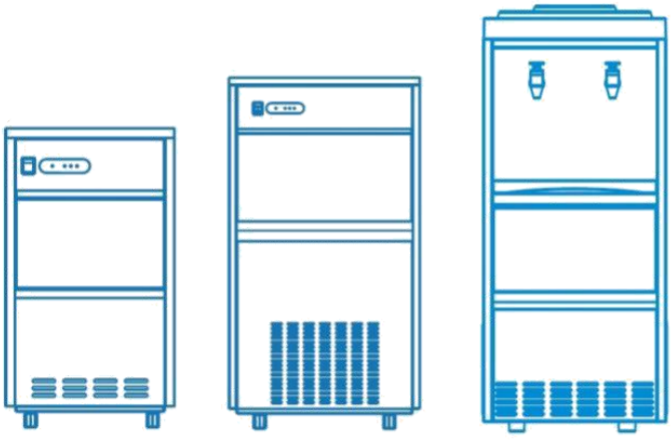
ggmgastro

ICE MAKER

Professional manufacturer

INSTRUCTION MANUAL



- Automatic Ice Maker
- Automatic Flake Ice Maker
- Ice Maker with Water Dispenser

Thank you for selecting our Automatic Ice Maker
To ensure the proper operation of this ice maker, Please read the instruction manual
Carefully before use and please keep it ready to hand at the product!

CONTENT

INTRODUCTION

Please take a few moments to carefully read through this manual. Correct maintenance and operation of this machine will provide the best possible performance.

SAFETY TIPS

- WARNING: **K**eep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- WARNING: **D**o not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- WARNING: **D**o not damage the refrigerant circuit.
- WARNING: **D**o not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- WARNING: **W**hen positioning the appliance,ensure the supply cord is not trapped or damaged
- WARNING: **Do** not locate multiple portable socket-outlets or portable power supplier at the rear of the appliance.

-- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.(For ICE)

-- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision。Children aged from 3 to 8 years are allowed to load and unload refrigerating appliances.(For EN)

--. This appliance is intended to be used in household and similar applications such as

– staff kitchen areas in shops, offices and other working environments;

– farm houses and by clients in hotels, motels and other residential type environments;

– bed and breakfast type environments;

– catering and similar non-retail applications.

--. Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

--. WARNING: Connect to potable water supply only.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Position on a flat, stable surface.
- A service agent/qualified technician should carry out installation and any repairs if required. Do not remove any components or service panels on this product.
- DO NOT immerse in water, or use steam/jet washers to clean the unit.
- DO NOT cover the appliance when it is operating.
- DO NOT lay the cable over carpets or heat insulation. Do not cover the cable. Keep away the cable

  from operating range and do not dunk it into water.
- Always carry, store and handle the appliance in a vertical position.
- Never tilt the appliance more than 45° from the vertical.
- ONLY use drinking or potable water when making ice cubes.
- The maximum temperature of water inlet do not over **38** ℃
- Ensure the water pressure of the connected water supply is between 0.1Mpa to 0.8Mpa.
- The device is to be used indoors only.
- Keep all packaging away from children. Dispose of packaging in accordance to the regulations of local authorities.
- The separate three-pole socket should be used and it must be grounded.
- The rated capacity of wire should be over 10A . The wire could be consisted by single ply or multiplies.

Warning; Risk of fire / flammable materials

Installation

1.Remove the appliance from the packaging and remove the protective film from all surfaces.

2.Remove the Ice Spoon, Water Inlet Tube, Water Drainage Pipe and Sealing Washers from the ice storage cabinet.

3. Place the device on top of an even and safe surface which supports the weight of the device.

4. Choose a surface where the ice maker is not exposed to direct sunlight, or close to a direct source of heat such as a cooker, oven or radiator.

5. When positioning the ice maker, please keep a space behind the machine to make sure that you can easy connect the water inlet pipe and the water drain pipe, (if the machine is with air cooling system,please maintain a distance of 20cm (7 inches) between the appliance and walls or other objects for ventilation. Increase this distance if the obstacle is a heat source.)

6. Position the device in a way so that the power plug is always accessible.

7. Set up the device near water supply connection.

8. If necessary, adjust the screw legs of the ice maker to make it level. The efficiency of the ice maker can be reduced if the appliance is unevenly located.

