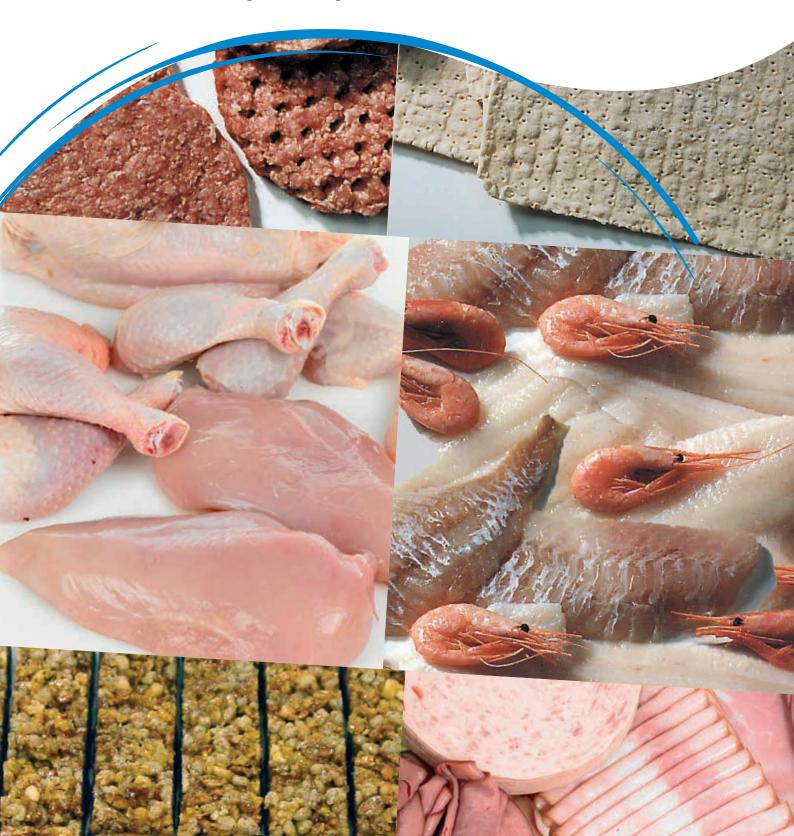


Frigoscandia ADVANTEC™ Impingement freezer

Perfect freezing & chilling



Fast, food-focused and cost-effective — Get unique benefits today



We launched impingement freezing in the 1990s because food processors needed a cost-effective alternative to cryogenic freezing of hamburger patties.

Delivering all the quality, speed, throughput and flexibility – at half the cost – impingement technology has quickly proved itself as the most efficient, food-focused method to:

- Freeze a wide range of thin or flat products, including high-value IQF products,
- Crust freeze and stabilize soft food and sticky confectionery before further processing,
- Improve throughput, yield and hygiene in deli-product slicing, and
- Rapidly super-chill raw meat products for safer chilled distribution.

Airflow technology

That delivers quality and profit

Achieving rapid heat removal without otherwise affecting the product, our patented Frigoscandia ADVANTEC™ impingement airflow technology excels – both at freezing and chilling. Dehydration is minimized. Yield is maximized. Taste, mouthfeel and product quality are assured.

Superior handling, unrivalled flexibility

The ADVANTEC technology uses a unique straight belt that moves food product through the freezing zone without wrinkling or deformation. Product shape and appearance are preserved. The result is superior quality, all the time, every time.

Custom-designed to quickly and efficiently freeze flat products up to 25 mm thick, and to chill and crust freeze products up to 200 mm thick, ADVANTEC impingement freezing is tailored to rapidly and cost-effectively freeze or chill each product you produce.

