Blast Chilling & Beyond K-12 Food

The benefits, functionalities & capabilities that turned "Luxury" into "Necessity"



Michael Marsh Regional Director of Sales Corporate Chef





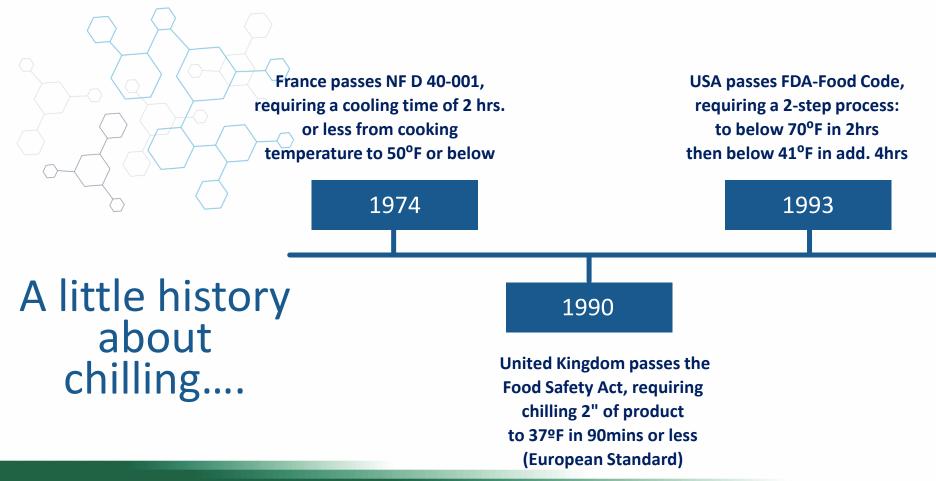
What we want...

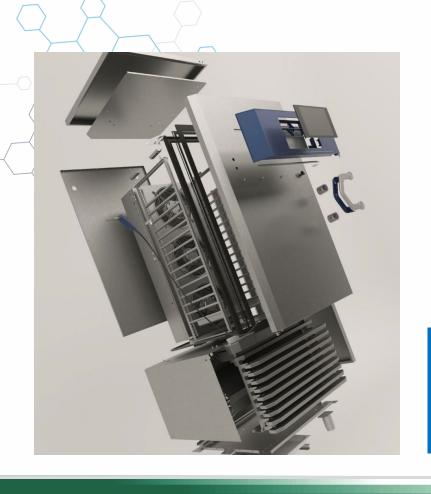
Optimal Labor Management

Better
Food Cost Control

Maximum
Product Quality

Streamlined Utility Costs





Interesting Situation...

The newly required processes could only be accomplished by specially designed machines.

Kitchens utilized ice baths, ice wands & other inefficient, and unsafe, methods for rapid chilling.



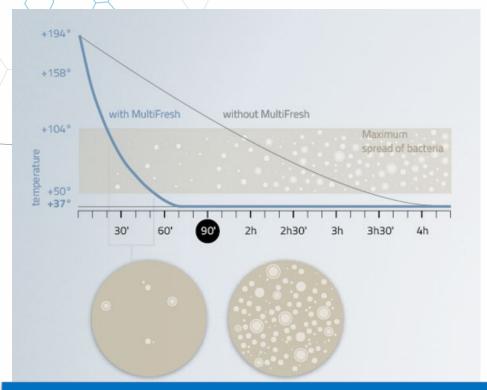
The Blast Chiller







What is Blast Chilling?



Bacteria with & without blast chilling

Blast Chilling

- Rapid removal of heat from a food product to reach 40°F or below
- Accelerated drop through the temperature danger zone minimizes bacterial growth

Blast Chillers preserve the natural goodness of the product by quickly dropping below steaming temperatures.

Evaporation

STRAIGHT FROM COOKING

80% of evaporation occures before the products temperature reaches 158F

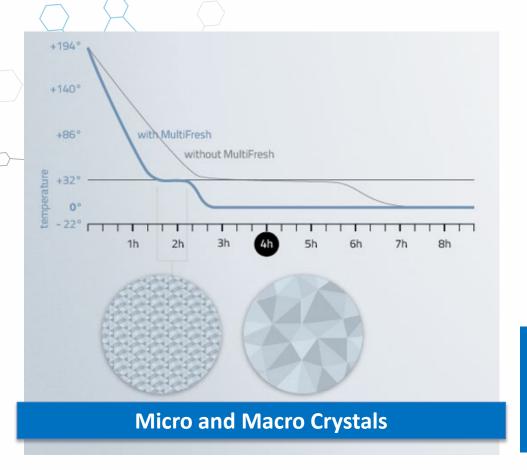


LOOSING THE

NATURAL GOODNESS:

- WEIGHT
- FLAVOR
- COLOR
- NUTRITION
- TEXTURE
- QUALITY

What is Shock Freezing?



