

## Eutectic Plate Freezer Ai-EF20

**Ai-20EF** is a Eutectic Plate Freezer designed especially for the Eutectic Pack **Eu-Plus**. The Freezer is designed to reach the evaporating temperature at  $-43^{\circ}\text{C}$  to freeze Eutectic Pack within 16-18 hours for the 1st plug-in at the ambient temperature  $+35^{\circ}\text{C}$ .

**Ai-20EF** is also equipped with high & low voltage protector to protect the compressors from voltage fluctuations, surging and flashing.

**Ai-20EF** has 20 contacted evaporating trays for Eutectic Packs loading and its 2 compressors work consequently to get the Eutectic Pack frozen. After the packs become frozen, the 2 compressors will totally stop to prolong the compressor life and to promote energy-saving resulting in low carbon foot print.



### Ai-20EF Specification

|                                 |                                          |
|---------------------------------|------------------------------------------|
| ● Operating Voltage / Frequency | 230 Volt 50 Hz                           |
| ● Energy consumption            | 1,950 watt                               |
| ● Climate Class                 | Class 7 (Ambient $+35^{\circ}\text{C}$ ) |
| ● Refrigerant                   | R507 / R404A                             |
| ● Number of Shelf               | 20 shelves                               |
| ● Working Temperature           | $-43^{\circ}\text{C}$                    |
| ● Compressor                    | 2 x 1.5 HP compressor                    |
| ● Maximum Loading Capacity      | 200 kg of Eutectic Pack                  |
| ● Controller                    | Digital Controller for 2 comps           |

### Special Feature

- High / Low Voltage Protector to protect Compressor damage from electrical fluctuations from  $< 160$  and  $> 254$  Volt included power surge and flashing.

### Option

- Semi-Automatic Defrosting system.
- High efficiency condenser fan motor.

### Dimension

Outside : (W)650 x (D)880 x (L)2,070 mm.

### Container Loading Capacity

|                     |         |
|---------------------|---------|
| ● 20-foot Container | 18 sets |
| ● 40-foot Container | 36 sets |



## Eu-Plus

Eu-Plus is a high quality Eutectic plate for application of chilling and freezing. All materials used are food grade and very durable.

Eu-Plus is provided for a wide range of temperature from  $0^{\circ}\text{C}$  to  $-33^{\circ}\text{C}$  to ensure the complete coverage for all products.

Eu-Plus is designed and developed to work as a passive cooling material (PCM). Therefore, it is very good for logistic purposes when the products are packed in the insulated boxes.

| Eu-Plus |        | Dimension      | Application for Chilled Products Cooling Power by Latent Heat in WHr |                      |                      | Weight        |
|---------|--------|----------------|----------------------------------------------------------------------|----------------------|----------------------|---------------|
| Model   |        | in mm.         | $0^{\circ}\text{C}$                                                  | $-3^{\circ}\text{C}$ | $-5^{\circ}\text{C}$ | $\pm 10\%$ kg |
| Eu-Plus | Mini   | 205 x 80 x 35  | 33                                                                   | 34                   | 33                   | 0.5           |
| Eu-Plus | Medium | 300 x 230 x 30 | 134                                                                  | 134                  | 133                  | 2.2           |
| Eu-Plus | Large  | 410 x 300 x 37 | 282                                                                  | 284                  | 281                  | 4.5           |
| Eu-Plus | Extra  | 600 x 410 x 45 | 685                                                                  | 690                  | 684                  | 10.0          |

