



## VERTICAL UNIT DIMENSIONS:

Y STRAINER ASSY	"Y1"	"Y2"
ST-90026-0.75	5.9	6.35"
ST-90026-1	6.18	7.2
ST-90026-1.25	6.4	7.75
ST-90026-1.5	7.66	8.66
ST-90026-2	8.46"	9.92"
ST-90026-2.5	4.87	15.12
ST-90026-3	5.44"	15.84
ST-90026-4	6.4"	18.85
ST-90026-5	7.44	21.1"

## HORIZONTAL UNIT DIMENSIONS:

Y STRAINER ASSY	"Y1"	"Y2"
ST-90026-0.75	5.9	6.35"
ST-90026-1	6.18	7.2
ST-90026-1.25	6.4	7.75
ST-90026-1.5	7.66	8.66
ST-90026-2	8.46"	9.92"
ST-90026-2.5	4.87	15.12
ST-90026-3	5.44"	15.84
ST-90026-4	6.4"	18.85
ST-90026-5	7.44	21.1"

Note: Refer to dimensional drawing on [www.dhtnet.com](http://www.dhtnet.com) for latest updates.

## UNIT SPECIFICATIONS:

Unit (Shell) Size	6"	8"	10"	12"
Ambient Temperature, °F	32-120			
Electrical Requirements	110V/1Ph/60Hz 6 Amps			
Standby Amperage Draw, Amps	2.0			
Max. Instantaneous Water Flow Rate, GPM	90	125	225	225
Max. Steam Supply Pressure, PSIG	150 psi to the valve			
Max. Shell Side Operating Pressure, PSIG	200 (250 psi optional)			
Adjustable Temperature Control, °F	35-180			
Adjustable High Limit Control, °F	100-240			
Accuracy, °F	+/-4			
Water Inlet & Outlet Connection	2.50" Flange	3.00" Flange	4.00" Flange	4.00" Flange
Single Wall Unit- Est. Shipping Weight, LBS	875	1325	1475	1650
Double Wall Unit- Est. Shipping Weight, LBS	950	1400	1550	1750
Standard Listing & Approvals	ASME B&PV code Sec. VIII, Div. 1 Stamped			

## WATER HEATER CONTROLLER:

### 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 configurable 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 control valve 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 built-in BacNet IP. Optional communications gateway is also available for RS485 communication.

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

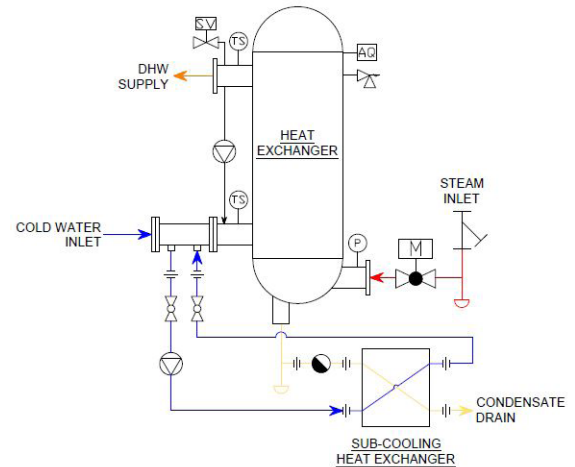
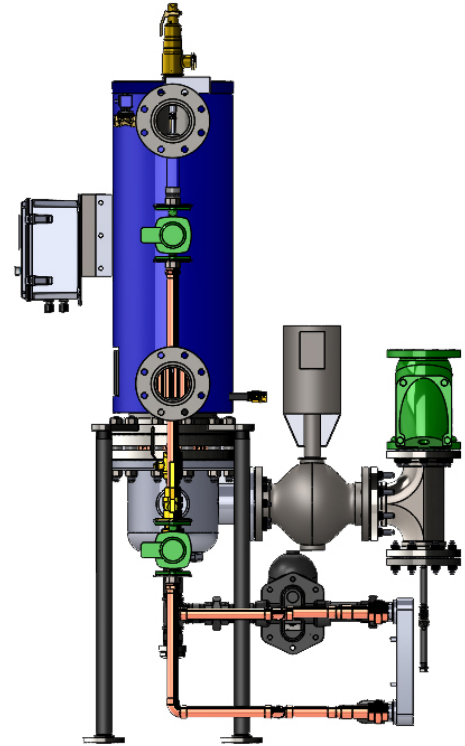
## DHT SUB-COOLING HEAT EXCHANGER OPTION:

A condensate receiver is required in a steam distribution system that is vented to the atmosphere. As a result, flash steam is generated, evacuated through the vent, and a considerable amount of energy is lost. Roughly 11% of the condensate is lost and must be replaced by new water feed to the system. Feeding more water requires more heat energy and additional water treatment increasing the total operating cost for the system.

ST Series steam to water units are available with optional condensate sub-cooling kit which includes piping assembly with circulator and a compact brazed plate sub-cooling heat exchanger which cools down the condensate to safe drain temperatures by recovering waste heat from it. This recovered waste heat energy is used in pre-heating the cold water entering the unit.

Condensate sub-cooling increases the overall system efficiency above 90% which require less steam consumption as compared to standard unit.

- Available in single and double wall construction
- Reduce flash losses in the system
- Reduced Operating Costs- Increase system efficiency up to 14%
- Dilution tank or flash tank not required with ST Series sub-cooling option.



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