

# FRESER

SPECIALIZED MANUFACTURER OF FOOD FREEZING MACHINERIES

## 接觸式凍結機

CONTACT FREEZER



先日光冷凍工業股份有限公司

O.S. FRESER INTERNATIONAL CORPORATION

# 接觸式凍結機

## CONTACT FREEZER

### 凍結速度和品質

原料或成品凍結時，在通過 0°C 至 -5°C 之“最大冰結晶生成帶”的速度，將影響其品質的鮮度；採用急速凍結處理，所生成的冰晶微細而量多，不會破壞成品細胞組織，保存了鮮度和品質，解凍時養份水份流失少；失重率低，才能夠提高冷凍食品的價值及利潤。

### 凍結方式

**接觸式凍結機** 將凍結食品排列置入凍結盤，再把數個凍結盤用較大的外盤承托，放入凍結機的凍結板間。凍結板是使用高效率熱傳導鋁合金製造，在 -35°C 的冷媒流經其板內槽冷卻。操作時利用電動油壓裝置而控制上下間距，壓著凍結盤，使食品上下面直接接觸冷卻。

比較傳統冷風凍結方式，可縮短一半以上的時間來完成凍結。同時達到冷藏與保有鮮度和風味的最佳效果。

### CF 設備特點

- **驚異的凍結速度**：鋁合金凍結板上下壓著式的雙面凍結法，配合 -35°C 冷媒液流經其板的內槽冷卻，比傳統冷風凍結縮短一半以上的時間，達到完全凍結的效果。
- **整體式不佔空間**：庫門雙片兩節式設計，開啓時門幅小；可採前後兩面開門，一進一出，以利成品迅速輸送至包裝作業，而提高作業效率。
- **常溫下安全作業**：獨立的箱型庫體，在室內常溫時即可作業，在長時間作業時，不致受低溫環境影響下工作確保人員安全健康。
- **省力化操作簡單**：採用電動油壓裝置，控制凍結板的上下移動，且利用凍結盤及承托盤，擺設凍結食品，省時省力，即使是女性也能操作。
- **高品質堅固耐用**：庫體 PU 隔熱，高級鋼板防銹防銹處理，熱鍍鋅鋼材結構；不銹鋼螺絲，配備完善，易於保養清洗，維持衛生。
- **產量大利潤倍增**：急速效果佳，成品鮮度好，產品不變形，冷凍食品附加價值高，配合著產能提高，是創造利潤的生財利器。

### COOLING SPEED & QUALITY

The speed of passing through 0°C to -5°C, the "Maximum Icing Crystal Formation Zone", will influence the quality of frozen foods. In quick freezing, the ice crystal formed in minified shape and large quantity among cells, would not destroy food structure, then reserve freshness and quality with little drip of nutrition and water after defrost, increase added value and profit of frozen products.

### FREEZING METHOD

**FRESER CONTACT FREEZER** is: put foodstuff in freezing tray, use supporting pan to hold number of trays, then go into pitch between freezing plates of freezer. The aluminum alloy made freezing plate is cooled by -35°C refrigerant evaporating in it and movable by electric hydraulic device to press on top and bottom sides of trays. With double sides cooling effect, complete freezing can be done in half of the time required by conventional air blast method and reserve the fresh and flavor of foods.

### CF FEATURES

- **Amazing Freeze Speed**: Aluminum alloy freezing plates press on two sides of products, with -35°C refrigerant flowing through and evaporating, reduce half of the time required by air blast freezing.
- **Compact and Efficient**: Two-leaves, two-pieces door occupy less space when open, doors can be provided on both sides for easy loading and unloading, fast transfer to packing process, enhance production capacity.
- **Healthy and Safe Work**: Independent freezing cabinet makes efficient work, without dressing anti-freeze coat, under room temperature, keeps operators healthy and safe.
- **Labor and Time Saving**: Electric hydraulic device controls the movement of freezing plates, apply freezing tray and supporting pans for speedy loading that even women can operate.
- **Durable and Quality**: PU insulation, galvanized steel construction, stainless steel screws, rust-proof for easy maintenance and sanitation.
- **Economic and Profitable**: High quality products output means high value, cope with increased production capacity, ensure **FRESER CONTACT FREEZER** a profitable equipment.

# 凍結速度快 · 鮮度品質高！ 提昇冷凍食品的價值和利潤！

**FAST FREEZING · HIGH FRESHNESS QUALITY !**  
**INCREASES VALUE AND PROFIT OF FROZEN PRODUCTS !**

## CF 應用範圍

**接觸式凍結機** 廣泛應用於包裝形式及尺寸有一致性的塊狀冷凍食品，包括：

- 水產品：蝦類、魚類、魚排、魚片、蟹肉
- 肉產品：切塊或切片之牛肉、豬肉、禽肉
- 農產品：可加壓處理之蔬菜、水果、豆類
- 其他：冷凍麵糰、塊狀調理食品

**接觸式凍結機** 具有整體精巧設計的優點，而可應用於各種不同的場合：

- 陸地上冷凍食品加工廠 · 漁船上凍結加工處理
- 可聯結中央型冷凍系統 · 個別式冷凍主機系統
- 能自行成爲凍結工作區 · 配合生產線流程作業

## CF APPLICATIONS

**FRESER CONTACT FREEZER** is widely applied on block type frozen food in package of identical shape and size, including:

- Marine Products: shrimp, fish, fish fillet, crabs
- Meat Products: beef, pork, poultry cut into block
- Farm Products: vegetable, fruit, pea can be pressed
- Other Products: frozen dough, processed food

**FRESER CONTACT FREEZER** is compact it can be used in various applications, such as:

- Freezing process for cold plant or for ocean vessels.
- Connected to central refrigerating system or equipped with independent condensing unit.
- Independent working station or as part of a production line.

