



# Flake Ice Maker

## FM-FIM-A100

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## 1. Safety Measures



This symbol on the product or its packaging indicates that this product may not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of the product.

## 2. Introduction

**Flake Ice Maker FM-FIM-A100** caters huge demand by efficiently producing ice flakes. With the capacity of making 100 kg ice flakes in a day, it reduces the workload. Crafted with precision and durability in mind, ice flakes are perfect for rapid cooling and preservation of perishable goods. The device is made user friendly by providing different parameters visible on the display. Status of the device including running, ice tank full, water shortage and fault codes are displayed.

## 3. Features

- ✓ Flake Ice Maker with durable stainless-steel design
- ✓ Operator friendly computerized approach
- ✓ Convenient monitoring of the ice making process
- ✓ Excellent refrigeration mechanism
- ✓ Energy efficient working
- ✓ Straightforward cleaning and maintenance

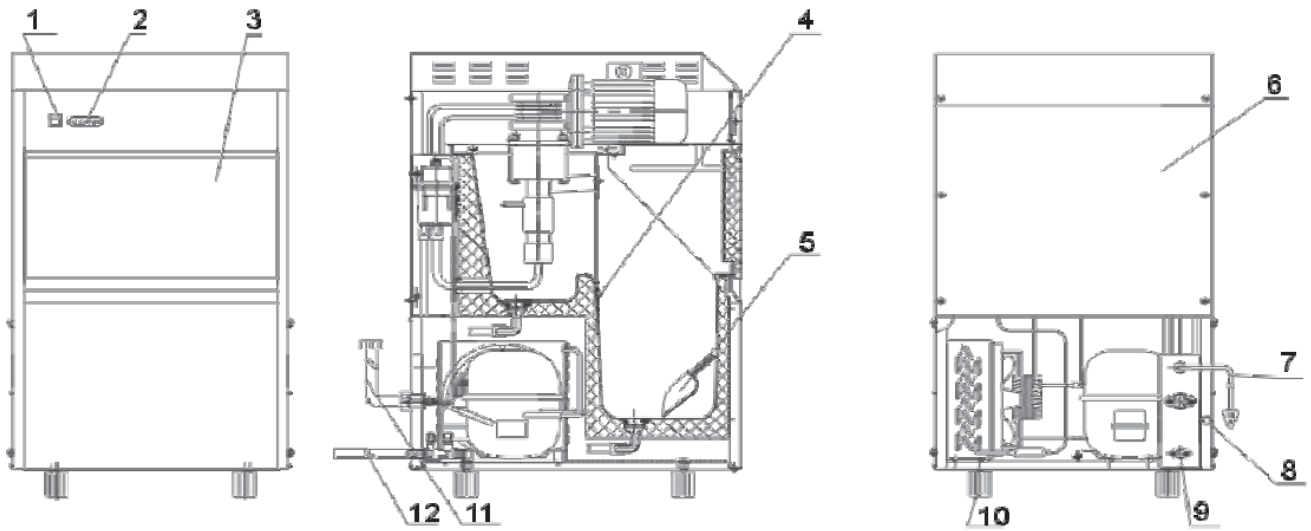
## 4. Specifications

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Model No.</b>                     | <b>FM-FIM-A100</b>       |
| <b>Ice flake production capacity</b> | 100 Kg/24 hr             |
| <b>Ice storage capacity</b>          | 40 Kg                    |
| <b>Ice structure</b>                 | Irregular small granular |
| <b>Voltage</b>                       | 220 V                    |
| <b>Power</b>                         | 520 W                    |
| <b>Dimensions</b>                    | 500 × 611 × 950 mm       |
| <b>Packing dimensions</b>            | 630 × 730 × 1040 mm      |
| <b>Net weight</b>                    | 58 Kg                    |
| <b>Gross weight</b>                  | 64 Kg                    |

## 5. Applications

Flake Ice Maker is widely used across seafood markets, food displays and presentation, medical and therapeutic use, beverage service, and industrial cooling.

