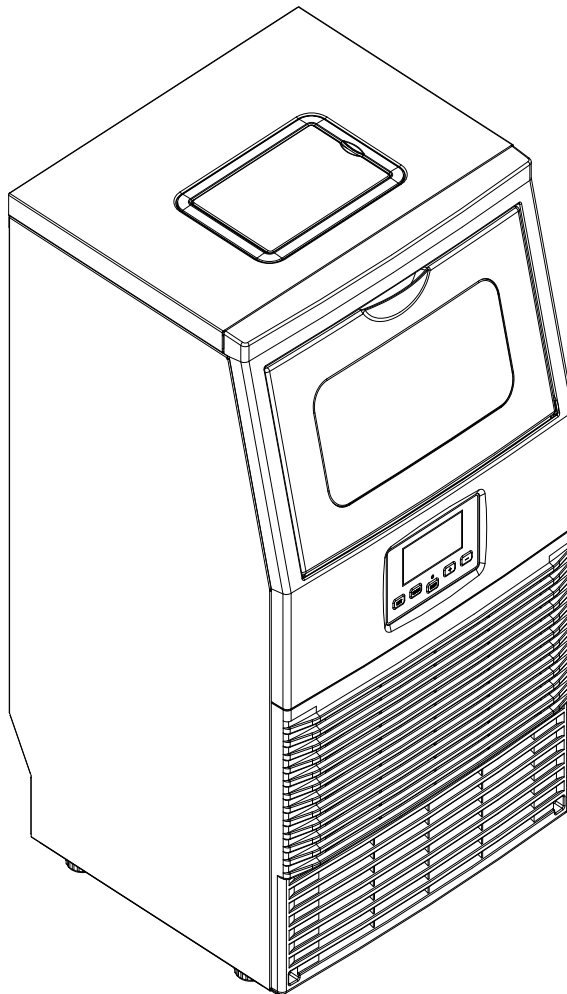


# ***ICE CUBE MACHINE***

**--Both Manual & Automatic water supplying**



## ***Instruction Manual***

**To ensure proper use of this appliance and your safety, please read the following instructions carefully before operating this appliance.**

**PLEASE DO NOT RETURN TO STORE**



**Please do not return this product to the retailer!!  
We are able to assist you in ANY way**

If you find that you have any trouble with assembly or missing or damaged parts please contact the seller.

# CONTENTS

IMPORTANT INSTRUCTION-----	2
IMPORTANT SAFTY TIPS-----	3
SPECIFICATION-----	5
DIMENSION/CONNECTION-----	5
RATING-----	5
GENERAL INFORMATION-----	6
MAIN UNIT CONSTRUCTION-----	6
ICE-MAKING AND ITS WATER TANK PARTS-----	6
OPERATION PANEL-----	7
EXPLOSIVE DRAWING-----	8
OPERATING PROCEDURE AND MAINTENANCE-----	11
UNPACKING YOUR ICE MAKER-----	11
INSTALLATION LOCATION REQUIREMENT-----	11
ELECTRICAL REQUIREMENT & CONNECTIONS-----	12
CLEANING YOUR ICE MAKER BEFROE FIRST USING-----	13
OPERATION YOUR UNIT-----	13
HOW TO FILL WATER BY HAND-----	14
OPERATION THE ICE MAKING PROCESS-----	14
AUTOMATIC SELF-CLEANING PROGRAM-----	17
TIMER SETTING OPERATION-----	17
INTERNAL LED LIGHT OPERATION-----	18
ERROR CODE OF UNIT BREAKDOWN-----	18
WATER DRAINAGE-----	18
NORMAL SOUNDS-----	18
PREPARING ICE MAKER FOR LONG STORAGE-----	19
CLEAND AND MAINENANCE -----	19
EXTERIOR CLEANING-----	20
INTERIOR CLEANING-----	20
ICE MAKING PARTS CLEANING-----	20
ICE MAKING ASSEMBLY SYSTEM CLEANING BY USING NU-CALGON NICKLE SAFE ICE-MACHINE CLEANER -----	22
CLEANING SUGGESTION-----	23
WIRING DIAGRAM-----	24
NORMAL TROUBLE SHOOTING-----	25

## ***IMPORTANT SAFETY INSTRUCTIONS***

**Your safety and the safety of others are very important.**

We have provided many important safety messages manual and your appliance.  
Always read and obey all safety messages.

This is the safety alert symbol:



All safety messages will follow the safety alert symbol and the word “DANGER” or “WARNING”.



**DANGER**



**WARNING**

These words mean:

**You can be killed or seriously injured if you don't immediate follow instructions.**

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

## **IMPORTANT SAFETY TIPS**

**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.**

Use this appliance only for its intended purpose as described in this owner's manual.

