

freezelite.

HEINEN

FREEZING

system.

Series	f 15	f 25	f 35
Capacity (green peas $t_{in} +15^{\circ}\text{C}$, $t_{out} -18^{\circ}\text{C}$)	1500 kg/h	2500 kg/h	3500 kg/h
Conveying system	Single belt system	Double belt system	Double belt system
Infeed height	2350 mm	2600 mm	2600 mm
Discharge height		1940 mm	
Number of modules	-	2	2
Pre-freezing zone			
Number of modules	3	3	3
Main freezing zone			
Capacity of drives	1 x 0,25 kW	2 x 0,25 kW	2 x 0,37 kW

belt.

Belt material	Stainless steel 1,4301 or plastic (POM/PA)		
Belt width	880 mm	880 mm	1180 mm
Useable width	800 mm	800 mm	1100 mm
Belt surface		2,1 m ²	2,9 m ²
Pre-freezing zone			
Belt surface			
Main freezing zone	3,2 m ²	3,2 m ²	4,4 m ²

air cooling unit.

Fin surface area	1100 m ²	2100 m ²	1600 x 2 m ²
Material pipes/fins	Copper/aluminium or stainless steel/aluminium		
Defrosting medium	Air	Hot gas	Electric
Air temperature		-30 °C	
Fans Pre-freezing zone	-	2 x 9 kW	2 x 9 kW
Fans Main freezing zone	3 x 9 kW	3 x 9 kW	3 x 9 kW

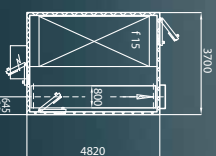
refrigeration data.

Capacity	200 kW	300 kW	420 kW
Refrigerant	R 717 Ammonia, R507, R404, other refrigerants upon request		
Evaporating temperature	-38°C		

electrical data.

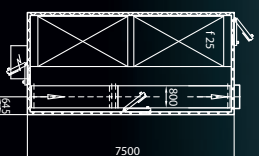
Power requirement	30 kW	48 kW	58 kW
Connected load	38 kW	60 kW	73 kW
Supply voltage	230/440 V, 3-phase, 50 Hz		

Layout f 15

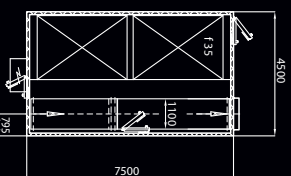


Subject to technical modifications.

Layout f 25



Layout f 35



Layouts also possible as mirror image.

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



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freezelite.

fluidised bed freezers.

compact performance. intelligent design. efficient technology.

flexible.



Due to the different number of modules in the pre-freezing and main freezing zone, the system can be designed exactly for the desired product and performance. Frequency-controlled drives provide the flexibility necessary to handle different products in a single system.

sophisticated.



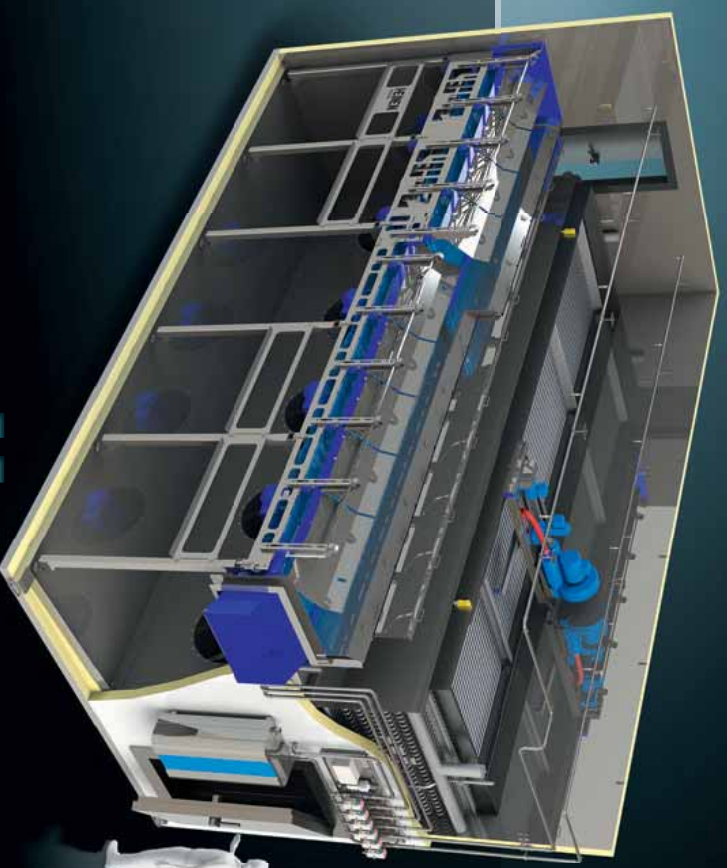
The wall and ceiling panels of the insulating enclosure are lined in stainless steel, while the floor is designed as a fully seam-welded stainless steel tray with defined drains. The interior of the enclosure is accessed by means of two insulated stainless steel doors with contact switch and electric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

versatile.



Light or heavy, soft or hard, or brittle and shape-sensitive - every product is different. The freezeelite can accommodate a variety of different belts made of stainless steel or plastic. The stainless steel and plastic belts can be retrofitted at a later date.

freezeelite.



practical.



Pre-assembled modules allow fast installation as well as installation in practically any production line arrangement at the same time. With its compact design, installed on the floor, on a foundation or on a frame, the freezeelite is the ideal system for small and medium capacities.

functional.



The freezeelite 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.



Every freezeelite can be defrosted with air using the fans when the refrigerant supply is switched off. Furthermore, it is possible to support and efficiently perform the defrosting process using hot gas or electrical heating elements. The snow blow-off system can lengthen the production time without defrosting.

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 an extended cleaning system that cleans the entire interior in addition to the belt and conveyor system.

reliable.



The design for use in industrial multiple-shift operations; the ideal accessibility for cleaning, maintenance, and service; the use of high quality components, and the elimination of many moving parts guarantee the highest possible reliability.

customised.



The freezeelite can be realized with numerous options, such as an insulating enclosure with a stainless steel exterior or a fully welded insulating enclosure, camera inspection, or an extended infeed for continuous belt cleaning - custom-designed to meet your needs.

