

FLASH ECONOMIZER CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM

SAMPLE SPECIFICATIONS

Furnish and install as shown on drawings, a Penn Flash Economizer MODEL NO. (AHR or AHRB) _____ as manufactured by the Penn Separator Corp., Brookville, PA.

The Flash Economizer shall be capable of handling _____#/hr. continuous blowdown and _____ gpm make-up at the boiler operating pressure/pressures of _____psig. flashing to low pressure deaerator, feedwater heater, or other low pressure user at _____ psig.

The Flash Economizer shall consist of the following components and accessories:

1. Vertical Flash Separator section with threaded connections for tangential inlet with stainless steel wear plate, blowdown drain, recovered steam vent, and tank cleanout connections as well as couplings as required for accessories.
2. Vertical coil-type heat exchanger made of (copper or stainless steel) with steel threaded connections for make-up inlet, outlet, and openings for remote thermometer bulbs.
3. Flanged bottom section with drop out coil design for easy cleaning and maintenance.
4. Balanced float trap with all working parts constructed of stainless steel with removable seats, located externally and back vented to maintain a constant level in the flash separator.
5. Thermometer gauge panel showing temperatures of the make-up inlet, make-up outlet, and blowdown water to drain.
6. A safety relief valve set to 150 psig, a Michigan site level gauge, and tank clean out valve.
7. Optional Accessories shall include a high level alarm switch, multiboiler manifold, flow control or blowdown valves, pressure gauge, and sample cooler with piping.

All the above components shall be mounted on a table base with four angle iron floor supports and pads in such a manner that will allow gravity flow of blowdown water through the system. The finished system shall be painted with a blue enamel exterior.

The equipment shall be designed and constructed in accordance with the latest ASME Code Sec. VIII Div. 1 requirements for an unfired pressure vessel for 150 psig MAWP.

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Manufacturers of pressure vessels and tanks to ASME Code