



# Instruction Sheet

## Hydro-Sep™

### Hydraulic Separator

102-369

SUPERSEDES: October 1, 2009

Effective: October 9, 2020

#### APPLICATION:

The Taco Hydro-Sep™ hydraulic separator is the ideal piping companion for today's widespread usage of Primary Secondary piping. By installing the efficient and compact Taco Hydro-Sep piping errors can be prevented, installation time reduced and valuable mechanical room space saved.

On systems using boilers with higher pressure drops, the hydraulic separator allows for the possible use of a smaller zone circulator because it is not required to overcome the additional head loss associated with the boiler. At the same time the boiler pump can maintain constant flow through the boiler. The Hydro-Sep also has the added benefits of venting air by means of the Taco Hy-Vent® and sediment removal via the bottom valve.

#### PRODUCT SPECIFICATIONS:

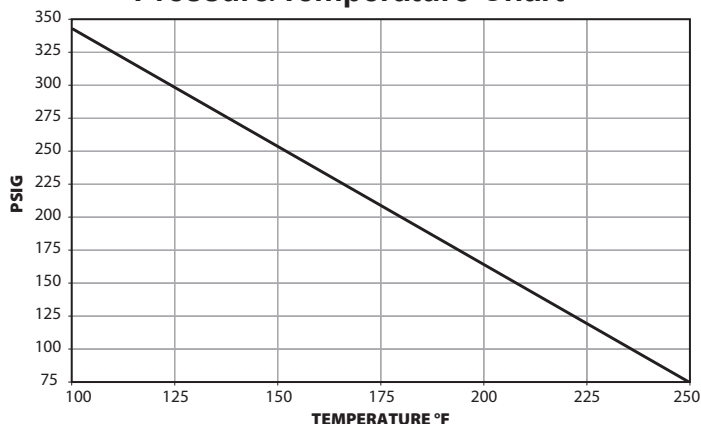
##### Materials of Construction

- Body ..... Copper
- Drain Valve Body ..... Brass
- Air Vent Body ..... Brass
- Engineered Plastics
- BUNA N
- Teflon®

##### Specifications

- Connections ..... 1" and 1-1/4" Copper Sweat
- Max. Flow ..... 1" (11 GPM), 1-1/4" (15 GPM)
- Media ..... Water or Glycol up to 50%
- Max. Pressure ..... 250 PSIG
- Max. Temperature ..... 240° F

**Pressure/Temperature Chart**

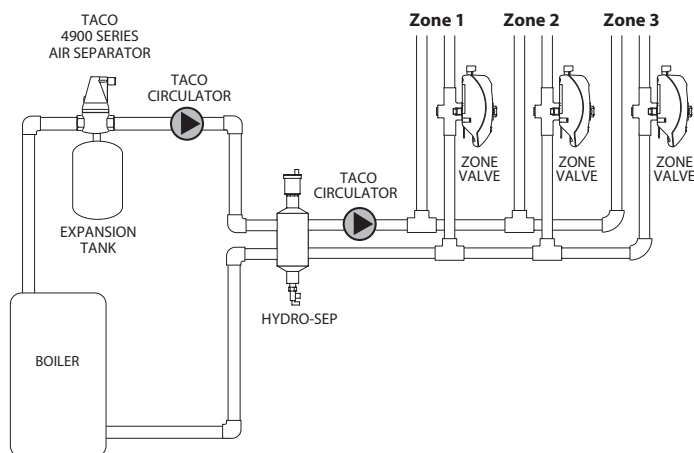


#### INSTALLATION:



**CAUTION: Do not shorten the Hydro-Sep's factory configured connections.**

#### Typical Installation



The Hydro-Sep must be installed with the body portion in a vertical position, with the Hy-Vent on top. Either side of the Hydro-Sep may be the primary or secondary connections. The supply and return piping of each circuit must be on the same side. The position of the supply and return connection must be the same on both sides (i.e. boiler supply and zone supply both connected to the top ports. Boiler supply and return connections on the left side.) Loosen the vent cap to automatically vent accumulated air, tighten down the cap to close during system purging. Vents left in the automatic position should use a Taco waste connector when leaking water from a failed vent could cause water damage. This product should be installed by professionals familiar with the correct function and performance of hydronic heating piping systems. During yearly system service use the bottom valve to remove any system sediment that has accumulated in the Hydro-Sep.



**WARNING: Use caution as the system fluid may be very hot**

## LIMITED WARRANTY STATEMENT

Taco, Inc. will repair or replace without charge (at the company's option) any product or part which is proven defective under normal use within one (1) year from the date of start-up or one (1) year and six (6) months from date of shipment (whichever occurs first).

In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify the local Taco stocking distributor or Taco in writing and promptly deliver the subject product or part, delivery prepaid, to the stocking distributor. For assistance on warranty returns, the purchaser may either contact the local Taco stocking distributor or Taco. If the subject product or part contains no defect as covered in this warranty, the purchaser will be billed for parts and labor charges in effect at time of factory examination and repair.

Any Taco product or part not installed or operated in conformity with Taco instructions or which

has been subject to misuse, misapplication, the addition of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty.

If in doubt as to whether a particular substance is suitable for use with a Taco product or part, or for any application restrictions, consult the applicable Taco instruction sheets or contact Taco at [401-942-8000].

Taco reserves the right to provide replacement products and parts which are substantially similar in design and functionally equivalent to the defective product or part. Taco reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification.

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TACO WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF ITS PRODUCTS OR ANY INCIDENTAL COSTS OF REMOVING OR REPLACING DEFECTIVE PRODUCTS.

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