

SPM SERIES

INDIRECT-FIRED, SEMI-INSTANTANEOUS BOILER WATER-FIRED WATER HEATER
WITH INTEGRAL MIXING VALVE

FEATURES:

Available with a Single Wall & Double Wall heat exchanger

- Plate and Frame - Double Wall Construction
- $\pm 2^{\circ}\text{F}$ temp control, 5°F Approach Temperature
- Potable water: Stainless steel or copper alloys construction for domestic water
- For high pressure applications contact the factory for more information
- Control Panel can be rotated 180° for easy readability
- NEW Advanced Electronic PID controls with touchscreen user interface and compatible with Building Management System via ModBus IP or built-in BacNet IP
- Fully packaged solution for quick and easy single point connections
- Compact Footprint- unit can fit through standard doorways
- Compatible with Medium, Normal and Low Temperature Boiler Water
- Certifications: ANSI/AHRI 400, ASME



The DHT SPM Series of advanced plate-type boiler water fired water heaters incorporates the DHT's industry leading PID controller with a high-efficiency plate and frame with integral digital mixing valve to satisfy potable water heating needs in commercial and institutional environments without the need for large hot water storage tanks. The packaged systems utilize simple, real-time load tracking and responsive controls to maintain accurate hot water temperature under various load patterns.

The DHT fully packaged SPM Series Water Heater can efficiently produce up to 200 GPM of domestic hot water depending upon operating temperatures. Units can be coupled with all major medium-, normal-, and low-temperature condensing boiler water to achieve high efficiency in an optimal space.

Maintenance is easy with SPM Series. Flanged or union connections allow for the complete removal of the heat exchangers without disturbing the water heating piping. Isolation valves, inlet strainer and backflush connections are provided for scheduled maintenance.

APPLICATIONS:

- Ideal for new or retrofit installations
- Suitable for both single or multiple unit installations
- No storage tanks required
- Support variety of water to water heating applications including:
 - Apartment Complexes
 - Prisons / Correctional Facilities
 - Hospitals/ Nursing homes/ Medical Centers
 - Hotels/ Entertainment Facilities
 - Schools/ Colleges/ Universities/ Dormitories
 - Commercial laundries
 - Government & Office buildings
 - Industrial applications

PLATE AND FRAME UNIT DIMENSIONS:

