

At Kansas City Deaerator Co., Service and Experience are One In The Same

Key to Kansas City Deaerator Company's profile is our wealth of experience. Since the mid 1970s, our personnel have designed hundreds of deaerators for utility and industrial applications. As a result, our team of professionals has earned respect among peers and customers alike. In fact, our team was central to the development of the 1992 improved edition of the Heat Exchange Institute (HEI) Standards for Deaerators.

We are committed to 100 percent customer satisfaction. This begins with detailed proposals, accurate engineering submittals, complete drawing packages, and continues with thorough preshipment inspections and on-time deliveries.

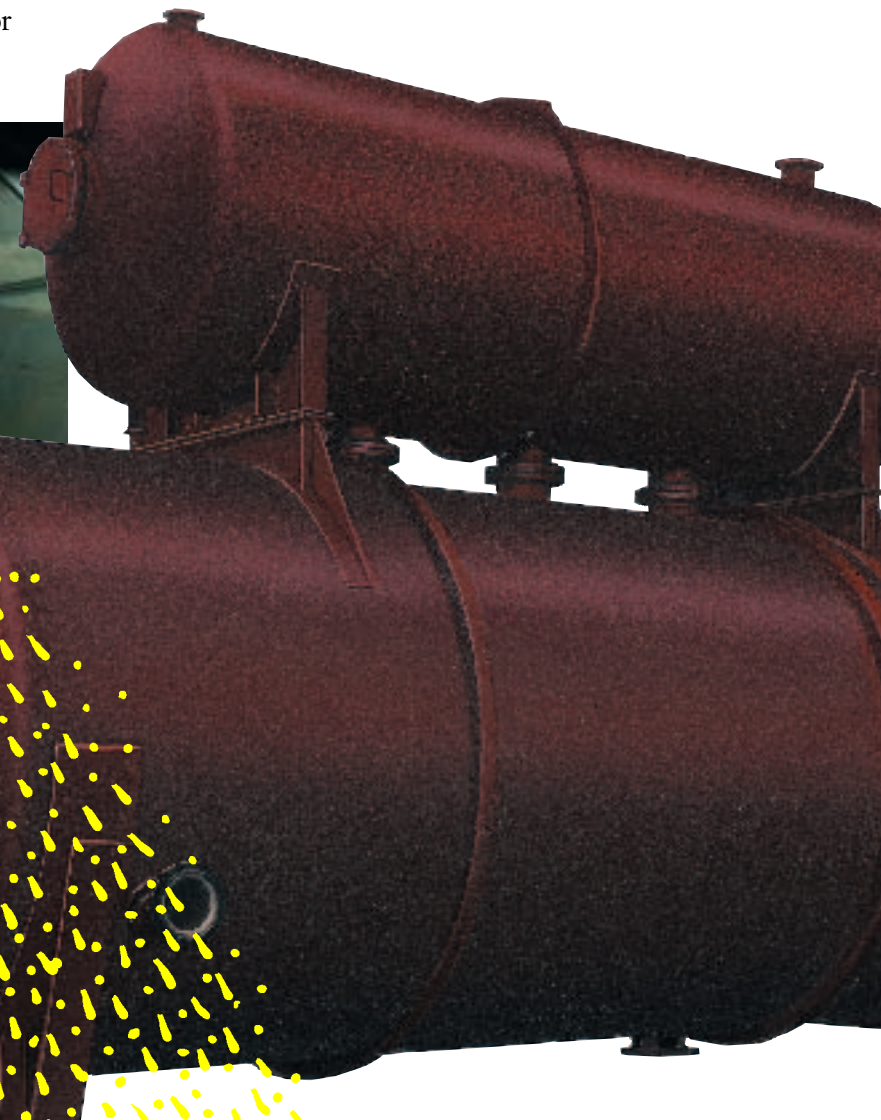
Our speciality is problem solving. Our engineers will custom design your deaerator in accordance with your specific needs. In

addition, our field service engineers are available for on-site service within 24 hours of request to repair or service your existing deaerator.

