

Meat, sausage and poultry processing

Liquid desiccant solutions



For over 75 years, Alfa Laval Kathabar has engineered and manufactured liquid and dry desiccant systems for dehumidification and energy recovery applications. Our technologies improve the reliability, economy and efficiency of any manufacturing or processing operation that is humidity, temperature or microorganismsensitive. We meet the ever-changing needs of our customers with quality products - providing reliable, precise and economical temperature and humidity control.

Alfa Laval Kathabar liquid desiccant systems provide a perfect solution for a wide range of applications for industrial, commercial, institutional and green/LEED facilities.

Loading docks

Holding coolers

Applications:

- Drying rooms
- Slicing and cutting rooms Evisceration rooms
- Freezers

Advantages:

- Improve product quality
 - Prevent condensation on building, equipment and product
 - Cleaner process air
 - Eliminate mold and bacteria
- Production advantages
 - Quickly dry floors after washdown
 - Consistent environments for multiple drying and processing rooms
 - Precise humidity control to +/- 1% RH
- Energy advantages
 - Reduce utility consumption through simultaneous air cooling and dehumidification
 - Reduce refrigeration tonnage with frost-free
 - Use low grade energy sources for humidity control



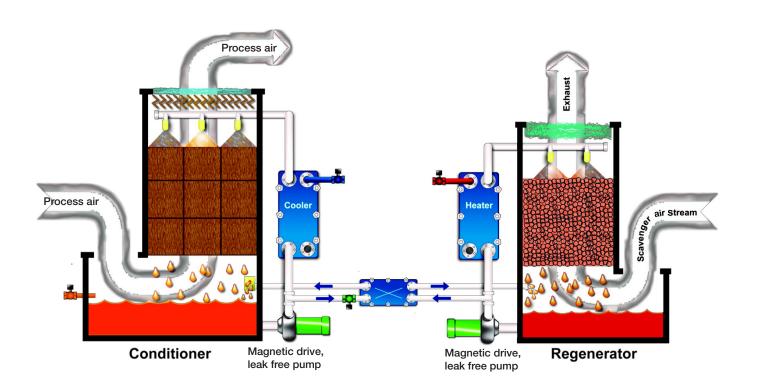
How it works

The Alfa Laval Kathabar liquid desiccant dehumidification system operates on the principle of chemical absorption of water vapor from air. Our systems utilize a liquid absorbent known as Kathene.® Kathene solution is non-toxic, will not vaporize and is not degraded by common airborne contaminants.

The temperature and concentration of the solution determines the ability of Kathene to remove or add water vapor from the air. The concentration of Kathene can be adjusted so the conditioner delivers air at any desired relative humidity between 18% and 90%. For a given Kathene concentration, lower solution

temperatures enable the conditioner to deliver cooler, dryer air.

The illustration below shows the basic elements of the liquid desiccant system. Conditioned air is cooled and dehumidified by contacting Kathene in the conditioner. By continuously circulating the desiccant through a heat exchanger, energy is extracted from the air and transferred to a coolant. The amount of heat extracted by the Alfa Laval Kathabar dehumidifier is modulated to exactly match the load ±1% by controlling coolant flow through the heat exchanger.



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Liquid desiccant packaged conditioner

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval