4800 SERIES
Condensate Units - Stainless Steel Tank

Technical Specifications

Sterlco® 4800 Series Condensate Return Units set new standards of performance. Reliable and efficient, each unit features heavy gauge, 3/16" stainless steel receivers for long operating life.

In addition, 3450 RPM motors assure maximum efficiency while maintaining minimum motor horsepower. Available in a wide range of sizes, these U.S. made units have just the right accessories and options to meet your unique needs.

Features

Standard Features

- Heavy gauge stainless steel receivers
- Simplex or duplex construction
- Stainless steel fitted centrifugal pumps
- Energy efficient 3450 RPM motors
- Automatic venting
- Carbon ceramic pump seal (300°F) with EPDM elastomers
- Heavy-duty float switch
- Wide range of options and accessories

Optional Features

- Mechanical and electric alternators for duplex units
- Gauge glass
- Thermometer
- Isolation valves
- Special motor construction, such as totally enclosed, washdown duty and explosion-proof is available
- 120 gallon and elevated tanks are available
- Complete NEMA 12 Control Panel

4800 SERIES

Product Features

Elevated Unit

Motors:
Heavy-duty, ball-bearing, close-coupled pump motors with stainless steel shaft. 3450 RPM for greater efficiency and more economical operation.

Float Switch:
Two-pole, drip proof case, stainless steel float and float rod, double-break silver-to-silver contacts. Float travel adjustment is easy, visible and accessible.

Automatic Venting:
Provides for efficient operation and long life by venting air and flushing seal area.

Large Tanks:
Plenty of capacity for maximum rating of pump. Return inlet is low. Occupies a minimum of floor space.

Impeller:
Made of stainless steel for long life. Efficient design provides maximum capacity, minimum motor load.

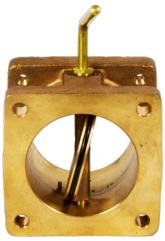
Inducer:
Made of stainless steel for long life. Raises the inlet pressure by an amount sufficient to prevent cavitation.

Pump seal (A):
Features the ultimate in ceramic technology for exceptionally long life. Seal is carbon ceramic with EPDM elastomers. Rated for temperatures up to 300°F.

Isolation Valve (B):
Optional on 4800 Series Condensate Units. Allows removal of pump without draining the tank.

A

B



Control Panel

Inside view of control panel

Complete NEMA 12 Control Panel (Optional)

- Motor Circuit Protector
- HOA Selector Switch
- External Reset
- Control Circuit Transformer
- Pilot Light (pump running)
- Removable Mounting Plate and Terminal Strip in a Single NEMA 12 Enclosure
- Mounted and Wired with Single Point Power Connection.

