1H99-1R7

ROTH PUMP COMPANY

STEAM CONDENSATE RETURN STATIONS

THE ROTH PUMP SOLUTION PROVIDES:

- Lowest NPSHr
- Lowest Motor Speeds
- Lower Tank Heights
- No Mechanical Seal Below Water Line

Roth Condensate Return Solutions

Why Roth Condensate Return Stations?

Roth Pump Company offers a variety of condensate return stations for improving the operation and efficiency of heating systems. 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 Roth Condensate Return Stations as the return unit, this problem is overcome because they are designed to eliminate cavitation at higher temperatures. In addition Roth Condensate Return Stations are designed to handle the higher load placed on it during a cold start. Roth Condensate Return Stations eliminate boiler system problems and continue to provide the efficient return of hot condensate to the boiler or feed water system.

Roth Condensate Return Stations are supplied with reliable pumps that are designed to handle hotter water and develop higher pressures at lower speeds. These Stations are ideal for remote or non-accessible locations where unattended, dependable performance is essential.

This bulletin is intended to help you select the right Roth Condensate Return Station for your particular application. Our sales and engineering staff is prepared to help you in selecting the right unit or discussing special requirements. Please call us toll free at 1-888-444-ROTH.

Roth Condensate Return Station Features

Roth offers a variety of Condensate Return Stations ranging from small efficient units, to large high temperature units for the most demanding applications. Every Roth Condensate Return Station has the following features:

CONSTRUCTION

Roth Condensate Return Stations can be supplied for either simplex or duplex operation. Simplex units, ordered with larger receivers, can be converted to duplex operation in the field if an upgrade is required. Users can specify either cast iron receivers with capacities ranging from 8 to 50 gallons *(30 to 189 liters)* or 3/16 inch *(4.8 mm)* steel *(carbon steel or stainless steel)* receivers with receiver capacities ranging from 8 to 320 gallons *(30 to 1211 liters)*. A safety reserve is provided in these capacities to handle water at up to 10psi *(0.68 bar)* above the selected discharge pressure. Safety venting to the atmosphere is standard.

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

Roth units are supplied with an internal pump that operates at 1750 RPM. Pumps 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. If condensate is pumped directly to the boiler, this feature provides a more continuous flow.

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 15 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. Optional electrical equipment supplied with Roth Condensate Return Stations include starters, switches and/or alternators. All electrical equipment has been selected from electrical suppliers that have wide distribution and field service networks. Underwriters Laboratories Listed Industrial Control Panels are available on request.

Selecting the Roth Condensate Return Station for Your Application

Determine Your Application Requirements:

Temperature: ˚F or ˚C _____
Condensate Rate:
lb/hr or kg/hr _____
or
GPM or m^3/hr _____
Pump Rate*:
GPM or m^3/hr _____
Receiver Capacity:
Gallons or Liters _____
*Roth calculates Pump Rate at 2.0 times Condensate Rate.

How to Order

1. Knowing temperature, condensate rate, pump rate, and receiver capacity use the selection table (below) to determine the condensate return station for your application.
2. Determine simplex or duplex operation.
3. Determine if steel *(carbon steel or stainless steel)* or cast iron receiver is required.
4. Identify voltage and phase.
5. Select optional equipment: Control panel (Standard or U.L.), Electrical options, Motor enclosure, Thermometers, Pressure gauges, & Certified drawings
6. Call Roth (1-888-444-ROTH) or your local Roth Representative for price and delivery information.

Selection Table

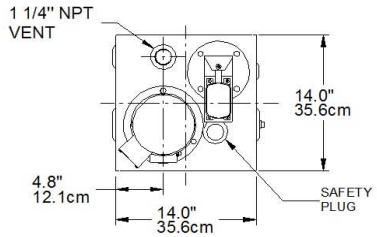
Temperature:	to 200˚F (93˚C)		
Condensate Rate:	to 30 GPM (6.8 m^3/hr) or to 15,000 lb/hr (6804 kg/hr)		
Pump Rate:	to 60 GPM (13.6 m^3/hr)		
Discharge Rate:	10 - 60 psig (0.68 - 4.08 bar) depending on pump rate		
Receiver Capacity:	to 50 Gallons (189 Liters)	to 110 Gallons (416 Liters)	to 130 Gallons (492 Liters)
Use:	Standard Condensate Return Station (page 4)	Underground Station (page 8)	Peak Condensate Return Station (page 6)

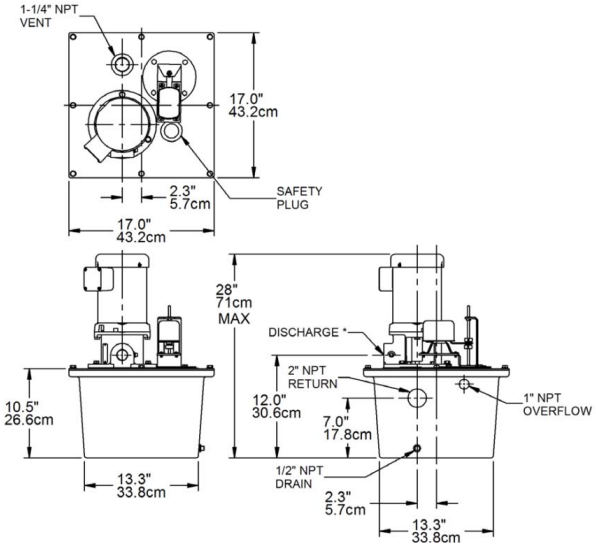
Temperature:	to 212˚F (100˚C)	
Condensate Rate:	to 50 GPM (11.4 m^3/hr) or 25,000 lb/hr (11340 kg/hr)	to 75 GPM (17.0 m^3/hr) or 37,500 lb/hr (17010 kg/hr)
Pump Rate:	to 100 GPM (22.7 m^3/hr)	to 150 GPM (34.1 m^3/hr)
Discharge Rate:	to 75 psig (5.10 bar)	
Receiver Capacity:	to 130 Gallons (492 Liters)	to 320 Gallons (1211 Liters)
Use:	212˚F (100˚C) Condensate Return Station (page10)	212˚F (100˚C) Underground Station (page12)

Temperature:	to 250˚F (121˚C)
Condensate Rate:	to 75 GPM (17.0 m^3/hr) or 37,500 lb/hr (17464 kg/hr)
Pump Rate:	to 150 GPM (34.1 m^3/hr)
Discharge Rate:	to 75 psig (5.10 bar)
Receiver Capacity:	to 320 Gallons (1211 Liters)
Use:	250˚F (121˚C) Underground Station (page 14)

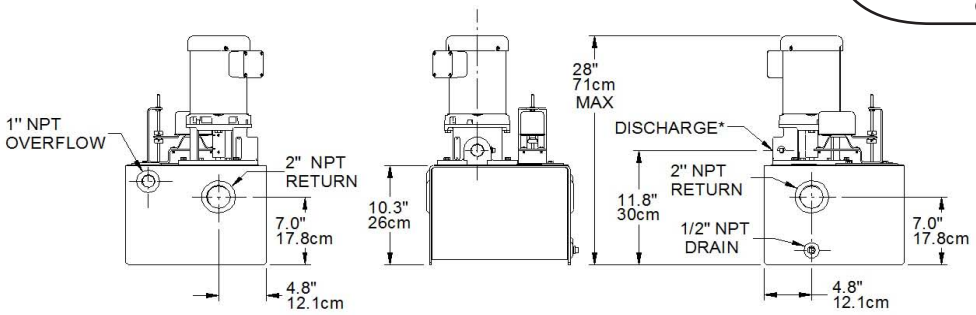
Standard Condensate Return Stations

Roth Standard Steam Condensate Return Stations are the most popular and meet most water applications. These units will deliver hot water at temperatures up to 200 ° F (93 ° C) and will not vapor bind at 210 ° F (98 ° C). Receiver capacities to 50 gallons (189 liters) can be supplied on these units.