9. Fully insert one end of the Water Drainage Pipe to the water Outlet connector on the rear of the ice maker. Make sure it is tighten.

10. Insert the other end of the drain pipe into drainage pipeline.

Notice: Never to bend the drain pipe upwards to make sure the water drain pipe has a good drainage.you can cut out some of the pipes if the drain pipe is too long.

11.Connect one end of the Water Inlet Tube to the 3/4" screw type connector of the water tap so as to get the drinkable tap water. Be sure to put sealing washers in both ends of the water inlet tube before connecting.

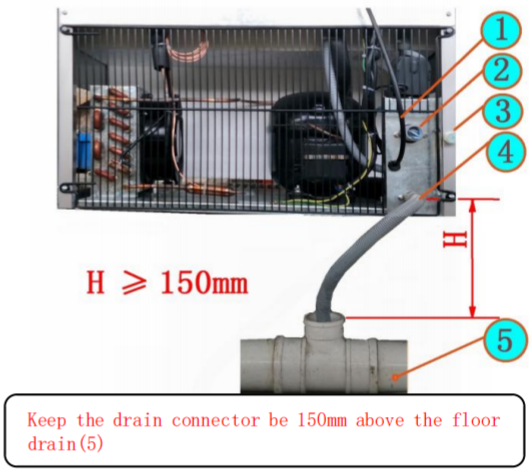
12. Connect the other end of the inlet tube to the water inlet connector.

13.Check the water leak: After finishing above water pipe connecting, please open the water tape to check the water inlet pipe, make sure it has no any water leak.

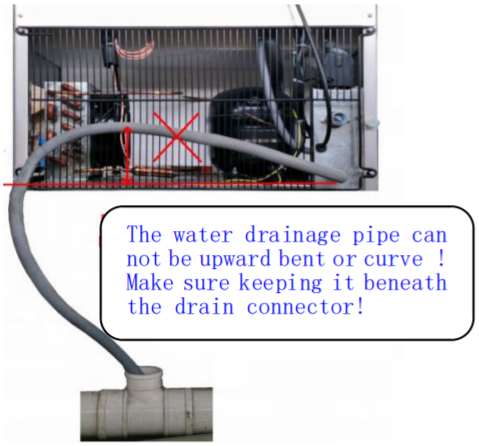
14.Check the water drainage: make sure the power socket is with a correct power supply which indicated on the product nameplate, then connect the power plug of device to a grounded single power socket, full open the water tape and switch on the power switch on the machine, the cooling system will work on, the water will push through the cooling condenser, please check the water drainage pipe for more then one minutes, make sure it has no water leaking, it has no water full out from your water drainage pipeline.(if the machine is not water cooling system, it is by air cooling system, please pour some water into the ice storage bin to check the water drain pipe, the water should be drained away from the bin)

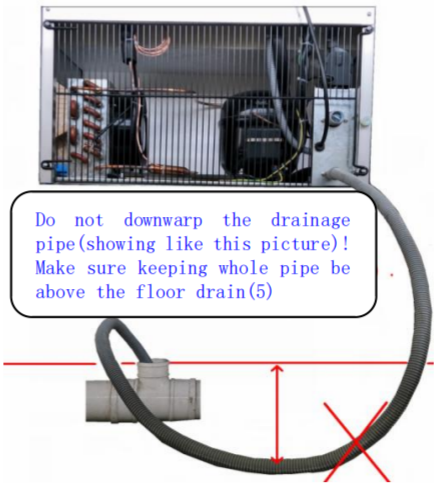
SPECIAL GUIDENCE FOR WATER DRAIN PIPE CONNECTING.

1. Please refer to following picture when you connecting the water drain pipe.
The correct connecting show as the below picture:



2.The incorrect connecting showing as below picture.





① Power cable; ②Water inlet connector; ③Drain water screw nut;
④Water drainage pipe; ⑤Floor drain.

Disposal

The symbol  on the product or on its packaging indicates that this product may not be treated as household waste. Instead it shall be handed over to be 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, For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service of the shop where you purchased the product.

