



ATLAS BLAST TOWER



INNOVATIVE
REFRIGERATION SYSTEMS, INC.



Innovative Refrigeration System's
ATLAS Blast Tower™ is a significant leap forward in blast freeze technology. Our design integrates over 40 years of experience into a state-of-the-art system that is more efficient, more cost effective, and faster than any other system on the market.



ATLAS BLAST TOWER™ SYSTEM

ATLAS combines patented technology developed by IRFS and our partners to produce an integrated blast freeze system. ATLAS pushes cooled air directly onto the product, rather than pulling it from the surrounding room. This significantly enhances freezing as colder air is placed exactly where it is required. ATLAS enables continuous operations through reduced batch sizes as each pallet position can begin cooling as soon as it is placed in position. ATLAS provides digital pallet level monitoring and uses a patent pending rack supported design that reduces facility construction costs.

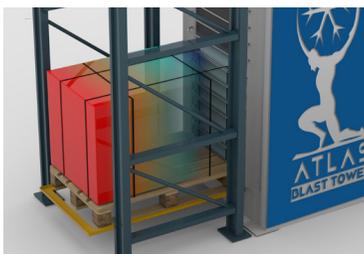
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HCR DOORS DURING OPERATION



VARYING PALLET SIZES



RACK POSITION DOORS OPEN WHEN PALLET IS LOADED



HOW IT WORKS



AIRFLOW

A dedicated “plenum” fan rapidly pushes air directly from the refrigeration system through the pallet at the coldest possible temperature. This air is up to eight degrees cooler at the pallet than other “pull-through” blast freeze towers on the market that pull air from the surrounding space. This direct airflow routing reduces pallet freeze times and improves energy efficiency.



SPEED

Since each pallet starts cooling as soon as it is placed in the system, ATLAS enables continuous operations through smaller batch sizes. Combined with the faster pallet freeze times due to airflow routing, the ATLAS Blast Tower™ achieves significantly higher throughput volumes than other similarly sized systems.



TECHNOLOGY

Product sensing and reporting starts when a pallet is placed in the system, tracking each pallet’s freeze time. When complete, ATLAS automatically sends a removal request to the materials handling system. Our state-of-the-art API integrates with your MHS/WMS and includes digital notifications to easily alert your staff by text, email, phone, tablet, or desktop.



RACK SUPPORTED

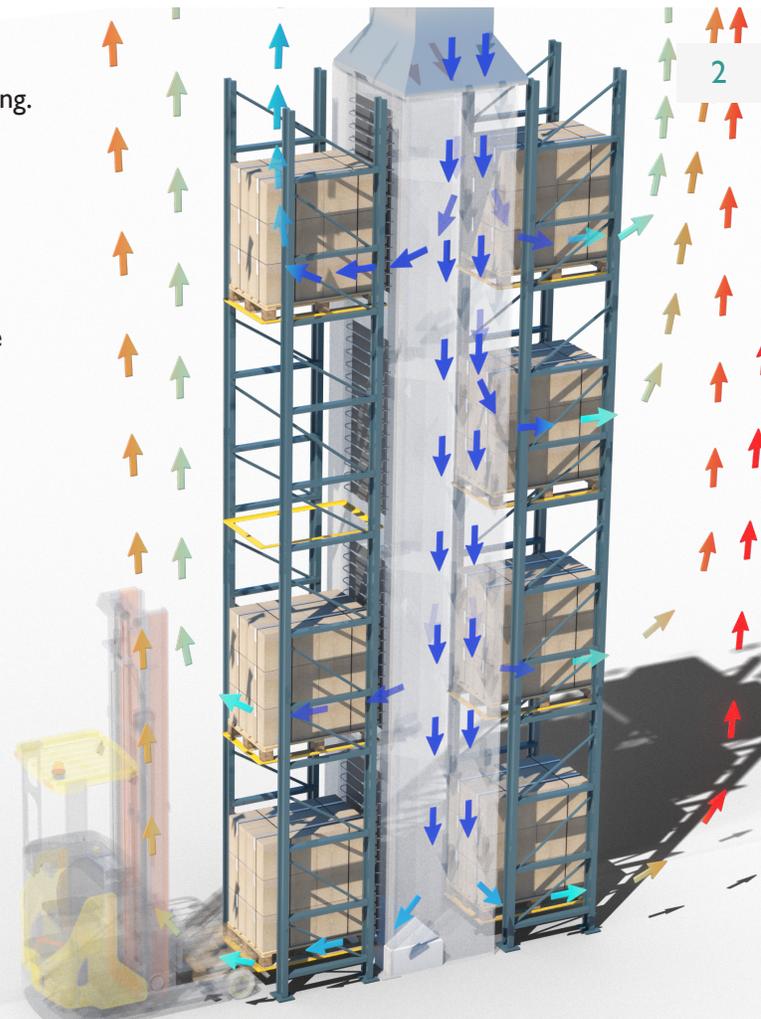
The weight of ATLAS refrigeration equipment is supported by its pallet racking system, removing the need for costly structural reinforcement of the facility that is typical in other blast freeze construction and retrofits.



INNOVATIVE DESIGN FEATURES

- ✓ Eliminates downtime with no batch freezing.
- ✓ Supports multiple pallet sizes, including partial pallets.
- ✓ Cooling is directed to occupied pallet positions only, empty pallet positions see no air flow.
- ✓ Uses off-the-shelf NEMA motors for ease of maintenance.
- ✓ Designed around light-weight spacers for easy operator handling, slatting, and de-slatting.
- ✓ Rack supported design eliminates the need for facility structural reinforcement.
- ✓ Best in class energy efficiency.

THE ATLAS BLAST TOWER™ REVOLUTIONIZES BLAST FREEZING OPERATIONS. ATLAS IS THE MOST COST EFFECTIVE AND ENERGY EFFICIENT SYSTEM ON THE MARKET TODAY.



AIR FLOW SYSTEM

Talk to our team about the
ATLAS Blast Tower™, or our
other innovative systems, including
our **ATLAS In-Rack Freezing** and
ATLAS Individual Rack Freezing systems

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DEVELOPED IN PARTNERSHIP WITH

