

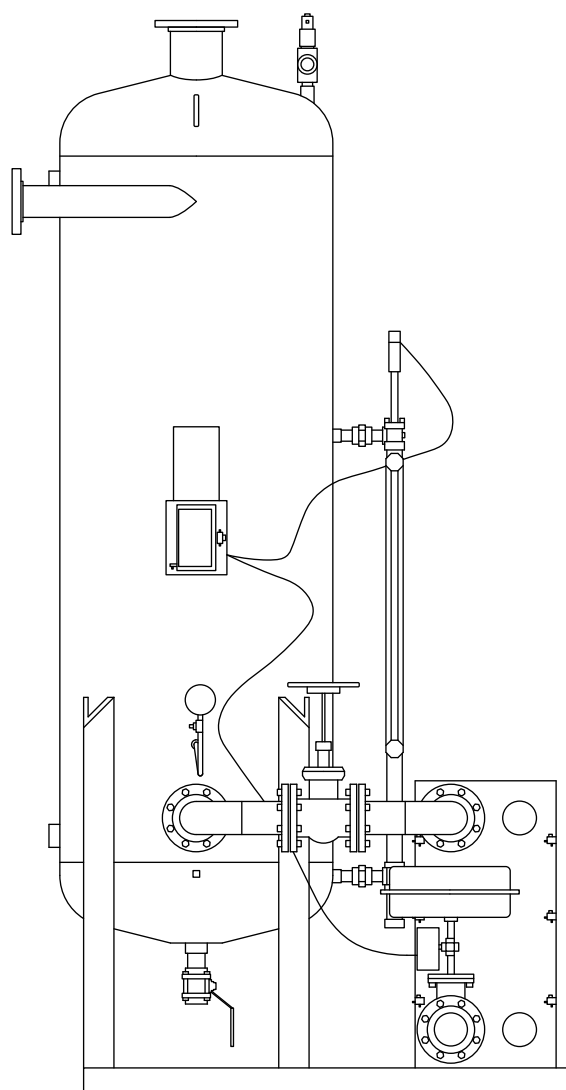


Blowdown Heat Recovery Modules “BDHR” Series

Description

The packaged Blowdown Heat Recovery system is an effective means of reclaiming valuable heat normally lost in the control of boiler water chemistry and cooling the wastewater to temperatures safe for discharge into sewer systems. The centrifugal blowdown vessel effectively separates flash energy from the condensate and discharges condensate through a heat exchanger typically to preheat make up water. The flash steam generated is used to heat make up water in the DA tank maximizing energy efficiency.

Model	BDHR- Series
PMO	125 psi g (8.6 bar g)
Design pressure (PMA)	125 psi g @ 320 °F (8.6 bar g @ 160 °C)
Capacity range	100 to 100,000 lbs/hr (45 to 45359 kg/hr)
Flash vessel	ASME Constructed and Stamped 150 psi g @ 550 °F (10.3 bar g @ 288 °C)
Heat exchanger	Plate and Frame – ASME Constructed and stamped for 150 psi g (10.3 bar g) 316L stainless steel plates and EPDM gaskets
Hydrotest pressure	188 psi g (13.0 bar g)
Construction materials	Flash Vessel – Carbon Steel
	Heat exchanger- Carbon steel covers with 316L SS plates
	Frame- Carbon steel
	Isolation valves - Carbon Steel 150#
	Piping - A106 Seamless Carbon Steel
Dimensions and weight	See SSI Sales Drawings



Typical applications

Automatic Boiler Blowdown Systems controlling the level of dissolved solids in make up water. Use with single or multiple boilers to recover valuable heat energy.

Standard features

- Spirax Sarco centrifugal high efficiency flash tank
- Pressure relief valve
- Spirax Sarco mechanical or electronic level controls
- Plate and Frame heat exchanger
- Heavy duty C/S base
- Hydrotested, blasted, and coated with SSI Hi temp black enamel
- Fabricated in accordance with ANSI/ASME B31.3 by ASME Section IX certified welders.
- ASME Section VIII Code Stamped flash vessel and heat exchanger.

Additional Options are available

Suggested specification

- Furnish and install where shown on plans,
Spirax Sarco Inc. Model# BDHR____-____-____-____-___ Blowdown Heat Recovery System
- The system shall be a complete pre-piped factory package requiring only service connections for a fully functional system.
- The carbon steel receiver shall be ASME Constructed and stamped for 150 psi g WP.
- All condensate piping shall be schedule 40 Seamless C/S pipe
- No threaded connections above 2" NPS on the package piping are permitted.
- The package shall be sized to meet (or exceed) the actual required condensate system load.
- The package shall include a structural steel skid and painted with 1 coat Hi-Temp black enamel.

Capacity

For sizing data, see Selection and Capacity Chart.