Cleaning and Maintenance

- Always switch off and disconnect the power supply before cleaning.
- Warm, soapy water is recommended for cleaning. Cleaning agents may leave harmful residues.
  DO NOT wash the base unit, instead wipe the exterior with a damp cloth.
- Check regularly the connectors of the water inlet and outlet tubes and drain the little surplus water that may leak.
- If the ice make will be unused for a long period, please switch off the power switch and wipe the inner liner of the ice storage container with a clean rag.
- When plugging or unplugging, the plug should be held by hand and the wires should not be dragged heavily.
- Clean water tank if they have not been used for 48 h; flush the water system connected to a water supply if water has not been drawn for 5 days.

Operation

Note: If using the ice maker for the first time (or after a period of inactivity) please discard the first two batches of ice. Then cleans the internal systems of the ice maker.

1. Connect the device to a grounded single power socket.

Notice: Must check the rated current which is marked on the nameplate. The wires connecting in the power socket cross section area (mm^2)must conformity by follow list:

Rated current of appliance(A)	Normal cross-sectional area mm^2
>0.2 and ⩽ 3	0.5
>3 and ⩽ 6	0.75
>6 and ⩽ 10	1.0
>10 and ⩽ 16	1.5

2. Press the Power switch to the ON position [I]. The Switch light illuminates and the appliance start to work. The first 5 minutes is used for the self-inspection of the ice maker. Then it will begins the ice making process.

3. As soon as the ice storage cabinet is full, the "ICE FULL" indicator on the display panel will light on and the ice maker will stop automatically. Production resumes once ice has been removed from the cabinet.

4. If water supply is insufficient, the "WATER LOW" indicator will light on and the ice maker will stop operation automatically.

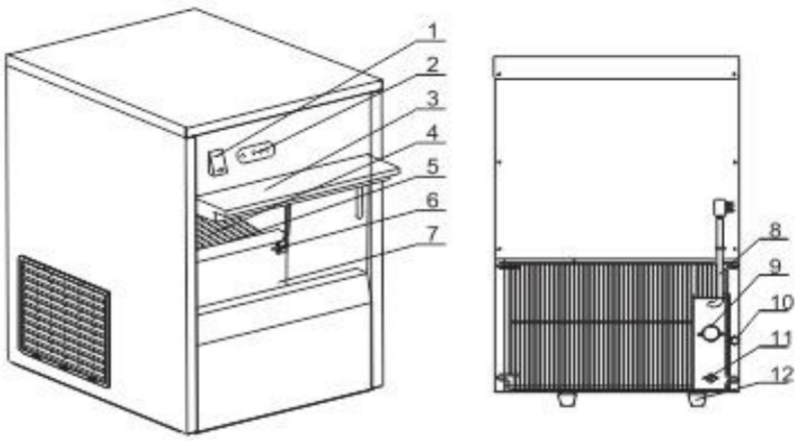
5. If any error or failure occurs, the "FAULT" indicator will light on and the ice production stops.

6. Switch off the device and disconnect it from power supply (Pull the power plug!), when it is not in use.

7. Do not switch on the device immediately after it stops automatically (caused by insufficient water supply, ice storage cabinet too full,
current interruption). Wait at least 3-5 minutes before restart it in order to avoid damages of the compressor.
NOTE: If the device is not used for a longer period of time, drain the water from the water tank via the drain screw at the back of the device (some model no drain screw).Wipe dry the water tank using a dry cloth.