Specifications

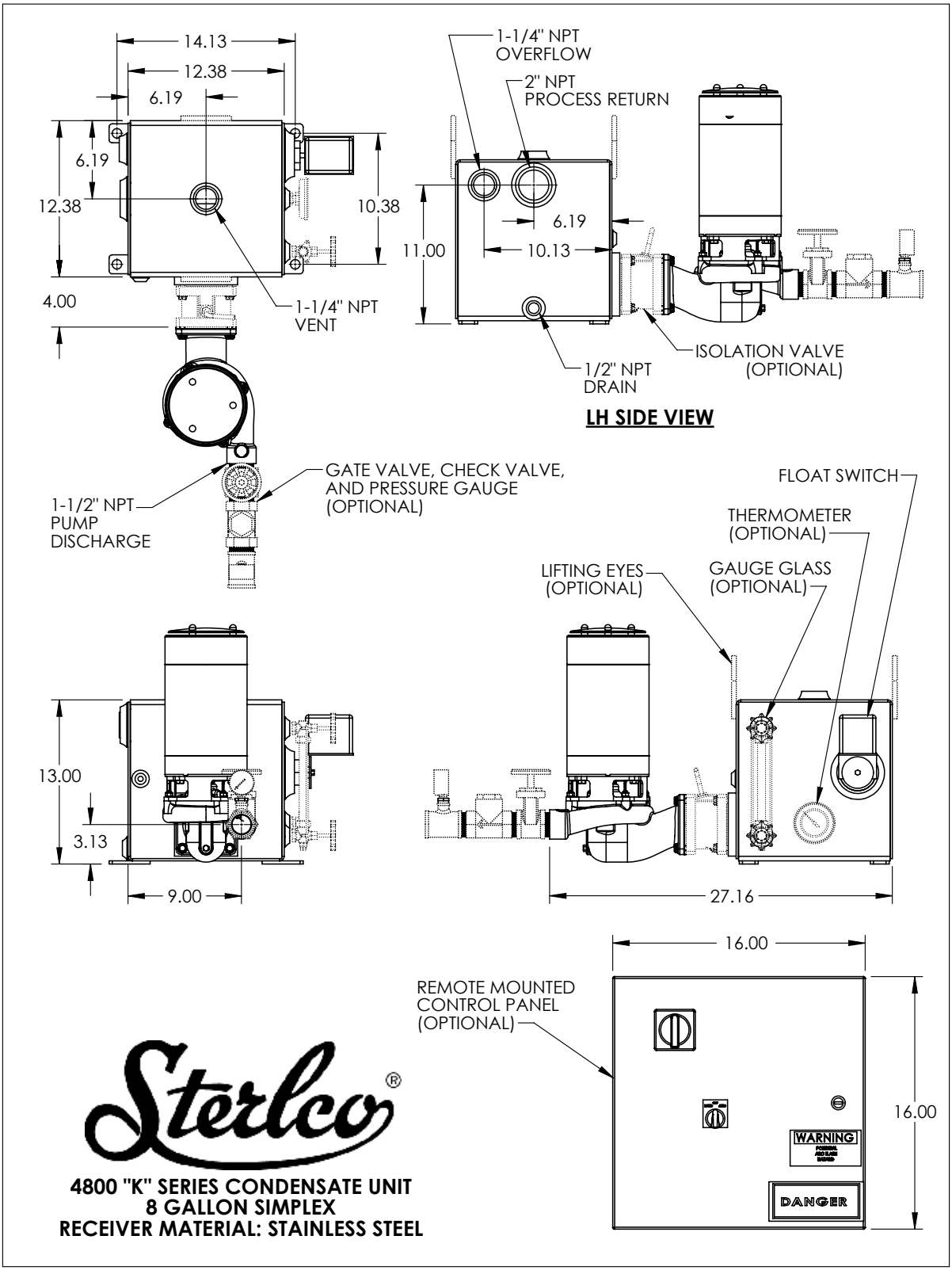
4800 Series Engineering and Capacity Data

Capacity Sq. Ft. EDR	Discharge Pressure PSI	Pump Capacity, GPM	Motor HP	Rec. Capacity, Gallons	Unit Model Number		Shipping Weight, lbs.	
					Simplex	Duplex	Simplex	Duplex
8,000	20	12	1/2	8	4028-KS	-	90	-
2,000 4,000 6,000 8,000	20	3 6 9 12	1/2 1/2 1/2 1/2	15	4822-K 4824-K 4826-K 4828-K	4822-KD 4824-KD 4826-KD 4828-KD	125 125 125 125	185 185 185 185
10,000 15,000 20,000	20	15 22.5 30	1/2 1/2 3/4	30	48210-K 48215-K 48220-K	48210-KD 48215-KD 48220-KD	190 190 200	240 240 250
25,000 30,000	20	37.5 45	3/4 1	45	48225-K 48230-K	48225-KD 48230-KD	285 285	350 350
40,000	20	60	1-1/2	60	48240-K	48240-KD	335	405
50,000	20	75	1-1/2	95	48250-K	48250-KD	385	460
2,000 4,000 6,000 8,000 10,000	30	3 6 9 12 15	3/4 3/4 3/4 3/4 1	15	4832-K 4834-K 4836-K 4838-K 48310-K	4832-KD 4834-KD 4836-KD 4838-KD 48310-KD	180 180 180 180 185	250 250 250 250 255
15,000 20,000	30	22.5 30	1 1	30	48315-K 48320-K	48315-KD 48320-KD	230 230	300 300