Developed to match your process needs

Our engineers are quick to adapt impingement airflow technology to suit the specific requirements of an ever-growing range of food products and processes:

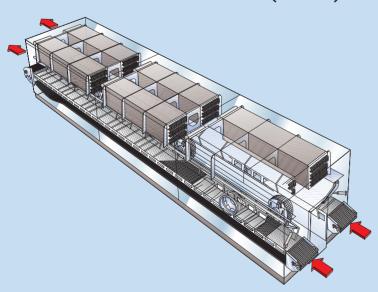
Frigoscandia impingement freezers

ADVANTEC™



Setting the standard in impingement freezing and chilling, the ADVANTEC impingement freezer is a further development of the highly successful FPF. It is the ideal means to quick-freeze small and thin products with minimal dehydration, the gentlest product handling and highest product quality.

Flat Product Freezer (FPF)



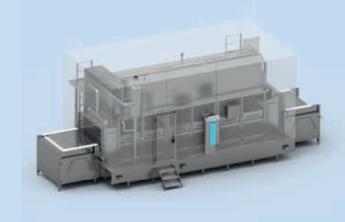
The Flat Product Freezer is a standard configuration for high-capacity formed products. It uses impingement airflow technology to deliver cost-effective, foodfocused, high-capacity freezing for thin, flat products.

ADVANTEC™ Compact Chiller (CC)



The ADVANTEC CC impingement freezer is the perfect modular 'plug-and-play' in-line production resource for small- and mid-sized processors who for instance need a faster, more cost-effective way to surface-stabilize or rapidly chill their product prior to slicing operations.

ADVANTEC™ Steel Belt Impingement Freezer



The Frigoscandia ADVANTEC™ Steel Belt Impingement Freezer combines the best features of our top-of-the-line contact and impingement freezers in one machine, and it is all you need to do the job!

Performance

- The fastest, most cost-efficient way to freeze delicate, thin products up to 25 mm thick, and to chill products up to 200 mm thick.
- Maximum yield. Dehydration less or equal to cryogenic freezing.
- Modular design makes it quick and easy to expand your production capacity as your customer demand grows.
- Optimized air velocity through the evaporator, maximizing heat transfer, frost pick-up and performance.
- Rapid cool-down and warm-up. Hygiene-by-Design[™] construction ensures quick turnaround without compromising thorough cleanliness.

Hygiene

- Stainless steel freezing area, with rounded corners and sloped surfaces, to eliminate risk of bacteria build-up.
- Fully accessible freezing zone and evaporator coil are designed for easy, efficient defrosting, cleaning and maintenance.
- Fully seal-welded 'bathtub' floor is entirely stainless steel, providing an easily drained, hygienic surface.
- Elevated construction ensures effective cleaning around and beneath the machine.
- Complete visual inspection of all surfaces, to eliminate risk of unseen hygiene hazards.

Flexibility

- Modular design enables easy expansion and rapid reconfiguration.
- Single- and double-belt alternatives, with variable belt speeds and directional controls, ensure maximum processing flexibility.
- State-of-the-art touch-screen controls to match your processing needs precisely, and simplify operators' control of the process.

Reliability & Safety

- Stable, user-friendly LINK® control system

 easy for the operator to use, and easy for maintenance and management to extract information from.
- Greater commonality with upstream- and down-stream equipment.
- Component standardization, ensuring fast, cost- effective parts replacement.
- Two-step operator commands at control panel.

