

# spirax/sarco®

## Condensate Recovery Modules “TRI” Series

### Description

The Modular pumping system consists of Pressure Powered Pumps pre-engineered with the necessary auxiliary components into a skid-mounted module.

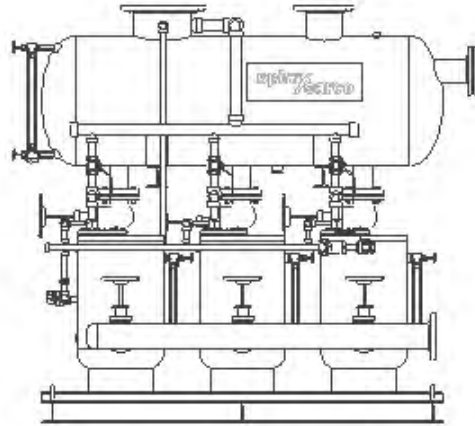
The unit includes a receiver vessel designed to provide adequate separation of flash steam and condensate.

The module requires only service field connections for complete installation and fast startup.

### Typical applications

Condensate recovery modules are used where multiple sources of condensate are to be pumped and flash steam is to be vented (open system).

For Closed systems: Consult ESD



### Capacity Chart

For sizing data, see Selection & Capacity Chart.

### Standard Features

- Spirax Sarco non-electric Pressure Powered Pump with high capacity stainless steel check valves  
TPC3=Cast Ductile Iron Pump Body  
TPF3=Fabricated Steel Pump Body
- Hydrotested, blasted, and painted with SSI industrial black enamel
- Fabricated by ASME Section IX certified welders.
- ASME Section VIII Code Stamped receiver vessel (TPF3 Model Only).
- Completely assembled modular pumping system on structural steel base with all connections protected for shipping.

**Additional Options are available**

### Suggested Specification

- Furnish and install where shown on plans;  
Spirax Sarco Inc. Model #TP\_ 3-0-CS-HO- \_ \_ \_  
pressure powered pumping system.
- The system shall be a complete pre-piped factory package requiring only service connections for a fully functional system.
- Electricity shall not be required for system operation
- The Steel receiver shall be ASME Constructed and stamped for 150 PSIG WP (Applicable to TPF3 Model Only)
- The Pumps shall be constructed of Fabricated Steel (TPF3) or Ductile Iron (TPC3) with an allowable working pressure of not less than 200 PSIG.
- All condensate piping shall be schedule 80 Seamless C/S pipe welded
- 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 Industrial black enamel.

### Typical Construction

Model	“TRI”- Series
PMO - PUMPS	200 psig
Design Pressure (PMA)	200 psig @ 400°F
Capacity Range	52,920 lbs./hr @ 200 psig motive pressure and 10 psig back pressure
Receiver Vessel	135 Gallon-ASME Constructed and Stamped 150 psig @ 550°F on TPF3 Models 135 Gallon Non-Code on TPC3 Models
Flash Steam	
Discharge Rates	5292 lbs./hr (10% at maximum capacity)
Hydrotest Pressure	225 psig
Construction Materials	Receiver vessel - Fabricated Steel Pressure Powered Pump – See SSI Tech Sheets Check Valves - Stainless Steel (ANSI 150) Isolation valves - Carbon Steel Piping - A106 Seamless Carbon Steel
Dimensions & Weight	See SSI Sales Drawings
See TI-5-030-US For Pump Capacities	

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Approved for construction when signed and dated below:	
Model: TP_ 3-0-CS-HO- _ _ _	
Project/P.O. No.:	
Customer:	
Approved: _____	Date: _____

*Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interests of development and improvement of the product, we reserve the right to change the specification.*