Assuring Quality, Safety At Every Turn

Kansas City Deaerator Co. relies on the latest technology to provide quality design, fabrication and document control. With sophisticated computer programs for vessel calculations, nozzle load calculations, heat balances, ratings and CAD drawings, we'll take you from conception to start-up — error free — consistently.

Likewise, when specified, our work is performed, in strict accordance with ASME codes, NACE and HEI standards to assure not only quality, but long-term safety and reliability. To assure quality upon completion, our units are typically inspected by three to five inspectors prior to shipment.



Available Testing Procedures:
 Hydro test
 100% x-ray
 Magnetic Particle Inspections
 Ultrasonic testing

Users

Abitibi Consolidated	James River Paper
ADM	Kansas Power & Light
AES	Kuwait Petrochemical
Air Products & Chemicals	Las Vegas Cogen
Agrico Chemical	Louisiana Pacific
ALCOA	Luberf II
Aleppo Thermal Power	Mass Power Cogen
Amoco	Maui Electric
Ansaldo	Melaka Conversion
Ashland Petroleum	Midwest Power
AT&T	Milford Cogen
Athabasca Oil Sands	Monsanto Enviro-Chem
Atofina	National Power Corp. of the Philippines
BASF	Neenah Paper
Bajio Power	Niagara Mohawk
Bonneville Pacific	Nova Chemical
BP Amoco	Orlando Utilities
Brighton Beach Power, Ltd.	Osborne Cogen
Calpine	Plains Electric
CNF Constructors	Port Arthur Refinery
Cogen Partners of America	Ryegate Power
Consolidated Paper	Saltend Cogeneration
CSW	Samalayuca II
Dow USA	Scott Paper
East Kentucky Power	Semass
Falcon Seaboard	Shoaiba Power
Fina Oil & Chemical	Shurtan Gas Chemical
Ford Motor Co.	Tennessee Eastman Co.
General Electric	Texaco
Gulf States Utilities	Transfield Power
GWF Power Systems	Union Carbide
Hanfeng Power	Unocal
Houston Light & Power	Weyerhaeuser
Huaneng Nantong Power	Willamette Industries
Hutchinson Utility	Wisconsin Electric Power Co.

Engineers

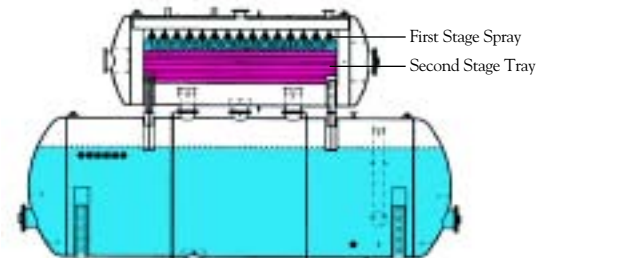
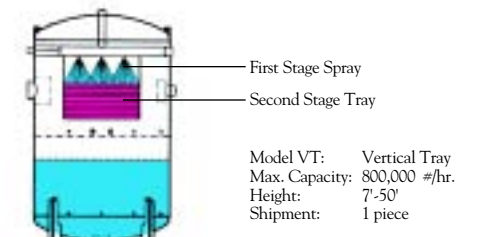
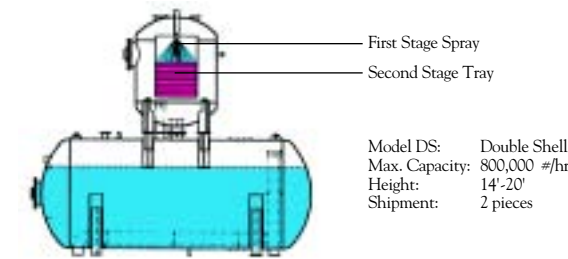
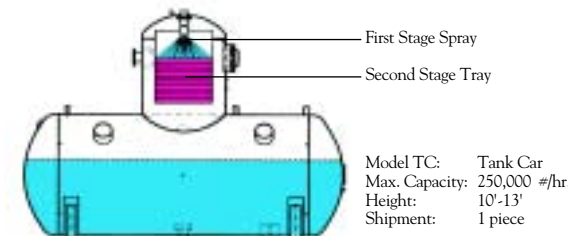
Bantrel, Inc.	Harris Group
Bibb & Associates	HDR Engineering
Bechtel Corporation	Howe-Baker Engineers, Ltd.
Black & Veatch	IHI Inc.
Burns & McDonnell	Kawasaki Heavy Industries, Inc.
Burns & Roe	Kellogg, Brown and Root
Chiyoda Corporation	NLK Consultants
Ebasco Services	Parsons Main, Inc.
Energy Services, Inc.	The Pritchard Corporation
Enron Power	Stone & Webster
Fluor Daniel	United Engineers & Constructors
	Zurn/NEPCO

