Specifications

Simplex Condensate Pump
10MX Series

Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, inlet strainer, float switch, pump suction isolation valve, electrical controls, and accessories.

The condensate pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular, floor mounted receiver shall be manufactured of the material and size listed in the schedule. The receiver shall be equipped with water level gauge glass, (1) float switch, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

<table>
<thead>
<tr>
<th>Skidmore Model No.</th>
<th>gph @ psig</th>
<th>HP</th>
<th>3450 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>volts</td>
<td>PH</td>
<td>HZ</td>
</tr>
<tr>
<td>gallon receiver</td>
<td>cast iron</td>
<td>or</td>
<td>steel</td>
</tr>
</tbody>
</table>
Specifications

Duplex Condensate Pump
10MX Series

Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, (2) condensate pumps, inlet strainer, mechanical alternator, (2) pump suction isolation valves, electrical controls, and accessories.

The condensate pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular, floor mounted receiver shall be manufactured of the material and size listed in the schedule. The receiver shall be equipped with water level gauge glass, mechanical alternator, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for the each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

<table>
<thead>
<tr>
<th>Skidmore Model No.</th>
<th>(2) gpm @ psig</th>
<th>HP</th>
<th>3450 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>volts PH HZ</td>
<td>gallon receiver cast iron or steel receiver construction</td>
<td></td>
</tr>
</tbody>
</table>


Specifications

Simplex Boiler Feed Pump
10MX Series

Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, inlet strainer, float operated make-up valve, pump suction isolation valve, electrical controls, and accessories.

The boiler feed pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular, floor mounted receiver shall be manufactured of the material and size listed in the schedule. The receiver shall be equipped with water level gauge glass, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

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<th>Skidmore Model No.</th>
<th>gpm @ psig</th>
<th>HP</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3450</td>
<td>3450</td>
<td>3450</td>
<td>120</td>
</tr>
<tr>
<td>gallon receiver</td>
<td>cast iron</td>
<td>steel</td>
<td>receiver construction</td>
</tr>
</tbody>
</table>
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, (2) boiler feed pumps, inlet strainer, float operated make-up valve, (2) pump suction isolation valves, electrical controls, and accessories.

The boiler feed pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular, floor mounted receiver shall be manufactured of the material and size listed in the schedule. The receiver shall be equipped with water level gauge glass, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for the each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

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<th>Skidmore Model No.</th>
<th>(2) gpm @ psig</th>
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<tr>
<td></td>
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<td>HZ</td>
</tr>
<tr>
<td></td>
<td>gallon receiver</td>
<td>cast iron or steel receiver construction</td>
<td></td>
</tr>
</tbody>
</table>
Specifications

Simplex Condensate Pump
Cylindrical Steel Receiver
10MX Series

Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, inlet strainer, float switch, pump suction isolation valve, electrical controls, and accessories.

The condensate pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, (1) float switch, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

Skidmore Model No. ____________________________
________ gpm @ _______ psig _______ HP _______ 3450 RPM
________ volts _______ PH _______ HZ
________ gallon receiver
Specifications

Duplex Condensate Pump
Cylindrical Steel Receiver
10MX Series

Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, (2) condensate pumps, inlet strainer, mechanical alternator, (2) pump suction isolation valves, electrical controls, and accessories.

The condensate pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, mechanical alternator, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for the each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

Skidmore Model No. ____________________________
(2) ______ gpm @ _______ psig _______ HP _______ 3450 RPM
_________ volts _______ PH _______ HZ
_________ gallon receiver
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, inlet strainer, float operated make-up valve, pump suction isolation valve, electrical controls, and accessories.

The boiler feed pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

Skidmore Model No. ____________________________

_______ gpm @ _______ psig _______ HP 3450 RPM

_______ volts _______ PH _______ HZ

_______ gallon receiver
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, (2) boiler feed pumps, inlet strainer, float operated make-up valve, (2) pump suction isolation valves, electrical controls, and accessories.

The boiler feed pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for the each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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</tr>
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<tbody>
<tr>
<td>(2)</td>
<td>____________ volts</td>
<td>____________ PH</td>
<td>____________ HZ</td>
</tr>
<tr>
<td></td>
<td>____________ gallon receiver</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Furnish and install according to plans and manufacturers’ instructions the quantity of underground condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, float switch, electrical controls, and accessories.