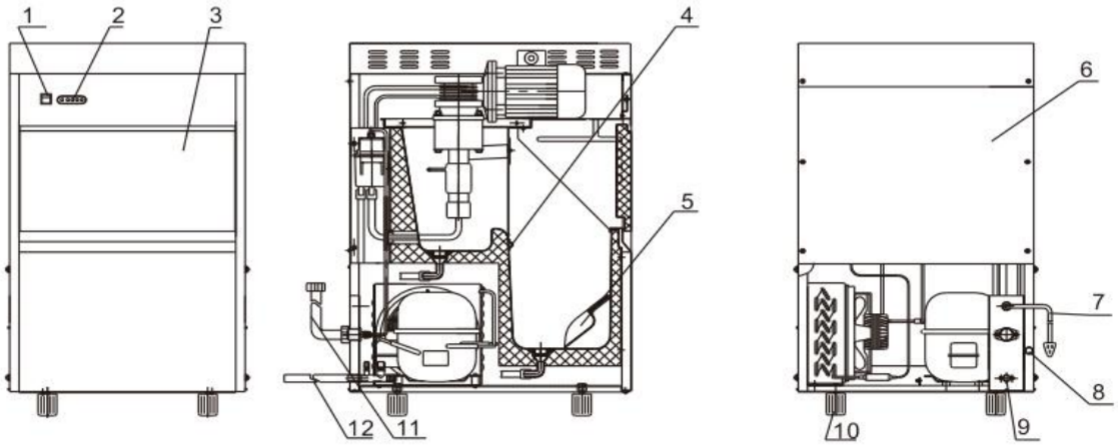
Structure

IM Series Structure



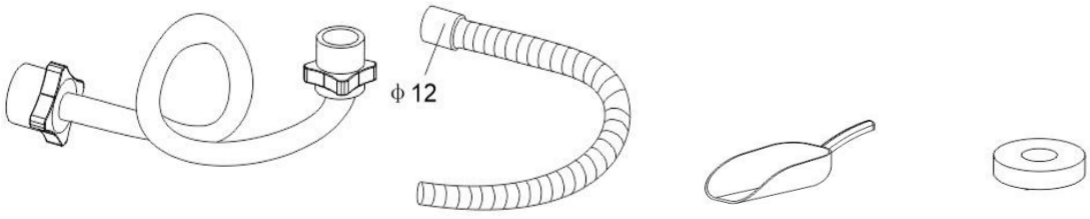
1.POWER SWITCH 2. DISPLAY BOARD 3. SLIDE DOOR 4. SHELF 5. WATER CABINET
6. ICE FULL SENSOR 7.ICE STORAGE CABINET 8. POWER CORD 9. WATER INLET CONNECTOR 10. SCREW FOR DRAINAGE 11.WATER OUTLET CONNECTOR 12. FOOT

IMS Series Structure



1. POWER SWITCH 2. DISPLAY BOARD 3. SLIDE DOOR 4. ICE FULL SENSOR 5.ICE SPOON
5. REAR COVER PLATE 7. POWER CORD 8. SCREW FOR DRAINAGE
9,DRAINING WATER CONNECTOR 10. FOOT 11. WATER INLET TUBE 12,DRAINING TUBE

Accessory



Water inlet tube 3/4” inner screw Draining tube Ice spoon Spare Washer

Control Panel

Power switch

Technical Parameters

(tested under the conditions of ambient temperature 15℃ and water temperature 10℃)

Model	Ice making capacity (kg/24h)	Ice storage (kg)	Dimension(mm)
EWBH345-N/IM-20R2	24	5	330x470x580
EWBH345W-N/IM-20WR2	24	5	330x470x580
EWBH356-N/IM-26R2	28	7	398x510x610
EWBH356W-N/IM-26WR2	28	7	398x510x610
EWBH556-N/IM-52LR2	52	16	546x572x672
EWBH569-N/IM-80AR2	80	25	500x612x908
EFBH345-N/IMS-30R2	30	5	330x470x580
EFBH358-N/IMS-85R2	85	14	398x510x832
EFBH357/IMS-50NR2	50	7	398x510x720
EFBH569/IMS-130R2	100	25	500x612x960

Troubleshooting

(for reference of users and technicians)

Note: If any trouble occurs, please wait till the machine stop automatically; Follow list will be helpful for you to know the machine troubles, but only authority person can open and check or repair the machine!

• The RUN light does not come on when switch on the machine at first time, it will light when the compressor is running.

• This ice maker has an advantage self-checking function, every fault will be displayed in the display panel with the different lights flash.

