**To safeguard your interests:**

**Please read this instruction manual carefully before using the product and keep this manual.**

Zomagas

Ice Maker

# User Manual

**CIM-320F**
**CIM-450T**

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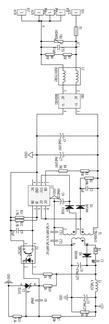
Zomagas

**Corporation:**
Foshan Sideba Home Supplies Co. Ltd.

## CIRCUIT DIAGRAM

(For reference only, it may be different from the real machine.)



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## IMPORTANT SAFETY INSTRUCTIONS

Your safety and the safety of others are very important. We have provided many important safety messages in this manual for your appliance. Always read and observe all safety information. All safety messages will follow the safety warning symbols and the words "DANGER", "WARNING" or "CAUTION".

These words mean **YOU CAN BE KILLED OR SERIOUSLY INJURED IF YOU DO NOT FOLLOW THE PROVIDED INSTRUCTIONS.**
All safety messages will tell you what the potential hazard is, how to reduce the chance of injury, and what can happen if the instructions are not followed

**WARNING: When using electrical appliances, basic safety precautions should be followed to reduce the risk of fire, electric shock and injury to persons or property. Read all instructions before using any appliance**

### IMPORTANT SAFETY TIPS

- This machine is not intended for use by persons who are physically weak, children, slow to respond, or have mental disorders unless they are used safety or with the guidance or assistance of those who are responsible for their safety.
- Do not operate this, or any other appliance with a damaged cord. If the power cord is damaged, it must be replaced by the manufacturer's maintenance department or the like.
- Connect to properly polarized outlets only. No other appliance should be plugged into the same outlet. Be sure that the plug is fully inserted into the receptacle.
- Do not run the power cord over carpeting or other heat insulators. Do not cover the cord. Keep cord away from traffic areas, and do not submerge in water.
- We do not recommend the use of an extension cord, as it may overheat and become a risk of fire. If you must use an extension cord, use No.14 AWG minimum size and rated no less than 1875 watts.
- Unplug the ice maker before cleaning or making any repairs or servicing.
- Do not use your ice maker outdoors. Keep the ice maker away from direct sunlight.
- Do not clean your ice maker with flammable fluids. The fumes can create a fire hazard or explosion.
- This product must be properly installed and located in accordance with the installation instructions before it is used.
- Do not, under any circumstances, alter or remove the third (ground) prong from the



power cord. For personal safety this product must be properly grounded

- Do not allow children to climb, stand, or hang on the ice maker. They could seriously injure themselves.
- Do not look directly at UV lamp when it is operating. The light emitted by the lamp will cause serious eye damage and burn unprotected skin.
- Do not use any accessories not recommended by the manufacturer.
- When handing, installing, and operating the appliance, care should be taken to avoid damage to the refrigerant tubing.
- Do not store explosives, such as combustion sprays, in appliances.
- The appliance is used for household and similar purposes, such as:
  - a kitchen area for shops, offices or other workplaces;
  - customers in the farms and hotels, motels and residential environments;
  - family hotel environment;
  - Catering industry and similar non-retail applications.
- The use instructions should indicate that the old hose assembly cannot be reused with the new hose assembly supplied with the appliance.

**WARNING**: Ice maker only connect to drinking water sources. Do not use other liquid to make the ice-cube other than water.

**WARNING**: Keep ventilated, in the machine shell or embedded structure, should be kept for three months to clean up an obstacle, the best professional cleaning workers cleaning, cleaning attention to turn off the power.

**WARNING**: This appliance must be earthed.

**DANGER** – Risk of fire or explosion. Flammable refrigerant used. Do not use ice pick or a metal or sharp-edged instrument to defrost Ice Maker as it may puncture the freezer liner and then the flammable refrigerant tubing behind it.

**DANGER** – Risk of fire or explosion. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do not puncture refrigerant tubing.

**CAUTION** – Risk of fire or explosion. Flammable Refrigerant Used. Consult Repair Manual/Owner's Guide Before Attempting. To Install or Service This Product. All Safety Precautions Must be Followed.

