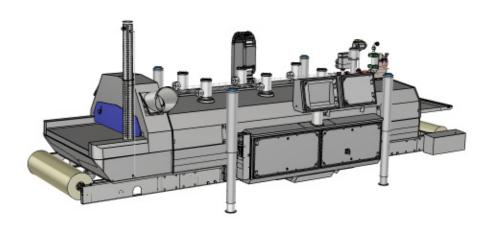


CRYOLINE® SC. Super contact freezer.



Concept

Achieving desirable food products is challenging as consumers increasingly demand safer and more appealing food choices. To fulfill these requirements, chilling or freezing is the preferred preservation method to increase shelf life and maintain food quality. However, there are several products that are either too delicate or do not maintain shape well when processed in traditional mechanical freezers.

The CRYOLINE® SC cryogenic freezer from Linde is designed to process delicate, sticky and hard-to-handle products in an efficient and hygienic way. It uses a disposable plastic film which acts as the conveyor belt travelling through the freezing tunnel over cryogenically refrigerated plates. These plates operate at -196 °C, rapidly and effectively freezing the contact surface of the product, while the tunnel environment is cryogenically cooled by liquid nitrogen to reduce the entire product temperature. The consolidated features of this freezer technology deliver products free from belt marks and wrinkles which can be easily handled for further processing. Due to the nature of the belt, soft, wet or sticky products can be managed without product deformation or adhesion – even liquids can be frozen with ease. As the belt is disposable, the freezer can be quickly and efficiently cleaned at the end of production, ready for the next day's use, and product changes do not require expensive delays.

Features and benefits

- → Handles soft, sticky or marinated products with ease, reducing handling and spoilage
- ightarrow Leaves no belt marks or deformation due to the plastic film belt, giving better appearance and quality
- → Easy to clean, as all parts are accessible, reducing cleaning time and improving hygiene
- ightarrow Due to the single-use film, different products can be processed without cleaning steps
- → The gas control system makes optimum use of the liquid nitrogen, ensuring high efficiency
- → High capacity in a small space, making optimum use of the available space
- → Low capital investment required
- → Newly updated to state-of-the-art controls
- → Easy-to-use, multi-language touch-panel interface
- ightarrow Production events and trends downloadable for full traceability

Model range

The CRYOLINE SC cryogenic freezers come in two standard widths 600mm and 1250mm, with the basic model having a usable length of 5 metres. It is also modular, with the possibility of adding 3-metre tunnel sections to boost capacity, where required. Each freezer is based on the shell of the highly successful CRYOLINE MT, which offers great accessibility combined with tried-and-tested reliability. The required freezer size depends on the throughput of products, their temperature and bulk density. The method of feeding the product into the freezer also has to be taken into account.

11000

14000

1600

1600

2

3

1.5-45

2.0-60

Operation

The CRYOLINE® SC is a contact freezer which removes the heat from the product by contact with the cold plates. The gas generated by the vaporisation of the liquid nitrogen is then exhausted to the atmosphere. As the temperature of the exhaust is controlled, the amount of cold extracted from the nitrogen can be optimised according to the production demands. High-speed fans circulate the cold gas atmosphere inside the tunnel and help to freeze the upper surface of the product.

Technical data						
	Overall length	Overall width	Height opened	Height closed	Retention time	Modules
CRYOLINE SC 1250		_	_		-	
1250-5						
1250-8	5000	2225	2650	2100	0.5-18	0
1250-11	8000	2225	2650	2100	1.0-30	1
1250-14	11000	2225	2650	2100	1.5-45	2
	14000	2225	2650	2100	2.0-60	3
CRYOLINE SC 600	·				<u> </u>	
600-5						
600-8						
600-11	5000	1600	2650	2100	0.5-18	0
600-14	8000	1600	2650	2100	1.0-30	1

2650

2650

2100

2100

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