• Don't move the machine when it’s working

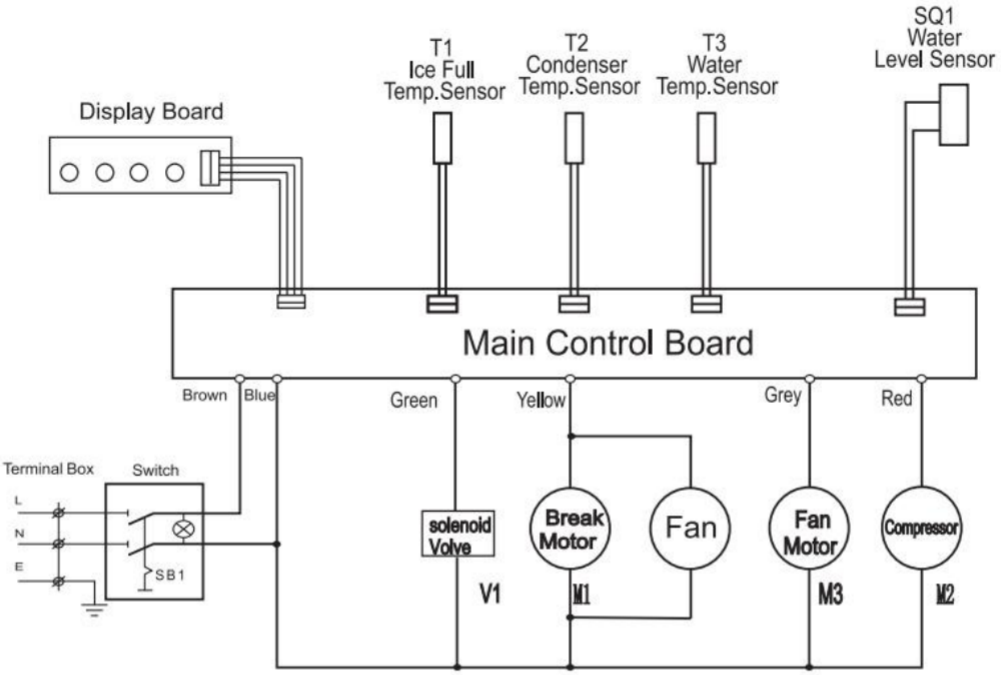
IMS-Series troubleshooting

Problem	Possible Cause	Suggested Solution
Device dose not work (without any lights come on)	. Power supply is interrupted	Check the power supply
	. Power supply Voltage is not correct	Cut off the power supply
	.Power switch was damaged	Replace it
Device dose not work (Only power switch light come on)	.PCB board was damaged	Replace it
	.Power supply Voltage is not correct	Cut off the power supply
Device dose not work (the ice full light come on)	.Ice full occur	Remove the ice cubes from basket
	.Ambient temperature is below 6℃	Keeping the ambient temperature is more than 6℃ , restart it
Device dose not work (RUN light come on but the Ice full and fault lights flash together)	.Ice full sensor was damaged or the wire was not connected	Replace or connect it correctly.
Problem	Possible Cause	Suggested Solution
Device dose not work (fault light flashing two times periodically every 6 seconds)	.Condenser temperature sensor was damaged or the wire was not connected	Replace or connect it correctly.
Device dose not work (fault light flashing one time periodically every 6 senconds)	.Water Temperature sensor was damaged or the wire was not connected	Replace or connect it correctly.
Fault light come on	.Water inlet temperature is lower then 3 degrees	stop the machine
	Flake ice motor or the gear box damaged	Replace it
Abnormal noise during the first run	.This is the sound made by the pump, because there is no water in the pump during the first operation.	It is not a malfunction.the second ice making cycle will be normal
Water remain in the ice storage bin, or water mixed with the ice in the storage bin.	.The machine was installed too low relative to the drain, or the drain pipe was crimping,or the drain pipe is connected from low to a high position.	It is not a malfunction.please check the drain and make sure it drains smoothly.

