

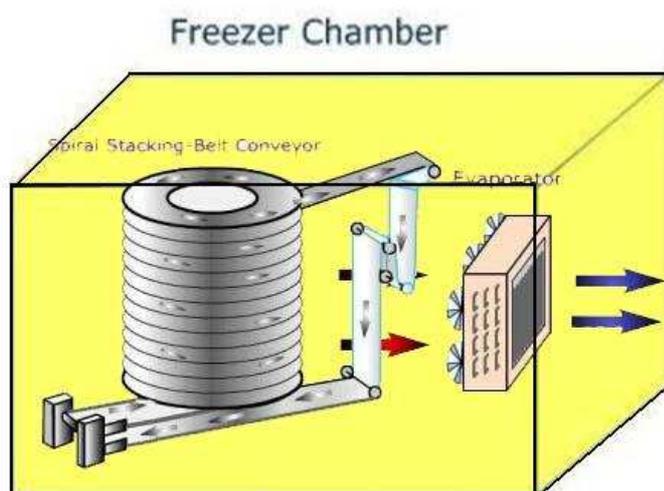
IQF Spiral Quick-Freezer

Comparing with other type IQF food freezers, spiral freezer system has its own advantages. There is a long mesh-belt in the body of the freezing system. The frozen foods stay in the cryogenic surrounding for long time. It has enough time to freeze the foods more deeply. Thanks to the long time freezing, the spiral freezer can work with small capacity compressor, it will save more investment in the refrigeration system. In the same floor space, spiral quick freezer has larger freezing capacity. Spiral freezer system is widely used for freezing bakery, meat, poultry and seafood. Like chicken, pork, shrimp and etc.



The standard models of spiral freezer system manufactured By Chenguang include single and double spiral drum. The capacity is from 500-2000 kg/h. We also provide the solutions to customized demand. We can design the freezing capacity, equipment size, belt length, inlet and outlet directions according to customers' indication.

a spiral air blast freezer has three major components



- an endless conveyor belt stacked into a spiral
 - an evaporator heat exchanger with fans
 - an insulated chamber to enclose the freezer
- spiral freezers are popular because they provide more capacity for same floor area

The endless conveyor belt is made form steel mesh so that air can easily pass through it. The conveyor is self stacking, thus forming a spiral

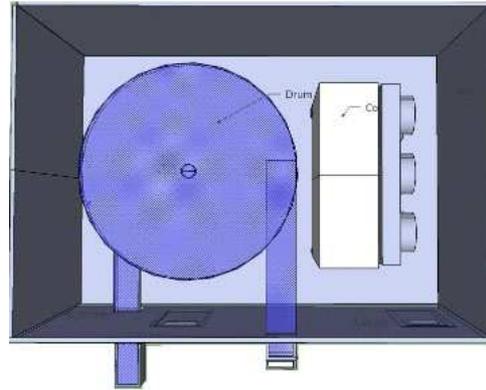
Features of Spiral Freezer

1 Complete aluminum alloy evaporator is convenient for cleaning, high efficiency in

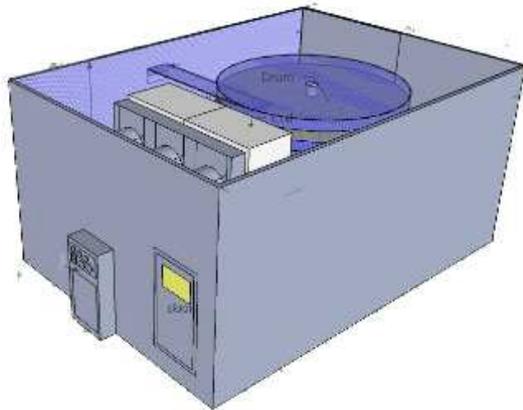


refrigerating. It works in 8 hours without defrosting. Mesh-belt is made of SUS304 high strength stainless steel wire. The freezing food can be frozen in mesh-belt directly. The very smooth belt won't leave any vestige in the freezing food.

2 Air course design particularly. Spiral tower and the outside wind shield of evaporator are design as symmetrical and gliding circle wind shield. This design increase the effect of heat exchange for freezing food, and won't lose the coldness at the enter. The operator can go to the room for viewing the equipment working at any moment.



3 Major components is made of stainless steel material, meet the requirements of food hygiene. It adopts overhead under frame and can be set up in flat. It is installed conveniently very much with no particular request for the base ground.



4 Whole inner surface is made as stainless steel water tank which won't be leak, clean easily and discharge conveniently. Powerful cleaning devices which is in material entering path wash and blow the web-belt at any moment in order to ensure belt hygiene.

5 Compact construction, Small volume, the direction of inlet and outlet for foods can be designed according to customers request. Spiral conveying is adopted the advantage technology which is introduced from abroad. Web-belt working is adopted frequency conversion controlling and speed can adjust without steps.

6 You can choose the most suitable processing capability from 300kg/h to 2000kg/h, and we can design it according to you conditions. The scope of application: It could quick freeze roast eel、divided meat、aquatic products、nursing food、flour food and other piece, granular and belt food, especially for the freezing food which is thick, big and hot. (Like precooling after baking, frying, steaming)

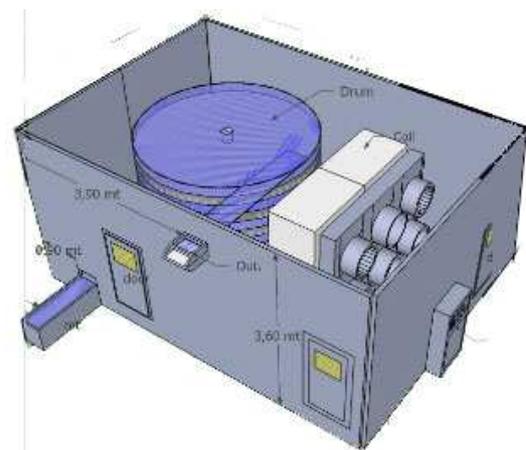


Table 1-Specification and Performance data Of Single Spiral Freezer



Model Item	STD-I-300	STD-I-400	STD-I-500	STD-I-750	STD-I-1000
Freezing capacity (KG/H, based on shrimp)	300	400	500	7500	1000
Freezing Time <u>Min</u>			40-60		
Refrigeration consumption <u>KW</u>	55	70	85	125	165
Overall dimension <u>M</u>	8.6×3.7 ×3.3	9.7×4.6 ×3.3	10.5×5.3 ×3.3	10.5×5.3 ×4.3	12.2×5.5 ×4.3
Installed power <u>KW</u>	9	12	15	20	30

Table 2-Specification and Performance Data of Double Spiral Freezer

Model Item	STD-II-500	STD-II-750	STD-II-1000	STD-II-1500	STD-II-2000
Freezing capacity (KG/H, based on shrimp)	500	750	1000	1500	2000
Freezing Time <u>Min</u>			60-90		
Refrigeration consumption <u>KW</u>	85	125	165	245	325
Overall dimension <u>M</u>	12.5×4.6 ×3.3	13.1×4.6 ×3.3	16.1×5.3 ×3.3	16.1×5.3 ×4.3	17.6×6.5 ×4.3
Installed power <u>KW</u>	20	24	32	40	46

Technical Changes

The data and illustrations in this catalogue are not binding and only provide an approximate description. We reserve the right to make changes to the product delivered compared with the data and illustrations in this catalogue, e.g. in respect of technical data, design, fittings, material and external appearance.

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