



## **Freshline<sup>®</sup> Batch Freezer**

**For fast, economic, discontinuous freezing  
of cook-chill and cook-freeze products**

The Air Products Freshline® Batch unit uses the unique qualities of liquid nitrogen refrigeration for fast economic chilling or freezing of foods. The Freshline® Batch has been specifically designed to meet the stringent needs of cook-chill and cook-freeze in the catering industry. It is also ideal for food processors with batch or low volume freezing/chilling requirements.

- High performance
- Versatile
- Easy to use
- Uses liquid nitrogen at  $-196^{\circ}\text{C}$

### How does it work?

The Freshline® Batch liquid nitrogen refrigeration system consists of an insulated food grade stainless steel cabinet with three custom designed fans and liquid nitrogen injection system. Liquid nitrogen at  $-196^{\circ}\text{C}$  is injected into the fan generated gas stream. The super cooled gas stream passes evenly over the tray or trolley mounted containers quickly refrigerating the products. Typically the Freshline® Batch takes 20 minutes to refrigerate 100 kg of product. Both in-out and straight through versions are available for both multirecipe and standard.

### For more information

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### Freshline® Batch Multirecipe:

- Permanently stores eight freezing/chilling recipes
- Recalls recipes at touch of a button
- Contains the normal temperature and time variables
- Freshline® Batch temperature can be varied throughout the timed recipe
- Prevents edge freezing whilst maintaining high cooling rates
- Alpha-numerical display shows process time and batch temperature updates
- Onsite operator training provided
- Designed to accept industry standard trolleys eg. GASTRONORM

### Technical data

Model		CB1200	CB2400
External height	A	2125mm	2265mm
External width	B	1572mm	2092mm
External depth	C	1650mm	1650mm
Internal height	D	2000mm	2140mm
Door width	E	730mm	1250mm
Internal depth	F	1400mm	1550mm
External height	G	2720mm	2685mm
Volume		1.2m <sup>3</sup>	2.4m <sup>3</sup>
Weight		1200kg	1800kg

Electrical supply: 3 Phase 400V 50Hz 12A max.

Liquid nitrogen supply: 15mm, stainless steel or Cu Pipe.

Maximum refrigeration capacity: 60-90 kW.

Normal refrigeration capacity: 25-50 kW.

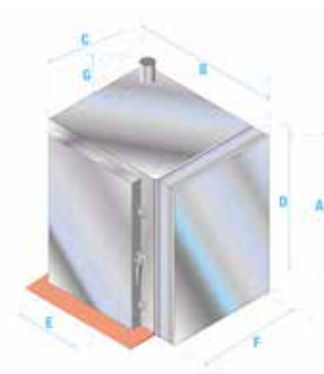
Air pressure: 5-7 barg.

Exhaust details: stainless steel ductwork 200 mm diameter; connected to exterior of the building.

### Freshline® Batch Standard

If the requirement is for continuous processing of a single product, the Freshline® Batch Standard has been manufactured with simplicity in mind.

The Freshline® Batch Standard features the same fans and liquid nitrogen injection system as the Freshline® Batch Multirecipe except that the temperature and process time are manually set. To maximise efficiency a separate time controlling the liquid nitrogen injection time has been incorporated, allowing residual cold to be transferred to the product.



#### Ireland

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