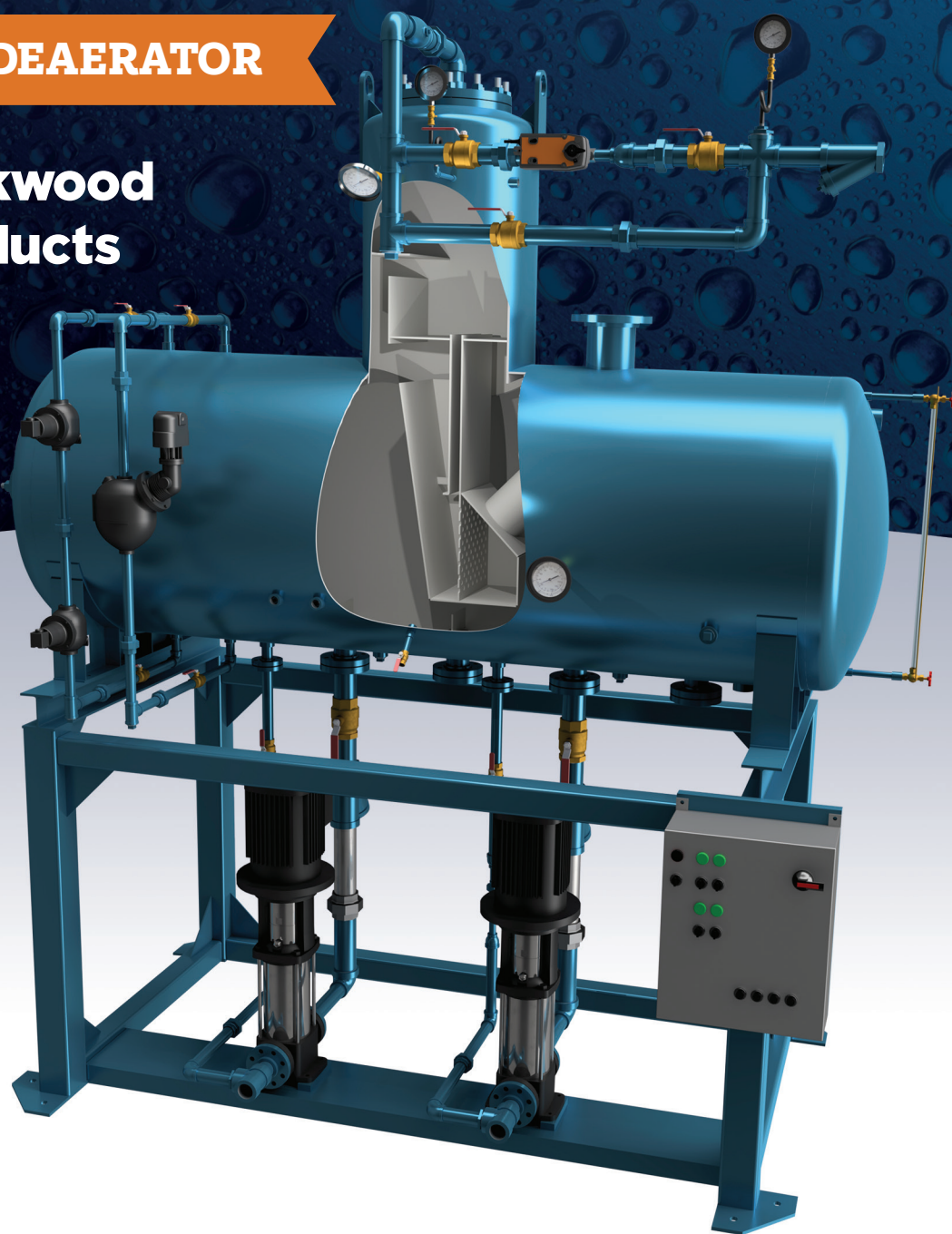


MODEL SS DEAERATOR



**Lockwood
Products**



The Lockwood Model SS deaerator is a "tank car" design spray scrubber deaerator. The vessel includes a vertical deaerating section and a horizontal storage section.

