



# Precision-controlled refrigerated environments

Comprehensive refrigeration services for the food and beverage industry



The assurance of product integrity

## More than equipment. A total solution.

The right engineered solution for food and beverage applications begins with an understanding of your needs. At Trane, we focus on your challenges and bring assurance that your concerns are addressed—including product safety, risk abatement, energy efficiency, regulatory compliance and increased productivity. Turn-key refrigeration systems from Trane® Industrial Refrigeration provide solutions with a purpose.

### End-to-end support

At Trane, we develop, install and maintain refrigerated environments. Our solutions incorporate the systems necessary to ensure your product is reliably maintained to precise standards. Our team excels in all phases of project development—from feasibility studies, risk assessment, and process compliance to energy modeling and life-cycle cost analysis. Ongoing service, maintenance and remote monitoring programs ensure your assets are protected and performing at the highest level.

### Unique expertise

With more than forty years of experience providing custom-engineered designs, we bring a depth of knowledge and practical experience to every project—CO<sub>2</sub>, halocarbon, synthetic, ammonia and secondary systems. We are leaders in developing innovative custom solutions for the food and beverage market.

### Lowest total cost of ownership

A new facility, retrofit or upgrade must be a sound investment, whether based on Trane, Ingersoll Rand® or third-party components. Our proprietary solutions incorporating Trane CenTraVac® liquid chillers provide Trane's legendary reliability, low life-cycle cost and longer equipment life.

Food and beverage operations depend on Trane for reliable, efficient refrigeration and process air

## PROJECT PROFILE

### The client

New food processing operation and distribution center

### The challenge

Create an integrated solution for 17 rooms, applying 5 individual temperature/humidity/air flow profiles while prioritizing energy efficiency, low maintenance cost and operational reliability.

### The solution

Trane created a system pairing the primary refrigerant with a secondary glycol system. The facility's processing areas use low-velocity air units to reduce wind noise for a more comfortable, productive work environment. Tempered, filtered air is supplied, maintaining positive pressure and ensuring sanitization. A cleaning cycle was designed into processing areas for easier wash-down and sanitization. This reduces pull-down time while maintaining employee comfort. A blast chill cell pulls cooked product down quickly. The facility also includes 30,000 square feet of dry storage conditioning and dehumidification.



### Future-ready

Processing, cold storage and distribution operations need not be impacted as refrigeration technologies evolve. When new, low global warming potential (GWP) refrigerants are adopted, Trane guarantees refrigerant availability regardless of market demand and provides replacement refrigerants mandated by new rules. Our proven technology also enables us to warranty CenTraVac chillers against refrigerant leaks. Longer equipment life is a hallmark of Trane; our active long-term support of each solution is demonstrated in the many service and upgrade programs we offer.

### FULL SUPPORT AND FAST RESPONSE

Our service commitment aligns perfectly with your quality assurance commitment.

- Comprehensive detection, diagnostic, maintenance and analysis services protect your operation
- Predictive monitoring services such as leak detection, vibration analysis and remote diagnostics
- Worry-free, 24/7/365 technical and service support, immediate dispatch and follow-up with Trane's call center
- Advanced, customized controls, with instant display of operating history
- Many adjustments can be made remotely, in real time and more economically
- Two-hour rapid response for locations anywhere in the continental U.S.



To discuss facility design and construction, functional upgrades, preventive maintenance or monitoring, contact your local Trane office or visit us online at [trane.com/buildingservices](http://trane.com/buildingservices).



[ingersollrand.com](http://ingersollrand.com)

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