

GUIDE SPECIFICATION SHEET

Engineering Specifications for CSS System (HH,LH & SP)

SYSTEM:

- 1.0 Separator System shall include a pump, centrifugal separator, piping, carbon steel base, electrical control panel, and purge valve with a Maximum Working Pressure of 150 psi/Maximum Working Temperature of 120 Deg F, as supplied by Griswold Filtration.

COMPONENT SPECIFICATION:

Purge Valve:

- 2.0 Female threaded diaphragm cast iron purge valve with 4-way brass valve 120VAC NEMA 4 solenoid enclosure or bronze body 316 stainless steel ball motorized standard port valve with 120VAC NEMA 4 enclosure, 8 second cycle time, normally closed, requires power to open and close, manual override.

Pump & Motor:

- 3.0 Pump performance shall be stated at _____ gpm @ 80 tdh (HH & SP side stream cooling tower or below grade sump filtration with sweeper piping) or _____ gpm @ 40 tdh (LH side stream to cooling tower main pump line or manifold). HH and LH systems shall include an end suction cast iron pump case with bronze or cast iron impeller, close coupled or frame mounted to a TEFC motor with 1.15 service factor, mechanical seal with carbon rotary, Sil-Carbide stationary, and Viton Elastomer for –HH and LH. SP system shall include cast iron pump case with bronze, cast iron or glass filled Noryl corrosion abrasion resistant impeller, close coupled or frame mounted to a TEFC motor with 1.15 service factor, mechanical seal with carbon rotary, ceramic stationary, and BUNA Elastomer.

Basket Strainer (Standard On All –HH & SP Series. Optional On LH):

- 4.0 Cast iron pump basket strainer with 1/4" perforated 304 stainless steel internal screen, bolted or quick opening cover.

Piping:

- 5.0 Pipe assembly shall be constructed from carbon steel with a primer base/enamel blue exterior finish or schedule 80 PVC with enamel blue exterior finish.

Electrical Panel:

- 6.0 Enclosure shall be NEMA 4 powder coated steel, NEMA 4X stainless steel or NEMA 4X fiberglass, watertight, door interlock enclosure, fusible disconnect switch or disconnect starter with thermal overload, 120VAC magnetic contactor, 460/120VAC transformer with primary/secondary circuit breakers or fuses, pump "run" light, HOA selector switch, terminal strip, 24/7 programmable, cycle, or PLC timer.

Baseplate:

- 7.0 The metal frame shall be constructed from carbon steel angle or channel, vertical box tubing, powder coated blue exterior finish.

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Engineering Specifications for CSR System (HH,LH & SP)

SYSTEM

- 1.0 Separator System shall include a pump, centrifugal separator, piping, carbon steel base, electrical control panel, and recovery tank with a Maximum Working Pressure of 150 psi, as supplied by Griswold Filtration.

COMPONENT SPECIFICATION

Recover Tank:

- 2.0 304 stainless steel recovery tank with 25-micron filter bag, inlet/outlet liquid filled gages and manual air vent.

Monitoring Package:

- 3.0 Dial indicator (Clean-Dirty-Change) differential pressure switch with N.O. dry contact, inlet/outlet stainless steel braided hoses and ball valves, threaded bronze body sight flow indicator with single window and ABS impeller.

Service Light (Optional):

- 4.0 120VAC 25-watt service light enclosed in a glass globe pendant mount fixture. Service light shall be mounted below electrical control panel.

Pump & Motor:

- 5.0 Pump performance shall be stated at _____ gpm @ 80 tdh (HH & SP side stream cooling tower or below grade sump filtration with sweeper piping) or _____ gpm @ 40 tdh (LH side stream to cooling tower main pump line or manifold). HH and LH systems shall include an end suction cast iron pump case with bronze or cast iron impeller, close coupled or frame mounted to a TEFC motor with 1.15 service factor, mechanical seal with carbon rotary, Sil-Carbide stationary, and Viton Elastomer for –HH and LH. SP system shall include cast iron pump case with bronze, cast iron or glass filled Noryl corrosion abrasion resistant impeller, close coupled or frame mounted to a TEFC motor with 1.15 service factor, mechanical seal with carbon rotary, ceramic stationary, and BUNA Elastomer.

Basket Strainer (Standard On All –HH & SP Series. Optional On LH Series):

- 6.0 Cast iron pump basket strainer with 1/4" perforated 304 stainless steel internal screen, bolted or quick opening cover

Piping:

- 7.0 Pipe assembly shall be constructed from carbon steel with a primer base/enamel blue exterior finish or schedule 80 PVC with enamel blue exterior finish.

Electrical Panel:

- 8.0 Enclosure shall be NEMA 4 powder coated steel, NEMA 4X stainless steel or NEMA 4X fiberglass, watertight, door interlock enclosure, fusible disconnect switch or disconnect starter with thermal overload, 120VAC magnetic contactor, 460/120VAC transformer with primary/secondary circuit breakers or fuses, pump "run" light, HOA, and terminal strip

Baseplate:

- 9.0 The metal frame shall be constructed from carbon steel angle or channel, vertical box tubing, powder coated blue exterior finish.