**CAUTION** – Risk of fire or explosion. Dispose of refrigerator in accordance with Federal and Local Regulations. The flammable refrigerant and insulation material used in this product require special disposal procedures. Contact your local authorities for the environmentally safe disposal of your refrigerator.

**CAUTION**-Risk of fire or explosion due to puncture of refrigerant tubing; Follow handling



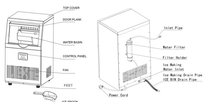
instructions carefully. Flammable refrigerant used.

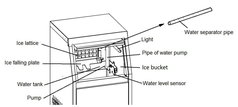
The ice maker should be installed in accordance with the safety standard for Refrigeration Systems, ASHRAE15. The ice maker shall not be installed in corridors or hallways of public buildings.

If the unit is with problem need to be maintained, service shall only be performed by authorized service personnel. Use only manufacturer-authorized service parts.

**CAUTION** - Do not remove any safety, warning, or product information labels from your ice maker

## GETTING TO KNOW YOUR ICE MAKER



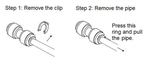





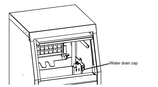

## CLEANING AND CARE YOUR ICE MAKER

**Please carry out maintenance according to the requirements of this manual, so as to improve the efficiency of the ice maker and extend its service life.**

- Clean the environment around the ice maker frequently and keep it clean.
- Do not block the ventilation louvers of the ice maker.
- The outside of the ice maker should be cleaned regularly with a mild detergent solution and warm water.
- Clean the condenser once every three months. Use a soft brush or a vacuum cleaner with a brush to brush the fins along the direction of the fins to prevent loss of fins.
- The filter element of the water filter shall be replaced regularly. The ordinary filter element needs to be replaced for half a year. For other filter elements, it should be replaced according to its instructions. Or replace the water filter with a similar one (single stage filter with 1/4-inch quick connect). Remove the water filter connector as shown in the figure below.




- When cleaning the water tank and ice bucket of the ice maker, you can directly flush them with a water pipe. To prevent water from entering the internal circuit and causing electric leakage, do not use excessive water pressure, and do not directly flush the part above the ice lattice.
- When ice maker is not used for a long time, in addition to turning off the water source and cutting off the power supply, open the water drain cap to drain water completely out from the water tank.




**After using your ice maker for a long time, we also suggest you should clean your ice maker.** Especially to the ice lattice and the water tank, it must be cleaned periodically.



## TROUBLE SHOOTING

If the ice maker is stopped by voltage and water pressure unstable, and no ice making or no ice falling. Please unplug the power supply and wait for 5 minutes before powering on it. Sometime ice will appear in the water tank. At this time, you can unplug the power supply and wait for 10 minutes before powering on.

| Problem | Possible cause | Solution |
|---|---|---|
| Ice maker does not work | Not connected to the power supply or water supply. | Check the power supply and water supply to ensure they are normal. |
| | The ice falling plate was stuck by some matters and does not return to its right position. | Let the ice plate return back to the correct position by removing foreign matters. |
| The machine stopped working and the " Lack Water" light flashed | No enough water in water tank. | Open the direct water supply valve. |
| The tank was full but the "Lack Water " light was still flashing. | The float that controls the water level is stuck. | Clean the ice from the floating ball. |
| There is no water coming out of the water separator pip. | The holes in the water separator pip were blocked | Turn off the ice maker and remove the water separator pip from ice maker and clean it, make sure all the holes on the pipe wall unobstructed. |
| Ice cubes cannot fall off, or Error "E4" | Ice lattice is dirty. | Clean the ice lattice |
| | The ice maker is tilted. | Put the ice maker upright and make the top surface of the unit as horizontal as possible. |
| | Enviroment temperature is too low. | Environment temperature should be higher 10 ℃. |
| | Ice making cycle too long | Press "Ice thickness" to reduce the ice making time. |
| Ice cubes are too thin or incomplete | Ambient temp too high | Move the unit to cool place. |
| | Water temp is too high | The water temp should be no more more than 32 ℃. |
| | Ice making time is short | Press "Ice Thickness" to increase the ice making time. |
| | Water tank leak water | Replace water tank. |
| | Inlet valve does not work | Check the inlet valve or replace it. |
| | Water pressure is too low | Make sure thew water pressure at 130-550Kpa. |
| | Water pipes are blocked | Clean the water pipes. |