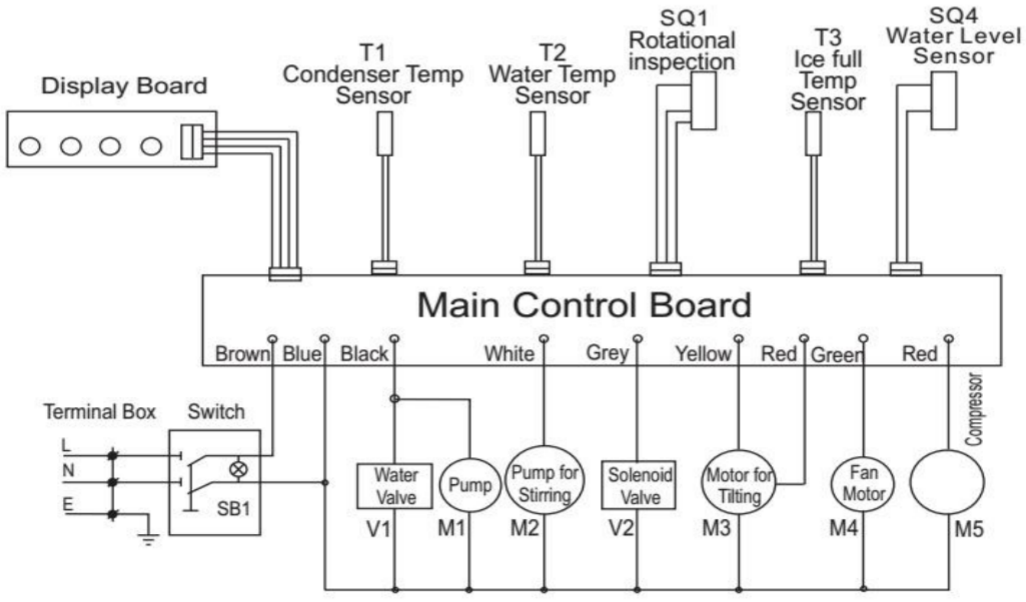
IM- Series Troubleshooting

Problem	Possible Cause	Suggested Solution
Device dose not work (without any lights come on)	. Power supply is interrupted	Check the power supply
	. Power supply Voltage is not correct	Cut off the power supply
	.Power switch was damaged	Replace it
Device dose not work (Only power switch light come on)	.PCB board was damaged	Replace it
	.Power supply Voltage is not correct	Cut off the power supply
	.Hall sensor was damaged	Replace it
Device dose not work (the ice full light come on)	.Ice full occur	Remove the ice cubes from basket
	.Ambient temperature is below 6℃	Keeping the ambient temperature is more than 6℃ , restart it
Device dose not work (RUN light come on but the Ice full and fault lights flash together)	.Ice full sensor was damaged or the wire was not connected	Replace or connect it correctly.
Device dose not work (fault light flashing two times periodically every 6 seconds)	.Condenser temperature sensor was damaged or the wire was not connected	Replace or connect it correctly.
Device dose not work (fault light flashing one time periodically every 6 senconds)	.Water Temperature sensor was damaged or the wire was not connected	Replace or connect it correctly.
Fault light come on after running 15 minutes	.Tilting motor damaged	Replace it
	.Hall sensor was damaged	Replace it
Water lack light come on	.Without water supply	waiting for water supply again
	. Water inlet valve damaged .	Replace it
	.water tray was in lower position	adjust it by raise the hall sensor
	.The screw for fixing water tray was loosen	adjust it
Ice cube sticked in the water tray	.The electric valve for droping ice does not work	Replace or connect it correctly.
	.cycle pump does not work	Replace or connect it correctly.
Ice cube size is not very equal	.Refrigerant leak	Recharge it after leak checking

Circuit Diagram.

