



STAINLESS STEEL CONDENSATE RETURN UNITS



45 Gallon tank shown with optional isolation valves, thermometer, & high level float switch. Single phase units do not require a control panel. Three phase control panel shown has optional alarm bell and light. Sight glass fittings with rugged glass guards are stainless steel.

High Quality Stainless Steel...

Exceptional Value, Extraordinary Quality...

Aero Stainless Steel Condensate Return Units from Fabtek Aero offer the best materials available to create the longest lasting tanks for your boiler feed needs. Our condensate return units feature high grade stainless steel in a compact size. This unique design is highly adaptable to many current fits and can easily replace your existing condensate return unit with very little modification to your existing system. The accessories that come standard with our tanks are of the highest quality. These tanks are made to fit standard vertical flange mount pumps. Be sure to see our Aero Pumps for a complete system.



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SIMPLEX & DUPLEX TANK/PUMP SELECTION GUIDE

TANK SIZE	EDR (SQ. FT.)	GPM	PSIG	MOTOR HP	SIMPLEX MODEL NUMBER THREE PHASE	SIMPLEX MODEL NUMBER SINGLE PHASE	DUPLEX MODEL NUMBER THREE PHASE	DUPLEX MODEL NUMBER SINGLE PHASE
12	4000	6	10	1/3	1210C4AB3S	1210C4AB1S	1210C4AB3D	1210C4AB1D
			20	1/3	1220C4AB3S	1220C4AB1S	1220C4AB3D	1220C4AB1D
			25	1/2	1225C4AB3S	1225C4AB1S	1225C4AB3D	1225C4AB1D
			30	3/4	1230C5AB3S	1230C5AB1S	1230C5AB3D	1230C5AB1D
			40	1	1240C5AB3S	1240C5AB1S	1240C5AB3D	1240C5AB1D
	50	1 1/2	1250C6AB3S	1250C6AB1S	1250C6AB3D	1250C6AB1D		
	6000	9	10	1/3	1210C4AB3S	1210C4AB1S	1210C4AB3D	1210C4AB1D
			20	1/3	1220C4AB3S	1220C4AB1S	1220C4AB3D	1220C4AB1D
			25	1/2	1225C4AB3S	1225C4AB1S	1225C4AB3D	1225C4AB1D
			30	1	1230C5AB3S	1230C5AB1S	1230C5AB3D	1230C5AB1D
40			1 1/2	1240C6AB3S	1240C6AB1S	1240C6AB3D	1240C6AB1D	
50	1 1/2	1250C6AB3S	1250C6AB1S	1250C6AB3D	1250C6AB1D			
25	10000	15	10	1/3	2510C4AB3S	2510C4AB1S	2510C4AB3D	2510C4AB1D
			20	1/2	2520C4AB3S	2520C4AB1S	2520C4AB3D	2520C4AB1D
			25	1/2	2525C4BC3S	2525C4BC1S	2525C4BC3D	2525C4BC1D
			30	1	2530C5BC3S	2530C5BC1S	2530C5BC3D	2530C5BC1D
			40	1 1/2	2540C5BC3S	2540C5BC1S	2540C5BC3D	2540C5BC1D
	50	2	2550C6BC3S	2550C6BC1S	2550C6BC3D	2550C6BC1D		
	15000	22.5	10	1/3	2510C4AB3S	2510C4AB1S	2510C4AB3D	2510C4AB1D
			20	1/2	2520C4AB3S	2520C4AB1S	2520C4AB3D	2520C4AB1D
			25	1	2525C5BC3S	2525C5BC1S	2525C5BC3D	2525C5BC1D
			30	1 1/2	2530C5BC3S	2530C5BC1S	2530C5BC3D	2530C5BC1D
40			2	2540C6BC3S	2540C6BC1S	2540C6BC3D	2540C6BC1D	
50	3	2550C6CD3S	---	2550C6CD3D	---			
45	20000	30	10	1/3	4510C4BC3S	4510C4BC1S	4510C4BC3D	4510C4BC1D
			20	3/4	4520C4CD3S	4520C4CD1S	4520C4CD3D	4520C4CD1D
			25	1	4525C5CD3S	4525C5CD1S	4525C5CD3D	4525C5CD1D
			30	1 1/2	4530C5BC3S	4530C5BC1S	4530C5BC3D	4530C5BC1D
	25000	37.5	40	2	4540C6BC3S	4540C6BC1S	4540C6BC3D	4540C6BC1D
			10	1/2	4510C4BC3S	4510C4BC1S	4510C4BC3D	4510C4BC1D
			20	3/4	4520C4CD3S	4520C4CD1S	4520C4CD3D	4520C4CD1D
			25	1 1/2	4525C5BC3S	4525C5BC1S	4525C5BC3D	4525C5BC1D
	30000	45	30	1 1/2	4530C5CD3S	4530C5CD1S	4530C5CD3D	4530C5CD1D
			40	3	4540C6BC3S	---	4540C6BC3D	---
10			1/2	4510C4CD3S	4510C4CD1S	4510C4CD3D	4510C4CD1D	
20			3/4	4520C4CD3S	4520C4CD1S	4520C4CD3D	4520C4CD1D	
70	40000	60	25	1 1/2	4525C5BC3S	4525C5BC1S	4525C5BC3D	4525C5BC1D
			30	2	4530C5CD3S	4530C5CD1S	4530C5CD3D	4530C5CD1D
			40	3	4540C6BC3S	---	4540C6BC3D	---
			10	3/4	7010C4DE3S	7010C4DE1S	7010C4DE3D	7010C4DE1D
50000	70	70	20	1	7020C4FE3S	7020C4FE1S	7020C4FE3D	7020C4FE1D
			25	2	7025C5CD3S	7025C5CD1S	7025C5CD3D	7025C5CD1D
			30	2	7030C5CD3S	7030C5CD1S	7030C5CD3D	7030C5CD1D
			10	3/4	7010C4DE3S	7010C4DE1S	7010C4DE3D	7010C4DE1D
100	60000	90	15	1	10015C4EF3S	10015C4EF1S	10015C4EF3D	10015C4EF1D