OEMS

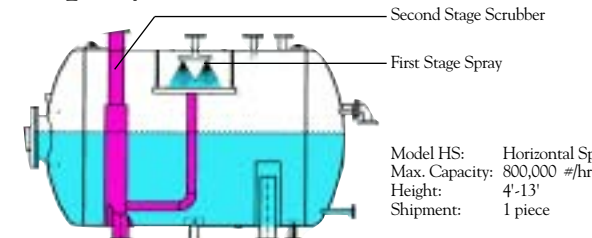
Aalborg Boiler
Alstom Power
Cerrey SA
Deltak Corporation
Ecolaire Corporation
Foster Wheeler Energy Corp.
Foster Wheeler Ltd.
GEA
Nooter/Eriksen Cogeneration Systems, Inc.
Sino-Thai Construction
Transfield Power Technology
Yuba
Zurn



Spray Tray



Spray Scrubber



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Henry's Law of Partial Pressures Formed the Foundation for Designing Deaerators.



But Here's What Henry Didn't Tell Us....



Not All Deaerators Are Created Equal

How To Make A Deaerator Last!

Henry's Law: $P_a = X_a H_a(T)$:

"The solubility of any gas dissolved in liquid is directly proportional to the partial pressure of that gas above the liquid."

It was 1801 when William Henry first developed the basic equation on which the Principles of Deaeration are based. But Henry didn't develop the technology to make deaerators last.

Kansas City Deaerator Co. is Building On the Cornerstone of Experience.

Kansas City Deaerator Co. has mastered the technology to design and build quality deaerators. In fact, our rise to become a leading supplier of deaerators for the utility, cogeneration and industrial market is based on sound engineering and service.