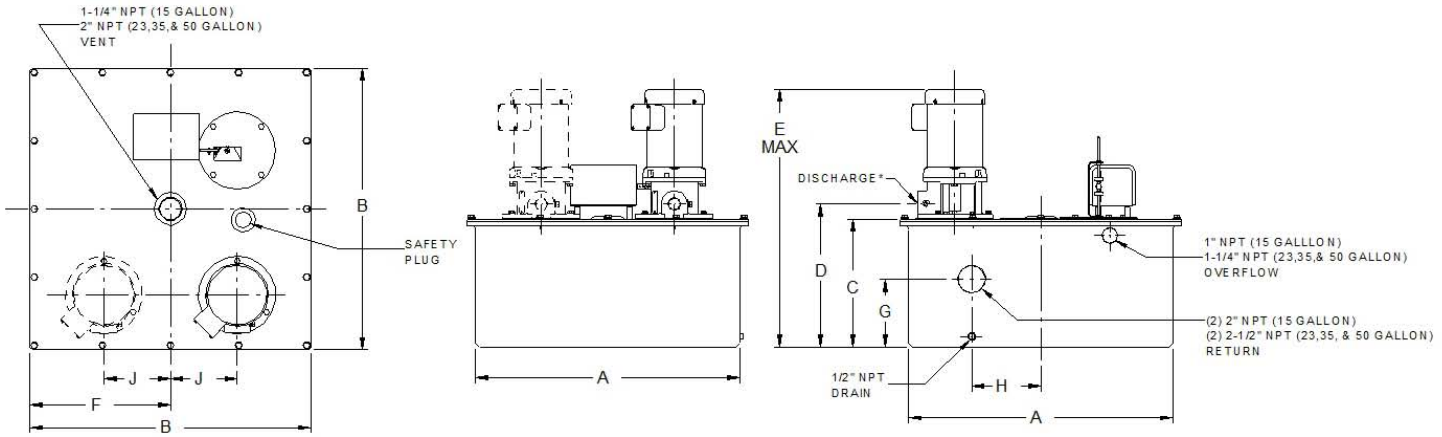
DIMENSIONS FOR 8 GALLON (30 L) CAST IRON RECEIVERS *inches (cm)*



DIMENSIONS FOR 8 GALLON (30 L) STEEL RECEIVERS *inches (cm)*

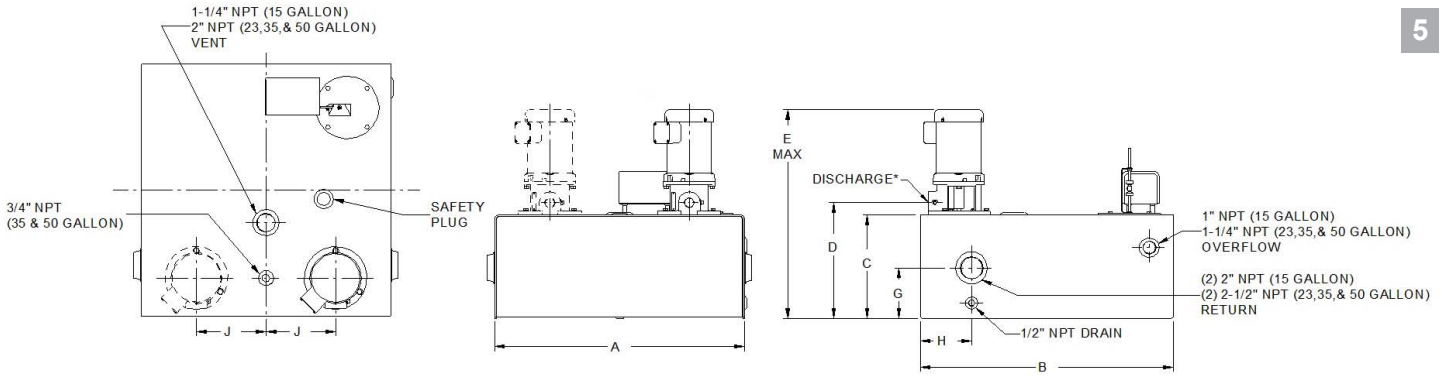
Preliminary Outline Drawings
(Foundation data, not to be used for piping unless certified.)

NOTE: All receivers must be vented to the atmosphere, not a pressure vessel.



DIMENSIONS FOR 15, 23, 35, AND 50 GALLON (57, 87, 132, 189 L) CAST IRON RECEIVERS *inches (cm)*

Receiver Capacity Gallons (L)	A	B	C	D	E	F	G	H	J
15 (57)	18.8 (47.8)	22.5 (57.2)	10.5 (26.6)	12.1 (30.6)	31 (79)	11.3 (28.6)	7 (17.8)	4.5 (11.4)	5.5 (14)
23 (87)	22.1 (56.2)	24 (61)	13.2 (33.5)	14.8 (37.5)	34 (86)	12 (30.1)	7 (17.8)	4.6 (11.6)	6.4 (16.2)
35 (132)	27.3 (69.2)	29 (73.7)	13.2 (33.5)	14.8 (37.5)	34 (86)	14.5 (36.8)	7 (17.8)	7.1 (18.1)	6.9 (17.5)
50 (189)	31.8 (80.6)	33.5 (85.1)	13.2 (33.5)	14.8 (37.5)	34 (86)	16.8 (42.5)	7 (17.8)	9.4 (23.8)	7.9 (20)



DIMENSIONS FOR 15, 23, 35, AND 50 GALLON (57, 87, 132, 189 L) STEEL RECEIVERS *inches (cm)*

Receiver Capacity Gallons (L)	A	B	C	D	E	G	H	J
15 (57)	20 (50.8)	18 (45.7)	10.3 (26)	11.8 (30)	31 (79)	7 (17.8)	4.5 (11.4)	5.5 (14)
23 (87)	22.5 (57.2)	22.9 (58.1)	13.1 (33.3)	14.7 (37.3)	34 (86)	6.4 (16.4)	6.5 (16.5)	5.8 (14.6)
35 (132)	27.6 (70.2)	28 (71.1)	13.1 (33.3	14.7 (37.3)	34 (86)	6.4 (16.4)	6.5 (16.5)	6.8 (17.3)
50 (189)	31.6 (80.3)	32 (81.3)	13.1 (33.3)	14.7 (37.3)	34 (86)	6.4 (16.4)	6.5 (16.5)	8.8 (22.4)

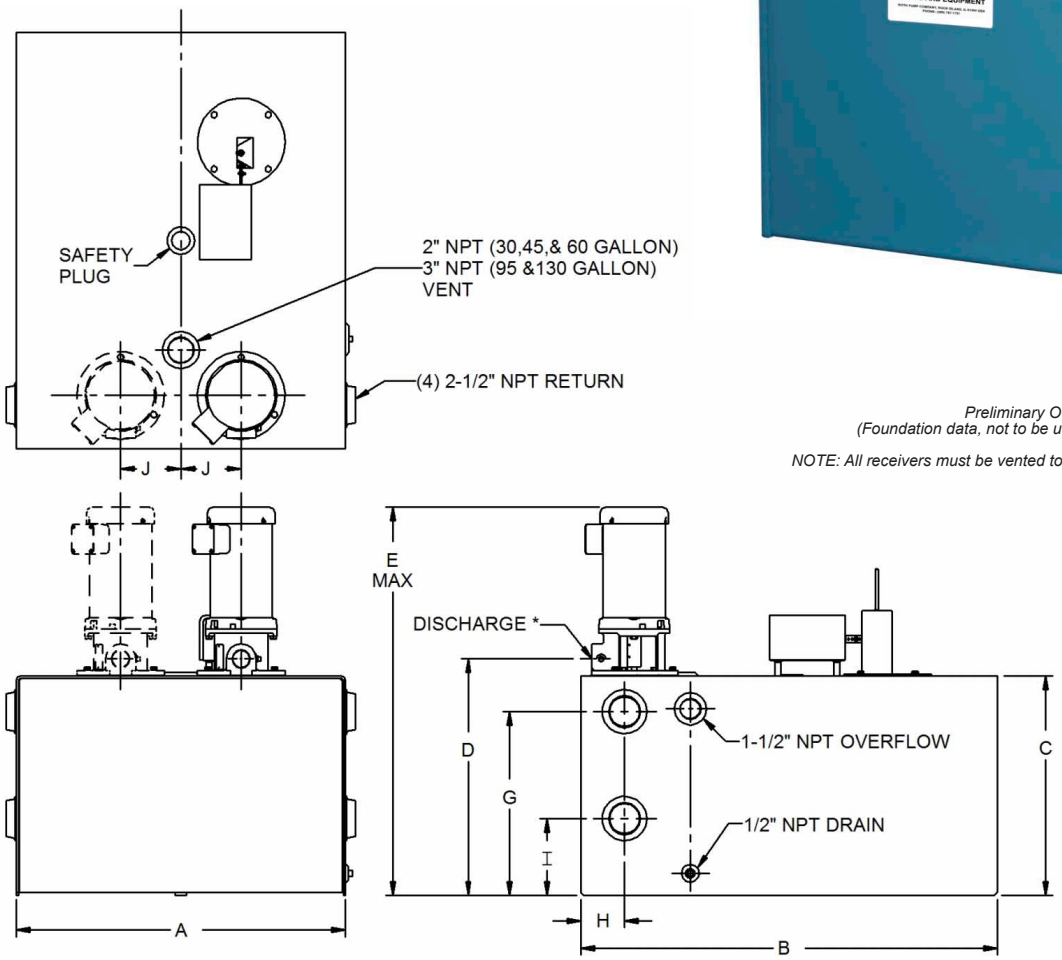
Selection Table - Standard Condensate Return

