

**For Residential and Commercial Applications**

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

Contractor \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Contractor's P.O. No. \_\_\_\_\_  
 Representative \_\_\_\_\_

# ThermalPro™ Mixing Boiler Station

## 1" and 1½" piping with mixing

ThermalPro™ Mixing Boiler Station is a compact, pre-piped mechanical system complete with circulator, isolation ball valves, temperature gauges, differential pressure bypass valve, and a 24 volt 3-way mixing valve.

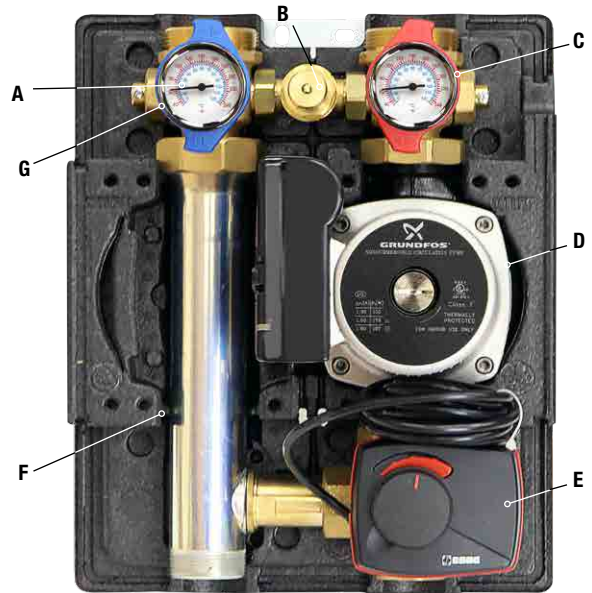
Controls, relays, and corresponding thermostats are not included with the ThermalPro Boiler Station package.

MIX VALVE AND ACTUATOR DETAILS	25-58	26-99
Valve Material	Brass	Brass
Cv <sup>(1)</sup>	7.3 or 9.3	11.6
Supply Voltage	24 VAC	
Power Consumption	2 VA	
Rotation (factory set)	90°	
Torque	45 in-lbs (5 Nm)	
Ambient Temperature Range	5°F to 131°F (-15°C to 55°C)	
Valve Travel Time	1.7 min	

(1) Mix valves can have potentially higher flow than indicted depending on system conditions such as required flow rates and corresponding head pressure.

CIRCULATOR DETAILS	25-58	26-99	
Casing Material	Cast Iron		
Voltage	120		
Amps/Watts	Speed 1	0.75/87	1.80/197
	Speed 2	0.66/80	1.50/179
	Speed 3	0.55/60	1.30/150
Horsepower	1/25	1/6	
Fluid Temperature Range	36°F to 230°F (2°C to 110°C)		
Max. Working Pressure	145 psi		
Max. Flow Capacity (GPM)	17.5	34	
Max. Head Capacity <sup>(2)</sup> (feet)	19	32	

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



- A Return Temperature Gauge with internal isolation ball valve
- B Differential Pressure By-pass
- C Supply Temperature Gauge with internal isolation ball valve
- D Circulator
- E Floating Action Mix Valve
- F Insulated Enclosure
- G Sensor Well

✓	ORDER #	DESCRIPTION
	81015290	1" Mixing Boiler Station with UPS 25-58 Circulator and 7.3 Cv Valve
	81015291	1" Mixing Boiler Station with UPS 25-58 Circulator and 9.3 Cv Valve
	81015292	1½" Mixing Boiler Station with UPS 25-99 Circulator and 11.6 Cv Valve
	81010373	1¼" FNPT x BSP Tailpiece Set (2)
	81010374	1¼" Sweat Union x BSP Tailpiece Set (2)

