

SPC SERIES

LIQUID TO LIQUID COOLING HEAT EXCHANGER PACKAGE

FEATURES:

Available with a Single Wall Brazed Plate heat exchanger

- $\pm 2^{\circ}\text{F}$ temp control, 5°F Approach Temperature
- Fully modulating electronic 3-Way control valve
- 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 chilled water and other liquids
- Optional heat exchanger insulation is available
- Certifications: ANSI/AHRI 400, ASME

The DHT SPC Series of advanced plate-type liquid to liquid coolers incorporates DHT's industry leading PID controller with a high-efficiency brazed plate heat exchanger to satisfy liquid to liquid cooling needs in commercial and healthcare environments. The packaged systems utilize simple, real-time load tracking and responsive controls to maintain accurate cooling temperatures under various load patterns.

The DHT fully packaged SPC Series Liquid Cooler can efficiently produce up to 90 GPM of chilled liquid 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.

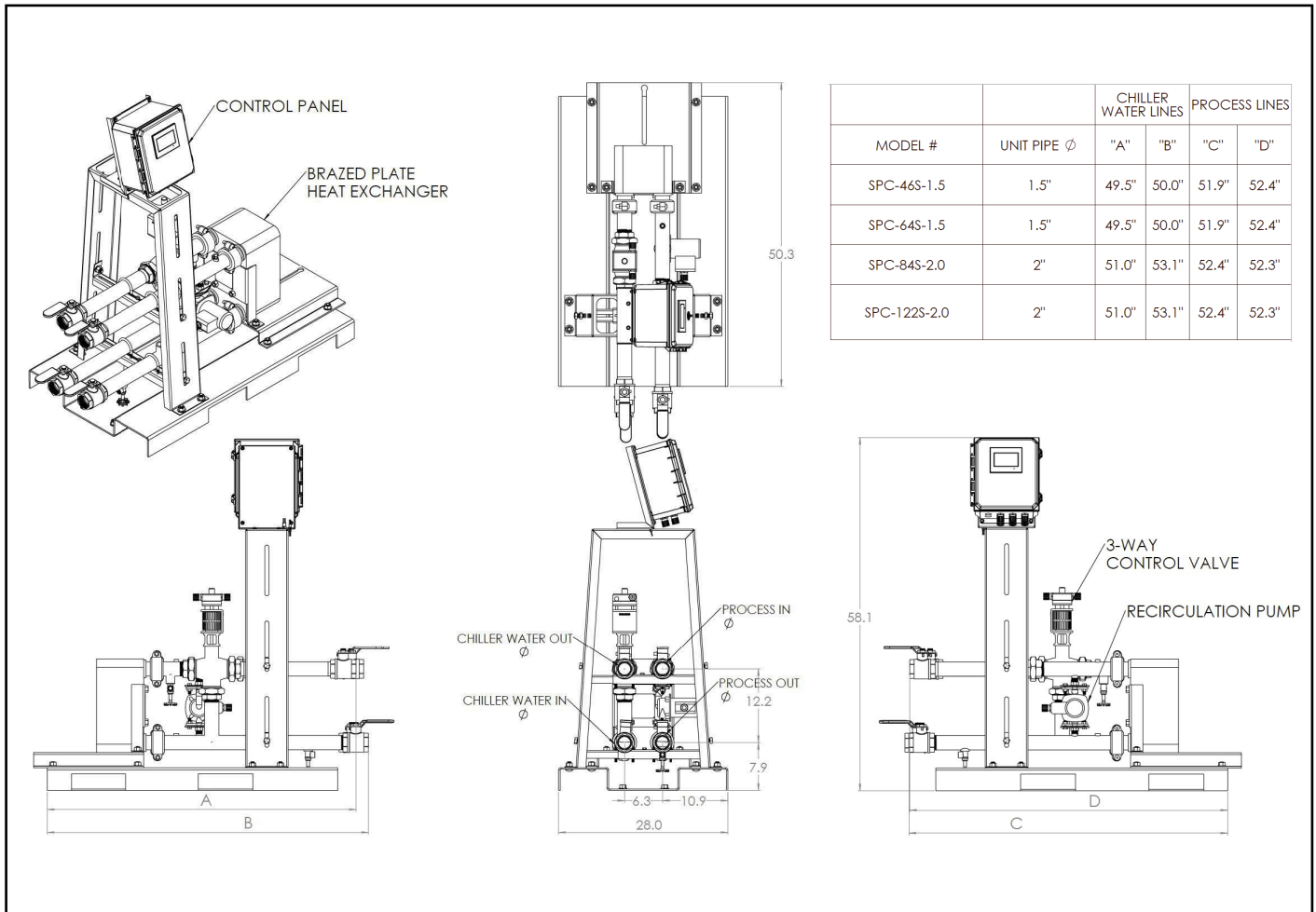
Maintenance is easy with the SPC Series. Flanged victaulic or union connections allow for the complete removal of the heat exchangers without disturbing the water cooling piping. Isolation valves, and backflush connections are provided for scheduled maintenance.



APPLICATIONS:

- Ideal for new or retrofit installations
- Suitable for both single or multiple unit installations
- No storage tanks required
- Supports a variety of liquid to liquid cooling applications, including for:
 - MRI Machines
 - CT and PET Scanners
 - Linear Accelerators
 - Electron Microscopes
 - Hospitals and Medical Centers
 - Research Facilities and Labs
 - Industrial applications

BRAZED PLATE UNIT DIMENSIONS:



BRAZED PLATE UNIT SPECIFICATIONS:

Single Wall Model #	SPC-46S-1.5	SPC-64S-1.5	SPC-84S-2.0	SPC-122S-2.0
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			
Water Pressure Drop	Under 8 PSIG @ max. rated flow			
Max. Continuous Water Flow	90 GPM			
Ambient Temperature	32-110°F			
Max. 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	
Estimated Weight, Shipping	SPC-46S-1.5 538 lbs	SPC-64S-1.5 548 lbs	SPC-84S-2.0 584 lbs	SPC-122S-2.0 604 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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