Condensate Rate	Pump Discharge Pressure psig (bar)	Minimum Pump GPM m³/hr)	Motor H.P.	Receiver Gal. (L)	Pump Discharge Size NPT	Unit Number	
						Cast Iron Receiver	Steel Receiver
3.0 GPM (0.68 m³/hr) or 1500 lb/hr (680 kg/hr)	10 (0.68)	6 (1.36)	1/4	8 (30)	1”	6F	6S
	15 (1.02)	6 (1.36)	1/4	8 (30)	1”	6F	6S
	20 (1.36)	6 (1.36)	1/4	8 (30)	1”	6F	6S
	30 (2.04)	6 (1.36)	1/3	8 (30)	1”	9F	9S
	40 (2.72)	6 (1.36)	1/2	8 (30)	1-1/4”	37F	37S
	50 (3.40)	6 (1.36)	1/2	8 (30)	1-1/4”	37F	37S
	60 (4.08)	6 (1.36)	1	8 (30)	1-1/4”	39F	39S
5.0 GPM (1.14 m³/hr) or 2500 lb/hr (1134 kg/hr)	10 (0.68)	10 (2.27)	1/4	8 (30)	1”	26F	26S
	15 (1.02)	10 (2.27)	1/3	8 (30)	1”	27F	27S
	20 (1.36)	10 (2.27)	1/3	8 (30)	1”	27F	27S
	30 (2.04)	10 (2.27)	1/2	8 (30)	1”	29F	29S
	40 (2.72)	10 (2.27)	3/4	8 (30)	1-1/4”	38F	38S
	50 (3.40)	10 (2.27)	3/4	8 (30)	1-1/4”	38F	38S
	60 (4.08)	10 (2.27)	1-1/2	8 (30)	1-1/4”	61F	61S
10.0 GPM (2.27 m³/hr) or 5000 lb/hr (2268 kg/hr)	10 (0.68)	20 (4.54)	1/2	15 (57)	1-1/4”	2F	2S
	15 (1.02)	20 (4.54)	1/2	15 (57)	1-1/4”	2F	2S
	20 (1.36)	20 (4.54)	3/4	15 (57)	1-1/4”	3F	3S
	30 (2.04)	20 (4.54)	1	15 (57)	1-1/4”	59F	59S
	40 (2.72)	20 (4.54)	1-1/2	15 (57)	1-1/4”	62F	62S
	50 (3.40)	20 (4.54)	2	15 (57)	1-1/2”	75F	75S
15.0 GPM (3.41 m³/hr) or 7500 lb/hr (3402 kg/hr)	10 (0.68)	30 (6.81)	3/4	23 (87)	1-1/4”	58F	58S
	15 (1.02)	30 (6.81)	3/4	23 (87)	1-1/4”	58F	58S
	20 (1.36)	30 (6.81)	3/4	23 (87)	1-1/4”	58F	58S
	30 (2.04)	30 (6.81)	1-1/2	23 (87)	1-1/2”	74F	74S
	40 (2.72)	30 (6.81)	1-1/2	23 (87)	1-1/2”	74F	74S
20.0 GPM (4.54 m³/hr) or 10000 lb/hr (4536 kg/hr)	10 (0.68)	35 (7.95)	3/4	35 (132)	1-1/2”	80F	80S
	15 (1.02)	35 (7.95)	1	35 (132)	1-1/2”	82F	82S
	20 (1.36)	35 (7.95)	1	35 (132)	1-1/2”	82F	82S
	30 (2.04)	35 (7.95)	2	35 (132)	1-1/2”	90F	90S
25.0 GPM (5.68 m³/hr) or 12500 lb/hr (5670 kg/hr)	10 (0.68)	50 (11.36)	1	35 (132)	1-1/2”	87F	87S
	15 (1.02)	50 (11.36)	1-1/2	35 (132)	1-1/2”	89F	89S
	20 (1.36)	50 (11.36)	1-1/2	35 (132)	1-1/2”	89F	89S
30.0 GPM (6.81 m³/hr) or 15000 lb/hr (8304 kg/hr)	10 (0.68)	60 (13.63)	1-1/2	50 (189)	1-1/2”	94F	94S
	15 (1.02)	60 (13.63)	2	50 (189)	1-1/2”	96F	96S
	20 (1.36)	60 (13.63)	2	50 (189)	1-1/2”	96F	96S

Note: Stainless Steel Receivers Available Consult Factory

Peak Condensate Return Stations

Roth Peak Condensate Return Stations have the same specifications as standard condensate return stations but have larger receiver capacities. These units will deliver hot water at temperatures up to 200°F (98˚C). Receiver capacities to 130 gallons (492 liters) can be supplied on these units.



Preliminary Outline Drawings
(Foundation data, not to be used for piping unless certified.)

NOTE: All receivers must be vented to the atmosphere, not a pressure vessel.

DIMENSIONS FOR 30, 45, 60, 95, & 130 Gallon (114, 170, 227,360, & 492 L) STEEL RECEIVERS *inches (cm)*

Receiver Capacity Gallons (L)	A	B	C	D	E	G	H	I	J
30 (114)	20 (50.8)	18 (45.7)	20 (50.8)	21.6 (54.8)	41 (104)	16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)
45 (170)	24 (61)	22.5 (57.2)	20 (50.8)	21.6 (54.8)	41 (104)	16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)
60 (227)	24 (61)	30 (76.2)	20 (50.8)	21.6 (54.8)	41 (104)	16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)
95 (360)	30 (76.2)	38 (96.5)	20 (50.8)	21.6 (54.8)	41 (104)	16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)
130 (492)	30 (76.2)	34 (86.4)	30 (76.2)	31.6 (80.2)	51 (130)	24 (61)	4 (10.2)	7 (17.8)	5.5 (14)

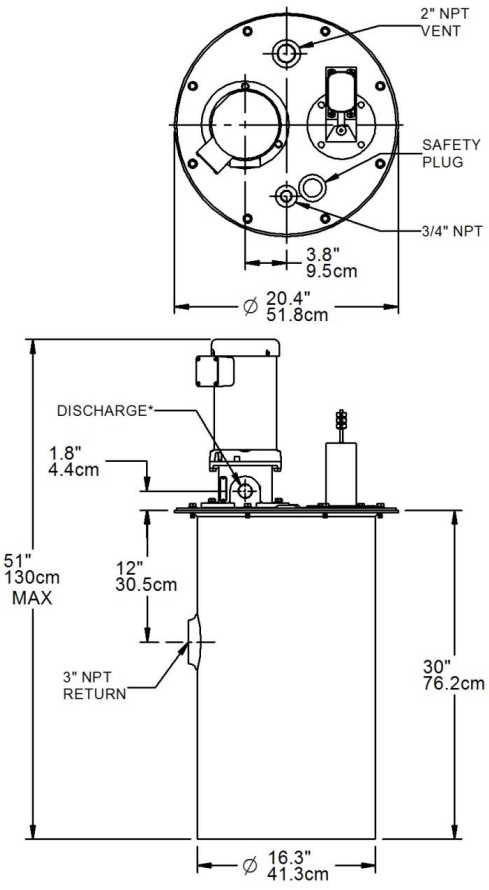
Selection Table 2 - Peak Condensate Return Stations

Condensate Rate	Pump Discharge Pressure psig (bar)	Minimum Pump GPM m³/hr)	Motor H.P.	Receiver Gal. (L)	Pump Discharge Size NPT	Unit Number Steel Receiver
3.0 GPM (0.68 m³/hr) or 1500 lb/hr (680 kg/hr)	10 (0.68)	6 (1.36)	1/4	30 (114)	1”	6P
	15 (1.02)	6 (1.36)	1/4	30 (114)	1”	6P
	20 (1.36)	6 (1.36)	1/4	30 (114)	1”	6P
	30 (2.04)	6 (1.36)	1/3	30 (114)	1”	9P
	40 (2.72)	6 (1.36)	1/2	30 (114)	1-1/4”	37P
	50 (3.40)	6 (1.36)	1/2	30 (114)	1-1/4”	37P
	60 (4.08)	6 (1.36)	1	30 (114)	1-1/4”	39P
5.0 GPM (1.14 m³/hr) or 2500 lb/hr (1134 kg/hr)	10 (0.68)	10 (2.27)	1/4	30 (114)	1”	26P
	15 (1.02)	10 (2.27)	1/3	30 (114)	1”	27P
	20 (1.36)	10 (2.27)	1/3	30 (114)	1”	27P
	30 (2.04)	10 (2.27)	1/2	30 (114)	1”	29P
	40 (2.72)	10 (2.27)	3/4	30 (114)	1-1/4”	38P
	50 (3.40)	10 (2.27)	3/4	30 (114)	1-1/4”	38P
	60 (4.08)	10 (2.27)	1-1/2	30 (114)	1-1/4”	61P
10.0 GPM (2.27 m³/hr) or 5000 lb/hr (2268 kg/hr)	10 (0.68)	20 (4.54)	1/2	30 (114)	1-1/4”	2P
	15 (1.02)	20 (4.54)	1/2	30 (114)	1-1/4”	2P
	20 (1.36)	20 (4.54)	3/4	30 (114)	1-1/4”	3P
	30 (2.04)	20 (4.54)	1	30 (114)	1-1/4”	59P
	40 (2.72)	20 (4.54)	1-1/2	30 (114)	1-1/4”	62P
	50 (3.40)	20 (4.54)	2	30 (114)	1-1/2”	75P
15.0 GPM (3.41 m³/hr) or 7500 lb/hr (3402 kg/hr)	10 (0.68)	30 (6.81)	3/4	45 (170)	1-1/4”	58P
	15 (1.02)	30 (6.81)	3/4	45 (170)	1-1/4”	58P
	20 (1.36)	30 (6.81)	3/4	45 (170)	1-1/4”	58P
	30 (2.04)	30 (6.81)	1-1/2	45 (170)	1-1/2”	74P
	40 (2.72)	30 (6.81)	1-1/2	45 (170)	1-1/2”	74P
20.0 GPM (4.54 m³/hr) or 10000 lb/hr (4536 kg/hr)	10 (0.68)	40 (9.08)	3/4	60 (227)	1-1/2”	80P
	15 (1.02)	40 (9.08)	1	60 (227)	1-1/2”	82P
	20 (1.36)	40 (9.08)	1	60 (227)	1-1/2”	82P
	30 (2.04)	40 (9.08)	2	60 (227)	1-1/2”	90P
25.0 GPM (5.68 m³/hr) or 12500 lb/hr (5670 kg/hr)	10 (0.68)	50 (11.36)	1	95 (360)	1-1/2”	87P
	15 (1.02)	50 (11.36)	1-1/2	95 (360)	1-1/2”	89P
	20 (1.36)	50 (11.36)	1-1/2	95 (360)	1-1/2”	89P
30.0 GPM (6.81 m³/hr) or 15000 lb/hr (8304 kg/hr)	10 (0.68)	60 (13.63)	1-1/2	130 (492)	1-1/2”	94P
	15 (1.02)	60 (13.63)	2	130 (492)	1-1/2”	96P
	20 (1.36)	60 (13.63)	2	130 (492)	1-1/2”	96P