Lockwood Model SS deaerators are designed to reduce the dissolved oxygen content of the feedwater to no more than 0.005 cc/liter (7 ppb) and reduce the titratable free carbon dioxide to zero. To do this, the feedwater goes through a two-stage mechanical deaeration process.

The incoming water is injected into a steam atmosphere in the vertical section of the deaerator via stainless steel spray nozzles. The nozzles create a hollow conical spray pattern which results in a large surface area

allowing rapid heating of the water. As the water approaches saturation temperature, the dissolved gases are released by the water and carried away by the steam. A majority of the corrosive gases are removed before the water strikes any steel surfaces within the deaerator. The non-condensable gases are then vented from the deaerator through a stainless steel vent pipe located on the top of the vertical section. A valve and orifice are used to control the vent rate.

The hot deaerated water then passes through steam scrubber section of the deaerator. High velocity steam is forced through the water causing vigorous scrubbing of the remaining dissolved gasses.

The Model SS deaerator is fully customizable and can be ordered as a tank only or complete skid mounted assembly.

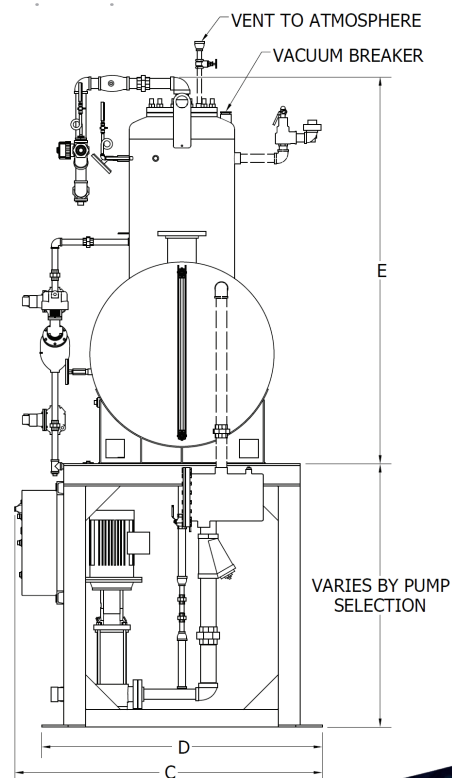
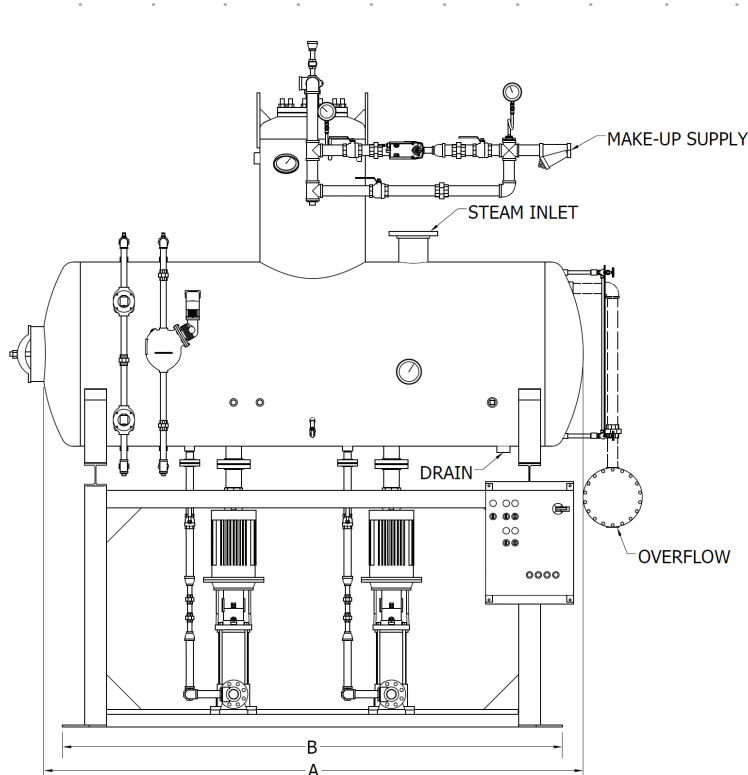
CUSTOM ENGINEERED SOLUTIONS TO COMPLEX PROBLEMS

