

# MODEL SSL DEAERATOR



**Lockwood  
Products**



The Lockwood Model SSL deaerator is a low profile spray scrubber deaerator. The vessel includes a deaerating section that is integral to the horizontal storage section.

Lockwood Model SSL 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 top 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 near the top of the vessel. 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 SSL deaerator is fully customizable and can be ordered as a tank only or complete skid mounted assembly.*

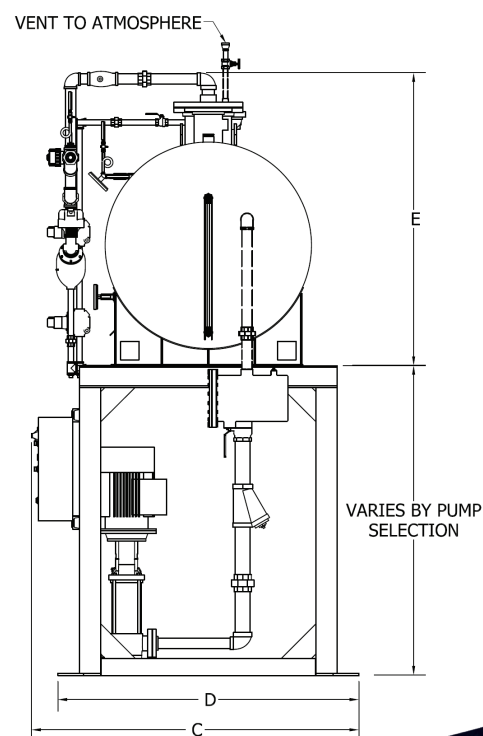
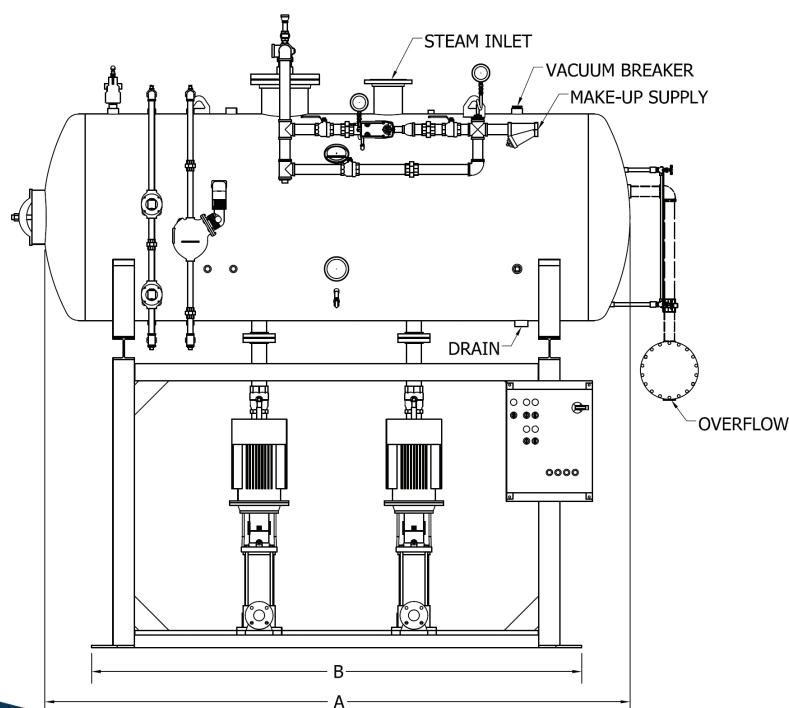
**CUSTOM ENGINEERED SOLUTIONS TO COMPLEX PROBLEMS**

| MODEL                      | 10SSL | 15SSL | 20SSL | 30SSL | 40SSL | 50SSL | 60SSL |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
| CAPACITY (LBS/HR)          | 10000 | 15000 | 20000 | 30000 | 40000 | 50000 | 60000 |
| STORAGE (GAL)              | 200   | 300   | 400   | 600   | 800   | 1000  | 1200  |
| STORAGE TANK DIAMETER (IN) | 36    | 42    | 48    | 48    | 54    | 60    | 66    |
| STORAGE TANK LENGTH (IN)   | 72    | 72    | 72    | 120   | 120   | 120   | 120   |
| DIMENSION A (IN)           | 88    | 90    | 92    | 140   | 142   | 144   | 146   |
| DIMENSION B (IN)           | 77    | 77    | 77    | 125   | 125   | 125   | 125   |
| DIMENSION C (IN)           | 64    | 69    | 75    | 76    | 79    | 85    | 91    |
| DIMENSION D (IN)           | 59    | 62    | 68    | 70    | 72    | 78    | 74    |
| DIMENSION E (IN)           | 56    | 62    | 68    | 69    | 74    | 84    | 90    |
| STEAM INLET (IN)           | 3     | 4     | 6     | 6     | 8     | 8     | 8     |
| MAKEUP SUPPLY LINE (IN)    | 1-1/4 | 1-1/4 | 1-1/2 | 2     | 2-1/2 | 2-1/2 | 3     |
| DRAIN (IN)                 | 2     | 2     | 2     | 2     | 3     | 3     | 3     |
| OVERFLOW (IN)              | 1     | 2     | 2     | 2     | 2     | 3     | 3     |
| VENT LINE (IN)             | 3/4   | 3/4   | 3/4   | 1     | 1     | 1-1/4 | 1-1/4 |
| VENT ORIFICE (IN)          | 3/16  | 3/16  | 1/4   | 1/4   | 5/16  | 3/8   | 3/8   |
| VACUUM BREAKER (IN)        | 1     | 1     | 1-1/2 | 1-1/2 | 1-1/2 | 2     | 2     |
| SENTINEL VALVE (IN)        | 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  |
| SHIPPING WEIGHT (LBS)      | 2950  | 3250  | 3900  | 4800  | 5500  | 6200  | 6900  |
| OPERATING WEIGHT (LBS)     | 4000  | 4800  | 5950  | 7850  | 9550  | 11250 | 13000 |
| FLOODED WEIGHT (LBS)       | 4700  | 5900  | 7400  | 10050 | 12500 | 15000 | 17400 |

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
- Weights apply to tank and stand only and do not include pumps or suction/discharge piping



**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