Deaerator Manufacturers

Cochrane and Permutit are two of the oldest Deaerator Manufacturers in the USA, both companies have been since purchased by a different company.

Manufacturers:

1. ABB: [https://library.e.abb.com/public/ea8a1ee06570454e8a80896dffece4a7/AD_ANAINST_015-EN_A.pdf](https://library.e.abb.com/public/ea8a1ee06570454e8a80896dffece4a7/AD_ANAINST_015-EN_A.pdf)
3. American Water Softener (Envirex): at one time was owned by Siemens / US Filter
4. Anderson (Ondeo Degremont): see Suez
6. ASC: - - -
7. Belco: see Newterra
8. BOC Edwards (Israel):
10. Bono Artes (Artes Ingegnerai) (International): see Cannon Bono Energia
12. CalFilco (California Filter Co.) (CA): – spare parts see Whittier Filtration
15. Crane Cochrane (Crane Environmental): see Newterra
16. Chicago Heater – see Newterra
17. Cochrane: see Newterra
18. Deaerator Designs: see Precision Boiler
19. Degremont: see Suez
20. Di Sep (Smith & Loveless): - - -
21. Dixon Boiler (Calif.): no longer in business
22. Ecodyne (Canada and TX): [https://ecodyne.com/deaerators/](https://ecodyne.com/deaerators/)
27. Envirex: at one time owned by Siemens / US Filter
33. GMS (International): [http://www.gmsthermal.co.uk/](http://www.gmsthermal.co.uk/)
34. Graver: [https://graver.com/aftermarket/parts/deaerators/](https://graver.com/aftermarket/parts/deaerators/)
35. Great Lakes: - - -
36. HOH (Texas): - -
37. Hoppes (Ohio):  See Bryan Steam
40. Infilco Degremont: see Suez
41. Industrial Steam (Iowa): [https://industrialsteam.com/](https://industrialsteam.com/)
42. ITS Water Solutions (Texas): - - -
43. Kansas City Deaerator Company (Kansas): [https://deaerator.com/](https://deaerator.com/)
44. Karrasch & Eckert (Germany): [http://www.karrasch-eckert.de/unterlagen/DBL_08_Entgasung_EN.pdf](http://www.karrasch-eckert.de/unterlagen/DBL_08_Entgasung_EN.pdf)
45. Kewanee: ceased business in 2002
46. L*A Water Treatment (L*A Water Conditioning): – spare parts see Whitter Filtration
49. NATCO (Cameron): Gas Stripping & Vacuum Stripping Deaerators: [http://www.c-a-m.com](http://www.c-a-m.com)
52. Permutit – at one time was owned by Siemens / US Filter
53. PMI: no longer in business
54. Power Plant Equipment (KS): - - -
57. Schaub Engineering: -no longer in business
58. Sellers Manufacturing: [https://sellersmfg.com/](https://sellersmfg.com/)
60. Siemens: - - -
63. Stickle Steam Specialties: [https://sticklesteam.com/](https://sticklesteam.com/)
64. Stork: [https://www.stork.com/](https://www.stork.com/)
67. Tate (MD): [https://tate.com/](https://tate.com/)
69. Thermaflo Engineering: [https://thermafloengineering.com/](https://thermafloengineering.com/)
72. Worthington: no longer in business
73. Spare Parts: Deaerator Solutions: [https://deaeratorsolutions.com/](https://deaeratorsolutions.com/)
Other related organizations:

ANSI:  [https://www.ansi.org/](https://www.ansi.org/)
ASME:  [https://www.asme.org/](https://www.asme.org/)
HEI:  [https://www.heatexchange.org/technical-committee](https://www.heatexchange.org/technical-committee)
NACE International:  [https://nace.org/](https://nace.org/)

Purpose:

Spray Tray Deaerators and Spray Scrubber Deaerators assist with reducing oxygen (and carbon dioxide) levels in boiler feedwater. Typically they are manufactured as carbon steel pressure vessel with stainless steel internals (trays or packing, spray nozzles, vent condenser, and tray enclosure). Deaerator external accessories typically include pumps, valves, piping, safety valve, vent valve, vacuum breaker, overflow valve, pressure gauge, thermometer, chemical quill, anodes, strainer, level control, pressure control, flow control, temperature control, oxygen analyzer, PRVs, [blowdown & flash tank](https://www.heatexchange.org/technical-committee), exhaust head, sample cooler, pre-treatment (such as softener), and other components.

These units can be referred to as Thermal (Steam) Deaerators as well. In the future more information on Gas Stripping Deaerators and Vacuum Stripping Deaerators will be included.

A proper [Chemical](https://www.heatexchange.org/technical-committee) feed system is a valuable component for improving the system.

Post Weld Heat Treatment, Corrosion Allowance, and the amount of Non Destructive Testing (XRAY, Dye Penetration, Ultrasonic, etc.) are dependent on ASME Code requirements or the Customer’s specific requirements. HEI has recommendations as well.

Sizing deaerator units require information on the flows, temperatures, and pressure ratings of the makeup water, condensate, and steam sources.

References:

1. Woodhurdles.com