25,000 30,000	30	37.5 45	1-1/2 1-1/2	45	48325-K 48330-K	48325-KD 48330-KD	285 290	350 355
40,000	30	60	2	60	48340-K	48340-KD	340	410
50,000	30	75	2	95	48350-K	48350-KD	395	470
2,000 4,000 6,000 8,000 10,000	40	3 6 9 12 15	1 1 1-1/2 1-1/2 1-1/2	15	4842-K 4844-K 4846-K 4848-K 48410-K	4842-KD 4844-KD 4846-KD 4848-KD 48410-KD	190 190 190 190 190	270 270 270 270 270
15,000 20,000	40	22.5 30	1-1/2 1-1/2	30	48415-K 48420-K	48415-KD 48420-KD	240 240	310 310
25,000 30,000	40	37.5 45	2 2	45	48425-K 48430-K	48425-KD 48430-KD	290 295	355 360
40,000	40	60	3	60	48440-K	48440-KD	340	410
50,000	40	75	3	95	48450-K	48450-KD	395	470
2,000 4,000 6,000 8,000 10,000	50	3 6 9 12 15	1-1/2 1-1/2 1-1/2 1-1/2 2	15	4852-K 4854-K 4856-K 4858-K 48510-K	4852-KD 4854-KD 4856-KD 4858-KD 48510-KD	195 195 195 195 195	275 275 275 275 275
15,000 20,000	50	22.5 30	2 3	30	48515-K 48520-K	48515-KD 48520-KD	245 255	320 330
25,000 27,000	50	37.5 40	3 3	45	48525-K 48527-K	48525-KD 48527-KD	305 305	385 385