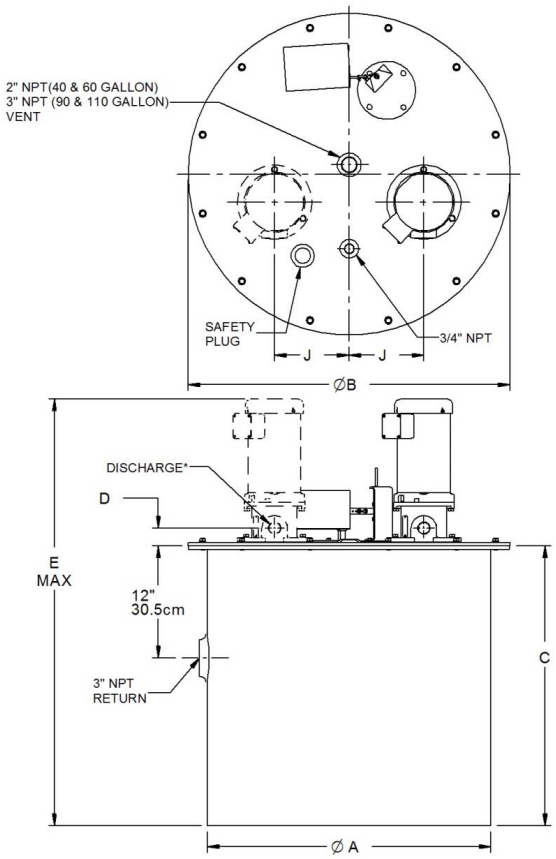
Note:
Stainless Steel Receivers Available Consult Factory

Underground Condensate Return Stations

Roth Underground Condensate Return Stations have the same specifications as standard transfer stations but are designed for use in underground or between floor applications. The unique Roth pump design delivers specified pressure at 1750 RPM without using large diameter pump casings or special piping inside the sump. These units will deliver hot water at temperatures up to 200° F (93° C) and will not vapor bind at 210° F (98° C). Receiver capacities to 110 gallons (416 liters) can be supplied on these units. Receivers are cylindrical with relatively small diameters, allowing easy moving through construction sites and easy installation.



DIMENSIONS FOR 26 GALLON (98 L) STEEL RECEIVERS
inches (cm)



DIMENSIONS FOR 40, 60, 90, & 110 GALLON (151, 227, 341, & 416 L) STEEL RECEIVERS ***inches (cm)***

Receiver Capacity Gallons (L)	A	B	C	D	E	J
40 (151)	20.3 (51.4)	24.3 (61.6)	30 (76.2)	1.8 (4.4)	51 (130)	4.3 (10.8)
60 (227)	24.4 (61.9)	28.4 (72.1)	30 (76.2)	1.8 (4.4)	51 (130)	5 (12.7)
90 (341)	30.4 (77.2)	34.5 (87.6)	30 (76.2)	1.9 (4.9)	51 (130)	8 (20.3)
110 (416)	30.4 (77.2)	34.5 (87.6)	36 (91.4)	1.9 (4.9)	57 (145)	8 (20.3)

Preliminary Outline Drawings
(Foundation data, not to be used for piping unless certified.)

NOTE: All receivers must be vented to the atmosphere, not a pressure vessel.

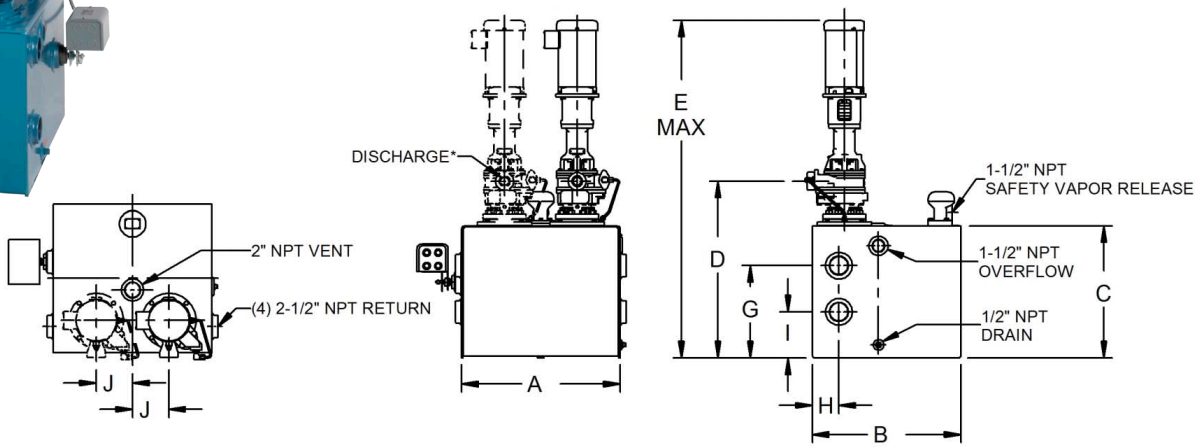
Selection Table 3 - Underground Condensate Return Stations

Condensate Rate	Pump Discharge Pressure psig (bar)	Minimum Pump GPM m³/hr)	Motor H.P.	Receiver Capacity		Pump Discharge Size NPT	Unit Number
				Simplex G (L)	Duplex G (L)		Steel Receiver
3.0 GPM (0.68 m³/hr) or 1500 lb/hr (680 kg/hr)	10 (0.68)	6 (1.36)	1/4	26 (98)	40 (151)	1”	SU111-610
	15 (1.02)	6 (1.36)	1/4	26 (98)	40 (151)	1”	SU111-615
	20 (1.36)	6 (1.36)	1/4	26 (98)	40 (151)	1”	SU111-620
	30 (2.04)	6 (1.36)	1/3	26 (98)	40 (151)	1”	SU113-630
	40 (2.72)	6 (1.36)	1/2	26 (98)	40 (151)	1”	SU163-640
	50 (3.40)	6 (1.36)	1/2	26 (98)	40 (151)	1”	SU163-650
	60 (4.08)	6 (1.36)	1	26 (98)	40 (151)	1”	SU145-660
5.0 GPM (1.14 m³/hr) or 2500 lb/hr (1134 kg/hr)	10 (0.68)	10 (2.27)	1/4	26 (98)	40 (151)	1”	SU116-1010
	15 (1.02)	10 (2.27)	1/3	26 (98)	40 (151)	1”	SU118-1015
	20 (1.36)	10 (2.27)	1/3	26 (98)	40 (151)	1”	SU118-1020
	30 (2.04)	10 (2.27)	1/2	26 (98)	40 (151)	1”	SU121-1030
	40 (2.72)	10 (2.27)	3/4	26 (98)	40 (151)	1”	SU143-1040
	50 (3.40)	10 (2.27)	3/4	26 (98)	40 (151)	1”	SU143-1050
	60 (4.08)	10 (2.27)	1-1/2	26 (98)	40 (151)	1”	SU172-1060
10.0 GPM (2.27 m³/hr) or 5000 lb/hr (2268 kg/hr)	10 (0.68)	20 (4.54)	1/2	40 (151)	40 (151)	1-1/4”	SU130-2010
	15 (1.02)	20 (4.54)	1/2	40 (151)	40 (151)	1-1/4”	SU130-2015
	20 (1.36)	20 (4.54)	3/4	40 (151)	40 (151)	1-1/4”	SU131-2020
	30 (2.04)	20 (4.54)	1	40 (151)	40 (151)	1-1/4”	SU157-2030
	40 (2.72)	20 (4.54)	1-1/2	40 (151)	40 (151)	1-1/4”	SU161-2040
	50 (3.40)	20 (4.54)	2	40 (151)	40 (151)	1-1/4”	SU186-3040
15.0 GPM (3.41 m³/hr) or 7500 lb/hr (3402 kg/hr)	10 (0.68)	30 (6.81)	3/4	60 (227)	60 (227)	1-1/4”	SU158-3010
	15 (1.02)	30 (6.81)	3/4	60 (227)	60 (227)	1-1/4”	SU158-3015
	20 (1.36)	30 (6.81)	3/4	60 (227)	60 (227)	1-1/4”	SU158-3020
	30 (2.04)	30 (6.81)	1-1/2	60 (227)	60 (227)	1-1/4”	SU184-3030
	40 (2.72)	30 (6.81)	1-1/2	60 (227)	60 (227)	1-1/4”	SU184-3040
20.0 GPM (4.54 m³/hr) or 10000 lb/hr (4536 kg/hr)	10 (0.68)	40 (9.08)	3/4	90 (341)	90 (341)	1-1/2”	SU189-4010
	15 (1.02)	40 (9.08)	1	90 (341)	90 (341)	1-1/2”	SU191-4015
	20 (1.36)	40 (9.08)	1	90 (341)	90 (341)	1-1/2”	SU191-4020
	30 (2.04)	40 (9.08)	2	90 (341)	90 (341)	1-1/2”	SU200-4030
25.0 GPM (5.68 m³/hr) or 12500 lb/hr (5670 kg/hr)	10 (0.68)	50 (11.36)	1	90 (341)	90 (341)	1-1/2”	SU196-5010
	15 (1.02)	50 (11.36)	1-1/2	90 (341)	90 (341)	1-1/2”	SU198-5015
	20 (1.36)	50 (11.36)	1-1/2	90 (341)	90 (341)	1-1/2”	SU198-5020
30.0 GPM (6.81 m³/hr) or 15000 lb/hr (8304 kg/hr)	10 (0.68)	60 (13.63)	1-1/2	110 (416)	110 (416)	1-1/2”	SU197-6010
	15 (1.02)	60 (13.63)	2	110 (416)	110 (416)	1-1/2”	SU203-6015
	20 (1.36)	60 (13.63)	2	110 (416)	110 (416)	1-1/2”	SU203-6020