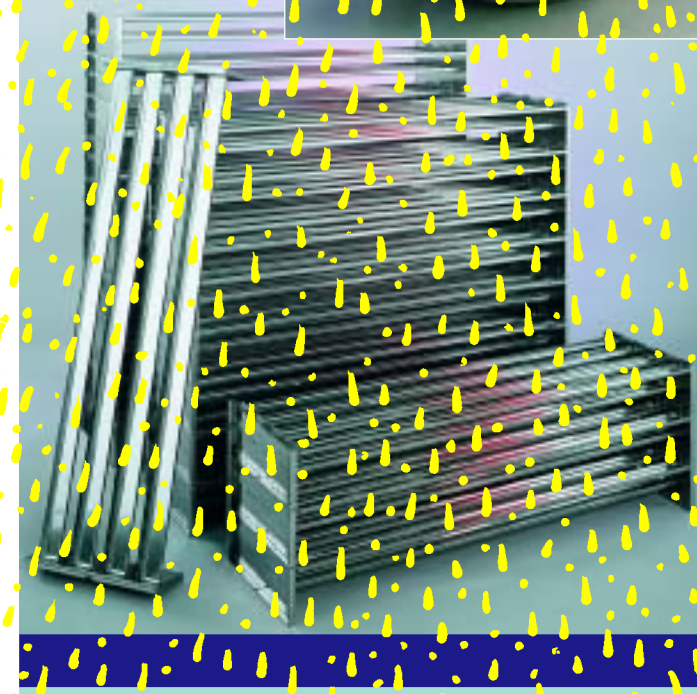
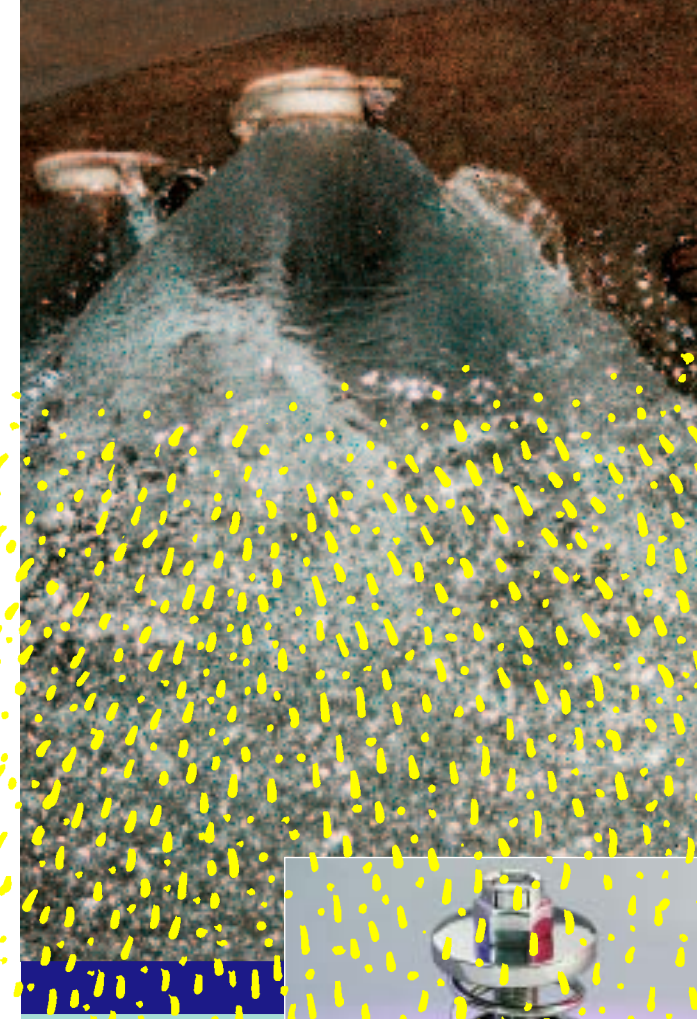
From Section VIII Utility Deaerators to Section I Integral HRSG Deaerators, our ability to eliminate typical operational and maintenance problems represents the best of the industry's knowledge and technology.

Reliability As The Basis Of Design

In response to the demand for a more reliable deaerator, Kansas City Deaerator Co. has developed an innovative **Header Design**. This new design provides greater durability and extended life with improved operational features and ease of maintenance. In addition, this new design utilizes an improved fabrication process which allows for stricter quality control and ensures that our deaerators will be in service long after others have been replaced.

Our quality **Spray Valves** are investment cast of type 316 S.S., hydraulically balanced and provided with Teflon stem guides for extended life and quiet operation. These rugged valves are designed to handle flow fluctuations from 0% to 200% of design.

Kansas City Deaerator Co. **Trays** are stamped and riveted as recommended by the HEI Standard. Our 16 ga., 430 S.S. trays are the most rugged available in the industry and have been utilized successfully by central station utilities for over 30 years. Our tray locking tabs and compression tray hold-down system will resist deaerator transient loads and reduce tray damage under upset conditions.



S.S. Floating Tray Enclosure
No longitudinal water box welds to crack, no dissimilar welds, no liner plug welds to fail and no water box buckling. The enclosure is built outside the vessel for improved quality control and ease of inspection.

Header
Now you can mix hot and cold water at the deaerator with two separate headers and not reduce your deaerator life.

Lifting Lugs

Manway
Tray removal, vessel inspection and header replacement.

Header Replacement
Complete header can be replaced during outage quickly and without expensive code welds.

Grating Support
Stabilization of trays during upset conditions.

Equalizer
Generously sized for low pressure drops and deaerator pressure fluctuations with antiflash baffles.

Vacuum Rings
As required by code

Downcomers
Equipped with vortex breakers and antiflash baffles for upset conditions and tray protection.

Trays
Rugged construction for long life.

Tray hold-downs
No more tray upsets due to inadequate tray hold-down troughs. Our **compression** hold-down system locks the trays in place and will not loosen, allowing trays to dump.