Sample Specification

Furnish and install, where indicated on plans, a Sterling 4800 Series (simplex or duplex) condensate unit(s), having a capacity of _____sq. ft. E.D.R._____GPM against a discharge pressure of _____PSI. The receiver shall have a capacity of _____gallons and be of 3/16" stainless steel construction. Pump(s) shall be of the centrifugal type with one-piece enclosed stainless steel impeller, stainless steel inducer, cast iron housing, high temperature (300°F) mechanical seal and stainless steel motor shaft. The float switch shall be two-pole with plastic case, stainless steel float and shaft, and double-break silver contacts. An optional inlet "Y" or basket strainer is recommended for installation on the tank return inlet for pump protection. The motor(s) shall be vertical, 3450 RPM, _____phase, _____volt, 60 cycle, _____H.P. The complete unit is to be factory assembled and tested prior to shipment.

Product Diagrams



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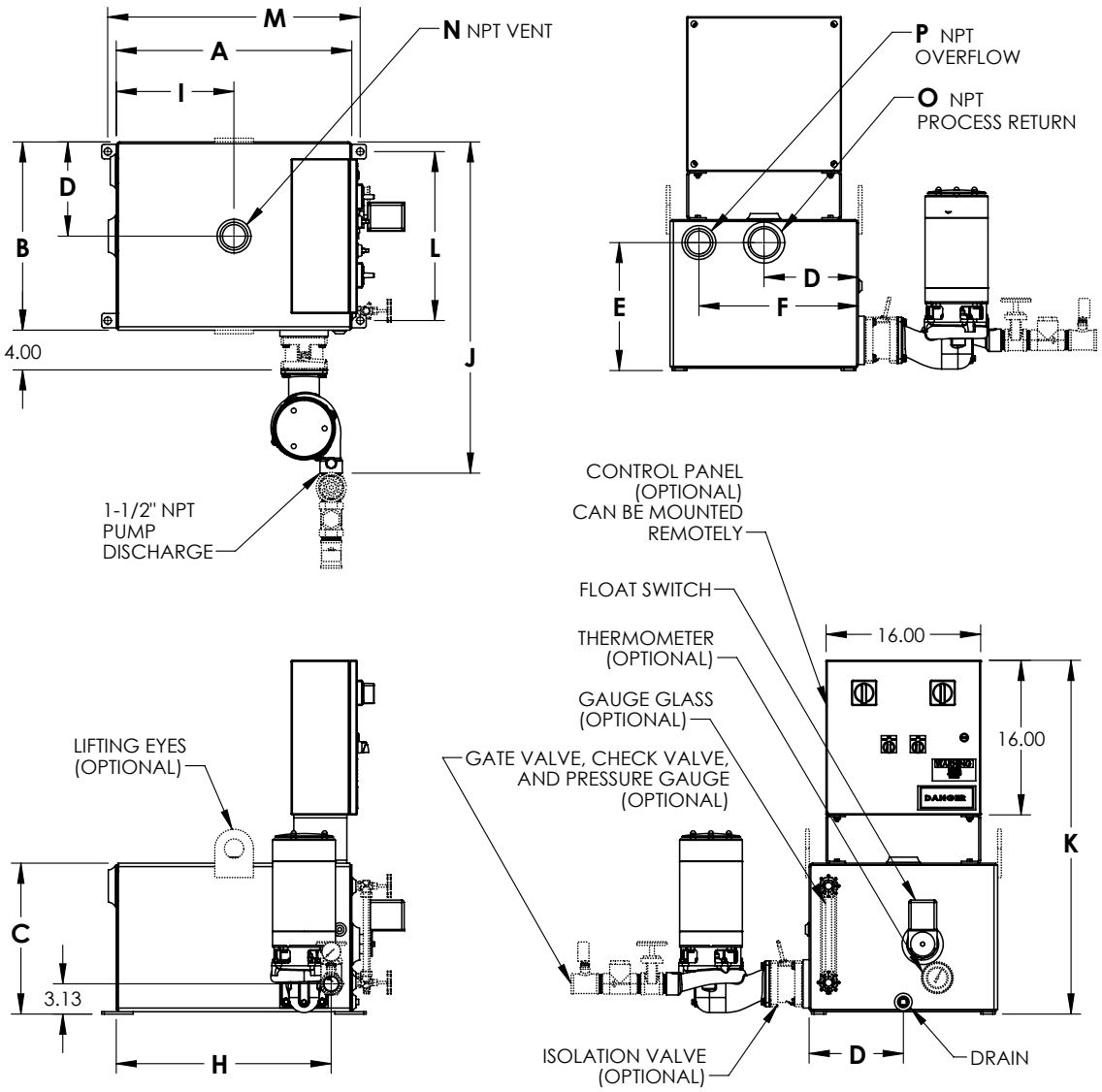
Product Diagrams



4800 "K" SERIES CONDENSATE UNIT
RECEIVER MATERIAL: STAINLESS STEEL

RECEIVER SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	DRAIN
15 GAL	16.63	16.25	14.25	8.13	12.25	13.75		16.37	8.31	31.00	35.25	14.25	18.38	1-1/2"	2"	1-1/2"	1/2"NPT
30 GAL	24.38	19.50	15.63	9.75	13.25	16.50		22.25	12.19	34.25	35.63	17.50	26.13	2"	2-1/2"	2"	1/2"NPT

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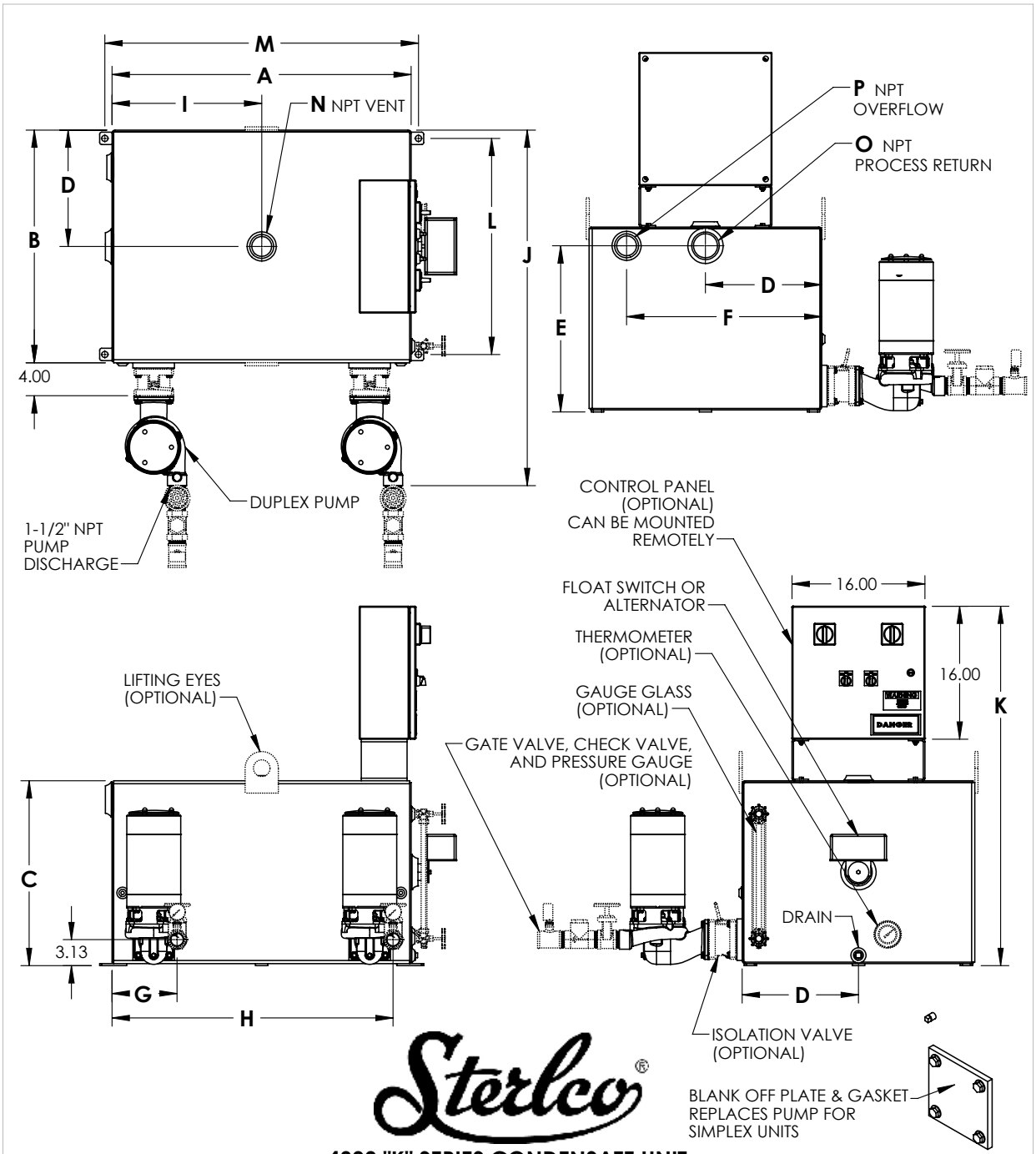
Product Diagrams

