



# Condensate Transfer Stations

Condensate rates from 1,500 PPH (3.0 GPM)  
to 15,000 PPH (30.0 GPM)



#### Available Sizes

- 8 to 50 gallon receivers
- 6 to 60 GPM (3,000 to 30,000 PPH) pump capacities
- 10 to 60 PSI discharge pressures

In most heating systems, condensate, and sometimes steam, is trapped out of heaters, kettles, hot presses, molds, absorbers, and other equipment and drained to a return unit having given up some of its heat in the process. If a trap malfunctions, the condensate can be passed to the return unit at a much higher temperature causing the return unit to fail. When using Bryan Condensate Transfer Stations as the return unit, this problem is overcome because they are designed to eliminate cavitation at higher temperatures. In addition, Bryan Condensate Transfer Stations are designed to handle the higher load placed on them during cold starts and are supplied with reliable pumps that are designed to handle hotter water and develop higher pressures at lower speeds.

Bryan Condensate Transfer Stations are ideal for remote or non-accessible locations where unattended, dependable performance is essential.

#### **Bryan Condensate Transfer Stations Features Construction**

Bryan Condensate Transfer Stations can be supplied for either simplex or duplex operations. Simplex units can be converted to duplex operations in the field if an upgrade is required for receivers larger than eight gallons. Users can specify either cast iron or 3/16 inch (4.8 mm) steel receivers with receiver capacities ranging from 8 to 50 gallons (30 to 189 liters). A safety reserve is provided in these capacities to

handle water at up to 10 psi (0.68 bar) above the selected discharge pressure. Safety venting to the atmosphere is required. Units will deliver hot water at temperatures up to 200°F (93°C) and will not vapor bind at 210°F (98°C).

Electrical equipment is generally mounted at least 1 foot (0.305 m) above floor level for safety and to maintain pumping if flooding occurs.

Bryan Condensate Transfer units are supplied with an internal pump that operates at 1750 rpm. Pumps, which are mounted vertically on top of the receiver, are leak proof and easy to maintain.

Floats are set at the factory to provide about 2 inches (5.08 cm) of water level variation between start and stop. This insures frequent recycling and smaller condensate transfers at higher temperatures, thus improving overall efficiency of the boiler system.

Settings for both float switches and mechanical alternators can be field adjusted. All units can be provided with optional pressure gauges for the pump discharge. An optional thermometer can be provided for the receiver.

#### **Electrical**

Motor sizes range from 1/4 hp to 2 hp and operate at 1750 rpm. Operating voltages are 115/230 volt single phase or 230/460 volt three phase. Enclosed motors are available as an option. Electrical options are available. Consult your Bryan representative for more information.