| | | |
|---|---|---|
| Ice making is too slow | Ice lattice is dirty. | Clean the lattice |
| | Ambient temperature too high or the ventilation is not good. | Move the unit to somewhere ambient temp lower than 32 ℃, connect to the cool drinking water supply. |
| | The water level sensor failed. | Replace a new sensor. |
| | Water tank leakage. | Replace water tank. |
| | The ventilation space around the ice maker is too small. | Empty the space around the ice maker. |
| Ice maker work but no ice cubes | Ambient temp is high or the water temp is high. | Move the unit to somewhere ambient temp lower than 32 ℃, connect to the cool drinking water supply. |
| | Refrigerant system leakage. | Need the technical service person to maintain. |
| | Refrigerant system block. | Need the technical service person to maintain. |
| Error "E1" indicates the temperature sensor was disconnected. | The terminal contact to temperature sensor was loosed, or damaged. | 1. Check and correct the terminal position;<br>2. Replace the temperature sensor. |
| Error "E2" indicate the temperature sensor short circuit. | Short circuit of temperature sensor. | Replace the temperature sensor. |
| Error "E3" indicate falling ice cubes time out failure. | Excessive water pressure causes the water tank to overflow. | Make sure thew water pressure at 130-550Kpa. |
| | The pump is not work (blocked or damaged). | Clean or replaced the pump. |
| | The ambient temperature is too high, or the heat dissipation is affected. | Move the unit to somewhere ambient temp lower than 32 ℃, and clean hole front of the cooling fan. |
| | The refrigerant was leakage. | Please ask professional technicians to check it. |
| | The ice making time was too short or too long. | Change the thickness of ice cubes. |
| | The cooling fan was blocked or the wiring was disconnected and damaged. | Clean hole front of the cooling fan, or replaced the wires. |
| Error "E5" indicate falling ice plate or switch failure. | Ice cubes filled the bucket and the falling ice plate has not returned to its position. | 1. Reinstall the falling ice plate.<br>2. Check and correct the position of falling ice plate or replace the ice full switch. |



**2. What should I do if the ice cubes are stuck in the ice lattice?**

1) Press the "De-icing" button for 1 second to enter the forcing de-icing process (as figure 1). The ice cubes will drop from the lattice soon.

2) It is possible that the ice cubes are too thick and cannot automatically detach from the ice lattice. So, you can try reducing the thickness of the ice cubes (as figure 2).

Figure 1

Figure 2

**3. How to use "Timer" button to preset the start time and end time of ice making?**

1） In standby mode, press this button to enter the setting ice making time state. Press the "+" and "-" buttons to set the start time for ice making(as figure 3 and 4)

2） During the ice making process, press this button to enter the ice making end time setting state. Press the "+" and "-" buttons to set the time to end ice making by(as figure 3 and 4).

The preset time range is 0-24 hours, with increments of 1 hour. After setting the desired time before the number flash 5 seconds, if the setting is not changed, the machine will automatically confirm this setting, and the preset light will on,

After the settings take effect, you can press the "Timer" button to cancel the setting. And the preset light will off.

Figure 3

Figure 4

**4. How to use the cleaning function?**

In standby mode press "Clean" button to start the cleaning process, and the ice maker will automatically clean the ice lattice for 10 minutes. After cleaning, the ice maker will start to make ice automatically. During the cleaning process, pressing "Clean" button will terminate the cleaning process.



