

Flash Steam Heat Recovery Unit (Condensate) Model FSHR-C

The Model FSHR-C, Flash Steam Heat Recovery Unit is a manufactured unit featuring a Recovery Module facilitating condensate heat extraction from boiler blowdown. The FSHR-C is ideally suited for heating continuous flow of fluid, such as make-up water to boiler feedwater system. The atmospherically vented unit helps recovery and utilize valuable heat generally lost during boiler blowdown. A Shell and Tube Recovery Module with U-tube configuration is used for the condensate; Plate and Frame Module is optional. The Model **FSHR-C** is a complete unit including a Carbon Steel Flash Vessel. Non-continuous flow applications may require additional recirculation and/or relief valving. An optional make-up water control valve may be installed upstream of the unit in order for the make-up to be allowed to thermally expand to atmosphere to prevent system damage. Each Unit is custom engineered and designed to meet specific system requirements. All systems are fabricated and welded per ASME Section IX Code and Standards, and are Hydrostatically tested prior to shipment.

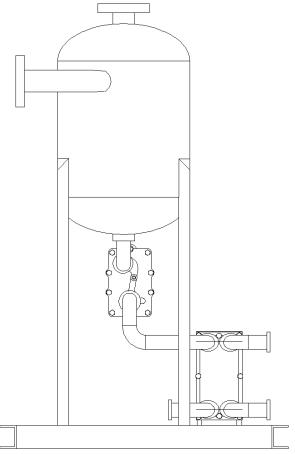
SIZING AND SELECTION

Units are custom engineered for individual systems, based upon the selection of the system parameters:

- I. System Flow Rate: Range of 5 lb/hr to 30,000 lb/hr II. Blow-down Upstream Pressure: Range of 5 psig to 250 psig
- III. Flash Vessel Pressure: Range of 0 psig to 15psig IV. Dimensions: Based on specific requirements

CONDITIONS OF OPERATION

Max. Allowable Pressure:	125 psig / 8.6 bar
Max. Allowable Temperature:	375 °F / 190.5 °C



Legend:

- A. Flash Vessel
- B. Plate and Frame Recovery Module
- C. Vent
- D. Steam Trap
- E. Blowdown Inlet
- F. Make-up Water Inlet
- G. Heated Make-up Water Supply
- H. Condensate Discharge

STANDARD CONSTRUCTION

- Fabricated Structural Steel frame
- Plate and Frame Recovery Module
- Carbon Steel Flash Vessel
- Hydrostatically Tested
- High Temperature Industrial Enamel Paint

EnviroSep • Fluid & Heat Recovery Systems A Division of TMT, Inc. PO Box 857 • Georgetown, SC 29442 Phone (843) 546-6993 / Fax (843) 546-9326 WWW.ENVIROSEP.COM

Model FSHR-C Heat Recovery Unit Order Form

Form 01-FSHR-C

Specify the following parameters:

I.	Blowdown Inlet Flow Rate =	lb/hr		
		_ 10/111	IV. Make-up Water Temperature Inlet =o	F
II.	Blowdown Upstream Pressure =	psig	V. Max. Make-up Temperature Outlet =	o I
III.	Flash Vessel Pressure =psig		VI. Fouling Factor =	

PACKAGE OPTIONS

Condensate Isolation and Check Valves Pneumatic-operated Steam Control Valve **Electronic Positioner** Condensate Y- Strainer Pneumatic Positioner Float and Thermostatic Steam Trap Inlet Isolation Gate Valve Inverted Bucket Steam Trap Stainless Steel Flash Vessel Single-pass Shell and Tube Recovery Module Steam Pressure Gauges Shell and Tube, U-tube Recovery Module Thermostatic Air Vent Steam Trap Recovery Module Bypass Valve Station Double-walled tube construction on Heat Exchanger for Potable water use Inlet / Outlet waterside Thermometers Pressure Relief Valves Steam-side

Regardless of system size, temperature, pressure, fluid medium, or space requirements, **EnviroSep** can provide solutions to all specialized needs.

EnviroSep offers Professional Engineering Service including complete facility, steam, and condensate system layout and design.

Water-side