

# CONDENSATE RETURN SYSTEM PRODUCT GUIDE

**Standard Units Include:**

- Carbon Steel Receiver Tank
- Vertical Immersion Pump(s)
- Float Switch/Mechanical Alternator

**Cleaver-Brooks Vertical Immersion Pump and Motor:**

Our standard system includes Vertical Immersion pumps, which do not require an isolation valve, eliminates the need to drain the system for maintenance and require a smaller footprint. These pumps are Cast Iron-Stainless Steel Construction with a wide range of pump sizes and multiple stages. Pumps operate at numerous duty points and pressures. They are built with a standard pump mounting plate for ease of removal and installation.

**Condensate Return Tank Options:**

- Pump Control
  - Square D: Standard
  - Warrick Probe: Optional
- Control Panel
  - 3 Phase: Standard
  - 1 Phase: Optional
  - Required with the Warrick Probe
- Thermometer
- Sight Glass
- Pump Discharge Pressure Gauge
- Pump Suction Pressure Gauge
- Inlet Y-Strainer
- Stainless Steel Tank - Special Quotation

**Model Number Description: CRS-D25-4-5**

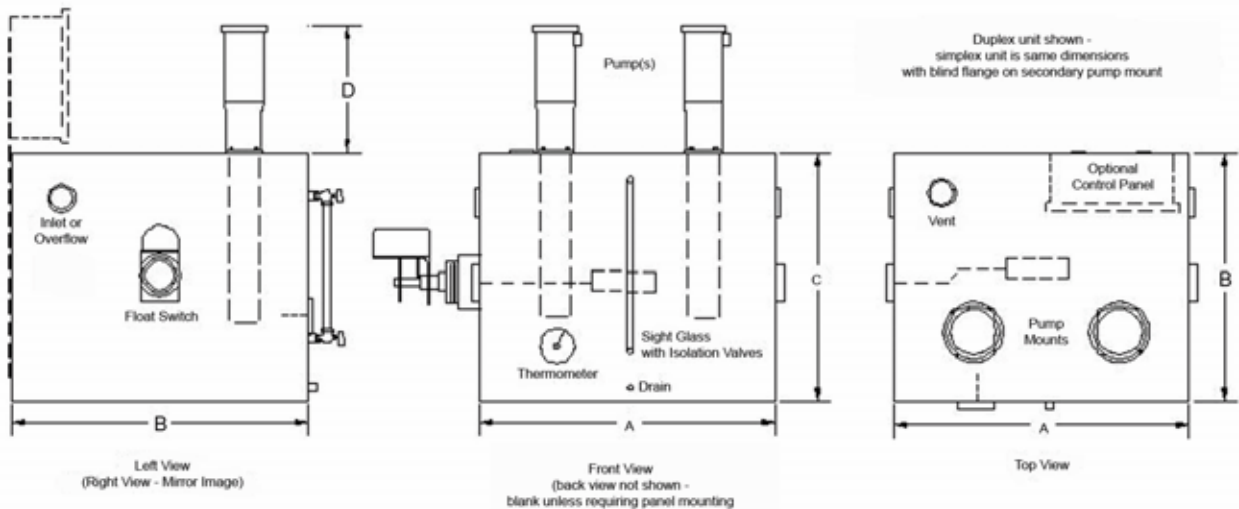
- CRS – Condensate Return System
- D - Duplex
- 25 - Tank Capacity
- 4-5 - Pump Model (SPK)

