

# MODULAR PACKAGED SPIRAL FREEZER



**ICS Innovative Conveyor Systems BV, one of the leading suppliers for site built spiral freezers, proudly presents the Modular Packaged Spiral Freezer.**

The ICS Modular Packaged Spiral Freezer, produced in various modules depending on size, is an unique concept of fully stainless steel welded spiral modules (inside and outside) that meet the highest hygiene standards. These modules consist of a stainless steel seamless welded insulating housing equipped with a fully welded spiral framework and evaporator.



The ICS Modular Packaged Spiral Freezer is provided with a spiral conveying system constructed of fully welded stainless steel. Depending on the application the spiral conveying system can be delivered in various widths and lengths according to the capacity. The belting is supported by stainless steel belt support provided with extruded plastic wear strips. Together with the stainless steel columns this creates the spiral framework around the drum. The conveyor drum is made from stainless steel and designed for easy cleaning. Cage bars are vertical provided to give positive friction towards the conveying belt. The spiral conveying system is provided with various safety features to ensure smooth belt operation during various temperature changes and operating conditions. The conveyor drum is provided with a drive system located on top of the freezer. Together with the belt drive the overdrive can be adjusted resulting in low tension which avoids damage and excessive wear.



# ICS



The ICS Modular Packaged Spiral Freezer is equipped with a number of evaporators, depending on application and runtime without defrosting. Each evaporator is a continuous horizontal fin and tube heat exchanger. Each evaporator is customised specifically designed for the machine application. Air is drawn through the evaporator. A large overall evaporator face and wide fin spacing are used to ensure long periods between defrost. Large flow fans circulate cold air with the required air volume to create the intensive air circulation.

The ICS Modular Packaged Spiral Freezer can be provided with an Internal Cleaning System C.I.P. Depending on the requirements the C.I.P. consists of different parts which are manual or automatically controlled. The system is suitable for the connection to an existing ring pipe system with cold or warm water. The belt washer is placed within the system and cleans the belt from various positions.



## UNIQUE SELLING POINTS OF THE ICS MODULAR PACKAGED SPIRAL FREEZER:

The ICS Modular Packaged Spiral Freezer has a **minimum on-site installation** because of the modular way of production. Depending on the number of modules final welds must be made to finish the complete spiral freezer, ready for production just days after delivery.

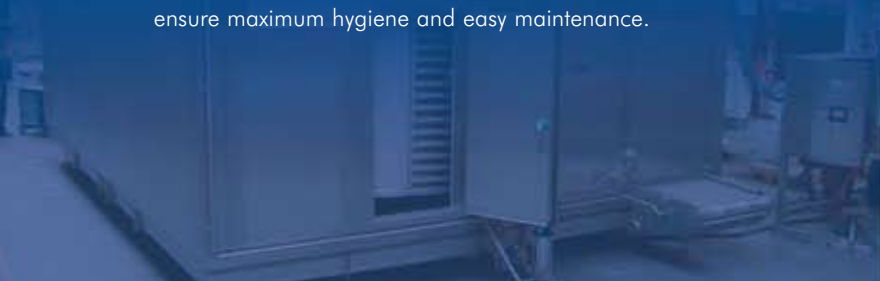
The ICS Modular Packaged Spiral Freezer ensures a **high freezing yield** which is achieved with the unique horizontal intensive air circulation. This intensive air contact gives a high efficient cold transfer and this will lead to a fast equable freezing process.

The ICS Modular Packaged Spiral Freezer is assembled by our own **pre-fabricated insulated stainless steel panels**. These insulated panels, two sided provided with a 2 mm. stainless steel plate, are provided with high density foam to ensure **high insulating rating**.

The ICS Modular Packaged Spiral Freezer is completely **made out of stainless steel** and **completely welded**, inside and outside. This will ensure an optimal hygienic situation.

The ICS Modular Packaged Spiral Freezer is provided with a self supporting framework. Because of this set-up we **no longer need a special concrete floor and no floor heating**. This also means that the machine **easily** can be **relocated** if required.

The ICS Modular Packaged Spiral Freezer is provided with **drives all placed outside the modular packaged spiral freezer** which ensure maximum hygiene and easy maintenance.



### ICS Innovative Conveyor Systems BV

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