Standard unit includes SS tank complete with flange mounted SS pump close coupled to motor of HP shown 115/208-230V/1/60 or 208-230/460v/3/60 3450 RPM ODP. Simplex unit has NEMA 1 float switch and duplex has NEMA 1 alternating float switch. Sight Glass is also standard.

Available motor options are: TEFC, washdown duty, & explosion proof motors.

Additional Accessories: Thermometer, Nema 4 electrics, Isolation valves



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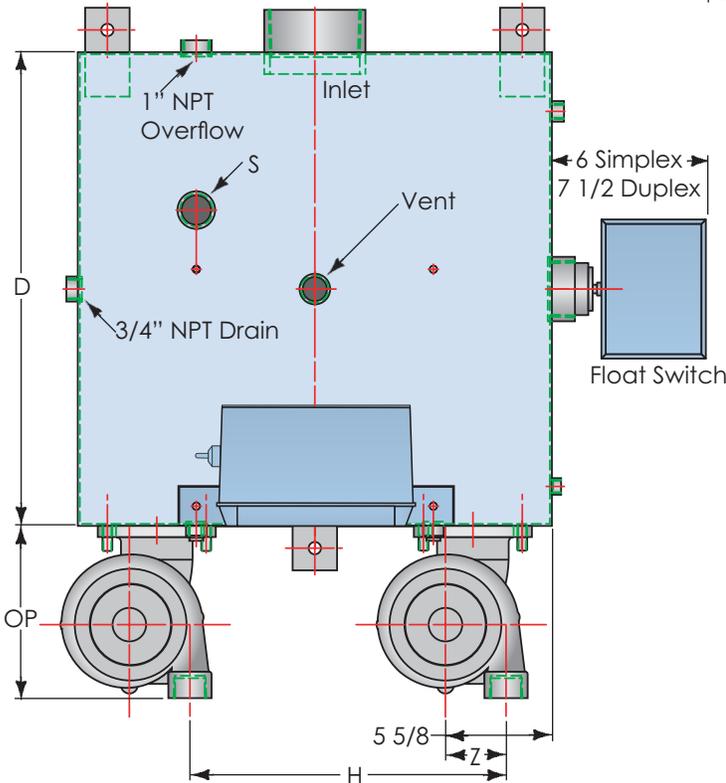
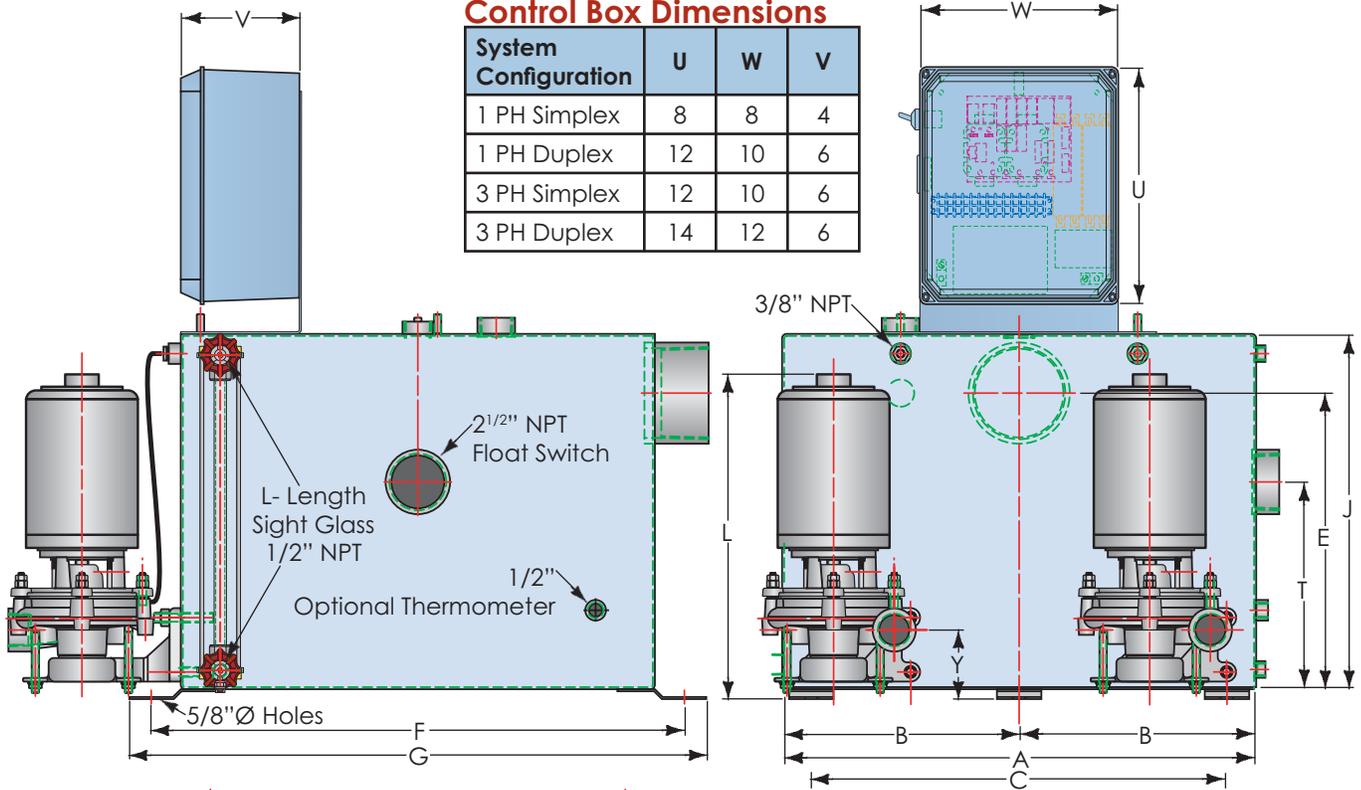
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Stainless Steel Condensate Units

Control Box Dimensions

System Configuration	U	W	V
1 PH Simplex	8	8	4
1 PH Duplex	12	10	6
3 PH Simplex	12	10	6
3 PH Duplex	14	12	6



Tank Displacement (Standard Float Settings)

Tank Size	Turn On (Gallons)	Shut Off (Gallons)
12	8	4
25	21	5
45	38	9
70	63	14
100	89	20



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Tank Dimensions

Tank Size	Inlet	Vent	A	B	C	D	E	F	G	H*	J	S	T
12	2	1	17	8 1/2	14 1/4	11 1/2	8 1/2	17	19 3/16	9	11 1/2	3/4	7
25	4	1	18	9	15	20	15	23	25 3/16	10	18	3/4	10 1/2
45	4	1 1/2	24	12	21 1/16	24	15	27	29 3/16	16	18	1 1/2	10 1/2
70	4	1 1/2	30	15	27 1/16	30	15	33	35 3/16	22 1/16	18	1 1/2	10 1/2
100	4	1 1/2	36	18	33 3/16	36	15	39	41 3/16	28	18	1 1/2	10 1/2