Note:
Stainless Steel Receivers Available Consult Factory

212˚F Condensate Return Station

Roth 212°F (100°C) Condensate Return Stations are designed to handle water near or at the boiling point. Low NPSH submerged pumps provide full capacity at any liquid temperature up to 212°F (100°C). These units will deliver hot water at temperatures up to 212°F (100°C) and will not vapor bind at 212°F (100°C). Receiver capacities to 130 gallons (492 liters) can be supplied on these units.



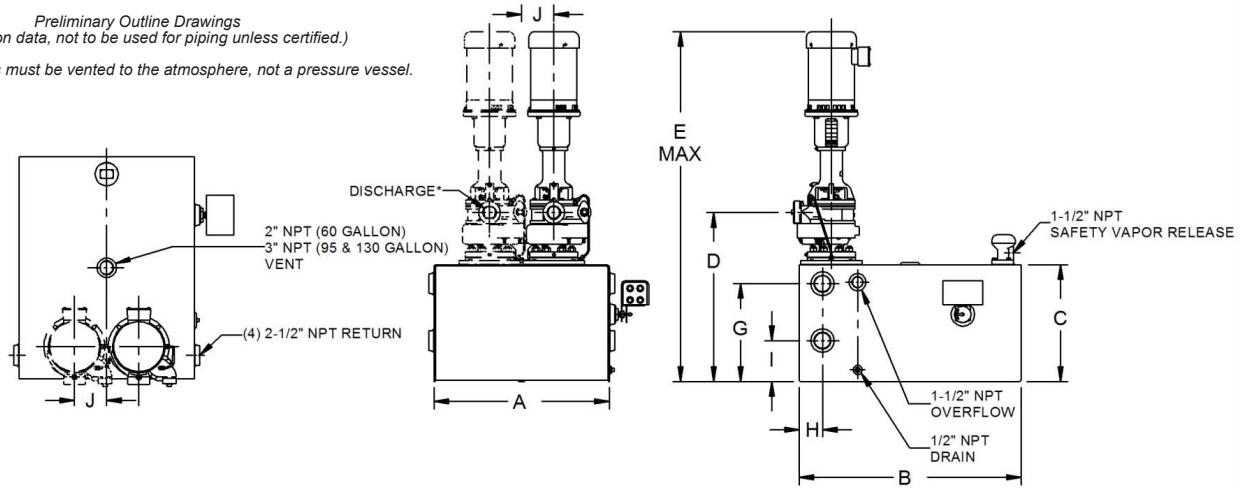
DIMENSIONS FOR 30 & 45 GALLON (114 & 170 L) STEEL RECEIVERS

inches (cm)

Receiver Capacity Gallons (L)	A	B	C	55 Series D	55 Series E	56 Series D	56 Series E	G	H	I	J
30 (114)	20 (50.8)	18 (45.7)	20 (50.8)	26.8 (68.1)	54 (137)	28.9 (73.4)	63 (160)	16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)
45 (170)	24 (61)	22.5 (57.2)	20 (50.8)	26.8 (68.1)	54 (137)	28.9 (73.4)	63 (160)	16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)

Preliminary Outline Drawings
(Foundation data, not to be used for piping unless certified.)

NOTE: All receivers must be vented to the atmosphere, not a pressure vessel.



DIMENSIONS FOR 60, 95, & 130 GALLON (227, 360, &492 L) STEEL RECEIVERS

inches (cm)

Receiver Capacity Gallons (L)	A	B	C	55 Series D	55 Series E	56 Series 3" Suction D	56 Series 3" Suction E	56 Series 4" Suction D	56 Series 4" Suction E	57 Series D	57 Series E	G	H	I	J
60 (227)	24 (61)	30 (76.2)	20 (50.8)	26.8 (68.1)	54 (137)	28.9 (73.4)	63 (160)					16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)
95 (360)	30 (76.2)	38 (96.5)	20 (50.8)	26.8 (68.1)	54 (137)	28.9 (73.4)	63 (160)					16.8 (42.5)	4 (10.2)	7 (17.8)	5.5 (14)
130 (492)	30 (76.2)	34 (86.4)	30 (76.2)	36.8 (93.5)	64 (163)	38.9 (98.8)	73 (185)	40.5 (102.9)	75 (190.5)	39 (99.1)	81 (206)	24 (61)	4 (10.2)	7 (17.8)	7.5 (19.1)

Selection Table 4 - 212˚F (100˚C) Condensate Return Stations

Condensate Rate	Pump Discharge Pressure psig (bar)	Minimum Pump GPM m³/hr)	Motor H.P.	Receiver Gal. (L)	Pump Series Group	Pump Discharge Size NPT	Unit Number Steel Receiver
3.0 GPM (0.68 m³/hr) or 1500 lb/hr (680 kg/hr)	10 (0.68)	6 (1.36)	3/4	30 (114)	55	1-1/4”	3LX
	15 (1.02)	6 (1.36)	3/4	30 (114)	55	1-1/4”	3LX
	20 (1.36)	6 (1.36)	3/4	30 (114)	55	1-1/4”	3LX
	30 (2.04)	6 (1.36)	3/4	30 (114)	55	1-1/4”	4LX
	40 (2.72)	6 (1.36)	1	30 (114)	55	1-1/4”	6LX
	50 (3.40)	6 (1.36)	1-1/2	30 (114)	55	1-1/4”	12LX
	60 (4.08)	6 (1.36)	1-1/2	30 (114)	55	1-1/4”	21LX
	75 (5.10)	6 (1.36)	1-1/2	30 (114)	55	2”	21LX
5.0 GPM (1.14 m³/hr) or 2500 lb/hr (1134 kg/hr)	10 (0.68)	10 (2.27)	3/4	30 (114)	55	1-1/4”	4LX
	15 (1.02)	10 (2.27)	3/4	30 (114)	55	1-1/4”	4LX
	20 (1.36)	10 (2.27)	3/4	30 (114)	55	1-1/4”	10LX
	30 (2.04)	10 (2.27)	1	30 (114)	55	1-1/4”	11LX
	40 (2.72)	10 (2.27)	1-1/2	30 (114)	55	1-1/4”	21LX
	50 (3.40)	10 (2.27)	1-1/2	30 (114)	55	1-1/4”	24LX
	60 (4.08)	10 (2.27)	2	30 (114)	55	1-1/4”	35LX
	75 (5.10)	10 (2.27)	2	30 (114)	56	2”	45LX
10.0 GPM (2.27 m³/hr) or 5000 lb/hr (2268 kg/hr)	10 (0.68)	20 (4.54)	1	45 (170)	55	1-1/4”	25LV
	15 (1.02)	20 (4.54)	1-1/2	45 (170)	55	1-1/4”	26LV
	20 (1.36)	20 (4.54)	1-1/2	45 (170)	55	1-1/4”	26LV
	30 (2.04)	20 (4.54)	1-1/2	45 (170)	55	1-1/4”	30LV
	40 (2.72)	20 (4.54)	2	45 (170)	55	1-1/4”	35LV
	50 (3.40)	20 (4.54)	3	45 (170)	55	1-1/4”	37LV
	60 (4.08)	20 (4.54)	3	45 (170)	55	1-1/4”	44LV
	75 (5.10)	20 (4.54)	3	45 (170)	56	2”	47LV
15.0 GPM (3.41 m³/hr) or 7500 lb/hr (3402 kg/hr)	10 (0.68)	30 (6.81)	1	60 (227)	55	1-1/4”	33LY
	15 (1.02)	30 (6.81)	1-1/2	60 (227)	55	1-1/4”	34LY
	20 (1.36)	30 (6.81)	1-1/2	60 (227)	55	1-1/4”	34LY
	30 (2.04)	30 (6.81)	3	60 (227)	55	1-1/4”	41LY
	40 (2.72)	30 (6.81)	3	60 (227)	55	1-1/4”	44LY
	50 (3.40)	30 (6.81)	5	60 (227)	56	2”	53LY
	60 (4.08)	30 (6.81)	5	60 (227)	56	2”	53LY
	75 (5.10)	30 (6.81)	7-1/2	60 (227)	56	2”	57LY
20.0 GPM (4.54 m³/hr) or 10000 lb/hr (4536 kg/hr)	10 (0.68)	40 (9.08)	1-1/2	95 (360)	55	1-1/4”	39LW
	15 (1.02)	40 (9.08)	2	95 (360)	56	2”	49LW
	20 (1.36)	40 (9.08)	3	95 (360)	56	2”	52LW
	30 (2.04)	40 (9.08)	5	95 (360)	56	2”	52LW
	40 (2.72)	40 (9.08)	5	95 (360)	56	2”	56LW
	50 (3.40)	40 (9.08)	5	95 (360)	56	2”	56LW
	60 (4.08)	40 (9.08)	7-1/2	95 (360)	56	2”	57LW
	75 (5.10)	40 (9.08)	7-1/2	95 (360)	56	2”	61LW
30.0 GPM (6.81 m³/hr) or 15000 lb/hr (8304 kg/hr)	10 (0.68)	60 (13.63)	3	130 (492)	56	2”	55LZ
	15 (1.02)	60 (13.63)	3	130 (492)	56	2”	55LZ
	20 (1.36)	60 (13.63)	3	130 (492)	56	2”	60LZ
	30 (2.04)	60 (13.63)	5	130 (492)	56	2”	58LZ
	40 (2.72)	60 (13.63)	7-1/2	130 (492)	56	2”	62LZ
	50 (3.40)	60 (13.63)	7-1/2	130 (492)	56	2”	62LZ
	60 (4.08)	60 (13.63)	7-1/2	130 (492)	56	2”	62LZ
	75 (5.10)	60 (13.63)	15	130 (492)	57	3”F	64LZ

