



Quadraplex Pressure Powered Pump Packages PTC/PTF

Description

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

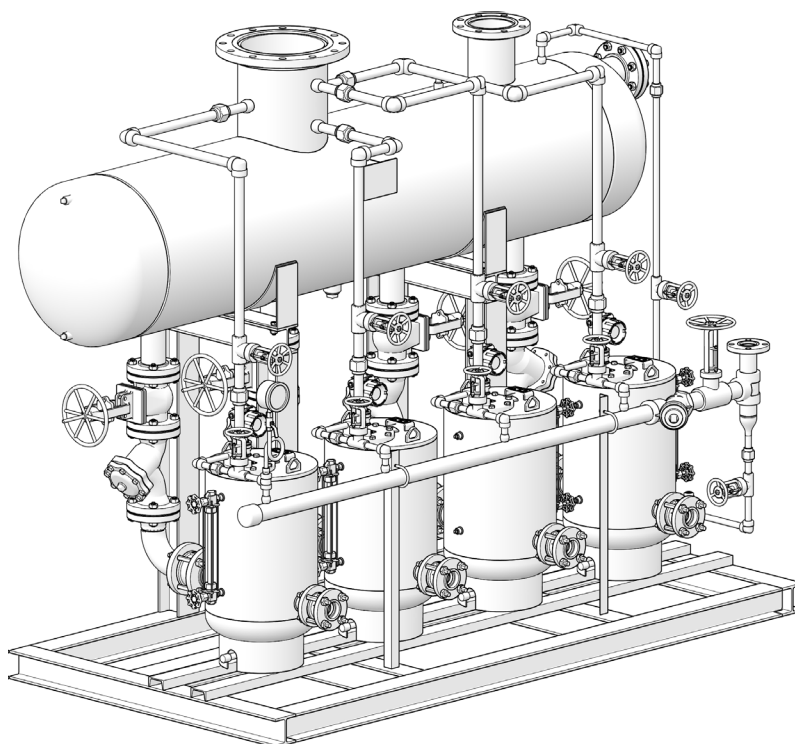
The unit includes a receiver vessel designed to provide adequate separation of flash steam and condensate.

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 Spirax Sarco.



Capacity chart

For sizing data, see Selection and Capacity Chart.

Standard features

- Spirax Sarco non-electric Pressure Powered Pump with high capacity stainless steel check valves
 - QPC3= Cast Ductile Iron Pump Body
 - QPF3= Fabricated Steel Pump Body
- Hydrotested and painted with SSI industrial blue or black enamel.
- Fabricated in accordance with ASME Section IX certified welders.
- ASME Section VIII Code Stamped receiver vessel (QPF3 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 # QP_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 psi g (10.3 bar g) WP. (Applicable to QPF3 Models ONLY).
 - The Pumps shall be constructed of Fabricated Steel (QPF3) or Ductile Iron (QPC3) with an allowable working pressure of not less than 200 psi g (13.8 bar g).
 - 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 blue or black enamel.

Typical construction

PMO - PUMPS	200 psi g (13.8 bar g)
Design pressure (PMA)	200 psi g @ 400 °F (13.8 bar g @ 204 °C)
Capacity range	70,560 lbs./hr (32005 kg/hr) @ 200 psi g (13.8 bar g) motive pressure and 10 psi g (0.69 bar g) back pressure
Receiver vessel	196 Gallon (742 L) -ASME Constructed and Stamped 150 psi g @ 550 °F (10.3 bar g @ 288 °C) on QPF3 Models 196 Gallon (742 L) Non-Code on QPC3 Models
Flash steam discharge rates	4,500 lbs./hr (2041 kg/hr) (atmospheric flash load)
Hydrotest pressure	225 psi g (15.5 bar g)
Construction materials	Receiver vessel - Fabricated Steel Pressure Powered Pump –See SSI Tech Sheets Check Valves - Stainless Steel (ANSI 150) Piping - A106 Seamless Carbon Steel
Dimensions and weight	See SSI Sales Drawings
See TI-P207-10-US for Capacities	