LABSTAC



OPERATING MANUAL ICE FLAKER ICM31-020 & ICM31-030

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01. Features

Our automatic flake ice makers are designed in cubic shape with the curved front panel and curved door (or stainless steel flat front panel and flat door) for nice

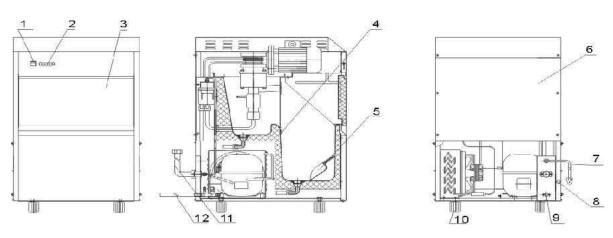
Many advantages of the ice maker are available, such as ice making quickly, great ice making capacity, nice ice shape and ice dropping quickly. Tap water inlet→water incoming \rightarrow ice making \rightarrow crush ice \rightarrow ice dropping \rightarrow ice storing, all these processes are automatically controlled for ice making continuously. In case of water shortage or ice full in cabinet, the indicator on the operation board will light on accordingly and the

maker will stop operation automatically. The ice storage cabinet is PU foamed, so it is insulated well and it could prevent the ice made from melting. Also, the remaining used recycling. So not only the water is saved, but water after ice made each time is also the ice making efficiency is enhanced and the energy consumption is reduced and the customer's ice making cost is also reduced much. Either purified water or the tap water could be used for ice making.

02. Notes before operation

- 1. The incline angle of the cabinet could not be over 45° during transportation. Don't make ice maker upside-down in case the compressor or refrigerating system troubles
- 2. The flake ice maker should be placed on horizontal and structurally sound ground and away from heat source and corrosive gas . At least about 150mm room should be left around the ice maker to ensure the fine ventilation .
- 3. Before using the flake ice maker for the first time, you should wait 12 hours after positioning it in a proper place.
- 4. Voltage range: $187 \sim 242 \text{V}(220 \text{ V})$ $100 \sim 130 \text{ V}(110 \text{ V})$
- 5. The rated capacity of wire should be over 6A, the section area of the wire is 0.75mm. The wire could be consisted by single ply or multiplies. The rated current of fuse is 5A
- 6. The separate three pole outlet should be used and the grounding must
- 7. If the supply cord is damaged, it must be replaced by the manufacture , its service agent or similarly qualified persons in order to avoid a hazard.
- 8. 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 with the appliance.

03. Structure



1.Switch	4.Temperature Sensor	7. Power Cable	10. Foot Screw
2.Operation Board	5. Ice Shovel	8. Screw For Drainage	11. Water Inlet Tube
3. Door	6. Back Panel	9. Water Outlet Tube	12. Drainage Tube

04. 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 make will be unused for a long period, please screw off the plastic drainage connector screw on the back of the ice maker so as to drain the surplus water in the water groove. Then screw it on. Wipe the inner liner of the ice storage container with a clean rag .
- 4. When plugging or unplugging, the plug should be held by hand and the wires should not be dragged heavily .

05. Operation Procedures

- 1. Unpack the package and take out the attached documents and spare parts such as the water inlet and outlet tubes, ice shovel and gaskets, etc.
- on a well ventilated place and leave at Position the ice maker least 150 mm room and the wall . Be sure the ice maker between the ice maker is positioned levelly and away from the heat source.
- the φ12 flexible plastic corrugated pipe 3. Make one end of (supplied with the maker) outlet tube on back of the maker, another pipe end should connected with the water be placed in a container for surplus water (prepared by user himself) or in the sewer.

 4. Make one end of the water inlet tube (supplied with the maker connected with the
- 3/4" screw type connector of the water tap so as to get the drinkable tap water. The water pressure of water supply pipe is $1.5\sim3$ bar. The other end of the water inlet tube should be connected with the screw type connector of water valve on the back of gaskets (supplied with the maker) in both ends of the the ice maker . Be sure to put water inlet tube before connecting . If it is an ice maker $\,$ for purified water , a ϕ 12 $\,$ corrugated pipe (supplied with the maker) should be used . Connect one end of supplier (desk-top water dispenser) and another end with pipe with the purified water water valve connector on the back of the ice maker. The desk-top water should be placed on the ice maker at the back position.
- 5. Make poser connection and press on 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. All the procedures, water inlet→ice making → crush

ice→ice dropping →ice storing, are controlled automatically for ice making continuously .

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. If there is a water shortage or shortage indicator will light supply system the Water something wrong with the water on and the ice maker will stop operation automatically.

06. Technical Parameters

(tested under the conditions of ambient temperature 15°C and water temperature 10

Model	Ice making capacity	Power input(W)	Refrigerant	Dimensions(m
Wiodei	(Kg/24h)		R134a (g)	m)
ICM31-020	≤20	280	75	330X470X605
ICM31-050	≤50	380	115	400X543X700
ICM32-060	≤60	420	125	400X510X845
ICM32-085	≤85	480	135	400X510X845
ICM32-100	≤100	520	145	500X610X950
ICM32-200	≤200	1040	280	680X740X1100
ICM33-300	≤300	1360	420	560X870X1580

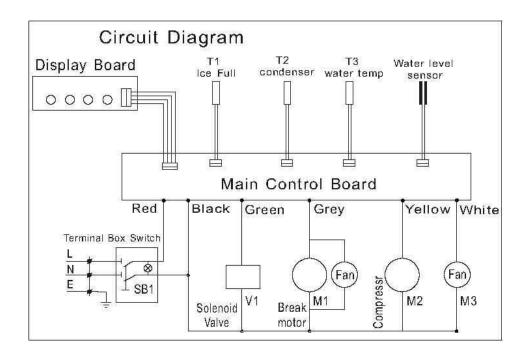
The specifications are subject to be changed without notice. Please check the nameplate for sure.

07. Trouble and Shooting

TROUBLE	CAUSE	REMEDY
The flake ice maker	1. The voltage is lower than	1. Stop the ice maker and
does not work.	the lower limitation	restart it until the voltage
	2. The ambient	is normal.
	temperature	2. Try again when the
	is too low (Lower than	ambient
	10°C)	temperature higher than
		10°C.
Water shortage	1. Water shortage from the	9. Check the water supply.
indicator light on.	water supply system.	If it
	2. Water valve damage.	is OK, restart the maker.
	3. Tap water pressure too	10. Check the water valve.
	low.	11. Be sure the tap water
		press-
		ure is higher than 1.5 bar.

Compressor does	1. Water shortage.	1. Check the water supply
not work.	2. Ice full.	system (water valve and
		water
		supply tube).
		2. Take off some ice.
Compressor works,	1. Refrigerant leakage.	1. Recharge the refrigerant
but no ice is made.	2. The refrigerating system	and
	is blocked.	check the leakage again.
		2. Charging N2 to check
		whet-
		her the system is blocked and
		replace the filter.
		3. Check whether the fan is
		running.
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Water shortage	If water inlet jam or	Stop the machine until the
indicator and ice	running	temperature reach 10°C or
full indicator are	failure because of low	repair it by authorized
glittering at the	environmental	service people.
same time.	temperature.	

08. Circuit Diagram



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