Shock Freezing IQF

- Rapid freezing of food product to 0°F at the core, building microcrystals
- Microcrystals minimize the impact on flavor, texture & moisture of the food item when thawed properly

Shock Freezing without the loss of quality enables you to buy in valleys and use in peaks.











Helping your process

Taming the Chaos of Creativity

Culinary Math Yield & Costing

Fresh Fruit & Vegetables program

Mastering Meal Patterns



Optimal Labor Management

Shelf Life

Labor Cost

The best Blast Chiller will extend shelf life by 2 to 3 times. This is determined by how rapidly the chilling process occurs.

Extended shelf life allows the operator to produce <u>larger batches less frequently</u>, resulting in labor savings & improved labor utilization.



Better Food Cost Control

Is freezer burn & ice crystals preservation issue

Blast Chillers can help <u>increase product</u> <u>yields</u> & reduce the amount of food that goes into the trash. Not all maintain moisture equally well.

Weight loss & product

shrinkage

Rapid Shock Freezing will create microcrystals & provide unparalleled quality for products that are properly thawn.

True long-term storage.



Maximum Product Quality

Is moisture retention important to you?

Is carryover cooking a constant problem?

Natural moisture retention is <u>critical to</u>
<u>product quality & shelf life</u> of cooked foods.

Simply blowing cold air onto the product
isn't the solution

Blast Chillers can <u>reduce carryover cooking</u>
<u>by up 95%</u>. A good unit can help you
preserve freshness, capturing the exact
moment of doneness desired.



Streamlined Utility Costs

Is refrigerator maintenance a constant expense?

Are utility expenses a concern?

Blast Chillers & Shock Freezers are designed to blast chill & shock freeze, allowing the refrigerators and freezers to only hold & store

Some Blast Chillers & Shock Freezers let you choose between top performance or maximum savings. Ice baths are a thing of the past, lowering water usage

Taking full advantage of available programs





Utilize DOD funds and freeze products for use in non-peak season. Expanding the menu mix through long-term storage.

Reduce costs and handle **USDA** raw commodity products safely, less often.

Properly cooked and chilled proteins will be safer and have a longer shelf life allowing limited exposure to raw products

Other Programs?

Considerations

What factors should you reflect on when choosing a Blast Chiller & Shock Freezer for your next project?

Capacity

Load capacities can vary, not only by size. Compressor size is important, compare horse-power to load capacity.

Portfolio

Can you choose from a wide variety of Reach-In & Roll-In models, allowing you to both efficiently utilize space & meet client demands?

Support

Are you given ample pre-service & after-service support to ensure all your questions are answered?

Training

Is there a Chef to train the kitchen staff periodically, to consult when sizing up your needs or showcase the technology in a demo kitchen live?

Deciding Factors...

What sets one Blast Chiller apart from others, which manufacturers push the technology to new heights?

- Is the manufacturer setting the bar in this field, or are they focused on standard refrigeration?
- Does the Blast Chiller have extended capabilities, like low temperature cooking, thawing, proofing or re-thermalization

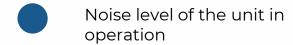


- Is Shock freezing available with my blast chiller
- Can the Chiller be used in off hours

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Other Deciding Factors...

What sets one Blast Chiller apart from others,



High volume multi rack capabilities



HACCP reporting

Other complimentary equipment

Type of Refrigerant Gas ???

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Installing

Things to know prior to install





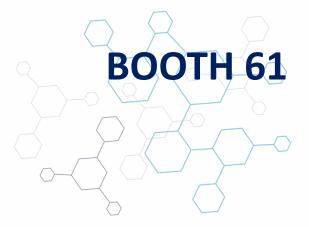
Foot Print

- Loading Dock & door openings
- Door Swing

Electrical availability

- Drainage
- Casters or legs

Q&A





THANK YOU!

Contact us to get more info

- mmarsh@irinoxnorthamerica.com howard@culinaryequipmentgroup.com
- Culinary Equipment Group Addison, IL
- 312-504-7940
- https://www.irinoxprofessional.com/usa/