The condensate pump shall be vertically mounted, flexible coupled, and driven by vertical drip-proof ball bearing motor with drip cover. Each pump shall be fitted with a ball thrust bearing elevated above the stuffing box. Impeller shall be bronze centrifugal enclosed type especially designed to handle hot water and keyed and locked on a stainless steel shaft (minimum diameter of 1”). The pump suction shall be fitted with renewable bronze wearing ring. The packing gland shall be bronze and split type for accessibility when repacking the stuffing box. The motor support bracket shall have machined register to assure positive alignment of motor and pump shaft. The pump shall handle 200°F condensate. Capacities and electrical characteristics shall be as scheduled on the drawings.

The receiver shall be underground style manufactured of close grained cast iron with an inlet opening centered 9” below the cover plate and shall have a capacity of not less than that shown on the drawing. Receiver cover plate shall permit removal of pump assembly.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Receiver: cast iron, ______ dia X _______ deep
Specifications

Duplex Underground Condensate Pump
UV Series

Furnish and install according to plans and manufacturers’ instructions the quantity of underground condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, (2) condensate pumps, mechanical alternator, electrical controls, and accessories.

The condensate pumps shall be vertically mounted, flexible coupled, and driven by vertical drip-proof ball bearing motor with drip cover. Each pump shall be fitted with a ball thrust bearing elevated above the stuffing box. Impeller shall be bronze centrifugal enclosed type especially designed to handle hot water and keyed and locked on a stainless steel shaft (minimum diameter of 1”). The pump suction shall be fitted with renewable bronze wearing ring. The packing glands shall be bronze and split type for accessibility when repacking the stuffing box. The motor support brackets shall have machined register to assure positive alignment of motor and pump shaft. The pumps shall handle 200°F condensate. Capacities and electrical characteristics shall be as scheduled on the drawings.

The receiver shall be underground style manufactured of close grained cast iron with an inlet opening centered 9" below the cover plate and shall have a capacity of not less than that shown on the drawing. Receiver cover plate shall permit removal of pump assemblies.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<th>gpm</th>
<th>psig</th>
<th>HP</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Receiver: cast iron, _____ “ dia X _____ “ deep
Specifications

Simplex Underground Boiler Feed Pump
UVM Series

Furnish and install according to plans and manufacturers’ instructions the quantity of underground boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, float operated make-up valve, electrical controls, and accessories.

The boiler feed pump shall be vertically mounted, flexible coupled, and driven by vertical drip-proof ball bearing motor with drip cover. Each pump shall be fitted with a ball thrust bearing elevated above the stuffing box. Impeller shall be bronze centrifugal enclosed type especially designed to handle hot water and keyed and locked on a stainless steel shaft (minimum diameter of 1”). The pump suction shall be fitted with renewable bronze wearing ring. The packing gland shall be bronze and split type for accessibility when repacking the stuffing box. The motor support bracket shall have machined register to assure positive alignment of motor and pump shaft. The pump shall handle 200°F condensate. Capacities and electrical characteristics shall be as scheduled on the drawings.

The receiver shall be underground style manufactured of close grained cast iron with an inlet opening centered 9” below the cover plate and shall have a capacity of not less than that shown on the drawing. Receiver cover plate shall permit removal of pump assembly.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<tbody>
<tr>
<td></td>
<td>____</td>
<td>____</td>
<td>____</td>
<td>____</td>
</tr>
<tr>
<td>volts</td>
<td></td>
<td>PH</td>
<td>HZ</td>
<td></td>
</tr>
<tr>
<td>Receiver: cast iron,</td>
<td></td>
<td>“ dia X</td>
<td>“ deep</td>
<td></td>
</tr>
</tbody>
</table>

January 2003
Furnish and install according to plans and manufacturers’ instructions the quantity of underground boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, (2) boiler feed pumps, float operated make-up valve, electrical controls, and accessories.

The boiler feed pumps shall be vertically mounted, flexible coupled, and driven by vertical drip-proof ball bearing motor with drip cover. Each pump shall be fitted with a ball thrust bearing elevated above the stuffing box. Impeller shall be bronze centrifugal enclosed type especially designed to handle hot water and keyed and locked on a stainless steel shaft (minimum diameter of 1”). The pump suction shall be fitted with renewable bronze wearing ring. The packing glands shall be bronze and split type for accessibility when repacking the stuffing box. The motor support brackets shall have machined register to assure positive alignment of motor and pump shaft. The pumps shall handle 200°F condensate. Capacities and electrical characteristics shall be as scheduled on the drawings.

