



The compact spray-scrubber deaerator heater is typically horizontally oriented and is designed for small and medium sized plants where reduction of corrosion and pitting in boiler tubes, condensate return lines and accessories must be accomplished in the most economical way. The low initial cost, minimum maintenance and limited headroom requirements of the Compact Deaerating Heater make it ideal for such use. Integral storage alleviates the need for a separate storage vessel.

Design Features

- ~ Capacity that meets your specification
- ~ Oxygen reduced to 0.007ppm (0.005ml/L) or less in the outlet stream
- ~ Carbon dioxide reduced to negligible concentration in the outlet stream
- ~ The water will be heated to within 2°F of the temperature of the saturated steam in the heater
- ~ Small footprint and low maintenance design
- ~ The unit will operate quietly from minimum to maximum capacity

Our Customers

- | | |
|-------------------------------|------------------------|
| - Ault Foods Ltd. | - Dofasco Inc. |
| - Casco Inc. | - Hanover Foods |
| - Chrysler Automobile Company | - Lubrizol Corporation |

- ~ **Two stage deaeration.**
- ~ **Counter flow operation through the scrubber to ensure the most efficient oxygen removal.**
- ~ **Each unit is customized to guarantee your specification.**
- ~ **Specially designed scrubber chamber.**
- ~ **Internal vent condenser to minimize steam loss.**
- ~ **Integral storage.**

Contact Us

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Deaerating Heaters

Compact Spray Scrubber

ECODYNE Limited

Similar to Ecodyne spray scrubber deaerating heaters, the compact spray scrubber has a two stage design.

The first stage of the spray scrubber removes 95% of the non-condensable gases in the spray section. The spray valves are arranged so that the water does not strike any metal surface of the unit.

The sprayed water enters the second stage scrubber section where it is vigorously mixed with a large excess of fresh oxygen free steam. In this stage the water is heated to the temperature corresponding to the saturated steam pressure in the deaerator. As the steam and water rise upward through the baffled scrubber, the violent action frees the remaining non-condensable gases from the water. Proper design of the scrubber passages ensures complete deaeration without noise or vibration. **The steam carrying with it the non-condensable gases** rises up through the steam duct to the first stage spray section. Here, as with the spray-tray units, the vent condenser ensures minimum steam loss.



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A Marmon Water/Berkshire Hathaway Company

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