



AIR MANAGEMENT TECHNOLOGIES, INC.
Building Energy & Environmental Services



Guaranteed Solutions:

Process Cooling

- ◆ Mixer & Sponge Systems
- ◆ Chilled Ingredient Water
- ◆ Finished Product Cooling
- ◆ Blast Freezing
- ◆ Refrigeration

Process Heating

- ◆ Water Heating
- ◆ Steam & Hot Water Systems

Environment Conditioning

- ◆ Proofing/Retarding
- ◆ Spiral (Finished) Products
- ◆ Oven Steam
- ◆ Mold & Particulate Control

Industrial HVAC

- ◆ Makeup Air Systems
- ◆ Spot Cooling
- ◆ Space Pressurization
- ◆ Filtration
- ◆ Mechanical Cooling
- ◆ Ventilation

Waste Heat Recovery

- ◆ Ovens & Oxidizers
- ◆ Solar/Fuel Cells
- ◆ Compressed Air
- ◆ Industrial Fryers

Specialized Technologies

- ◆ Absorption Refrigeration
- ◆ Cascade Refrigeration
- ◆ Industrial Heat Pumps
- ◆ Solar/Fuel Cells
- ◆ Organic Rankine Cycle

Blast Freezing



Food Based Engineering

Air Management Technologies has partnered with the industrial baking and food processing industry for over twenty-five years using quality processes to identify areas of opportunity meeting your financial, environmental, and food safety objectives. Our team's multi-disciplined understanding of time, temperature, velocity, and product provides an efficient designs engineered for product quality, superior reliability, ease of maintenance and sanitation, regulatory requirements, lower energy use, and excellent life cycle value.

Technology to Match Your Freezing Applications

Blast Freezers and low temperature refrigeration are typically the largest electricity users in a food processing facility. We understand every kWh impacts your Revenue per Lbs. of product and offer intelligent designs to improve your return on investment.





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An Introduction to Cascade Systems in Bakery Applications

Cascade refrigeration systems are used in low temperature freezer applications providing a solution to high global warming potential concerns regardless of chemical or natural refrigerant choice. Systems are designed with a two stage process: a high side that is normally either ammonia or a chemical based refrigerant such as 507 and a low side that is commonly carbon dioxide. Since these refrigerants are separated by a heat exchanger interface the high side refrigerant charge is greatly reduced providing multiple key advantages relating to Health and Safety, Environmental Liability, Maintenance Expense, and Operational Cost.



Designed as part of an intelligent facility refrigeration architecture Cascade systems can serve end uses with versatile temperature requirements ranging from -50F (-45C) to 50F (10C). This is accomplished by connecting the warmer temperature loads directly to the “high side” of the system reserving the “low side” for subfreezing requirements. The subfreezing low temperature requirements can be satisfied without operating compressors in a vacuum mitigating operational risk. Flexibility exists to make decisions on how facility loads may be best distributed with potential to incorporate other heat fluid transfer fluids.

The Air Management Technologies team is ready to assist in providing a Guaranteed Solution to your Cascade or Conventional product refrigeration requirements.

About Us

Our written performance guarantee places the responsibility in our hands and the life cycle benefits in yours. Cost conscious decisions are made with the customer in mind and every project is guaranteed to operate as specified.



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