The receiver shall be underground style manufactured of close grained cast iron with an inlet opening centered 9” below the cover plate and shall have a capacity of not less than that shown on the drawing. Receiver cover plate shall permit removal of pump assemblies.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<tr>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>volts</th>
<th>PH</th>
<th>HZ</th>
</tr>
</thead>
</table>

Receiver: cast iron, ____ “ dia X ____ “ deep
Control specifications

Simplex Condensate System
One Float Switch

Control Panel

Unit manufacturer shall furnish, mount, wire, and test an Underwriters Laboratories UL listed Industrial Control Panel and shall include the following:

(1) Nema 2 control cabinet
(1) Main disconnect switch with cover interlock
(1) Fuse block with fuses
(1) Magnetic starter with overload
(1) Selector switch
(1) Control circuit transformer with fusing whenever motor voltage exceeds 120 Volts
(1) Numbered terminal strip
(1) Ground lug

The main disconnect switch with cover interlock shall insure complete electrical deactivation of the entire Condensate Handling System.

Sequence of Operation

Condensate return system controls shall be provided for operation as follows:

With the control panel selector switch in the automatic position and as the water level rises, the receiver mounted float switch will activate the pump. The pump will remove the condensate from the receiver causing the float switch level to drop. As the water level drops, the float switch will deactivate the condensate pump. The float switch assembly will be factory set for pump control levels. With the control panel selector switch set in the hand position, the pump will run continuously. With the selector switch set in the off position, the pump will not be allowed to run.

The unit shall be factory tested as a complete unit with a permanent test report being maintained by the manufacturer. The unit manufacturer shall furnish wiring diagrams, piping schematics, and installation and operating instructions.

Manufacturer shall be Skidmore Pumps of Benton Harbor, MI.

Note: See Wiring Diagram WD-1025 for three-phase operation and WD-1004 for single-phase.
Control Panel

Unit manufacturer shall furnish, mount, wire, and test an Underwriters Laboratories UL listed Industrial Control Panel and shall include the following:

- (1) Nema 2 control cabinet
- (1) Main disconnect switch with cover interlock
- (2) Fuse blocks with fuses
- (2) Magnetic starters with overloads
- (2) Selector switches
- (1) Control circuit transformer with fusing whenever motor voltage exceeds 120 Volts
- (1) Numbered terminal strip
- (1) Ground lug

The main disconnect switch with cover interlock shall insure complete electrical deactivation of the entire Condensate Handling System.

Sequence of Operation

Condensate return system controls shall be provided for operation as follows:

With the control panel selector switch set in the automatic position and as the water level rises to a preset level, the receiver mounted mechanical alternator will activate the lead pump. The lead pump will remove the condensate from the receiver causing the mechanical alternator float to drop. When the pump has discharged the water and the level in the receiver recedes to a preset low level, the mechanical alternator will deactivate and stop the pump. The mechanical alternator will alternate pumps at this time in preparation of the next operational sequence. If the lead pump fails or is unable to keep up with the flow of condensate to the receiver, the water level will continue to rise. At a secondary (higher) preset level, the mechanical alternator will cycle on the lag pump to increase the pumping capacity of the system. At this level, both the lead and lag pumps will be energized. The mechanical alternator will continue to operate both pumps until the water level recedes to the preset low level at which point, the pumps will be deactivated. With the control panel selector switch set in the hand position, the designated pump will run continuously. With the selector switch in the off position, the designated pump will not be allowed to run.

The unit shall be factory tested as a complete unit with a permanent test report being maintained by the manufacturer. The unit manufacturer shall furnish wiring diagrams, piping schematics, and installation and operating instructions.

Manufacturer shall be Skidmore Pumps of Benton Harbor, MI.

