

packfrost.

HEINEN
FREEZING

system.

Series	pf 5	pf 7
Number of levels	10 to 30	
Number of shelves in a row	10 to 40 / 20 ¹⁾	
Clearance	435 mm	
Capacity of drives	22 kW	30 kW
Number of air cooling units	3 to 6	2 x 3 to 2 x 6

shelves.

Width	5800 mm	7500 mm
Depth	650 mm	1250 mm
Surface area	3.8 m ²	7.3 m ²
Number of boxes (600 x 400)	12	24
		16
		32

air cooling unit:²⁾

Fin surface area	1 x 1700 mm ²	2 x 950 m ²
Pipe/fin material	Stainless steel/Aluminium	
Defrost medium	Air	Hot gas
Air temperature	-30 °C	
Fan	3 x 9 kW	2 x 11 kW

refrigeration data.

Capacity	1 x 950 kW	2 x 680 kW
Refrigerant.	R 717 Ammonia, other refrigerants upon request	
Evaporating temperature	-38°C	

electrical data.

Power requirement	100 kW to 300 kW
Connected load	125 kW to 375 kW
Supply voltage	230/400 V, 3-phase, 50 Hz

¹⁾ depending on shelf size
²⁾ Specified per air cooling unit

Layout

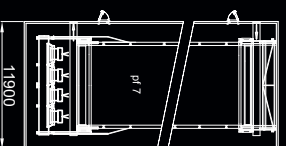


Subject to technical modifications.

Layout pf 5



Layout pf 7



Layouts also possible as mirror image.

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



packfrost.

multilevel box freezers. big technology. for big jobs.

modular.



Different shelf sizes and a storage system that is variable in terms of the number of stacked levels and the number of shelves in a row allows a modular system design according to the required freezing capacity and number of storage locations as well as the overall dimension.

functional.



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

adaptable.



The products can be stored in order or randomly. All levels are freely selectable and can be assigned to products with same retention time. The system can be optimally adapted to reduced production outputs using the block operation mode.

independent.



The products are moved on the shelves in a manner that is gentle to the packaging and provides you with considerable freedom in the selection of package sizes and package types. You can therefore simultaneously cool or freeze products in cartons, in trays, or in plastic containers (e.g. E1, E2, or E3) in a single system.

energy-saving.



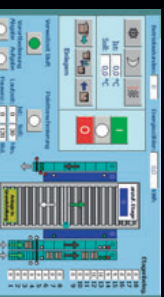
The continuous monitoring of the thermal load in the system enables the intelligent control of the number of active fans, the air speed, and the air volume. When the demand drops, entire air cooling units are switched off and actively defrosted.

economical.



Air coolers with reduced pressure losses and a flow-optimised cold air circulation ensure economical operation of the system. Active air locks on every input and output of the system as well as sequential defrosting guarantee continuous operation 365 days a year.

intelligent.



The integrated storage location management provides an overview of the number, position, and remaining retention times of the products. Processes such as placing in storage, removing from storage, or both at the same time are pre-programmed and just as easy to call up as the programs for maintaining and diagnosing errors in the system.

reliable.



High operational reliability and outstanding system dynamics due to the systematic reduction of all movable parts and due to a drive design that uses ultra-modern servo technology. Integrated incremental encoders enable exact positioning as well as continuous self-checks of the system.

customised.



The packfrost can be realized with numerous options, such as frequently-controlled fans, stainless steel insulated floors, or camera inspection systems. We also offer custom logistics systems from processing to sorting and palletising, including laser scanners and check weighers.

packfrost.