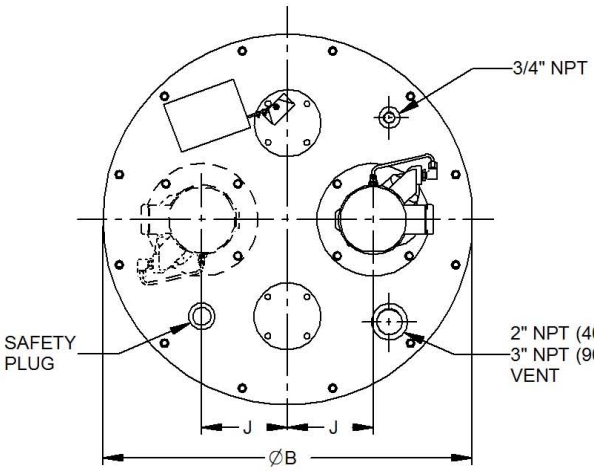
Note:
Stainless Steel Receivers Available Consult Factory

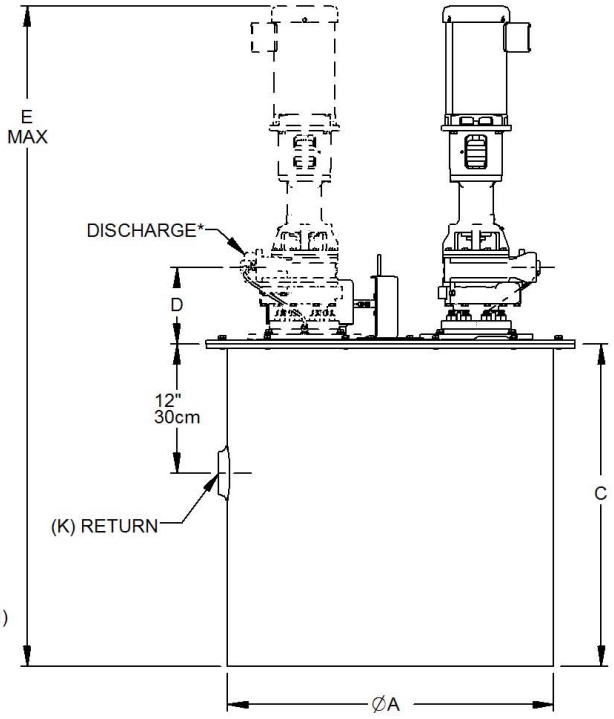
212˚F (100˚C) Underground Condensate Return Station

Roth 212°F (100°C) Underground Condensate Return Stations are designed to handle water near or at the boiling point. Low 1 foot (0.3 m) NPSH submerged pumps provide full capacity at any liquid temperature up to 212°F (100°C). These units will deliver hot water at temperatures up to 212°F (100°C) and will not vapor bind at 212°F (100°C). Discharge pressures of up to 75 psig (5.10 bar) can be achieved with these underground units. Steel receivers have capacities up to 320 gallons (1211 liters). This Roth underground unit is ideal for handling multiple source condensate returning at various temperature levels above and below the boiling point and where sub floor returns are essential to the structural design. These units eliminate the need for several local condensate stations to handle returns from various absorbers, kettles, hot presses, molds or unit heaters condensing at different temperatures.

Preliminary Outline Drawings
(Foundation data, not to be used for piping unless certified.)

NOTE: All receivers must be vented to the atmosphere, not a pressure vessel.





DIMENSIONS FOR 40, 90, 160, 240, & 320 GALLON (151, 341, 606, 908, & 1211 L) STEEL RECEIVERS
inches (cm)

Receiver Capacity Gallons (L)	A	B	C	55 Series D	55 Series E	56 Series 3" Suction D	56 Series 3" Suction E	56 Series 4" Suction D	56 Series 4" Suction E	57 Series D	57 Series E	J	K *NPT*
40 (151)	20.3 (51.4)	24.5 (62.2)	30 (76.2)	7.1 (18)	64 (163)							5.5 (14)	3
90 (341)	30.4 (77.2)	34.5 (87.6)	30 (76.2)	7.2 (18.3)	64 (163)	9.3 (23.6)	73 (185)					8 (20.3)	3
160 (606)	30.4 (77.2)	34.5 (87.6)	54 (137.2)	7.2 (18.3)	88 (224)	9.3 (23.6)	97 (246)	10.9 (27.7)	99 (251)	9.4 (23.9)	105 (267)	8 (20.3)	4
240 (908)	36.4 (92.4)	40 (101.6)	54 (137.2)	7.3 (18.5)	88 (224)	9.4 (23.9)	97 (246)	11 (27.9)	99 (251)	9.5 (24.1)	105 (267)	9.3 (23.5)	4
320 (1211)	42.4 (107.6)	46.5 (118.1)	54 (137.2)	7.3 (18.5)	88 (224)	9.4 (23.9)	97 (246)	11 (27.9)	99 (251)	9.5 (24.1)	105 (267)	10.3 (26)	4