## 6. Instrument Introduction



**Figure-1**

- |                       |                       |
|-----------------------|-----------------------|
| 1. Switch             | 7. Power Cabel        |
| 2. Operation Board    | 8. Screw for Drainage |
| 3. Door               | 9. Water Outlet Tube  |
| 4. Temperature Sensor | 10. Foot Screw        |
| 5. Ice Shovel         | 11. Water Inlet Tube  |
| 6. Back Panel         |                       |

### 7. Installation

- 1) The incline angle of the cabinet should not exceed 45 °C during transportation. Don't make the ice maker upside-down in case the compressor or refrigerating system troubles occur.
- 2) The flake ice maker should be placed on horizontally and structurally sound ground and away from heat sources and corrosive gas. At least about 150mm of room should be left around the ice maker to ensure fine ventilation.
- 3) Before using the flake ice maker for the first time, users should wait 12 hours after positioning it in a proper place.
- 4) **Voltage range:** 187 to 242V (220V), 100 to 130V (110V)
- 5) The rated capacity of the wire should be over 6A, and the section area of the wire is 0.75mm<sup>2</sup>. The wire could be consisted of single-ply or multiplies.
- 6) The rated current of the fuse is 5A.
- 7) The separate three-pole outlet should be used and the grounding must be good.
- 8) If the supply cord is damaged, it must be replaced by your qualified service agent or similarly qualified professionals to avoid a hazard.
- 9) This appliance is not intended for use by children or other persons without assistance or supervision if their physical, sensory, or mental capabilities prevent them from using it safely. Children should be supervised to ensure that they do not play with the appliance.

## 8. Operations

- 1) Unpack the package and take out the attached documents and spare parts such as the water inlet and outlet tubes, ice shovels and gaskets, etc.
- 2) Position the ice maker in a well-ventilated place and leave at least 150mm of room between the ice maker and the wall. Be sure the ice maker is positioned levelly and away from the heat source.
- 3) Make one end of the  $\varnothing$  12 flexible plastic corrugated pipe (supplied with the maker) connected with the water outlet tube on the back of the maker, another pipe end should be placed in a container for surplus water (prepared by the user himself) or in the sewer.
- 4) Make one end of the water inlet tube (supplied by the maker) connected with the 3/4" screw-type connector of the water tap to get the drinkable tap water. The water pressure of the water supply pipe is 1.5 to 3 bar.
- 5) The other end of the water inlet tube should be connected with the screw-type connector of the water valve on the back of the ice maker. Be sure to put gaskets (supplied by the maker) in both ends of the water inlet tube before connecting.
- 6) If it is an ice maker for purified water, a  $\varnothing$  12 corrugated pipe (supplied with the maker) should be used.
- 7) Connect one end of the pipe with the purified water supplier (desk-top water dispenser) and another end with a water valve connector on the back of the ice maker. The desk-top water dispenser should be placed on the ice maker at the back position.
- 8) Make a proper connection and press the start button on the operation board for about 4 seconds till the run indicator and the big ice indicator (or small ice indicator) light on. Then the maker begins to work.
- 9) All the procedures, water inlet→ ice making→ crush ice→ ice dropping→ ice storing, are controlled automatically for ice making continuously. If ice is full in the ice storage container, the ice full indicator on the operation board will light on and the ice maker will stop automatically.
- 10) If there is a water shortage or something wrong with the water supply system, the Water shortage indicator will light on and the ice maker will stop operation automatically.