## INSTALLATION YOURICEMAKER

### INSTALL YOUR ICE MAKER

1. Remove the exterior and interior packaging, check the maker for damage carefully, then take out the accessory from the ice bucket, then clean the interior ice bucket.
2. Place the ice maker on the flat and solid ground surface.
3. The ice maker is not for outdoor use, please use it under ambient temperature 10℃-32℃, and water temperature less than 30℃, high temperature may decrease the ice output capacity.
4. To maximum the efficiency of ice maker, the ice maker should at least keep a certain distance from the wall or other equipment around it (as following table).

| Side of ice maker | Distance of ice maker to wall or equipment(cm) |
|---|---|
| Side | 15 |
| Back | 20 |
| Front | 50 |

5. The ice maker shall be installed where is easy for water drain away, and protected from direct sunlight, don't put it aside by high temperature equipment (Refrigerator, oven).
6. The appliance must be positioned so that the plug is accessible.

### CONNECTING YOUR ICE MAKER

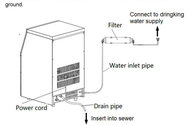
1. The water supplied to the ice maker must be passed the filter. Please do not directly connected ice maker to tap water, poor water quality may cause ice maker failure.
2. The water supply pressure must be controlled at 130~550Kpa. If the pressure is too high, a pressure reducing valve must be installed. Make sure to prevent the water inlet pipe from being broken by high-pressure water pressure.
3. Connect the drain water pipe to the sewer. The ice maker drains by gravity, so it must be ensured that the outlet of the drain pipe is higher than the inlet of the drain pipe.
4. Allow one hour for the refrigerant fluid to settle before plugging ice maker in.

**DANGER: Improper use of the grounded plug can result in the risk of electrical shock. If the power cord is damaged, it must be replaced by the manufacturer's maintenance department or the like.**



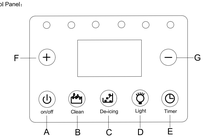
**IMPORTANT:**

1. For personal safety, the device should be properly grounded. The power cord of the device is equipped with three-prong plug, which is matched with a standard three-prong wall outlets to minimize the possibility of electric shock.
2. Plug your appliance into an exclusive, properly installed, grounded wall outlet. Do not under any circumstances, cut or remove the third (ground) prong from the power cord. Any questions concerning power and/or grounding should be directed toward a certified electrician.
3. This appliance requires a standard 110-120 volt, 60Hz electrical outlet with three-prong ground.




## USING YOUR ICE MAKER

Control Panel.




While you press a function button, always there will be a beep,



**A . "on/off" button:**

1.In standby mode, press this button to start the ice process.

2.When the ice is running, press this button to execute the de-icing process, and then enter the standby mode.

**B. "Clean" button:**

1. The cleaning function is only enabled in standby mode (other states are invalid). When there is no shortage of water, press this button to start the cleaning process, Press this button again to end the cleaning process. The default running time for the cleaning process is 10 minutes. After cleaning, the machine will automatically enter standby mode.

**C. "De-icing" button:**

1. Press this button in the ice-making process to enter the forced de-icing process, and continue the ice-making process after completing the de-icing process.

**D. "Light" button:**

Press this button to turn on the blue light, press it again to turn off the blue light.

**E. "Timer" button**

1. In standby mode, press this button to enter the setting ice making time state.
2. During the ice making process, press this button to enter the ice making and time setting state.

**F and G. "+" and "-" button**

1. When setting the time status, these two buttons are used to adjust the time.
2. During the ice making process and standby mode, these two buttons are used to increase or decrease the thickness of the ice cubes.

**1. How to adjust Ice thickness**

If you think the ice cubes are not thick or thin enough, during ice maker working, press "+" or "-" button to adjust the ice thickness.

**NOTE:** After the ice thickness is adjusted, the next round of ice cycle will take effect.

**NOTE:** Each ice making cycle is around 8-15 minutes, and the ice making time will vary depending on changes in ambient temperature and water temperature. Especially in the first ice making cycle, due to the higher water temperature in the tank, the ice making cycle will be longer, but it will not exceed 30 minutes.