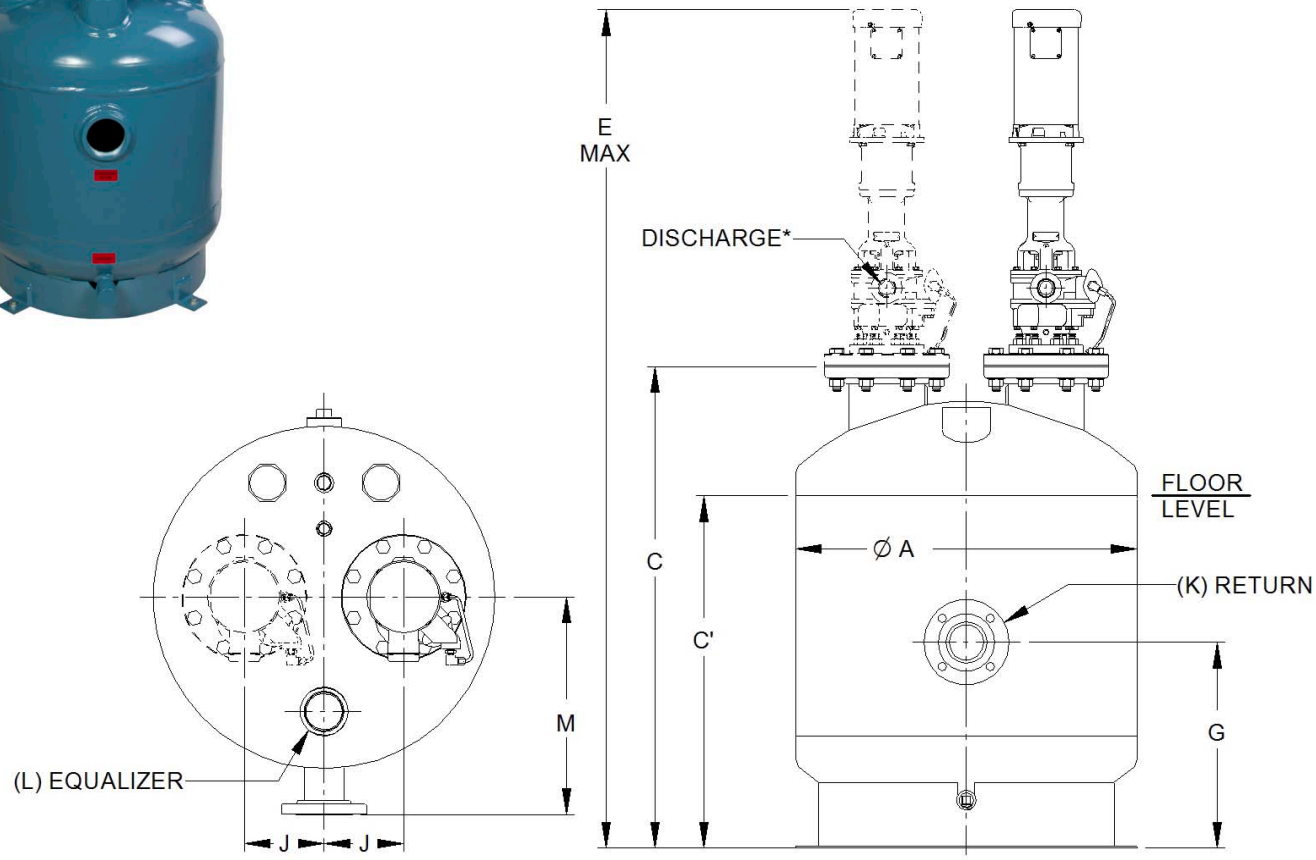
Selection Table 5 - 212˚F (100˚C) Underground

Condensate Rate	Pump Discharge Pressure psig (bar)	Minimum Pump GPM m³/hr)	Motor H.P.	Receiver Gal. (L)	Pump Discharge Size NPT	Unit Number Steel Receiver
3.0 GPM (0.68 m³/hr) or 1500 lb/hr (680 kg/hr)	10 (0.68)	6 (1.36)	3/4	40 (151)	1-1/4”	SC170
	15 (1.02)	6 (1.36)	3/4	40 (151)	1-1/4”	SC170
	20 (1.36)	6 (1.36)	3/4	40 (151)	1-1/4”	SC170
	30 (2.04)	6 (1.36)	3/4	40 (151)	1-1/4”	SC180
	40 (2.72)	6 (1.36)	1	40 (151)	1-1/4”	SC190
	50 (3.40)	6 (1.36)	1-1/2	40 (151)	1-1/4”	SC200
	60 (4.08)	6 (1.36)	1-1/2	40 (151)	1-1/4”	SC160
	75 (5.10)	6 (1.36)	1-1/2	40 (151)	1-1/4”	SC160
5.0 GPM (1.14 m³/hr) or 2500 lb/hr (1134 kg/hr)	10 (0.68)	10 (2.27)	3/4	40 (151)	1-1/4”	SC210
	15 (1.02)	10 (2.27)	3/4	40 (151)	1-1/4”	SC210
	20 (1.36)	10 (2.27)	3/4	40 (151)	1-1/4”	SC220
	30 (2.04)	10 (2.27)	1	40 (151)	1-1/4”	SC220
	40 (2.72)	10 (2.27)	1-1/2	40 (151)	1-1/4”	SC240
	50 (3.40)	10 (2.27)	1-1/2	40 (151)	1-1/4”	SC250
	60 (4.08)	10 (2.27)	2	40 (151)	1-1/4”	SC260
	75 (5.10)	10 (2.27)	2	40 (151)	1-1/4”	SC270
10.0 GPM (2.27 m³/hr) or 5000 lb/hr (2268 kg/hr)	10 (0.68)	20 (4.54)	1	40 (151)	1-1/4”	SC380
	15 (1.02)	20 (4.54)	1-1/2	40 (151)	1-1/4”	SC340
	20 (1.36)	20 (4.54)	1-1/2	40 (151)	1-1/4”	SC340
	30 (2.04)	20 (4.54)	1-1/2	40 (151)	1-1/4”	SC390
	40 (2.72)	20 (4.54)	2	40 (151)	1-1/4”	SC260
	50 (3.40)	20 (4.54)	3	40 (151)	1-1/4”	SC360
	60 (4.08)	20 (4.54)	3	40 (151)	1-1/4”	SC400
	75 (5.10)	20 (4.54)	3	40 (151)	1-1/2”	SC370
20.0 GPM (4.54 m³/hr) or 10000 lb/hr (4536 kg/hr)	10 (0.68)	40 (9.08)	1-1/2	90 (341)	1-1/4”	SF520
	15 (1.02)	40 (9.08)	2	90 (341)	2”	SF530
	20 (1.36)	40 (9.08)	3	90 (341)	2”	SF540
	30 (2.04)	40 (9.08)	5	90 (341)	2”	SF540
	40 (2.72)	40 (9.08)	5	90 (341)	2”	SF550
	50 (3.40)	40 (9.08)	5	90 (341)	2”	SF560
	60 (4.08)	40 (9.08)	7-1/2	90 (341)	2”	SF560
	75 (5.10)	40 (9.08)	7-1/2	90 (341)	2”	SF570
30.0 GPM (6.81 m³/hr) or 15000 lb/hr (8304 kg/hr)	10 (0.68)	60 (13.63)	3	160 (606)	2”	SG630
	15 (1.02)	60 (13.63)	3	160 (606)	2”	SG630
	20 (1.36)	60 (13.63)	3	160 (606)	2”	SG640
	30 (2.04)	60 (13.63)	5	160 (606)	2”	SG650
	40 (2.72)	60 (13.63)	7-1/2	160 (606)	2”	SG660
	50 (3.40)	60 (13.63)	7-1/2	160 (606)	2”	SG670
	60 (4.08)	60 (13.63)	7-1/2	160 (606)	2”	SG670
	75 (5.10)	60 (13.63)	15	160 (606)	3”F	SG680
40.0 GPM (9.08 m³/hr) or 20000 lb/hr (9072 kg/hr)	10 (0.68)	80 (18.17)	5	160 (606)	2”	SG690
	15 (1.02)	80 (18.17)	5	160 (606)	2”	SG690
	20 (1.36)	80 (18.17)	5	160 (606)	2”	SG690
	30 (2.04)	80 (18.17)	5	160 (606)	3”F	SG660
	40 (2.72)	80 (18.17)	7-1/2	160 (606)	3”F	SG670
	50 (3.40)	80 (18.17)	10	160 (606)	3”F	SG700
	60 (4.08)	80 (18.17)	10	160 (606)	3”F	SG680
	75 (5.10)	80 (18.17)	15	160 (606)	3”F	SG710
50.0 GPM (11.35 m³/hr) or 25000 lb/hr (11340 kg/hr)	10 (0.68)	100 (22.71)	7-1/2	240 (908)	3”F	SH740
	15 (1.02)	100 (22.71)	7-1/2	240 (908)	3”F	SH740
	20 (1.36)	100 (22.71)	7-1/2	240 (908)	3”F	SH740
	30 (2.04)	100 (22.71)	7-1/2	240 (908)	3”F	SH750
	40 (2.72)	100 (22.71)	15	240 (908)	3”F	SH760
	50 (3.40)	100 (22.71)	15	240 (908)	3”F	SH760
	60 (4.08)	100 (22.71)	15	240 (908)	3”F	SH770
	75 (5.10)	100 (22.71)	20	240 (908)	3”F	SH780
60.0 GPM (13.63 m³/hr) or 30000 lb/hr (13608 kg/hr)	10 (0.68)	120 (27.25)	10	240 (908)	3”F	SH790
	15 (1.02)	120 (27.25)	10	240 (908)	3”F	SH790
	20 (1.36)	120 (27.25)	10	240 (908)	3”F	SH790
	30 (2.04)	120 (27.25)	10	240 (908)	3”F	SH760
	40 (2.72)	120 (27.25)	15	240 (908)	3”F	SH810
	50 (3.40)	120 (27.25)	15	240 (908)	3”F	SH770
	60 (4.08)	120 (27.25)	15	240 (908)	3”F	SH770
	75 (5.10)	120 (27.25)	20	240 (908)	3”F	SH800
70.0 GPM (15.90 m³/hr) or 35500 lb/hr (15876 kg/hr)	10 (0.68)	140 (34.06)	10	320 (1211)	3”F	SJ820
	15 (1.02)	140 (34.06)	10	320 (1211)	3”F	SJ820
	20 (1.36)	140 (34.06)	15	320 (1211)	3”F	SJ830
	30 (2.04)	140 (34.06)	15	320 (1211)	3”F	SJ830
	40 (2.72)	140 (34.06)	15	320 (1211)	3”F	SJ830
	50 (3.40)	140 (34.06)	20	320 (1211)	3”F	SJ840
	60 (4.08)	140 (34.06)	20	320 (1211)	3”F	SJ850

Note:
Stainless Steel Receivers Available Consult Factory

250˚F (121˚C) Condensate Return Stations

Roth 250°F (121°C) Condensate Return Stations are designed to handle condensate that is above the boiling point. Low 1 foot (0.3 m) NPSH pumps provide full capacity at any liquid temperature up to 250°F (121°C). Discharge pressures of up to 75 psig (5.10 bar) can be achieved with these units. Dual pumps are supplied to control flow rates, needed for high volume returns. ASME receivers have capacities up to 320 gallons (1211 liters). This Roth unit is ideal for use with adsorption air conditioning equipment which normally condenses steam at temperatures above 230°F (110°C). These units are also found in high temperature applications in the food, paper, plastic and rubber industries.



