

New Technologies in refrigeration

## **IQF CONTACT FREEZER**



The contact freezer features a thin polyethylene film conveyor belt.

This passes over a high efficiency aluminium plate filled with pumped ammonia or direct expansion gas .

On the upper part, inside the insulated cover, the evaporators provides a high speed air injection towards the product allowing one of the fastest and most efficient freezing processes known.

An easy to use and fast cleaning device, the throwaway film guarantees high hygiene standards with a unsignificant cost per kg of product.

Retention time, air speed and other characteristic can be easily setup with the digital control panel or with the more traditional electromechanical panel.

Particularly suitable for thin products, even in consistent weight.

Fish, meat, shrimps, sauces drops, vegetables cubes, semiliquid cream layer, PET trayed products and many others.

The bigger machine, 12 meter long by 2 meter wide, is usually capable of a production rate between 700 up to 1000 Kg/h, depending on product characteristics.



**Digital Control Panel** 



**Product output** 



**Evaporator with fans** 



## bi freezer

## **IQF CONTACT FREEZER**



## Standard available sizes:

Plate measure		production rate	Refrigeration	Base Load	Electrical Power Requirements	Number of fans
12 x 2	24 m²	4001000 Kg	130KW	18 KW	21 KW	12
12 x 1.5	18 m²	300750 Kg	100KW	18 KW	21 kW	12
8 x 2	16 m²	250600 Kg	75 KW	9 KW	12 KW	6
8 x 1.5	12 m²	170400 Kg	60 KW	9 KW	12 KW	6
6 x 2	12 m²	125300	45 KW	9 KW	12 KW	6
6 x 1 5	$9 \text{ m}^2$	90 220	38 KW	9 KW	12 KW	6

Refrigeration system:

Pumped ammonia or direct expansion

Gas: R404a, R507, R717

Retention time (special configurations upon request)

Plate lenght	12	8	6	meter
Standard 1	6 15	40 10	30 7	minutes
Standard 2	45 12	30 7	22 6	minutes
Standard 3	35 9	25 6	18 5	minutes

Polyethilene film: 10-20-30 micron thickness, Typical load: up to 500 Kg on entire plate

Power supply: 400V3Ph+N+G Frame: Stainless steel

Plate: Aluminium, internal volume 8.6 liter/m² Evaporator: Stainless steel and aluminium

Evaporator fin spacing: 12 mm

Fans: 1.5 KW, 14000 m<sup>3</sup>/h @ 60 Hz, Inverter driven (each)

Traction system: Adiprene rolls with inverter driver motor and gear reducer Waste Film collector: low constant torque brushless motor on waste roll axis

Insulated Cover: single frame in fiberglass food grade gel coated, hydraulic lift system (25 cm) to allow film posi-

tioning and cleaning



**Standard Control Panel** 



**Digital Control Panel**