## 凍結盤規格

No.	品名 DESCRIPTION	頂部 TOP	底部 BOTTOM	高度 HEIGHT
A	導冷銅板 HEAT TRANSFER PLATE	273×186	273×165	24
B	墊平板 FLAT COVER	282×182	276×176	10
C	凍結盤 FREEZING TRAY	287×187	275×175	66
D	拉集底盤 SUPPORTING PAN	640×340	610×310	65

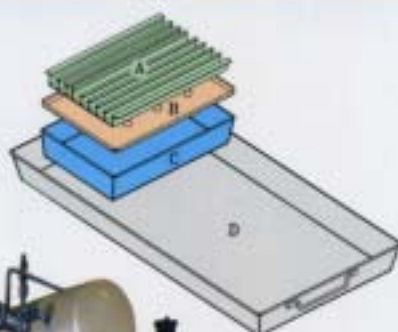
說明：1. 凍結盤容量：2 kg (單位：mm)  
2. 承托盤容量：3個凍結盤  
3. 可依實際需要，訂製其他規格。

Remarks:

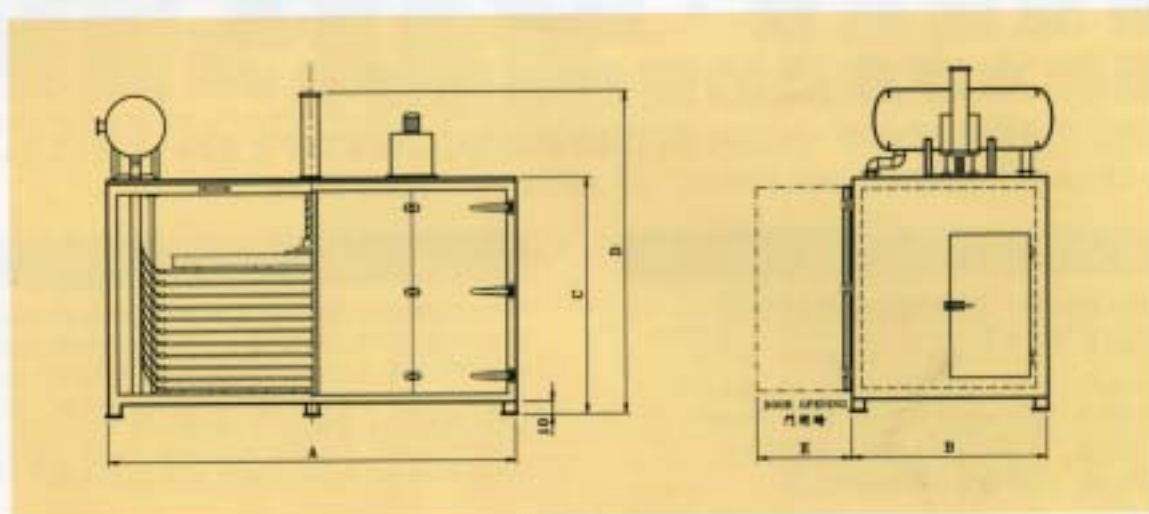
1. Volume of freezing tray: 2 kg
2. Supporting pan: for 3 trays
3. Other specifications available upon request.



## FREEZING TRAY



# 接觸式凍結機 CONTACT FREEZER



## 規格尺寸 SPECIFICATION

型 式 MODEL	CF-200	CF-500	CF-1000	CF-1500	
外 型 尺 寸 OUTSIDE DIMENSION	A	2600	3300	3300	3300
	B	900	1800	1800	1800
	C	1210	1180	1800	2450
	D	1860	2100	2850	3800
	E	600	830	830	830
凍 結 能 量 FREEZING CAPACITY	200 KG/回 BATCH	500 KG/回 BATCH	1000 KG/回 BATCH	1500 KG/回 BATCH	
有 效 凍 結 板 數 EFFECTIVE NO. OF PLATES	5	5	10	15	
冷 凝 入 管 REFRIGERANT INLET	15A	15A	15A	20A	
冷 凝 出 管 REFRIGERANT OUTLET	40A	50A	65A	80A	
凍 結 板 尺 寸 DIM. OF FREEZING PLATE	1800×650×22		2200×1300×22		
凍 結 時 間 FREEZING TIME	1HR~3HR (依凍結食品厚度 ACCORDING TO THICKNESS OF FROZEN STUFF)				
凍 結 板 活 動 間 隔 MOVABLE CLEARANCE OF FREEZING PLATES	50~110	50~105 (規格外另議 - OTHER SPEC. AVAILABLE)			
凍 結 板 活 動 方 式 MOVEMENT OF FREEZING PLATES	電動油壓按鈕式 - ELECTRIC HYDRAULIC PUSH BUTTON TYPE				
使 用 冷 凝 APPLICABLE REFRIGERANT	R717 (氨 AMMONIA), R22 OR E.G.				
冷 却 方 式 REFRIGERANT FEEDING	滿液式 FLOODED TYPE; 液泵強制循環式 LIQUID RECIRCULATION TYPE				
凍 結 能 力 FREEZING CAPACITY	5 RT	10 RT	20 RT	30 RT	
約 重 量 APPROX. WEIGHT	1000 KG	1500 KG	2300 KG	2800 KG	

※ 2 段壓縮時之參考值 REFERENCE DATA FOR 2-STAGE COMPRESSION

- 為因應產品改良所需，規格變動恕不另行通知。 ABOVE SPECIFICATION IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
- 特殊規格得另行訂製。 SPECIAL SPECIFICATIONS AVAILABLE UNDER REQUESTS.



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