This ice-maker must be properly installed in accordance with the installation instructions before it is used.

This unit must be positioned so that the plug is accessible. Do not run cord over carpeting or other heat insulators. Do not cover the cord. Keep cord away from traffic areas, and do not submerge in water. No other appliance should be plugged into the same outlet, and be sure that the plug is fully inserted into the receptacle.

We do not recommend the use of extension cord as it may overheat and cause a risk of fire. If you must use an extension cord, use 16AWG minimum size and rated no less than 1875 watts.

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

Disconnect the mains plug from the supply socket when not in use for a long term, where supply connection is via mains plug.

Remove power plug or disconnect from the mains before cleaning or servicing the appliance.

**NOTE:** *If for any reason this product requires service, we strongly recommend that a certified technician perform the service.*

Never unplug you unit by pulling on the power cord. Always grasp the plug firmly and pull straight out from the outlet.

Do not use your unit outdoors. Keep the unit away from direct sunlight and make sure that there is at least **6 inches** of space between the back of your unit and wall and keep the front free. Keep ventilation opening in the appliance enclosure or in the built-in structure, clear of obstruction.

Do not tip over the unit which will cause abnormal noisy and make the ice-cube size abnormal. And seriously, it may cause water leakage from the unit.

If the unit is brought in from outside in the winter season, give it a few hours to warm up to room temperature before plugging it in.

Do not use other liquid to make the ice-cube other than water.

Do not clean your ice maker with flammable fluids. The fumes can create a fire hazard or explosion.

- **WARNING:** Do not damage the refrigerant circuit.
- **WARNING:** Children should be supervised to ensure that they do not play with the appliance.
- **WARNING:** This appliance must be earthed. And use the 110-120V/60Hz earthed power supply.
- **DANGER** – Risk Of Fire or Explosion. Flammable Refrigerant Used. Do Not Use Mechanical Devices To Defrost Ice Maker. Do Not Puncture Refrigerant Tubing.



- **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 Property In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used .
- **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 needs maintenance, component parts shall be replaced with like components, and servicing shall be done by factory authorized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

#### **IMPORTANT:**

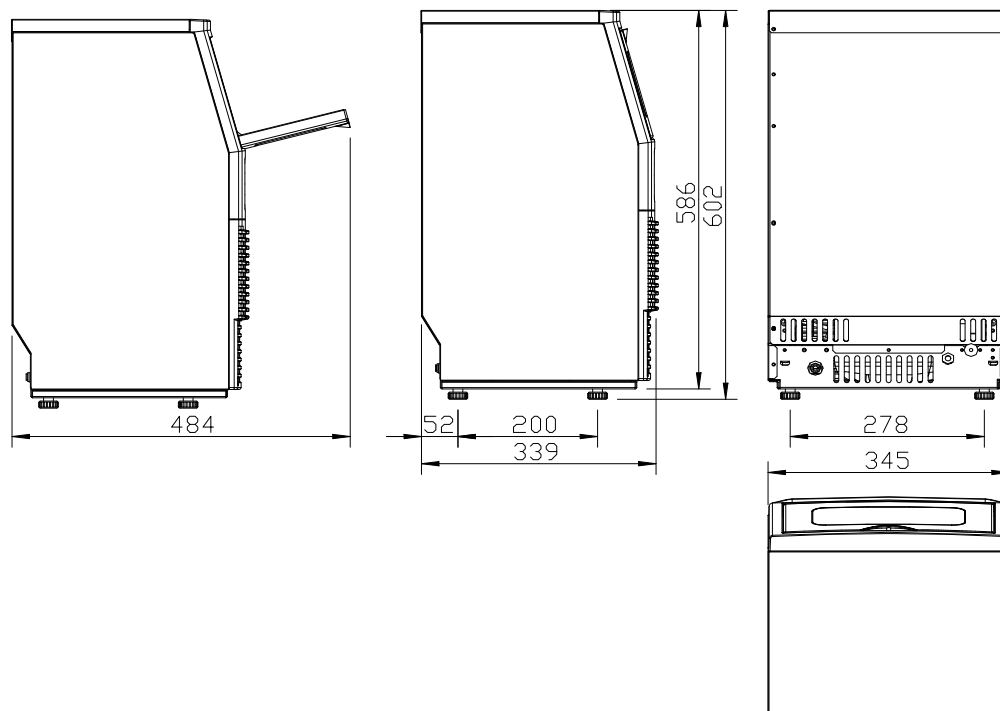
The wires in this mains lead are colored in accordance with the following code:

Green with or without yellow strip:	Grounding
White:	Neutral
Black:	Live

To avoid a hazard due to instability of the appliance, it must be placed at an even or flat surface.