Note: See Wiring Diagram WD-1072 for three-phase operation and WD-1055 for single-phase.
Control specifications

Simplex Boiler Feed System
Serving One Boiler

**Control Panel**

Unit manufacturer shall furnish, mount, wire, and test an Underwriters Laboratories UL listed Industrial Control Panel and shall include the following:

- (1) Nema 2 control cabinet
- (1) Main disconnect switch with cover interlock
- (1) Fuse block with fuses
- (1) Magnetic starter with overload
- (1) Selector switch
- (1) Control circuit transformer with fusing whenever motor voltage exceeds 120 Volts
- (1) Numbered terminal strip
- (1) Ground lug

The main disconnect switch with cover interlock shall insure complete electrical deactivation of the entire Boiler Feed System.

**Sequence of Operation**

Boiler feed system controls shall be provided for operation as follows:

When the water level in the boiler reaches a preset low level, the boiler water level controller mounted on the boiler shall start the pump on the boiler feed unit. When the level in the boiler is restored, the pump is deactivated. Boiler water level controller shall be furnished and installed by the contractor.

The unit shall be factory tested as a complete unit with a permanent test report being maintained by the manufacturer. The unit manufacturer shall furnish wiring diagrams, piping schematics, and installation and operating instructions.

Manufacturer shall be Skidmore Pumps of Benton Harbor, MI.
Control specifications

Duplex Boiler Feed System
Serving Two Boilers

Control Panel

Unit manufacturer shall furnish, mount, wire, and test an Underwriters Laboratories UL listed Industrial Control Panel and shall include the following:

(1) Nema 2 control cabinet
(1) Main disconnect switch with cover interlock
(2) Fuse blocks with fuses
(2) Magnetic starters with overloads
(2) Selector switches
(1) Control circuit transformer with fusing whenever motor voltage exceeds 120 Volts
(1) Numbered terminal strip
(1) Ground lug

The main disconnect switch with cover interlock shall insure complete electrical deactivation of the entire Boiler Feed System.

Sequence of Operation

Boiler feed system controls shall be provided for operation as follows:

When the water level in a boiler reaches a preset low level, the boiler water level controller mounted on the boiler shall start the pump on the boiler feed unit. When the level in the boiler is restored, the pump is deactivated. The operation of the second boiler and boiler feed pump shall be the same as the first. Boiler water level controller on each unit shall be furnished and installed by the contractor.

The unit shall be factory tested as a complete unit with a permanent test report being maintained by the manufacturer. The unit manufacturer shall furnish wiring diagrams, piping schematics, and installation and operating instructions.

Manufacturer shall be Skidmore Pumps of Benton Harbor, MI.
Specifications

Simplex Condensate Pump
VCS, VJS, VES, VAS, and VNS Series
VCSS, VJSS, VESS, VASS, and VNSS Series

Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, inlet strainer, float switch, pump suction isolation valve, electrical controls, and accessories.

The condensate pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular, floor mounted receiver shall be manufactured of the material and size listed in the schedule. The receiver shall be equipped with water level gauge glass, (1) float switch, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

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<thead>
<tr>
<th>Skidmore Model No.</th>
<th>gpm</th>
<th>psig</th>
<th>HP</th>
<th>RPM</th>
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</tbody>
</table>
| gallon receiver   | cast iron or steel | receiver construction

10D - 2
January 2003
Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, (2) condensate pumps, inlet strainer, mechanical alternator, (2) pump suction isolation valves, electrical controls, and accessories.

The condensate pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular, floor mounted receiver shall be manufactured of the material and size listed in the schedule. The receiver shall be equipped with water level gauge glass, mechanical alternator, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<th>HP</th>
<th>RPM</th>
<th>volts</th>
<th>PH</th>
<th>HZ</th>
<th>gallon receiver</th>
<th>cast iron</th>
<th>steel</th>
<th>receiver construction</th>
</tr>
</thead>
</table>
Specifications

Simplex Boiler Feed Pump
VCSM, VJSM, VESM, VASM, and VNSM Series
VCSSM, VJSSM, VESSM, VASSM, and VNSSM Series

Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, inlet strainer, float operated make-up valve, pump suction isolation valve, electrical controls, and accessories.

The boiler feed pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

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<td></td>
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<td></td>
<td></td>
</tr>
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________ gallon receiver cast iron or steel receiver construction
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, (2) boiler feed pumps, inlet strainer, float operated make-up valve, (2) pump suction isolation valves, electrical controls, and accessories.