Condensate System Selection Table

GPM	EDR	Tank Cap. Gal	PSI						
			10	15	20	25	30	35	40
5	500-3000	10	SPK1-3	SPK1-3	SPK1-3	SPK1-5	SPK1-5	SPK1-8	SPK1-8
10	4000-6000	10	SPK2-3	SPK2-3	SPK2-3	SPK2-5	SPK2-5	SPK2-8	SPK2-8
15	8000-10000	15	SPK4-3	SPK4-3	SPK4-3	SPK4-5	SPK4-5	SPK4-5	SPK4-8
20	15000	25	SPK4-3	SPK4-3	SPK4-5	SPK4-5	SPK4-8	SPK4-8	SPK4-8
25	15000	25	SPK8-1	SPK8-2	SPK8-3	SPK8-3	SPK8-5	SPK8-5	SPK8-5
30	20000	25	SPK8-2	SPK8-2	SPK8-3	SPK8-3	SKP8-5	SPK8-5	SPK8-5
35	25000	35	SPK8-2	SPK8-2	SPK8-3	SPK8-3	SKP8-5	SPK8-5	SPK8-5
40	25000	35	SPK8-2	SPK8-2	SPK8-3	SPK8-5	SKP8-5	SPK8-5	SPK8-5
45	30000	35	SPK8-2	SPK8-2	SPK8-3	SPK8-5	SKP8-5	SPK8-5	SPK8-7
50	30000	35	SPK8-2	SPK8-3	SPK8-5	SPK8-5	SPK8-5	SPK8-7	SPK8-7

Dimensions and Ratings (dimensions in inches)

Tank Size Gallons	A	B	C	D
10—T	16.00	15.50	13.00	Varies with HP
15—T	18.50	18.00	13.00	Varies with HP
25—T	23.00	22.50	15.00	Varies with HP
35—T	24.00	23.50	19.00	Varies with HP



Weights

Single Phase

Simplex System #	Simplex Weight	Duplex System #	Duplex Weight
S10-1-3	265	N/A	N/A
S10-1-5	266	N/A	N/A
S10-1-8	266	N/A	N/A
S10-2-3	265	N/A	N/A
S10-2-5	266	N/A	N/A
S10-2-8	284	N/A	N/A
S15-4-3	317	D15-4-3	364
S15-4-5	333	D15-4-5	396
S15-4-8	347	D15-4-8	424
S25-4-3	317	D25-4-3	364

Simplex System #	Simplex Weight	Duplex System #	Duplex Weight
S25-4-5	333	D25-4-5	396
S25-4-8	347	D25-4-8	424
S25-8-1	323	D25-8-1	376
S25-8-2	341	D25-8-2	412
S25-8-3	352	D25-8-3	434
S25-8-5	355	D25-8-5	440
S35-8-2	441	D35-8-2	512
S35-8-3	452	D35-8-3	534
S35-8-5	455	D35-8-5	540
S35-8-7	467	D35-8-7	564

Three Phase

Simplex System #	Simplex Weight	Duplex System #	Duplex Weight
S10-1-3	365	N/A	N/A
S10-1-5	366	N/A	N/A
S10-1-8	366	N/A	N/A
S10-2-3	365	N/A	N/A
S10-2-5	366	N/A	N/A
S10-2-8	384	N/A	N/A
S15-4-3	417	D15-4-3	514
S15-4-5	433	D15-4-5	546
S15-4-8	447	D15-4-8	574
S25-4-3	417	D25-4-3	514

Simplex System #	Simplex Weight	Duplex System #	Duplex Weight
S25-4-5	433	D25-4-5	546
S25-4-8	447	D25-4-8	574
S25-8-1	423	D25-8-1	526
S25-8-2	441	D25-8-2	562
S25-8-3	452	D25-8-3	584
S25-8-5	455	D25-8-5	590
S35-8-2	541	D35-8-2	662
S35-8-3	552	D35-8-3	684
S35-8-5	555	D35-8-5	690
S35-8-7	567	D35-8-7	714

# Condensate Return System Sample Specifications

## PART I GENERAL

### 1.1 GENERAL

- A. The following sample specifications are provided by Cleaver-Brooks to assist you in specifying your customer's specific needs and application
- B. Condensate Return Systems shall be Cleaver-Brooks Model (Specify simplex, or duplex) suitable for \_\_\_gpm, at a discharge pressure of \_\_\_psig (refer to Selection Table above).

## PART 2 PRODUCTS

### 2.1 SYSTEM COMPONENTS

- A. The unit shall consist of the following components:
  - 1. One (substitute two for duplex) Vertical Immersion Pumps, which do not require an isolation valve. These pumps are Cast Iron-Stainless Steel Construction with a wide range of pump sizes and multiple stages. Pumps operate at numerous duty points and pressures. They are built with a standard pump mounting plate for ease of removal and installation
  - 2. One non-code welded receiver made of carbon steel.
  - 3. Tank size shall be gallon capacity.
  - 4. One pump control consisting of a float switch.