| Eu-Plus |        | Dimension      | Application for Frozen Products Cooling Power by Latent Heat in WHr |                       |                       |                       |                       |                       |  | Weight        |
|---------|--------|----------------|---------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|---------------|
| Model   |        | in mm.         | $-12^{\circ}\text{C}$                                               | $-15^{\circ}\text{C}$ | $-18^{\circ}\text{C}$ | $-23^{\circ}\text{C}$ | $-26^{\circ}\text{C}$ | $-33^{\circ}\text{C}$ |  | $\pm 10\%$ kg |
| Eu-Plus | Mini   | 205 x 80 x 35  | 34                                                                  | 33                    | 32                    | 32                    | 33                    | 31                    |  | 0.5           |
| Eu-Plus | Medium | 300 x 230 x 30 | 134                                                                 | 131                   | 128                   | 128                   | 130                   | 125                   |  | 2.2           |
| Eu-Plus | Large  | 410 x 300 x 37 | 284                                                                 | 276                   | 271                   | 270                   | 275                   | 264                   |  | 4.5           |
| Eu-Plus | Extra  | 600 x 410 x 45 | 690                                                                 | 671                   | 658                   | 655                   | 668                   | 641                   |  | 10.0          |

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## Mobile Eutectic Freezer AI-200e4

**AI-200e4** is the Brand New Generation of all HDPE & MDPE Plastic Mobile Insulated Freezer (PUR, Polyurethane Foam Insulation) with the Integration of the New Eutectic Technology to Superior Mobile Refrigeration Technology in a compact design. It consumes 40-50% less power compared to the same size freezer but still possesses a fast freeze feature. Moreover, its Plug & Cool design concept provides an easy & user-friendly operation.

\*Patent Pending

### Compressor

- Superior Mobile Compressor Technology for a long lasting operation.
- Cutting-edge Technology for High Performance Compressor.



### Operation System

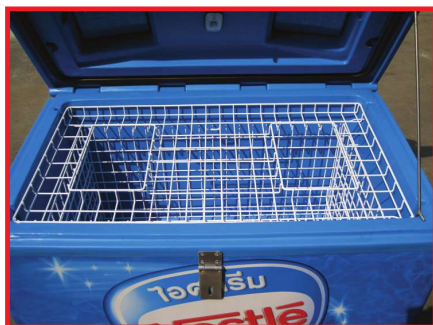
- Plug to Power Supply for 24 hours just for the first time.
- Charged Freezer is good for 10-14 hours operation.
- The next Plug-In period is only 8-10 hours.
- 160-254 Volt 50 Hz.
- Power Consumption = 2.0-2.5 kWh per day.

### Refrigeration System

- Zero ODP Refrigerant R290.
- Tropical Version Design for High Ambient Temperature up to 40C.
- Design for all products from chilled to frozen application.
- Built-In Analog Thermometer.

### All New Eutectic Tank & Eutectic Substance

- Easy Installation to Insulated Box.
- PE Plastic food grade Eutectic Tank.
- Food Grade Eutectic Substance.
- Refillable Tank Design to suit for all application and cleanliness.
- High Quality & Longer life Eutectic Substance.
- Design for all products from chilled to frozen food



## Plastic Freezing Box Ai-200

**AI-200** is the Brand New Generation of the PE (Polyethylene) Plastic Insulated box with PUR (Polyurethane Foam Insulation). Therefore, it is safe for all foods as PE is food-safety material. Ai-200 also Integrates the New Plastic Roto-Moulding Technology to the Superior 3D (3Dimension) Design. Ai-200 is good for all products from chilled to frozen foods.

\*Patent Pending

### Additional Product Information

#### New Design Lid

- New Small Lid Locking System
- Lock Material : Stainless Steel 304
- Polyethylene(PE) Material (Food Grade)



#### New Rubber Seal

- New Rubber Seal Design for a Long Service Life
- Seal Material : EPDM (the same as Car Door Rubber Gasket)

#### Dimension & Weight

- External : (L)1015 x (W)635 x (H)680mm
- Net Volume : Mobile Eutectic Freezer = 160 Liter  
Plastic Freezing Box Ai-200 = 200 Liter
- Net Weight : Mobile Eutectic Freezer = 95 kg. (included Eutectic)  
Plastic Freezing Box Ai-200 = 35 kg

#### Container Loading Capacity

- 20-foot Container = 45 sets
- 40-foot Container = 90 sets

Mobile Eutectic Freezer AI-200e4

Plastic Freezing Box Ai-200

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