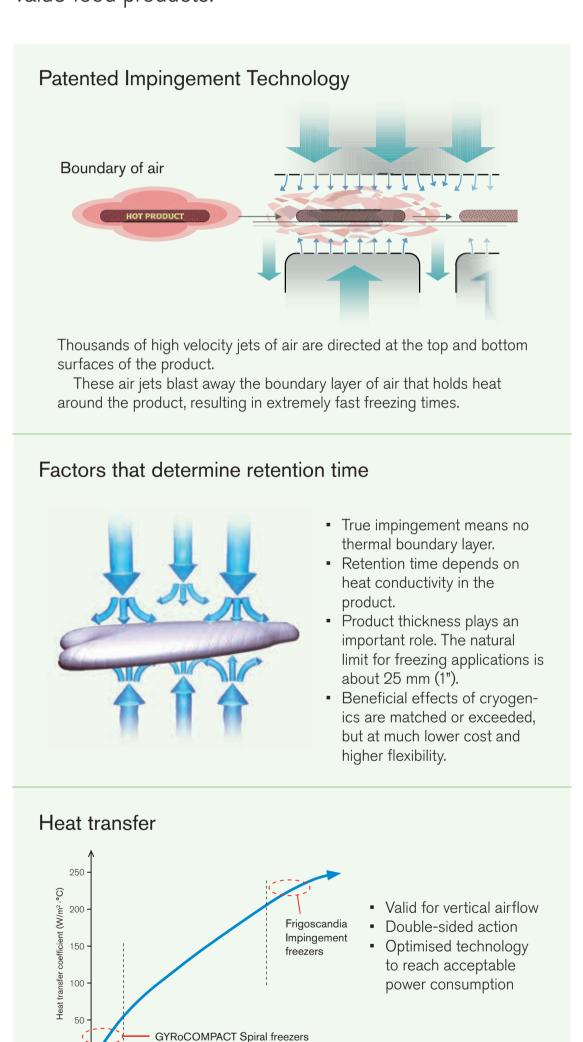
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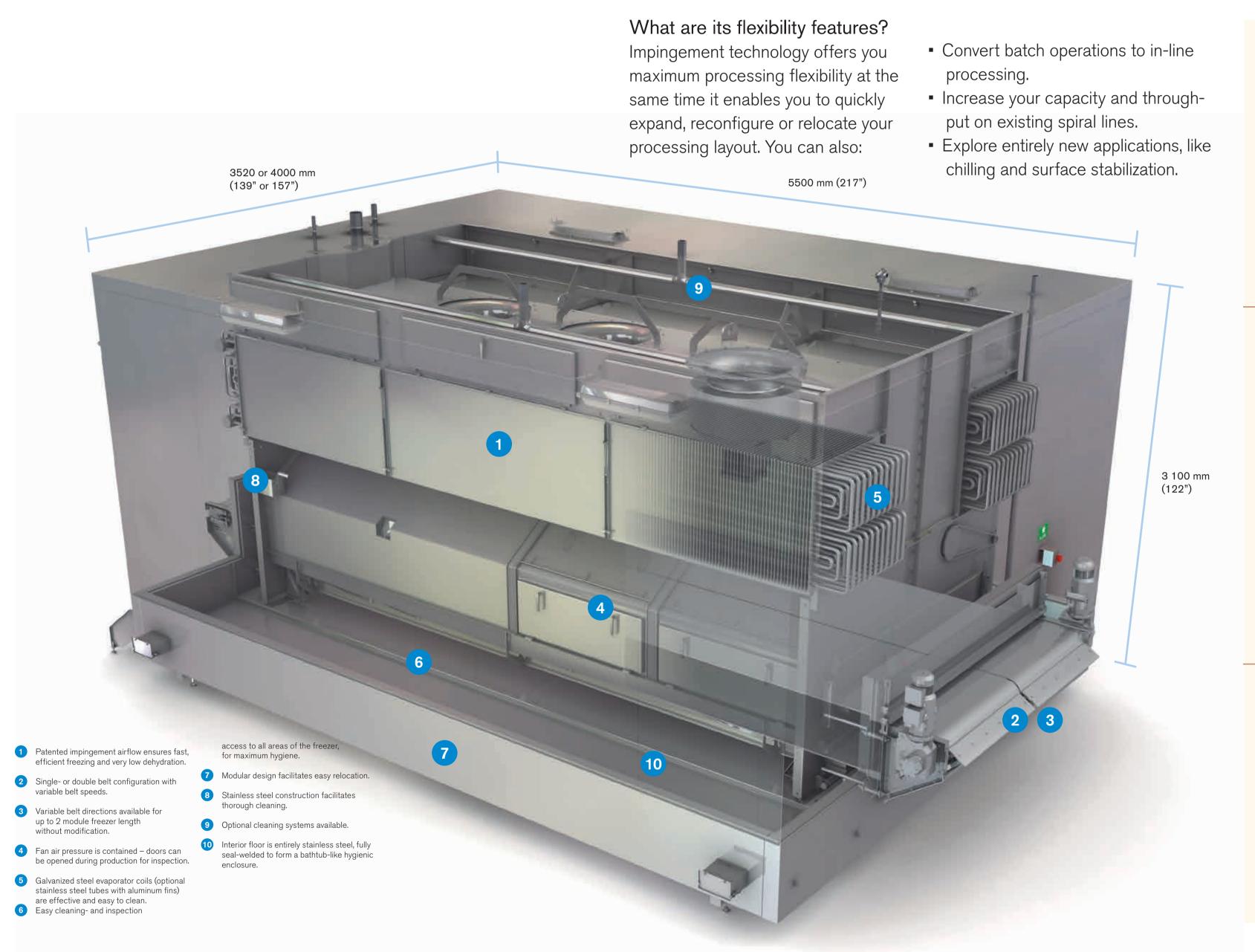
Perfect freezing & chilling



