

ALTAIR
EQUIPMENT CO., INC.
WATER TREATMENT TECHNOLOGIES



Design - Manufacture - Service

**Water Treatment Solutions
for
Industry**

**335 Constance Drive, Warminster, PA 18974
Phone: 215-672-9000 Fax: 215-682-0284
EMail: AECO@ALTAIREQUIPMENT.COM**

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Pressure Filters

Altair's series of pressure filters consists of single media sand, anthracite, activated carbon, greensand, and high rate multi-media sand and anthracite type filters. Filter systems can be furnished in both modular and skid assemblies, and with PLC controls.



Softeners

Used to soften water by removing the dissolved calcium and magnesium salts. These salts cause scale build-up in boiler tubes, piping, heat exchangers, etc. Altair can furnish complete softener systems for both industrial and commercial applications.



Dealkalizers

Excess alkalinity can have adverse effects on process quality, boiler operation and efficiency, and condensate return systems. Alkalinities broken down by boiler heat release carbon dioxide into the steam. This steam when condensed contains carbonic acid which attacks the return systems. Removal of alkalinity also reduces boiler foaming, and reduces blow down rates.



Demineralizers

Removal of dissolved mineral solids by ion exchange produces high quality water for use in boiler feed, metal finishing, pharmaceuticals, IC circuits, and many other processes. Altair demineralizers include both two bed and mixed bed designs, in both modular and skid package assembly. Effluent quality often as high as 18,000,000 ohms.



Reverse Osmosis



Continuous high purity effluent for process and boiler feed. Altair reverse osmosis systems utilize low pressure energy efficient thin film membranes for longevity and low cost operation. 99% rejection. Single and double pass systems with PLC controls, welded steel frames. Altair reverse osmosis systems offer as standard features many of the components and features that are optional on other manufacturers systems.

Forced Draft Degassifiers

Removal of undesirable gases, such as carbon dioxide and hydrogen from process waters. Water sprayed onto a packing tower flows down through the packing while air is forced up-flow, scrubbing out the dissolved gases. Forced draft degasification can reduce neutralization costs, reduce loads on demineralizer systems, and eliminate odors from process waters.



Service Exchange Deionizers



Altair's service DI exchange programs provide high purity water, eliminating operation and maintenance costs, and on site chemical regenerations. Altair exchange DI systems are available in a variety of configurations: two bed Cation/Anion, single or multiple Mixed Beds, Carbon Filtration. Softening, UV sterilization. Altair operates its own in house resin regeneration facilities, and uses only top grade ion exchange resins, manufactured by the leading resin suppliers.

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Control Systems



Altair control systems utilize state of the art instrumentation, operator interfaces, and programmable controllers for the monitoring and control of all types of water treatment systems. All Altair control systems are engineered and tested by experienced in house engineers. Altair engineers can also retro-fit your outdated and problem controls for water treatment systems of any manufacturer.

Deaerators

High efficiency method of removal of dissolved gases from feedwater. Parallel down-flow design allows for maximum effective contact between water and steam, insuring maximum removal of dissolved gases. Parallel down-flow design also handles the most severe operating conditions, load swings, and 100% make-up requirements.



Continuous Blowdown



Controls dissolved solids levels in boiler drum, eliminating erratic concentration levels due to intermittent blow downs. Transfer the heat of the blow down stream to the boiler make-up water, reducing operating costs, while reducing the blow down waste stream discharge temperature .

Exhaust Silencers



Exhaust silencers are used to reduce exhaust steam noise, remove moisture and oil, and to protect building roofs. Altair exhaust heads are efficient and designed for free flow. Altair exhaust silencers are fabricated from steel plate and steel pipe, with ANSI 150# steel inlet flanges. Sizes 3"

Field Service & Installation

Altair can furnish water treatment systems on a turn-key basis, delivering to the end user a completely installed and operating system. Altair's engineers can review and evaluate existing installations and make recommendations on increasing operation efficiency, and upgrading system components. We can also furnish on-site engineering service for water analysis, plant operation, PLC programming, operator training, and instrument calibration. Altair also offers it's customers service contracts covering periodic system review and service, along with 24 hour emergency service.

**Altair has Sales Representatives
located in the following States:**

Alabama

Colorado

Florida

Georgia

Hawaii

Illinois

Indiana

Iowa

Kansas

Kentucky

Louisiana

Michigan

Mississippi

Missouri

Nebraska

North Carolina

Ohio

Oregon

Pennsylvania

South Carolina

Tennessee

Texas (Dallas)

Texas (Houston)

West Virginia

Wisconsin

**Call Altair at 215-672-9000 for the number of the
Sales Representative in your area**