arctic a9.

HEINEN FREEZING

spiral pasteurizers.
spiral proofers.
spiral freezers. spiral coolers.
fluidised bed freezers.
multilevel box freezers.

system.

Conveyor direction	Up		Down	
Direction of rotation	Clockwise		Counter-clockwise	
Layout	0°	90°	180°	270°
Infeed height	800/950[1] mm		5000 mm	
Discharge height	5000 mm		800/950[1] mm	
Number of tiers	12 to 32			
Product height	50 to 300 mm			
Capacity of drives	7.5 + 0.75 kW			

belt.

Belt material	Stainless steel 1.4301	Plastic (PP/POM/PA)
Belt width	914 mm	
Useable width	approx. 840 mm	
Belt length per tier	18.4 m	
Belt surface per tier	14.2 m²	
Belt speed	approx. 3 to 30 m/min.	

air cooling unit.

Fin surface	1600 m²	2000 m²	2500 m²
Material pipes/fins	Copper/Aluminium		Stainless steel/Aluminium
Defrosting medium	Air	Hot gas	Electric
Air temperature	-30 °C		
Fan	3 x 13 kW		

refrigeration data.

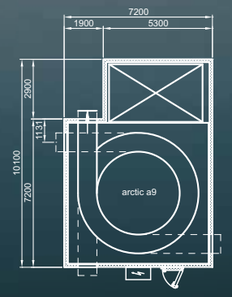
Capacity	250 kW	320 kW	400 kW
Refrigerant	R717 Ammonia, R507, R404, other refrigerants upon request		
Evaporating temperature	-38 °C		

electrical data.

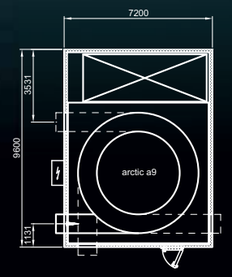
Power requirement	50 kW
Connected load	67 kW
Supply voltage	230/440 V, 3-phase, 50 Hz

1) for 270° layout only

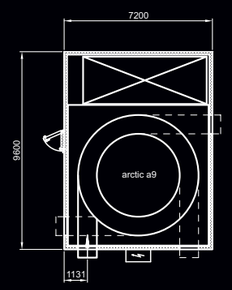
Layout 0° / 90° / 270°



Layout 0° / 180° / 270°



Layout 90° / 180° / 270°



Layouts also possible as mirror image.

Subject to technical modifications.

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spiral freezers. spiral coolers.
meeting the highest demands.

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flexible.

As a single or double drum system, upwards or downwards conveying, four layouts and three system diameters, and installed on the factory floor, a foundation or on a frame, the arctic meets all requirements in terms of capacity and integration in process and building.

sophisticated.

Wall and ceiling panels of the insulating enclosure are lined with stainless steel, while the floor is designed as a fully seam-welded stainless steel tray with defined drains. The interior of the enclosure is accessed by means of an insulated stainless steel door with contact switch and electric frame heating.

versatile.

The conveyor system can accommodate a variety of different belts. Stainless steel or plastic belts, with open or closed belt surface, with small or large pitches, and with or without side plates.
The stainless steel and plastic belts can be retrofitted at a later date.

reliable.

Designed for industrial multi-shift applications, the highest degree of reliability is guaranteed by the smooth belt guidance via drum and frequency-controlled main drive and overdrive motors, the use of high-quality components, and the minimum of moving parts.

functional.

The arctic offers state-of-the-art PLC controls, several remote service and communication options, programming and saving of all product and system parameters in recipes, plus elaborate visualization (3D images of the system, temperature trends, etc.) on a colour touchscreen.

efficient.

At the end of each shift, defrosting can be carried out using hot gas or electrical heating methods. The the snow blow-off system can extend the production time before defrosting becomes necessary.
Sequential defrosting works continuously to allow production times of 144 h without interruption.

modular.

The simple belt cleaning system, with a pump unit for increasing pressure generating foam can be progressively upgraded into an extended cleaning system or even further into a fully integrated cleaning system that cleans the entire interior in addition to the belt and the conveyor system.

adaptable.

Whether equipped with a loading conveyor for the transfer of form sensitive products onto the already collapsed belt, a horizontal infeed conveyor for safe delivery at the infeed or a discharge conveyor for the downstream system – the arctic adapts perfectly to every layout.

customised.

The arctic can be realised with numerous options, such as an insulating enclosure with a stainless steel exterior or a fully welded insulating enclosure, frequency-controlled fans, air cooler rinsing device, in asymmetrical layouts, or as a twin-belt system - custom-designed to meet your needs.