Condensate Recovery Modules
“QUAD” 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

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, blasted, and painted with SSI industrial 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 PSIG 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 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

<table>
<thead>
<tr>
<th>Model</th>
<th>“QUAD” Series</th>
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</thead>
<tbody>
<tr>
<td>PMO - PUMPS</td>
<td>200 psig</td>
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<tr>
<td>Design Pressure (PMA)</td>
<td>200 psig @ 400°F</td>
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<tr>
<td>Capacity Range</td>
<td>70,560 lbs./hr @ 200 psig motive pressure and 10 psig back pressure</td>
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<tr>
<td>Receiver Vessel</td>
<td>185 Gallon-ASME Constructed and Stamped 150 psig @ 550°F on QPF3 Models</td>
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<tr>
<td>Flash Steam Discharge Rates</td>
<td>7056 lbs./hr (10% at maximum capacity)</td>
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<tr>
<td>Hydrotest Pressure</td>
<td>225 psig</td>
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<tr>
<td>Construction Materials</td>
<td>Receiver vessel - Fabricated Steel</td>
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<tr>
<td></td>
<td>Pressure Powered Pump - See SSI Tech Sheets</td>
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<tr>
<td></td>
<td>Check Valves - Stainless Steel (ANSI 150)</td>
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<td></td>
<td>Isolation valves - Carbon Steel</td>
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Dimensions & Weight
- See SSI Sales Drawings
See TI-5-030-US for Capacities

Approved for construction when signed and dated below:

Model: QP_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.