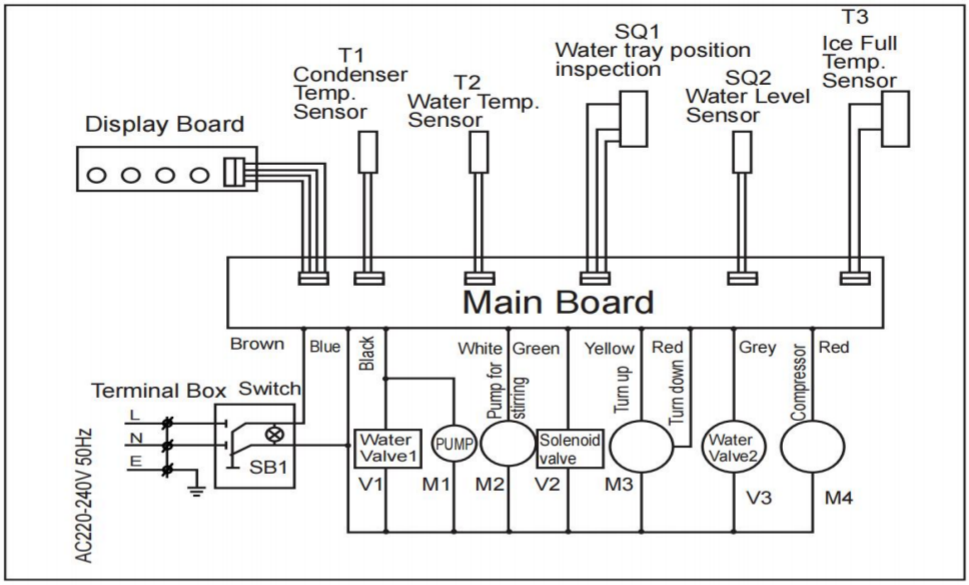


MODEL:**EFBH345-N ; EFBH358-N; EFBH357 ; EFBH569;**



Model: **EWBH356-N; EWBH556-N; EWBH569-N; EWBH345-N**

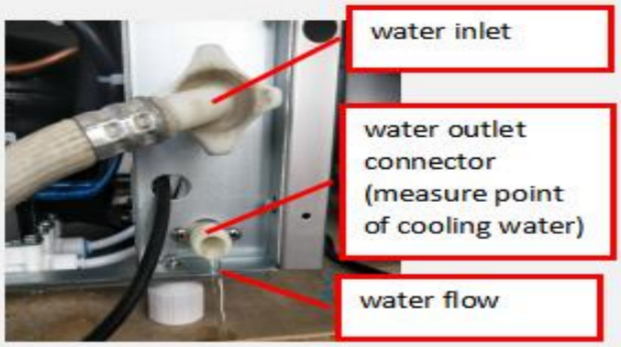
Circuit Diagram.

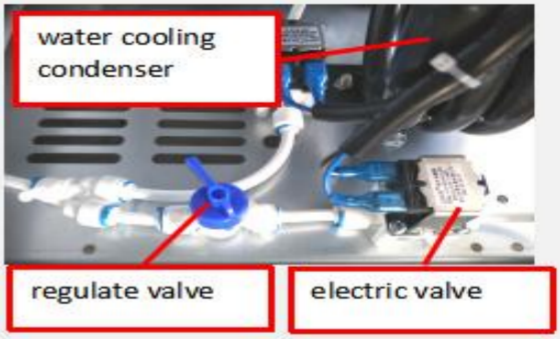


Model: **EWBH356W-N ; EWBH345W-N**

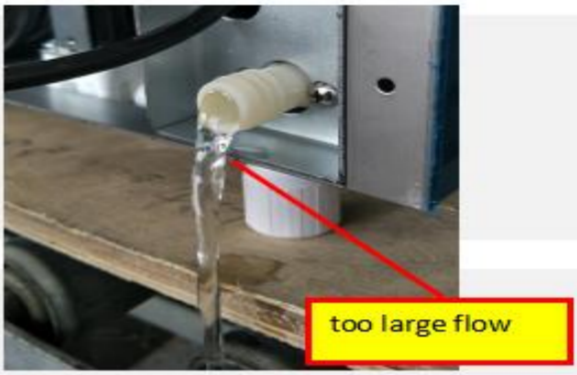
EXTRA TIPS

This ice maker is with water cooling system, the cooling water flow was adjusted at factory under the water supply pressure is 0.3-0.4 Mpa,normally you do not need do any adjustment. but in some where, the water supply pressure is higher than 0.4Mpa, or less than 0.3Mpa, it will affect cooling effect or it will be a waste of water consume , so you should do the adjustment for the cooling water flow as bellow.

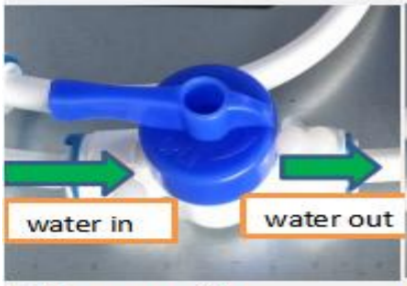




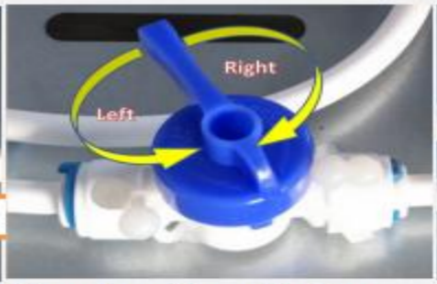
Follow pictures only as a reference for the water flow :



How to adjust the water flow:



Full open position,
MAX flow ↑



Normal position at factory,
Normal flow ↑

Full closed position.
no water flow ↑

Start on the machine,(during the first starting 90 seconds we can measure the water flow.) after 10 seconds you can see the water will flow out from the water outlet connector, with a container to collect the water and time one minutes, then weigh it,it should be 450grams to 550 grams(the normal water flow is 500ml /minutes.)

If it is too much, turn right the regulate valve to add the flow, measure it again.

If it is less, turn left the regulate valve to reduce the flow, measure it again.