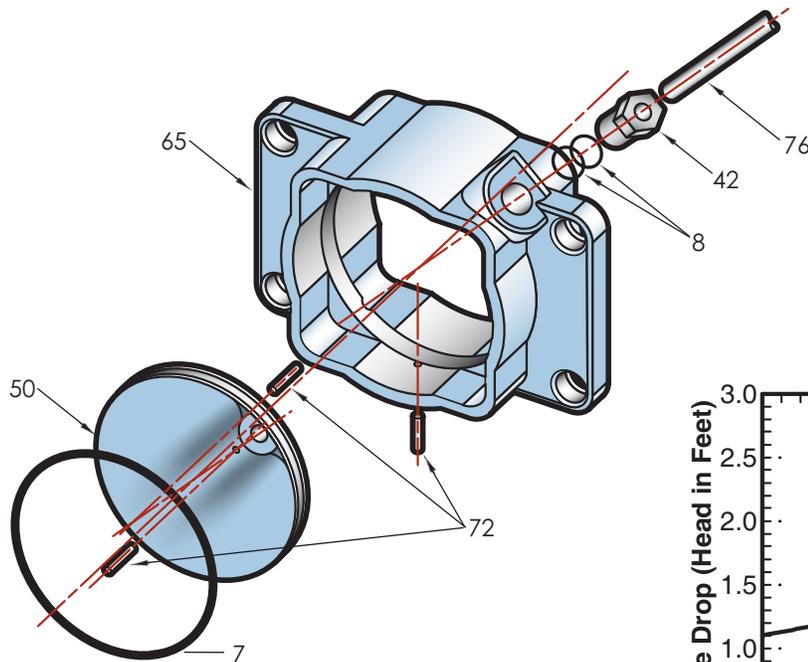
*Duplex Tank Only

Pump Dimensions

Model	Pump Size		L (Approximate)					OP	Y	Z
	Disch.	Imp. Ø	Single Phase		Three Phase					
			48 Frame 1/3-1HP	56 Frame 1 1/2-2HP	71 Frame 1/3HP - 1HP	80 Frame 1/2HP - 2HP	90 Frame 3HP			
C4AB	1/2	4	13 5/16	---	13 3/4	---	---	8	2 1/16	2 5/16
C4BC	3/4	4	13 7/16	---	13 5/8	---	---	6 3/4	2 1/8	2 7/16
C4CD	1	4	13 11/16	---	13 7/8	---	---	8 3/16	2 3/8	2 3/4
C4DE	1 1/4	4	13 15/16	---	14 1/8	---	---	8 3/8	2 5/8	2 3/4
C4EF	1 1/2	4	14 5/16	17	14 1/2	15 1/8	---	8 3/8	2 15/16	2 13/16
C5AB	1/2	5	13 1/2	---	13 11/16	---	---	8 1/2	2 3/16	2 3/4
C5BC	3/4	5	13 9/16	16 1/4	13 3/4	14 3/8	---	8 1/2	2 3/16	2 13/16
C5CD	1	5	13 3/4	16 7/16	13 15/16	14 9/16	---	8 5/8	2 3/8	3
C5DE	1 1/4	5	---	16 3/4	---	14 13/16	---	9 3/16	2 11/16	3 1/16
C6AB	1/2	6	---	16 7/16	---	14 9/16	---	8 7/8	2 3/8	3 5/16
C6BC	3/4	6	---	16 1/4	---	14 3/8	16 1/4	9 3/8	2 3/16	3 1/4
C6CD	1	6	---	---	---	---	17	10 1/16	3	3 3/16