The boiler feed pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular, floor mounted receiver shall be manufactured of the material and size listed in the schedule. The receiver shall be equipped with water level gauge glass, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

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<th>Skidmore Model No.</th>
<th>(2) gpm @ psig</th>
<th>HP</th>
<th>RPM</th>
<th>volts</th>
<th>PH</th>
<th>HZ</th>
<th>gallon receiver</th>
<th>cast iron or steel receiver construction</th>
</tr>
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</table>
Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, inlet strainer, float switch, pump suction isolation valve, electrical controls, and accessories.

The condensate pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, (1) float switch, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<tr>
<th>Skidmore Model No.</th>
<th>gpm @ psig HP RPM</th>
<th>gallon receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, (2) condensate pumps, inlet strainer, mechanical alternator, (2) pump suction isolation valves, electrical controls, and accessories.

The condensate pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, mechanical alternator, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for the each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

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<th>RPM</th>
<th>volts</th>
<th>PH</th>
<th>HZ</th>
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<td></td>
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</table>
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, inlet strainer, float operated make-up valve, pump suction isolation valve, electrical controls, and accessories.

The boiler feed pump shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motor and rotating parts shall be removable without disturbing suction connection or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

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<th>HP</th>
<th>RPM</th>
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<tr>
<td>gallon receiver</td>
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<td>volts</td>
<td>PH</td>
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The boiler feed pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for the each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

**Capacity Schedule:**

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<tr>
<th>Skidmore Model No.</th>
<th>__________ gpm @ __________ psig</th>
<th>__________ HP</th>
<th>__________ RPM</th>
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<td>(2)</td>
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</table>

_______ volts _______ PH _______ HZ

_______ gallon receiver
Specifications

Multiplex Boiler Feed Pump
Rectangular Steel Receiver

Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, quantity of boiler feed pumps as scheduled, electrical controls, and accessories.

The boiler feed pumps shall be centrifugal design, permanently aligned and driven by vertical close-coupled drip proof motor with a drip cover. The motors and rotating parts shall be removable without disturbing suction connection or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; dripless mechanical seals are suitable for 250°F, and mechanical seal face flushing line with vent. Capacities and electrical characteristics shall be as scheduled on the drawings.

The rectangular receiver shall be manufactured of copper bearing steel with corrosion resistant lining and shall have a capacity of not less than that shown on the drawing. Unit(s) shall have a ten-year warranty against failure due to corrosion. The receiver shall be equipped with manhole, water level gauge glass, lifting lugs for ease of handling and installing, 5” angled thermometer, low water cut off switch, pump suction isolation valves, and an inlet basket strainer with bronze screen and large dirt pocket easily removable for cleaning. Water make-up assembly shall be solenoid operated by reverse acting float switch discharging into the top of the receiver and piped with strainer.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assemblies provided. Fuse block assembly and selector switch required for the each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts.

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

<table>
<thead>
<tr>
<th>Pump #1</th>
<th>Model</th>
<th>gpm</th>
<th>psig</th>
<th>HP</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump #2</td>
<td>Model</td>
<td>gpm</td>
<td>psig</td>
<td>HP</td>
<td>RPM</td>
</tr>
<tr>
<td>Pump #3</td>
<td>Model</td>
<td>gpm</td>
<td>psig</td>
<td>HP</td>
<td>RPM</td>
</tr>
<tr>
<td>Pump #4</td>
<td>Model</td>
<td>gpm</td>
<td>psig</td>
<td>HP</td>
<td>RPM</td>
</tr>
<tr>
<td>Receiver</td>
<td>gallons</td>
<td>&quot; Lg.</td>
<td>&quot; W</td>
<td>&quot; H</td>
<td>&quot; thk.</td>
</tr>
<tr>
<td>Make-up water supply pressure</td>
<td>psig</td>
<td>Volts</td>
<td>Ph</td>
<td>Hz.</td>
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</table>
Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, inlet strainer, float switch, pump suction gate valve, electrical controls, and accessories.