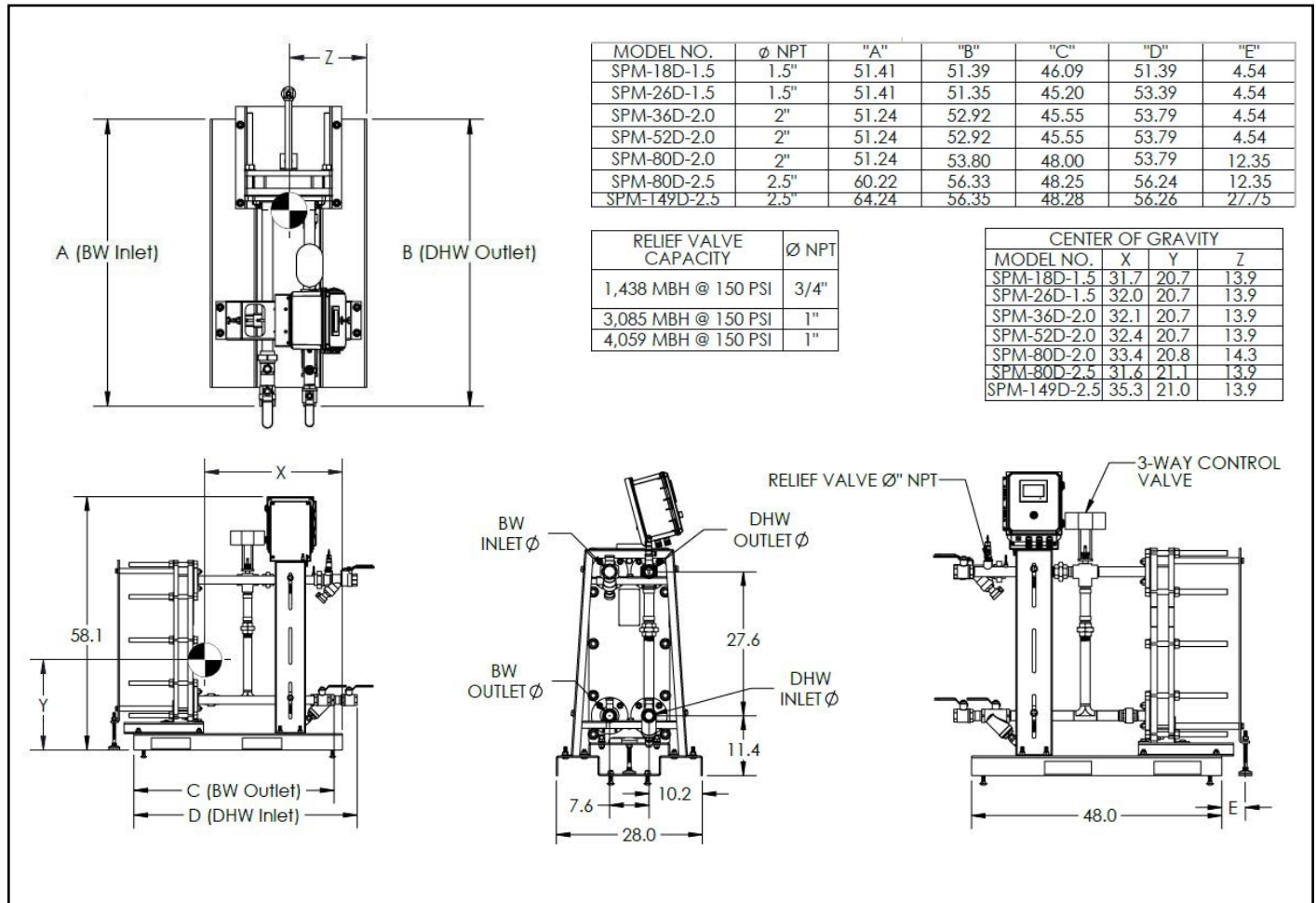


PLATE AND FRAME UNIT SPECIFICATIONS:

Double Wall Model #	SPM-18D-1.5	SPM-26D-1.5	SPM-36D-2.0	SPM-52D-2.0	SPM-80D-2.0	SPM-80D-2.5	SPM-149D-2.5
Electrical Requirements	120/1/60 Hz 2 Amp or 220/1/50 Hz 2 Amp						
Standby Amperage Draw	2 Amp						
Full Load Amperage Draw	2 Amp						
Domestic Water Pressure Drop	Under 8 PSIG @ max. rated flow						
Max. Continuous Water Flow	90 GPM					150 GPM	200 GPM
Ambient Temperature	32-110°F						
Max. Boiler Water Pressure & Temperature	150 PSIG @ 220°F For high pressure applications contact the factory for more information						
Max. Domestic Water Operating Pressure	150PSIG (standard) For high pressure applications contact the factory for more information						
Adjustable Temperature Control Set Point	Up to 180°F						
Accuracy	+/-2°F						
Water Inlets/Outlet Connection Sizes	1.5" FNPT		2.0" FNPT			2.5" FNPT	
Estimated Weight, Shipping	934 lbs	963 lbs	1024 lbs	1082 lbs	1315 lbs	1333 lbs	1633 lbs
Standard Listing & Approvals	ANSI / AHRI 400, ASME						

Note: Dimensions and Specifications subject to change without notice.

PID CONTROL SYSTEM:

FEATURES:

- 4.3 HMI Touchscreen
- Feedforward Logic Controller includes 1/8 DIN with LCD display (back-up interface)
- Data Logging
- Fault Log
- Trending/Graphing
- Compatibility with Modbus IP and BacNet IP BAS system standard without the need for external gateway.
- A gateway can be used for all other protocols



The NEW DHT state of the art control system offers unmatched performance and full user configurability for water heater applications. It features a durable temperature sensor transmitting a millivolt signal through quality twisted shielded wiring. The signal transmits directly into the advanced PID controller, which in turn sends a signal to the electrically activated fully modulating and fast acting three-way control valve with high turndown to achieve accurate temperature control over various demand situations. The controller has a 4.3-inch TFT color touchscreen user interface and is compatible with a Building Management System via ModBus IP or BacNet IP. Optional communications gateway is also available for RS485 communication.

SPECIFICATIONS:

Enclosure Dimensions	12"H x 10" W x 7" D
Display	4.3" TFT Color LCD
Graphics Display Resolution/ Colors	480 x 272 pixels w/ 65,536 display colors
Backlight	White LED, service life 50,000 hours and 24hr operation
Brightness control	16 Levels (Adjusted with touch panel)
Operating Mode	Single Tone, Visual Indicator
Memory:	8Gb
Supply Voltage	120/240 VAC
Certifications	NEMA 4, UL

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