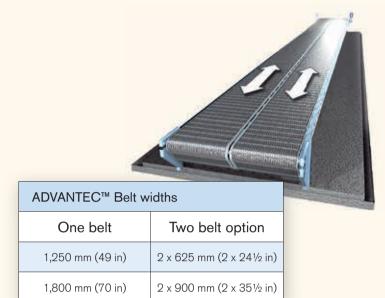
What is impingement?

Impingement technology is the best choice for foodfocused freezing or chilling of a wide range of highvalue food products.



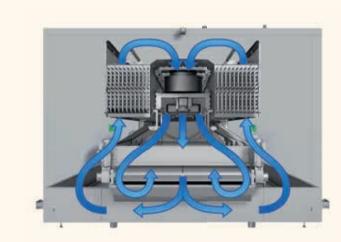


The belt that delivers throughput and flexibility



- Multiple belt widths to choose from.Straight belt assures optimum
- efficiency and use of freezing area.Two parallel belts offer greater flexibility:
- Independent speed control, to simultaneously freeze products with different thicknesses.
 U-configuration, for entry and exit of product from same end.
- Direct airflow over the product means the belt can be loaded up to 90%, to achieve higher throughput

Impingement technology ensures economy and hygiene



build-up, extend production uptime, and deliver greater freezing capacity and reliability.
Evaporator construction optimizes air valority and maximizes heat transfer

'Dry side' fans minimize snow

- velocity and maximizes heat transfer and performance. Rapid cool-down and warm-up.Galvanized steel evaporator coils
- Galvanized steel evaporator coils

 (or optional stainless steel tubes with aluminum fins) are effective and ensure easy cleaning and defrosting.

 Full visual inspection of all surfaces,
- to eliminate risk of unseen hygiene hazards.

Modular design keeps your options open

 Modular design gives flexibility to expand operation by adding extra modules to the existing one.



What is it good for?



Quick, cost-effective freezing of high-volume, high-throughput flat products.

Air velocity (m/s)



Freezing a wide range of thin or flat products, including high-value IQF products.



Stabilizing soft food and sticky confectionery before further processing.



Crust freezing and stabilizing deli products, to improve throughput, yield and hygiene in slicing operations.



Rapidly super-chilling raw meat products for safer chilled distribution.



We are your single source for profitable processing solutions

JBT can provide you with portioners, freezers, and everything in between – including process control, food product development assistance, operator training and a full range of customer support alternatives.

Our Food Technology Centers have served leading processors in development of many of the world's most popular food brands. Learn how to increase your processing potential by contacting your JBT representative or by visiting our website.

www.jbtfoodtech.com



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