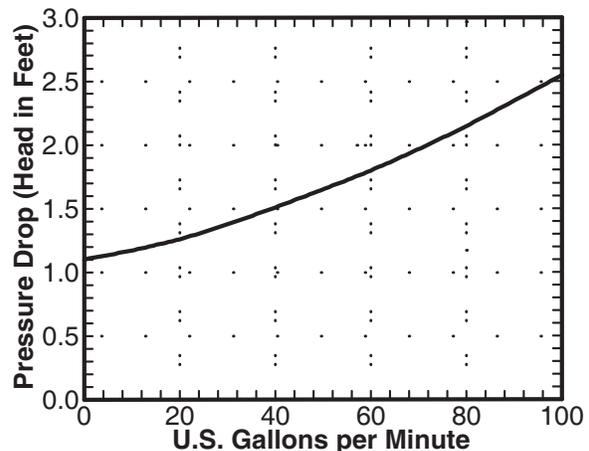
Note: OP Dimension will be 3" longer with optional isolation valve is added

FABTEK AERO ISOLATION VALVE



Materials of Construction

Name/Description	Part No	QTY	Material
O-Ring (-338)	7	1	Buna
O-Ring (-011)	8	2	Buna
Inv. Flare Tube	42	1	Brass
Valve	50	1	Bronze
Body, Wafer Valve	65	1	304 Stainless Steel
1/8 X 21/32 Dowel	72	3	316 Stainless Steel
Stem	76	1	316 Stainless Steel





FABTEK AERO CONDENSATE RETURN SYSTEMS

Description of Standard and Optional Equipment and Controls

Pumps	<p>Pumps are made of Investment Cast #316 Stainless Steel. The single stage impeller is of semi-open design allowing for occasional pumping of solid matter without clogging. Pump is externally adjustable to like new performance should internal wear ever occur. Pump is permanently aligned to the electric motor, never requiring alignment at the jobsite</p> <p>Pumps are furnished with 250°F mechanical seals, and are equipped with a seal cavity bleed line to minimize the probability of premature seal failure. Pump discharge openings are NPT.</p>
Electric Motors	<p>Drip proof ball bearing motors are standard. Available voltages are: Three Phase—208-230-460 V. Single Phase—115-208-230 V. Standard motor enclosures are: Three Phase—Severe Duty TEFC, and Single Phase—ODP.</p>
Receiver	<p>Constructed of #304 Stainless Steel, 12 Gauge, and is sized for 1 minute net storage. NPT openings include inlet, vent, overflow, level gauge, and thermometer.</p>
Float Switches	<p>Float Switches are heavy duty 2 pole with stainless steel rod and float. Duplex alternating float switch includes high level lag pump on feature.</p>
Sight Gage Assembly	<p>SS bottom fixture with shut-off valve, SS top fixture, 2- heavy duty SS side protection bars, and tempered glass tube.</p>
Butterfly Isolation Valves (Optional)	<p>Butterfly Isolation Valves between pump and receiver are available. 304 SS/bronze for corrosion resistance, these valves are of great value when removing one pump of a duplex system without having to shut the system down.</p>
Single Phase Simplex Pump Switch Control (Optional)	<p>Provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump. Enclosure is NEMA 1 standard (NEMA 4 optional). A high water level alarm is optional.</p>
Single Phase Duplex Alternating Pump Control (Optional)	<p>Designed to alternately control two 120, 208, or 240 VAC single phase pumps. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. Enclosure is NEMA 1 standard (NEMA 4 optional). A high water level/pump failure alarm is available. Also, electrical pump alternation via solid state circuitry is an option. When this option is specified, the mechanical alternating float switch is replaced with a simplex float switch. However the lead/lag feature is lost.</p>
Three Phase Simplex Motor Contactor Control (Optional)	<p>Provides a reliable means of controlling one three phase pump. Two control switches activate a IEC motor contactor to turn the pump on and off. Enclosure is NEMA 1 standard (NEMA 4 optional). A high water level alarm is optional.</p>
Three Phase Duplex Alternating Pump Control (Optional)	<p>Designed to alternately control two three phase pumps. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. Enclosure is NEMA 1 standard (NEMA 4 optional). A high water level/pump failure alarm is optional. Also, electrical pump alternation via solid state circuitry is an option. When this option is specified, the mechanical alternating float switch is replaced with a simplex float switch. However the lead/lag feature is lost.</p>
Pressure Gauges (Optional)	<p>2 1/2" Liquid Filled SS Casing</p>
Thermometer (Optional)	<p>2 1/2" Diameter face, Bi-metal, 4" stem, Range 32 - 250°F.</p>
Motor Adapters (Optional)	<p>An adapter is available to allow the use of any 56C face motor.</p>



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