# SPECIFICATIONS

## 1) DIMENSIONS/CONNECTIONS



## 2) Rating

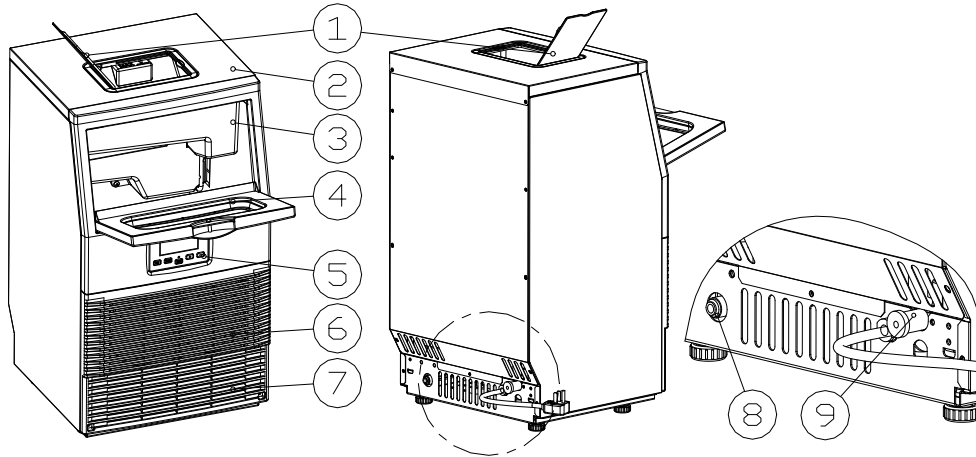
POWER SUPPLY VOLTAGE	1Phase, 110-120/60Hz
ELECTRICAL PROTECTION CLASS	I
ICE MAKING RATING (Amps)	2.4 Amp
ICE HARVEST RATING (Amps)	2.8 Amp
REFRIGERANT CHARGE	R290 1.7 oz/48g
VESICANT	C5H10
UNIT DIMENSIONS(W X D X H) (in)	13.6x13.35x23.7
NET WEIGHT(ibs)	32 lbs
CONNECTION	POWER CORD---- 18AWG WATER SUPPLY----1/4 inches Diameter DRAIN PIPE--- Φ 5/8 inches SYLPHON BELLOWSS
ACCESSORIES	ICE SCOOP, INSTALLATION KITS
RUNNING CONDITIONS	ROOM TEMP 50-110 Fahrenheit WATER SUPPLY TEMP 41-95 Fahrenheit WATER SUPPLY PRESSURE** 0.04-0.6 MPa

NOTE \*: TESTED AT 70 Fahrenheit ROOM TEMPERATURE AND 50 Fahrenheit WATER TEMPERATURE.

\*\* FOR AUTOMATIC WATER SUPPLYING

## GENERAL INFORMATION

### 1) Main Unit Construction



1. Water filler cap on top
2. Top cover
3. Ice-making & its water tank assembly: Including ice-making evaporator, water tank, water charging tank, water control valve, water pump and some detecting parts
4. Door for ice taking
5. Operation panel
6. Air outlet: Must keep the air circulate smoothly, hot air will blow out when unit running.
7. Air inlet
8. Main Water supplying inlet: For connecting the main water supplying pipe
9. Water draining port: Normal plugged with the cap. When need to drain the water, unplug the cap. And connect the white drain pipe.

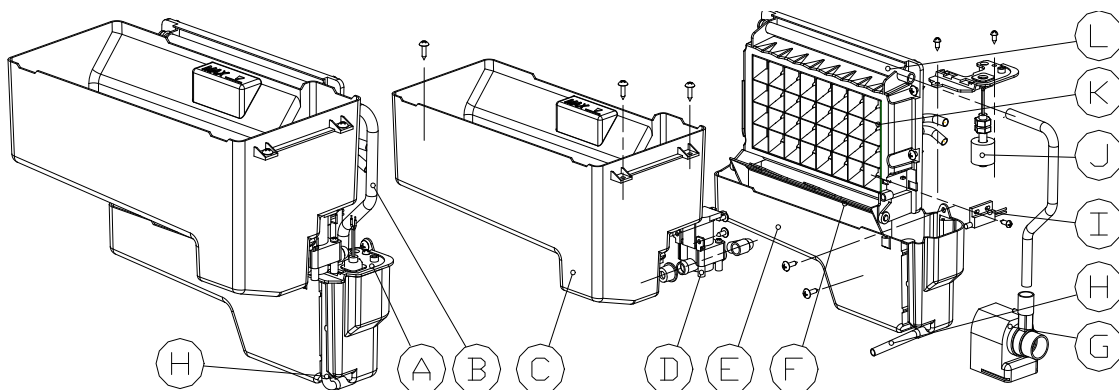
Accessory: White color water drain pipe (about 6 feet long) x 1