MODEL	5SS	10SS	15SS	20SS	30SS	45SS	60SS	75SS	90SS	120SS	150SS
CAPACITY (LBS/HR)	5000	10000	15000	20000	30000	45000	60000	75000	90000	120000	150000
STORAGE (GAL)	100	200	300	400	600	900	1200	1500	1800	2400	3000
STORAGE TANK DIAMETER (IN)	30	30	36	36	42	42	48	48	54	54	60
STORAGE TANK LENGTH (IN)	48	80	72	96	109	167	160	204	185	252	254
VERTICAL TANK DIAMETER (IN)	24	24	24	24	24	30	30	36	36	36	42
VERTICAL TANK LENGTH (IN)	25	25	28	28	28	30	30	30	30	30	30
DIMENSION A (IN)	63	95	89	113	128	186	181	225	208	275	279
DIMENSION B (IN)	50	82	64	99	114	169	162	178	160	186	188
DIMENSION C (IN)	56	56	62	63	69	68	74	74	80	80	86
DIMENSION D (IN)	50	50	56	58	64	62	68	68	74	74	80
DIMENSION E (IN)	71	71	81	81	87	90	96	102	108	114	123
STEAM INLET (IN)	2-1/2	3	4	5	6	8	8	10	10	12	12
MAKEUP SUPPLY LINE (IN)	1	1-1/4	1-1/4	1-1/2	2	2-1/2	3	3	4	4	5
DRAIN (IN)	2	2	2	2	2	3	3	3	4	4	4
OVERFLOW (IN)	1	1	2	2	2	3	3	4	4	4	6
VENT LINE (IN)	3/4	3/4	3/4	3/4	1	1-1/4	1-1/4	1-1/2	1-1/2	2	2
VENT ORIFICE (IN)	1/8	3/16	3/16	1/4	1/4	5/16	3/8	7/16	1/2	9/16	5/8
VACUUM BREAKER (IN)	1	1	1	1-1/2	1-1/2	2	2	2	2	2-1/2	2-1/2
SENTINEL VALVE (IN)	1.5X2	1.5X2	1.5X2	1.5X2	1.5X2	1.5X2	1.5X2	1.5X2	1.5X2	1.5X2	1.5X2
CHEMICAL INJECTION (IN)	(2)1	(2)1	(2)1	(2)1	(2)1	(2)1	(2)1	(2)1	(2)1	(2)1	(2)1
SHIPPING WEIGHT (LBS)	2600	2950	3250	3900	4800	5700	6900	9050	9100	10900	12650
OPERATING WEIGHT (LBS)	3500	4650	5800	7300	9850	13250	16950	21500	24400	31050	37900
FLOODED WEIGHT (LBS)	4400	5700	6650	8250	10100	14850	18600	23750	26550	33650	41200

Larger models up to 1,000,000 lbs/hr are available. Contact Lockwood Sales for more information.

NOTES:

- Typical trim and options shown on the Deaerator Option Flyer
- All dimensions and volumes are approximate and subject to change without notice
- Storage capacity based on 10 minutes of storage. Other capacities available upon request.
- Pump connection quantity and size vary by application
- Stand heights vary by application and pump selection
- Steam control valve, and safety relief valve(s) vary by application



**Lockwood
Products**

3010 Spring Industrial Drive, Powder Springs, GA 30127
Main: (404) 505-2520 • Toll Free: (800) 365-1500
www.lockwoodproducts.com • sales@lockwoodproducts.com



QUALITY PRODUCTS & SUPPORT FOR YEARS TO COME