The condensate pump shall be centrifugal design, permanently aligned and driven by horizontal close-coupled drip proof motor. The motor and rotating parts shall be removable without disturbing suction or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; and dripless mechanical seals are suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valve, (1) float switch, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<td></td>
<td></td>
</tr>
<tr>
<td>volts</td>
<td>PH</td>
<td>HZ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receiver size</td>
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<td></td>
<td></td>
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The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

Skidmore Model No.  _________________

(2) ____ gpm @ ____ psig  ____ HP  ____ RPM

_____ volts  ____ PH  ____ HZ

Receiver size ____ " dia.  _____ " long  ___________ gallons
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, inlet strainer, float operated make-up valve, pump suction gate valve, electrical controls, and accessories.

The boiler feed pump shall be centrifugal design, permanently aligned and driven by horizontal close-coupled drip proof motor. The motor and rotating parts shall be removable without disturbing suction or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; and dripless mechanical seals are suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valve, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

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The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

Skidmore Model No. ______________________

________ gpm @ ________ psig  ________ HP  ________ RPM

________ volts  ________ PH  ________ HZ

Receiver size ______ " dia.  ______ " long  ____________ gallons
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, (2) boiler feed pumps, inlet strainer, float operated make-up valve, (2) pump suction gate valves, electrical controls, and accessories.

The boiler feed pumps shall be centrifugal design, permanently aligned and driven by horizontal close-coupled drip proof motor. The motors and rotating parts shall be removable without disturbing suction or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; and dripless mechanical seals are suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valves, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

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The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

Skidmore Model No. ________________________________
(2) ____ gpm @ ____ psig __________ HP __________ RPM
____ volts __________ PH __________ HZ
Receiver size ____ “ dia. _______ “ long __________ gallons
Furnish and install according to plans and manufacturers' instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, inlet strainer, float switch, pump suction gate valve, electrical controls, and accessories.

The condensate pump shall be centrifugal design, permanently aligned and driven by horizontal flexible-coupled drip proof motor. The motor and rotating parts shall be removable without disturbing suction or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; and dripless mechanical seals are suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valve, (1) float switch, and an inlet strainer with bronze screen easily removable for cleaning.

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<td>PH</td>
<td>HZ</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

Receiver size ___" dia. ___" long ___ gallons
Specifications

Duplex Condensate Pump
Elevated Cylindrical Steel Receiver
HPC Series

Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, (2) condensate pumps, inlet strainer, mechanical alternator, (2) pump suction gate valves, electrical controls, and accessories.

The condensate pumps shall be centrifugal design, permanently aligned and driven by horizontal flexible-coupled drip proof motor. The motors and rotating parts shall be removable without disturbing suction or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; and dripless mechanical seals are suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valves, mechanical alternator, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for each pump assembly provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<tbody>
<tr>
<td></td>
<td>volts</td>
<td>PH</td>
<td>HZ</td>
</tr>
</tbody>
</table>

Receiver size _____ " dia. _____ " long ________ gallons
Specifications

Simplex Boiler Feed Pump
Elevated Cylindrical Steel Receiver
HPM Series

Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, inlet strainer, float operated make-up valve, pump suction gate valve, electrical controls, and accessories.

The boiler feed pump shall be centrifugal design, permanently aligned and driven by horizontal flexible-coupled drip proof motor. The motor and rotating parts shall be removable without disturbing suction or discharge piping. The pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; and dripless mechanical seals are suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

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</tbody>
</table>

Received size " dia. " long gallons
Specifications

Duplex Boiler Feed Pump
Elevated Cylindrical Steel Receiver
HPM Series

Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, (2) boiler feed pumps, inlet strainer, float operated make-up valve, (2) pump suction gate valves, electrical controls, and accessories.

The boiler feed pumps shall be centrifugal design, permanently aligned and driven by horizontal flexible-coupled drip proof motor. The motors and rotating parts shall be removable without disturbing suction or discharge piping. The pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft; and dripless mechanical seals are suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valves, float operated make-up valve, and an inlet strainer with bronze screen easily removable for cleaning.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for each pump assembly provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

Capacity Schedule:

Skidmore Model No.___________________________
(2) ______ gpm @ _______ psig _______ HP _______ RPM
_______ volts _______ PH _______ HZ
Receiver size _____" dia. _______" long _______gallons
**Specifications**

Simplex Condensate Pump  
Elevated Cylindrical Steel Receiver  
SCRH Series

Furnish and install according to plans and manufacturers’ instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, condensate pump, float switch, pump suction gate valve and strainer, electrical controls, and accessories.