**⚠ 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.

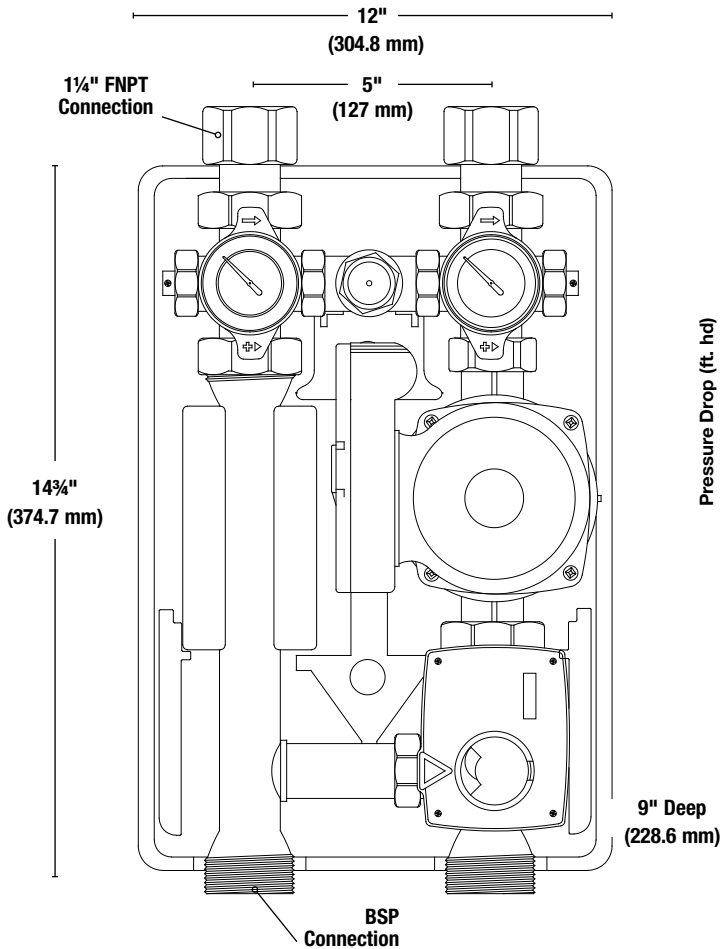


## Specifications

ThermalPro™ Boiler Mixing Stations speed up installation by connecting directly to a hydronic heating system providing a compact mixing system in a thermally insulated enclosure.

Controls, relays, and corresponding thermostats are not included with the ThermalPro package.

## Typical Dimensions



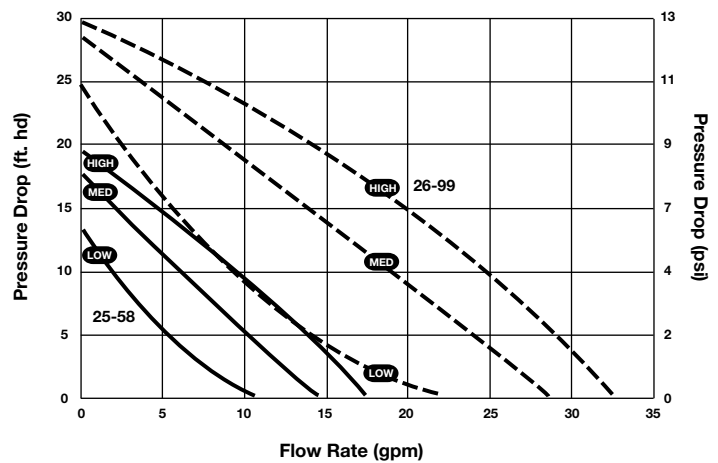
## Features

Each ThermalPro panel comes standard with the following:

- Stainless steel supply and return piping
- Color coded supply/return temperature gauges
- Integrated ball valves
- Integrated check valve (supply side only)
- Selection of 3 circulator options
- Fully encompassing expanded polystyrene insulated enclosure

## Circulator

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



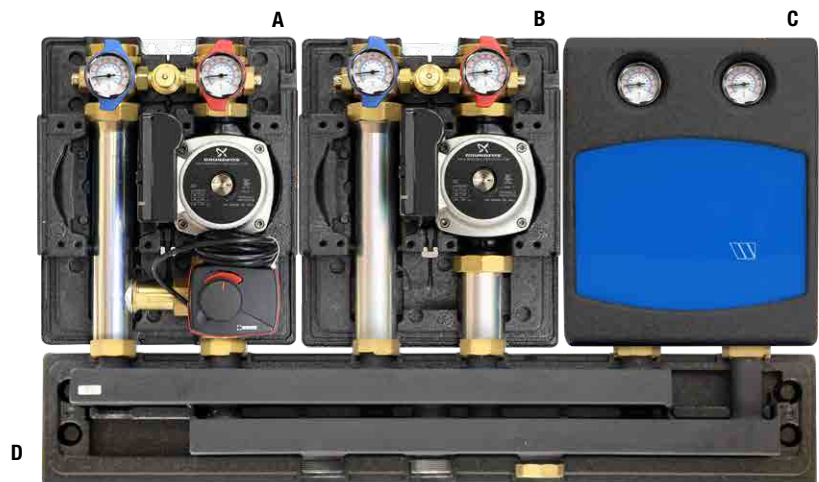
Tailpieces are required to transition between the ThermalPro unit and the supply or return line. Sets are available in either Sweat x BSP or FNPT x BSP. Not included with panels. Not required to connect to the ThermalPro Header.

## Typical Configuration

ThermalPro panels can be "chained" together with the use of a Header Manifold. A maximum of five ThermalPro panels can be chained together.

All electrical wiring must be done at the time of installation. Mixing and circulator controls are not included with the ThermalPro panel.

- A Mixing Panel
- B Non-Mixing Panel
- C Panel with Cover Installed
- D Header Manifold



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