Preliminary Outline Drawings
(Foundation data, not to be used for piping unless certified.)

DIMENSIONS FOR 40, 90, 160, 240, & 320 GALLON (151, 341, 606, 908, & 1211 L) STEEL RECEIVERS
inches (cm)

Receiver Capacity Gallons (L)	A	C	C'	E	G	J	K *FLANGE*	L *NPT*	M
40 (151)	20 (51)	40 (102)	30 (76)	74 (188)	18 (46)	6.3 (15.9)	3	2	14 (35.6)
90 (341)	30 (76)	42 (107)	30 (76)	85 (216)	18 (46)	7 (17.8)	3	3	19 (48.3)
160 (606)	30 (76)	66 (168)	54 (137)	117 (297)	42 (107)	7 (17.8)	4	3	19 (48.3)
240 (908)	36 (91)	68 (173)	54 (137)	119 (302)	42 (107)	10 (25.4)	4	4	22 (55.9)
320 (1211)	42 (107)	70 (178)	54 (137)	121 (307)	42 (107)	10 (25.4)	4	4	25 (63.5)

Selection Table 6 - 250˚F (121˚C) Condensate Return Stations

Condensate Rate	Pump Discharge Pressure psig (bar)	Minimum Pump GPM m³/hr)	Motor H.P.	Receiver Gal. (L)	Pump Discharge Size NPT	Unit Number Steel Receiver
3.0 GPM (0.68 m³/hr) or 1500 lb/hr (680 kg/hr)	10 (0.68)	6 (1.36)	3/4	40 (151)	1-1/4”	CU170
	15 (1.02)	6 (1.36)	3/4	40 (151)	1-1/4”	CU170
	20 (1.36)	6 (1.36)	3/4	40 (151)	1-1/4”	CU170
	30 (2.04)	6 (1.36)	3/4	40 (151)	1-1/4”	CU180
	40 (2.72)	6 (1.36)	1	40 (151)	1-1/4”	CU190
	50 (3.40)	6 (1.36)	1-1/2	40 (151)	1-1/4”	CU200
	60 (4.08)	6 (1.36)	1-1/2	40 (151)	1-1/4”	CU160
	75 (5.10)	6 (1.36)	1-1/2	40 (151)	1-1/4”	CU160
5.0 GPM (1.14 m³/hr) or 2500 lb/hr (1134 kg/hr)	10 (0.68)	10 (2.27)	3/4	40 (151)	1-1/4”	CU210
	15 (1.02)	10 (2.27)	3/4	40 (151)	1-1/4”	CU210
	20 (1.36)	10 (2.27)	3/4	40 (151)	1-1/4”	CU220
	30 (2.04)	10 (2.27)	1	40 (151)	1-1/4”	CU220
	40 (2.72)	10 (2.27)	1-1/2	40 (151)	1-1/4”	CU240
	50 (3.40)	10 (2.27)	1-1/2	40 (151)	1-1/4”	CU250
	60 (4.08)	10 (2.27)	2	40 (151)	1-1/4”	CU260
	75 (5.10)	10 (2.27)	2	40 (151)	1-1/4”	CU270
10.0 GPM (2.27 m³/hr) or 5000 lb/hr (2268 kg/hr)	10 (0.68)	20 (4.54)	1	40 (151)	1-1/4”	CU380
	15 (1.02)	20 (4.54)	1-1/2	40 (151)	1-1/4”	CU340
	20 (1.36)	20 (4.54)	1-1/2	40 (151)	1-1/4”	CU340
	30 (2.04)	20 (4.54)	1-1/2	40 (151)	1-1/4”	CU390
	40 (2.72)	20 (4.54)	2	40 (151)	1-1/4”	CU260
	50 (3.40)	20 (4.54)	3	40 (151)	1-1/4”	CU360
	60 (4.08)	20 (4.54)	3	40 (151)	1-1/4”	CU400
	75 (5.10)	20 (4.54)	3	40 (151)	2”	CU370
20.0 GPM (4.54 m³/hr) or 10000 lb/hr (4536 kg/hr)	10 (0.68)	40 (9.08)	1-1/2	90 (341)	1-1/4”	CU520
	15 (1.02)	40 (9.08)	2	90 (341)	2”	CU530
	20 (1.36)	40 (9.08)	3	90 (341)	2”	CU540
	30 (2.04)	40 (9.08)	5	90 (341)	2”	CU540
	40 (2.72)	40 (9.08)	5	90 (341)	2”	CU550
	50 (3.40)	40 (9.08)	5	90 (341)	2”	CU560
	60 (4.08)	40 (9.08)	7-1/2	90 (341)	2”	CU560
	75 (5.10)	40 (9.08)	7-1/2	90 (341)	2”	CU570
30.0 GPM (6.81 m³/hr) or 15000 lb/hr (8304 kg/hr)	10 (0.68)	60 (13.63)	3	160 (606)	2”	CU630
	15 (1.02)	60 (13.63)	3	160 (606)	2”	CU630
	20 (1.36)	60 (13.63)	3	160 (606)	2”	CU640
	30 (2.04)	60 (13.63)	5	160 (606)	2”	CU650
	40 (2.72)	60 (13.63)	7-1/2	160 (606)	2”	CU660
	50 (3.40)	60 (13.63)	7-1/2	160 (606)	2”	CU670
	60 (4.08)	60 (13.63)	7-1/2	160 (606)	2”	CU670
	75 (5.10)	60 (13.63)	15	160 (606)	2”	CU680
40.0 GPM (9.08 m³/hr) or 20000 lb/hr (9072 kg/hr)	10 (0.68)	80 (18.17)	5	160 (606)	2”	CU690
	15 (1.02)	80 (18.17)	5	160 (606)	2”	CU690
	20 (1.36)	80 (18.17)	5	160 (606)	2”	CU690
	30 (2.04)	80 (18.17)	5	160 (606)	2”	CU660
	40 (2.72)	80 (18.17)	7-1/2	160 (606)	2”	CU670
	50 (3.40)	80 (18.17)	10	160 (606)	2”	CU700
	60 (4.08)	80 (18.17)	10	160 (606)	2”	CU680
	75 (5.10)	80 (18.17)	15	160 (606)	2”	CU710
50.0 GPM (11.35 m³/hr) or 25000 lb/hr (11340 kg/hr)	10 (0.68)	100 (22.71)	7-1/2	240 (908)	3”F	CU740
	15 (1.02)	100 (22.71)	7-1/2	240 (908)	3”F	CU740
	20 (1.36)	100 (22.71)	7-1/2	240 (908)	3”F	CU740
	30 (2.04)	100 (22.71)	7-1/2	240 (908)	3”F	CU750
	40 (2.72)	100 (22.71)	15	240 (908)	3”F	CU760
	50 (3.40)	100 (22.71)	15	240 (908)	3”F	CU760
	60 (4.08)	100 (22.71)	15	240 (908)	3”F	CU770
	75 (5.10)	100 (22.71)	20	240 (908)	3”F	CU780
60.0 GPM (13.63 m³/hr) or 30000 lb/hr (13608 kg/hr)	10 (0.68)	120 (27.25)	10	240 (908)	3”F	CU790
	15 (1.02)	120 (27.25)	10	240 (908)	3”F	CU790
	20 (1.36)	120 (27.25)	10	240 (908)	3”F	CU790
	30 (2.04)	120 (27.25)	10	240 (908)	3”F	CU760
	40 (2.72)	120 (27.25)	15	240 (908)	3”F	CU810
	50 (3.40)	120 (27.25)	15	240 (908)	3”F	CU770
	60 (4.08)	120 (27.25)	15	240 (908)	3”F	CU770
	75 (5.10)	120 (27.25)	20	240 (908)	3”F	CU800
70.0 GPM (15.90 m³/hr) or 35500 lb/hr (15876 kg/hr)	10 (0.68)	140 (34.06)	10	320 (1211)	3”F	CU820
	15 (1.02)	140 (34.06)	10	320 (1211)	3”F	CU820
	20 (1.36)	140 (34.06)	15	320 (1211)	3”F	CU830
	30 (2.04)	140 (34.06)	15	320 (1211)	3”F	CU830
	40 (2.72)	140 (34.06)	15	320 (1211)	3”F	CU830
	50 (3.40)	140 (34.06)	20	320 (1211)	3”F	CU840
	60 (4.08)	140 (34.06)	20	320 (1211)	3”F	CU850

Note:
Stainless Steel Receivers Available Consult Factory

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