



Instruction Sheet

102-369

Hydro-Sep™

SUPERSEDES: May 1, 2009

EFFECTIVE: October 1, 2009

Plant ID# 001-3920

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:

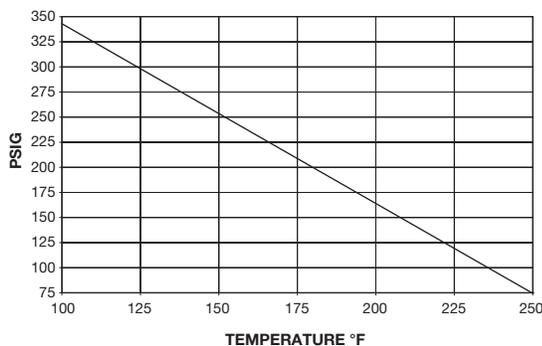
Materials of Construction

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

Specifications

- Connections 1" and 1¼" Copper Sweat
- Max. Flow 1" (11 GPM), 1¼" (15 GPM)
- Media Water or Glycol up to 50%
- Max. Pressure 350 PSIG
- Max. Temperature 240° F

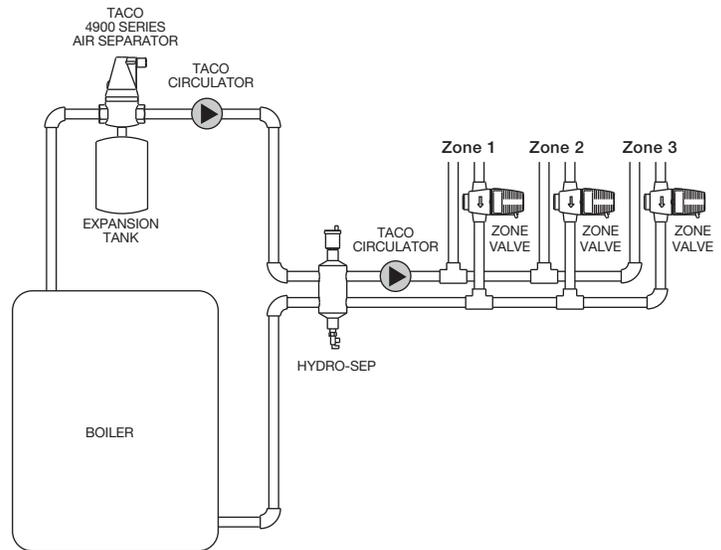
PRESSURE / TEMPERATURE CHART



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.

TACO OFFERS THIS WARRANTY IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY IMPLIED BY LAW INCLUDING WARRANTIES OF MERCHANTABILITY OR

FITNESS IS IN EFFECT ONLY FOR THE DURATION OF THE EXPRESS WARRANTY SET FORTH IN THE FIRST PARAGRAPH ABOVE.

THE ABOVE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR STATUTORY, OR ANY OTHER WARRANTY OBLIGATION ON THE PART OF TACO.

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.

This warranty gives the purchaser specific rights, and the purchaser may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or on the exclusion of incidental or consequential damages, so these limitations or exclusions may not apply to you.

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