The condensate pump shall be single or multi-stage design, permanently aligned and driven by vertical close coupled drip proof motor with drip cover. The motor and rotating parts shall be removable without disturbing the suction or discharge piping. Pump shall be stainless steel fitted with enclosed centrifugal impeller, stainless steel shaft, dripless mechanical seals suitable for 200°F and Ni-Resist faces. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valve, suction strainer, and (1) float switch.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

**Capacity Schedule:**

<table>
<thead>
<tr>
<th>Skidmore Model No.</th>
<th>gpm @</th>
<th>psig</th>
<th>HP</th>
<th>RPM</th>
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<thead>
<tr>
<th>volts</th>
<th>PH</th>
<th>HZ</th>
<th>gallons</th>
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</tbody>
</table>

Receiver size ______ “ dia. _______ “ long _______ gallons
Furnish and install according to plans and manufacturers' instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) condensate receiver, (2) condensate pumps, mechanical alternator, pump suction gate valves and strainers, electrical controls, and accessories.

The condensate pumps shall be single or multi-stage design, permanently aligned and driven by vertical close coupled drip proof motors with drip cover. The motors and rotating parts shall be removable without disturbing the suction or discharge piping. Pumps shall be stainless steel fitted with enclosed centrifugal impeller, stainless steel shaft, dripless mechanical seals suitable for 200°F and Ni-Resist faces. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valves, suction strainers, and mechanical alternator.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for each pump assembly provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<th>gpm @ psig</th>
<th>HP</th>
<th>RPM</th>
<th>volts</th>
<th>PH</th>
<th>HZ</th>
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</table>

Receiver size ______ “ dia. _______” long _______ gallons
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, boiler feed pump, float operated make-up valve, pump suction gate valve and strainer, electrical controls, and accessories.

The boiler feed pump shall be single or multi-stage design, permanently aligned and driven by vertical close coupled drip proof motor with drip cover. The motor and rotating parts shall be removable without disturbing the suction or discharge piping. Pump shall be stainless steel fitted with enclosed centrifugal impeller, stainless steel shaft, dripless mechanical seals suitable for 200°F and Ni-Resist faces. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valve, suction strainer, and (1) float operated make-up valve.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for the pump assembly provided. Fuse block assembly and selector switch required for the pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<th>gpm @ psig</th>
<th>HP</th>
<th>RPM</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>volts</td>
<td>PH</td>
<td>HZ</td>
</tr>
<tr>
<td>Receiver size</td>
<td>“ dia.</td>
<td>“ long</td>
<td>gallons</td>
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</table>
Furnish and install according to plans and manufacturers’ instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, (2) boiler feed pumps, float operated make-up valve, pump suction gate valves and strainers, electrical controls, and accessories.

The boiler feed pumps shall be single or multi-stage design, permanently aligned and driven by vertical close coupled drip proof motors with drip cover. The motors and rotating parts shall be removable without disturbing the suction or discharge piping. Pumps shall be stainless steel fitted with enclosed centrifugal impeller, stainless steel shaft, dripless mechanical seals suitable for 200°F and Ni-Resist faces. Capacities and electrical characteristics shall be as scheduled on the drawings.

The cylindrical receiver shall be manufactured of copper bearing, rust resisting steel, elevated on a fabricated steel frame and channel steel base, and shall have a capacity of not less than that shown on the drawing. The receiver shall be equipped with water level gauge glass, dial thermometer, suction gate valves, suction strainers, and (1) float operated make-up valve.

The above unit(s) shall be furnished with one Nema 2 UL listed enclosure containing one main disconnect with cover interlock. Across the line magnetic starters with three leg overload protection, and under voltage release for each pump assembly provided. Fuse block assembly and selector switch required for each pump assembly. Numbered terminal strip and corresponding wiring diagram. Control circuit transformer shall be provided whenever motor voltage exceeds 120 volts (see reverse side for sequence of operation).

The pump manufacturer shall not only furnish above-mentioned equipment, but also mount, wire, and test all above controls.

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<th>RPM</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>volts</td>
<td>PH</td>
<td>HZ</td>
</tr>
<tr>
<td></td>
<td>Receiver size “ dia. “ long gallons</td>
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<tr>
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<td>SS-24A-2-3</td>
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<td>SS-24A-2-4</td>
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*With control specifications on reverse side.*