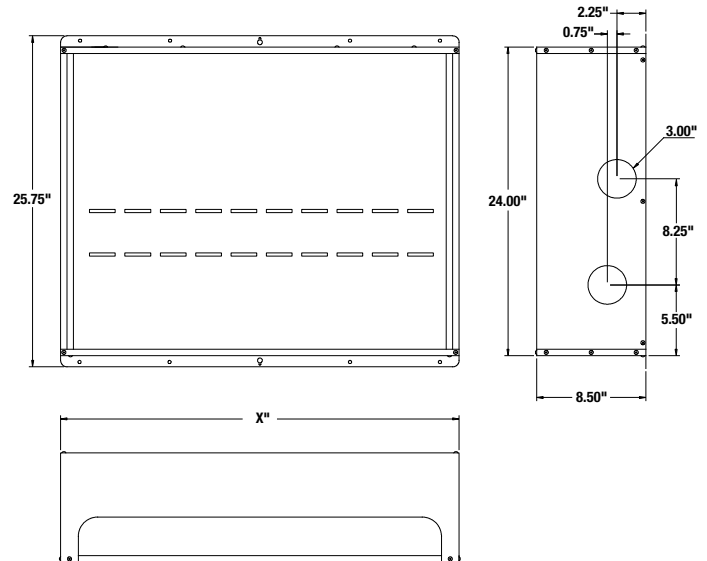
Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior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



Typical Dimensions



ThermalPro Isotherm shown with and without actuators.
Access door and access panel removed for clarity.



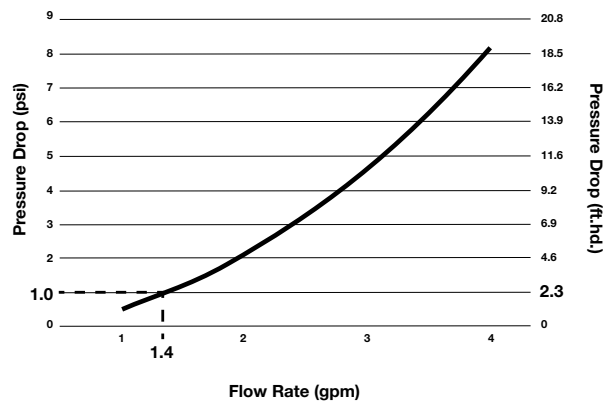
Mix Valve

A Watts thermostatic diverting valve is provided with each ThermalPro IsoTherm panel with temperature ranges from 100°F-160°F.

Station Type	Pump Model	Actuator Option	Manifold	Circuits
ISO	1		ST	
		A: With Actuators N: No Actuators		# of Circuits Options: 2-12

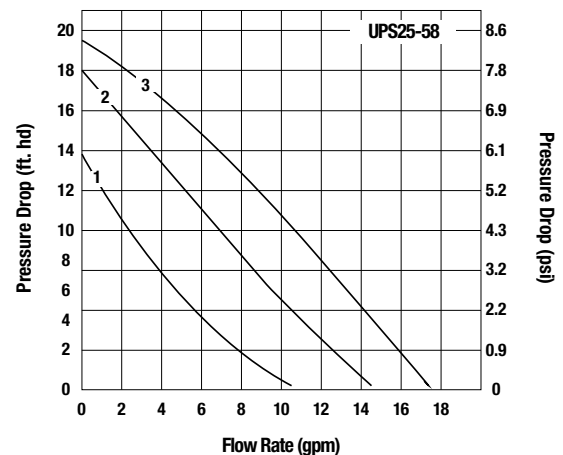
# OF CIRCUITS	WT (LBS)	X
2 Circuits	70-80	33" (83.82 cm)
3 Circuits	70-80	
4 Circuits	70-80	
5 Circuits	70-80	
6 Circuits	70-80	42" (106.68 cm)
7 Circuits	80-90	
8 Circuits	80-90	
9 Circuits	80-90	
10 Circuits	80-90	
11 Circuits	80-90	
12 Circuits	80-90	

Mix Valve Cv Value



Circulator

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



USA: Tel: (800) 276-2419 • Fax: (417) 864-8161 • Watts.com
 Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca
 Latin America: Tel: (52) 81-1001-8600 • Watts.com