# Bryan Condensate Transfer Stations

Condensate Rate	Pump Discharge Pressure PSIG (Bar)	Minimum Pump GPM (M <sup>3</sup> /H)	Motor HP	Receiver Capacity		Pump Discharge Size NPT	Unit Number	
				Simplex G (L)	Duplex G (L)		Cast Iron Receiver	Steel Receiver
3.0 gpm (0.68 m <sup>3</sup> /h) or 1,500 PPH (680 kg/h)	10 (0.68)	6.0 (1.36)	1/4	8 (30)	15 (57)	1"	B-6F	B-6S
	15 (1.02)	6.0 (1.36)	1/4	8 (30)	15 (57)	1"	B-6F	B-6S
	20 (1.36)	6.0 (1.36)	1/4	8 (30)	15 (57)	1"	B-6F	B-6S
	30 (2.04)	6.0 (1.36)	1/3	8 (30)	15 (57)	1"	B-9F	B-9S
	40 (2.72)	6.0 (1.36)	1/2	8 (30)	15 (57)	1-1/4"	B-37F	B-37S
	50 (3.40)	6.0 (1.36)	1/2	8 (30)	15 (57)	1-1/4"	B-37F	B-37S
5.0 gpm (1.14 m <sup>3</sup> /h) or 2,500 PPH (1134 kg/h)	60 (4.08)	6.0 (1.36)	1	8 (30)	15 (57)	1-1/4"	B-39F	B-39S
	10 (0.68)	10.0 (2.27)	1/4	8 (30)	15 (57)	1"	B-26F	B-26S
	15 (1.02)	10.0 (2.27)	1/3	8 (30)	15 (57)	1"	B-27F	B-27S
	20 (1.36)	10.0 (2.27)	1/3	8 (30)	15 (57)	1"	B-27F	B-27S
	30 (2.04)	10.0 (2.27)	1/2	8 (30)	15 (57)	1"	B-29F	B-29S
	40 (2.72)	10.0 (2.27)	3/4	8 (30)	15 (57)	1-1/4"	B-38F	B-38S
7.5 gpm (1.70 m <sup>3</sup> /h) or 3,750 PPH (1701 kg/h)	50 (3.40)	10.0 (2.27)	3/4	8 (30)	15 (57)	1-1/4"	B-38F	B-38S
	60 (4.08)	10.0 (2.27)	1-1/2	8 (30)	15 (57)	1-1/4"	B-61F	B-61S
	10 (0.68)	15.0 (3.41)	1/3	15 (57)	15 (57)	1-1/4"	B-23F	B-23S
	15 (1.02)	15.0 (3.41)	1/2	15 (57)	15 (57)	1-1/4"	B-25F	B-25S
	20 (1.36)	15.0 (3.41)	1/2	15 (57)	15 (57)	1-1/4"	B-25F	B-25S
	30 (2.04)	15.0 (3.41)	3/4	15 (57)	15 (57)	1-1/4"	B-48F	B-48S
10.0 gpm (2.27 m <sup>3</sup> /h) or 5,000 PPH (2268 kg/h)	40 (2.72)	15.0 (3.41)	1	15 (57)	15 (57)	1-1/4"	B-50F	B-50S
	50 (3.40)	15.0 (3.41)	1-1/2	15 (57)	15 (57)	1-1/4"	B-62F	B-62S
	60 (4.08)	15.0 (3.41)	2	15 (57)	15 (57)	1-1/4"	B-68F	B-68S
	10 (0.68)	20.0 (4.54)	1/2	15 (57)	15 (57)	1-1/4"	B-2F	B-2S
	15 (1.02)	20.0 (4.54)	1/2	15 (57)	15 (57)	1-1/4"	B-2F	B-2S
	20 (1.36)	20.0 (4.54)	3/4	15 (57)	15 (57)	1-1/4"	B-3F	B-3S
15.0 gpm (3.41 m <sup>3</sup> /h) or 7,500 PPH (3402 kg/h)	30 (2.04)	20.0 (4.54)	1	15 (57)	15 (57)	1-1/4"	B-59F	B-59S
	40 (2.72)	20.0 (4.54)	1-1/2	15 (57)	15 (57)	1-1/4"	B-62F	B-62S
	50 (3.40)	20.0 (4.54)	2	15 (57)	15 (57)	1-1/2"	B-75F	B-75S
	10 (0.68)	30.0 (6.81)	3/4	23 (87)	23 (87)	1-1/4"	B-58F	B-58S
	15 (1.02)	30.0 (6.81)	3/4	23 (87)	23 (87)	1-1/4"	B-58F	B-58S
	20 (1.36)	30.0 (6.81)	3/4	23 (87)	23 (87)	1-1/4"	B-58F	B-58S
17.5 gpm (3.97 m <sup>3</sup> /h) or 8,750 PPH (3969 kg/h)	30 (2.04)	30.0 (6.81)	1-1/2	23 (87)	23 (87)	1-1/2"	B-74F	B-74S
	40 (2.72)	30.0 (6.81)	1-1/2	23 (87)	23 (87)	1-1/2"	B-74F	B-74S
	10 (0.68)	35.0 (7.95)	3/4	23 (87)	23 (87)	1-1/2"	B-70F	B-70S
	15 (1.02)	35.0 (7.95)	1	23 (87)	23 (87)	1-1/2"	B-72F	B-72S
20.0 gpm (4.54 m <sup>3</sup> /h) or 10,000 PPH (4536 kg/h)	20 (1.36)	35.0 (7.95)	1	23 (87)	23 (87)	1-1/2"	B-72F	B-72S
	30 (2.04)	35.0 (7.95)	2	23 (87)	23 (87)	1-1/2"	B-78F	B-78S
	10 (0.68)	40.0 (9.08)	3/4	35 (132)	35 (132)	1-1/2"	B-80F	B-80S
	15 (1.02)	40.0 (9.08)	1	35 (132)	35 (132)	1-1/2"	B-82F	B-82S
25.0 gpm (5.68 m <sup>3</sup> /h) or 12,500 PPH (5670 kg/h)	20 (1.36)	40.0 (9.08)	1	35 (132)	35 (132)	1-1/2"	B-82F	B-82S
	30 (2.04)	40.0 (9.08)	2	35 (132)	35 (132)	1-1/2"	B-90F	B-90S
	10 (0.68)	50.0 (11.36)	1	35 (132)	35 (132)	1-1/2"	B-87F	B-87S
30.0 gpm (6.81 m <sup>3</sup> /h) or 15,000 PPH (8304 kg/h)	15 (1.02)	50.0 (11.36)	1-1/2	35 (132)	35 (132)	1-1/2"	B-89F	B-89S
	20 (1.36)	50.0 (11.36)	1-1/2	35 (132)	35 (132)	1-1/2"	B-89F	B-89S
	10 (0.68)	60.0 (13.63)	1-1/2	50 (189)	50 (189)	1-1/2"	B-94F	B-94S
	15 (1.02)	60.0 (13.63)	2	50 (189)	50 (189)	1-1/2"	B-96F	B-96S
	20 (1.36)	60.0 (13.63)	2	50 (189)	50 (189)	1-1/2"	B-96F	B-96S

Dimensions and specifications are subject to change without notice. Consult factory for certified dimensions.



P.O.Box 27, Peru, Indiana 46970-0027 U.S.A.  
 Phone: 765-473-6651 • Internet: www.bryanboilers.com  
 Fax: 765-473-3074 • E-mail: bryanboilers@iquest.net