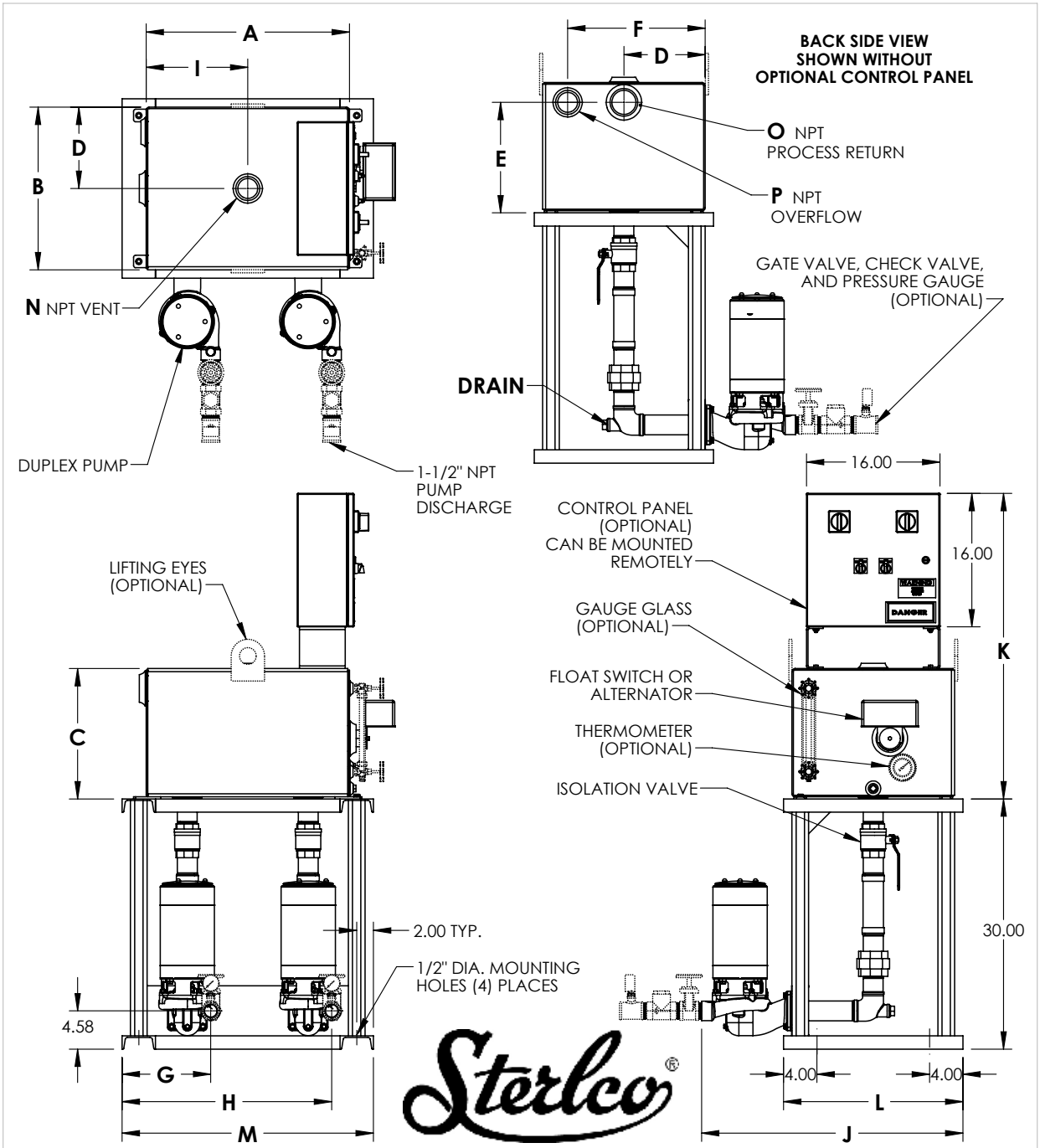


4800 "K" SERIES CONDENSATE UNIT
RECEIVER MATERIAL: STAINLESS STEEL

RECEIVER SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	DRAIN
15 GAL	16.63	16.25	14.25	8.13	12.25	13.75	5.87	16.37	8.31	31.00	35.25	14.25	18.38	1-1/2"	2"	1-1/2"	1/2"NPT
30 GAL	24.38	19.50	15.63	9.75	13.25	16.50	7.75	22.25	12.19	34.25	35.63	17.50	26.13	2"	2-1/2"	2"	1/2"NPT
45 GAL	24.00	22.00	20.25	11.00	18.00	19.00	7.57	22.07	12.00	36.75	41.25	20.00	25.75	2"	2-1/2"	2"	1/2"NPT
60 GAL	24.00	27.00	22.25	13.50	20.00	24.00	7.57	22.07	12.00	41.75	43.25	25.00	25.75	2"	2-1/2"	2"	1/2"NPT
95 GAL	36.00	28.00	22.25	14.00	20.00	23.50	7.81	33.81	18.00	42.75	43.25	26.00	37.75	2"	2-1/2"	2"	1/2" NPT
120 GAL	36.00	36.00	22.25	18.00	20.00	31.50	7.81	33.81	18.00	50.75	43.25	34.00	37.50	2"	2-1/2"	2"	1/2" NPT

4800SER.K.CDSN.15-120

Product Diagrams



4800 "K" SERIES ELEVATED CONDENSATE UNIT
RECEIVER MATERIAL: STAINLESS STEEL

RECEIVER SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	DRAIN
15 GAL	16.63	16.25	14.25	8.13	12.25	13.75	8.75	19.25	8.31	28.08	35.25	18.25	22.83	1-1/2"	2"	1-1/2"	1"NPT
30 GAL	24.38	19.50	15.63	9.75	13.25	16.50	10.63	25.13	12.19	31.33	35.63	21.50	30.13	2"	2-1/2"	2"	1"NPT
45 GAL	24.00	22.00	20.25	11.00	18.00	19.00	10.45	24.95	12.00	33.83	41.25	24.00	29.75	2"	2-1/2"	2"	1"NPT
60 GAL	24.00	27.00	22.25	13.50	20.00	24.00	10.45	24.95	12.00	38.83	43.25	29.00	29.75	2"	2-1/2"	2"	1"NPT
95 GAL	36.00	28.00	22.25	14.00	20.00	23.50	10.69	36.69	18.00	39.83	43.25	30.00	41.75	2"	2-1/2"	2"	1" NPT
120 GAL	36.00	36.00	22.25	18.00	20.00	31.50	10.69	36.69	18.00	47.83	43.25	38.00	41.75	2"	2-1/2"	2"	1" NPT

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