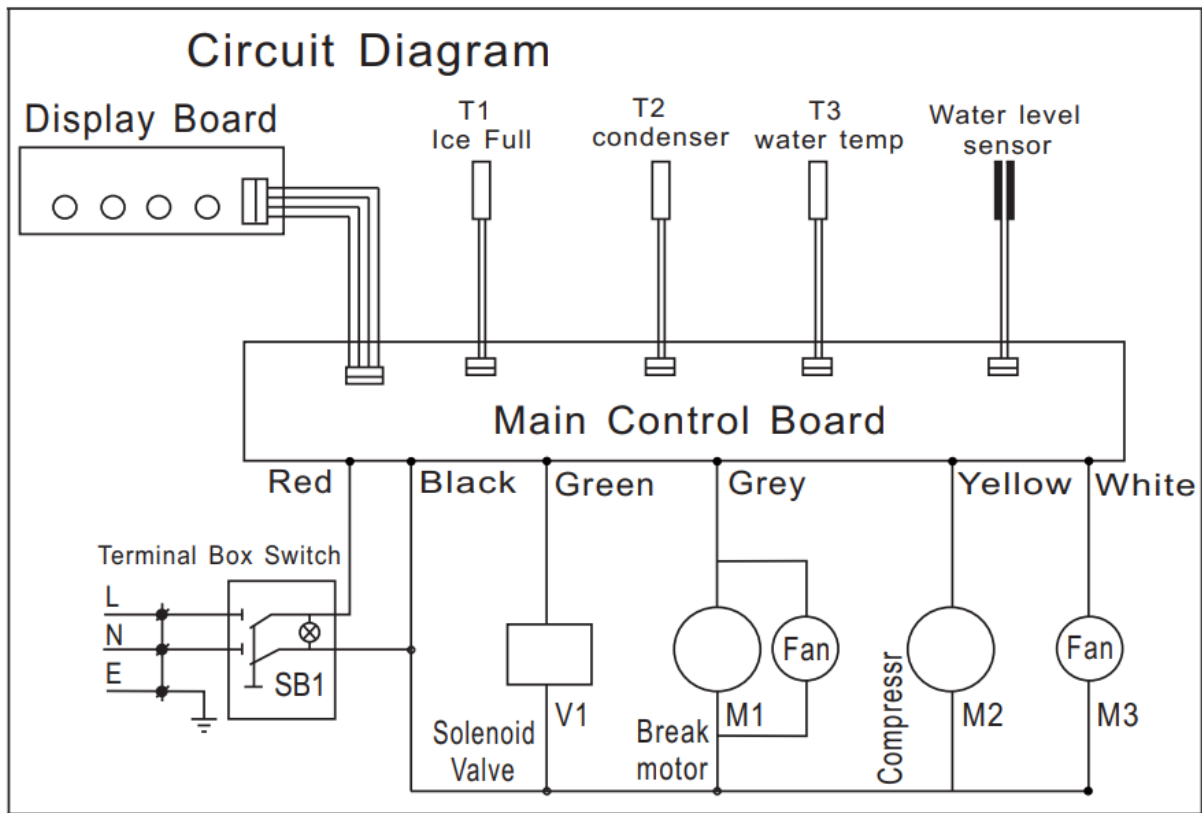
### 9. Maintenance

- 1) If the compressor stops for any reasons like water shortage, too much ice, power off, etc., don't restart it right away. You can restart it about 5 minutes later.
- 2) Check regularly the connectors of the water inlet and outlet tubes and drain the little surplus water that may leak.
- 3) If the ice maker will be unused for a long period.

## 10. Troubleshooting

| Trouble  | Cause  | Remedy   |
|--|--|--|
| The flake ice maker does not work.   | The voltage is lower than the limitation.  | Stop the ice maker and restart it until the voltage is normal.                                 |
|  | The ambient temperature is too low (Lower than 10°C).                            | Try again when the ambient temperature is higher than 10°C.                                    |
| Water shortage indicator light on.   | Water shortage from the water supply system.                                     | Check the water supply. If it's ok, restart the maker.   |
|  | Water valve damage.  | Check the water valve.   |
|  | The tap water pressure is too low.   | Be sure the tap water pressure is higher than 1.5 bar.   |
| The compressor does not work.  | Water shortage.  | Check the water supply system (water valve and water supply tube).                             |
|  | Ice full.  | Take off some ice.   |
| The compressor works, but no ice is made.  | Refrigerant leakage.   | Recharge the refrigerant and check the leakage again.  |
|  | The refrigerating system is blocked.   | Charging N <sub>2</sub> to check whether the system is blocked and replace the filter.         |
|  |  | Check whether the fan is running.  |
| The water shortage indicator and ice full indicator are glittering at the same time. | If a water inlet jams or running fails because of low environmental temperature. | Stop the machine until the temperature reaches 10°C or repair it by authorized service people. |

### 11. Circuit Diagram



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