Water quick connector of the water faucet (1/4 to 1/2 inches ) x 1

White color water supplying hose (ϕ5/8 inches in diameter) x 1

Ice Scoop x 1

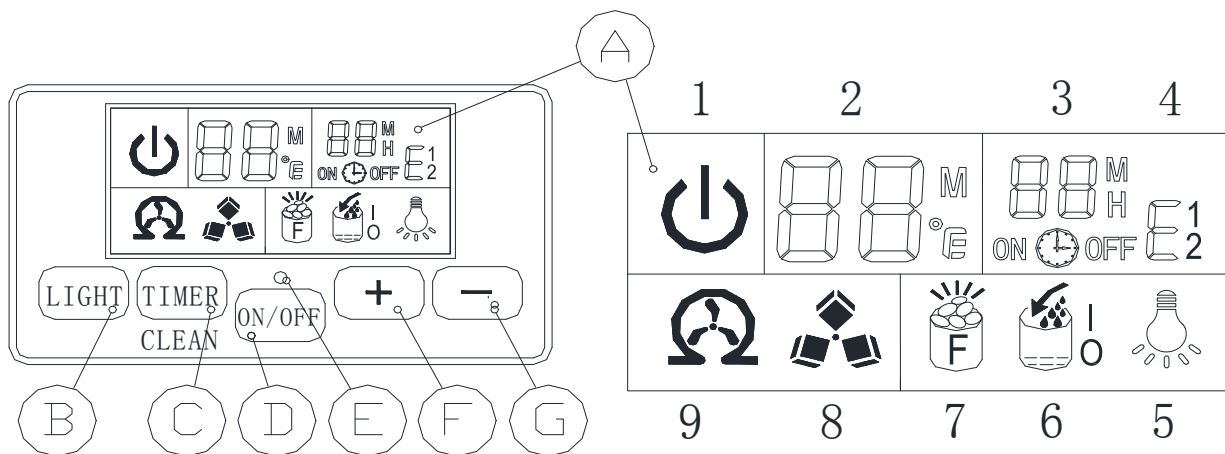
### 2) Ice-making and its Water Tank Parts





- A. Water level switch installing plate
- B. Water supplying pipe
- C. Water charging tank: Approximate 3.5 liters volume
- D. Water outlet control valve of water charging tank
- E. Water tank for water circulation: Approximate 0.9 liters volume
- F. Ice full detecting board: Use to detect the inner cabinet is full of ice or not, and to check the ice dumping process is over or not.
- G. Water circulation pump
- H. Water drain pipe of the water tank: When making ice, this silicone pipe should be clamped in the slot of the water tank wall; and when draining water, this pipe should be pulled out and expand completely.
- I. Ice full detector
- J. Water level detecting switch
- K. Evaporator (ice-making module)
- L. Water dividing pipe: With eight little holes, water will flow out from these little holes. If no water flows out, the pipe may be blocked and you can disassemble and clean it.

### 3) Operation Panel



#### A. LCD Display Window

1. Unit ON or OFF state symbol: When the unit is turned off (standby mode), this symbol flashes, and when the unit is working, the symbol will be on.
2. Ambient temperature and ice-making countdown time display
3. Ice-making setting and Timer setting display
4. Error code: E1 means that the ambient temperature sensor goes wrong; E2 means that ice-making process is abnormal;
5. Light symbol: When this symbol displays, the LED light inside the cabinet will be on;
6. Water flowing and water absence symbol: If the arrow flashes, it means the water is flowing to the water tank; and if the sign lights up, it means there is no enough water to start the ice-making process.
7. Ice-full display: When the ice storage cabinet is full of the ice cube, this symbol will light up, and the unit will stop ice-making process.
8. Ice making and dumping display: When the ice cube symbol keep rotate, it means the unit is making ice; and if the symbol flashes, means the unit is during the ice dumping process.
9. Self-cleaning display.

#### B. "LED Light" Button

To turn on or turn off the internal LED light;

Note: Long press this button for more than 5 seconds to switch the ambient temperature unit between Fahrenheit (°F) and Centigrade (°C).

### C. "Timer/Clean" Button

Quickly press this button once to enter the timer setting program; and press this button for more than 5 seconds to enter the self-cleaning program.

### D. "ON/OFF" Button

When the unit is off, press this button to turn on the unit;

During the self-cleaning program, or normal ice-making state, press this button to turn off the unit at once;

If the unit is set with the timer, press this button to cancel the timer setting;

When the unit is making ice cube, press this button for more than 5 seconds, the unit will switch to ice dumping process by force.

### E. Water Supplying Mode Setting Button

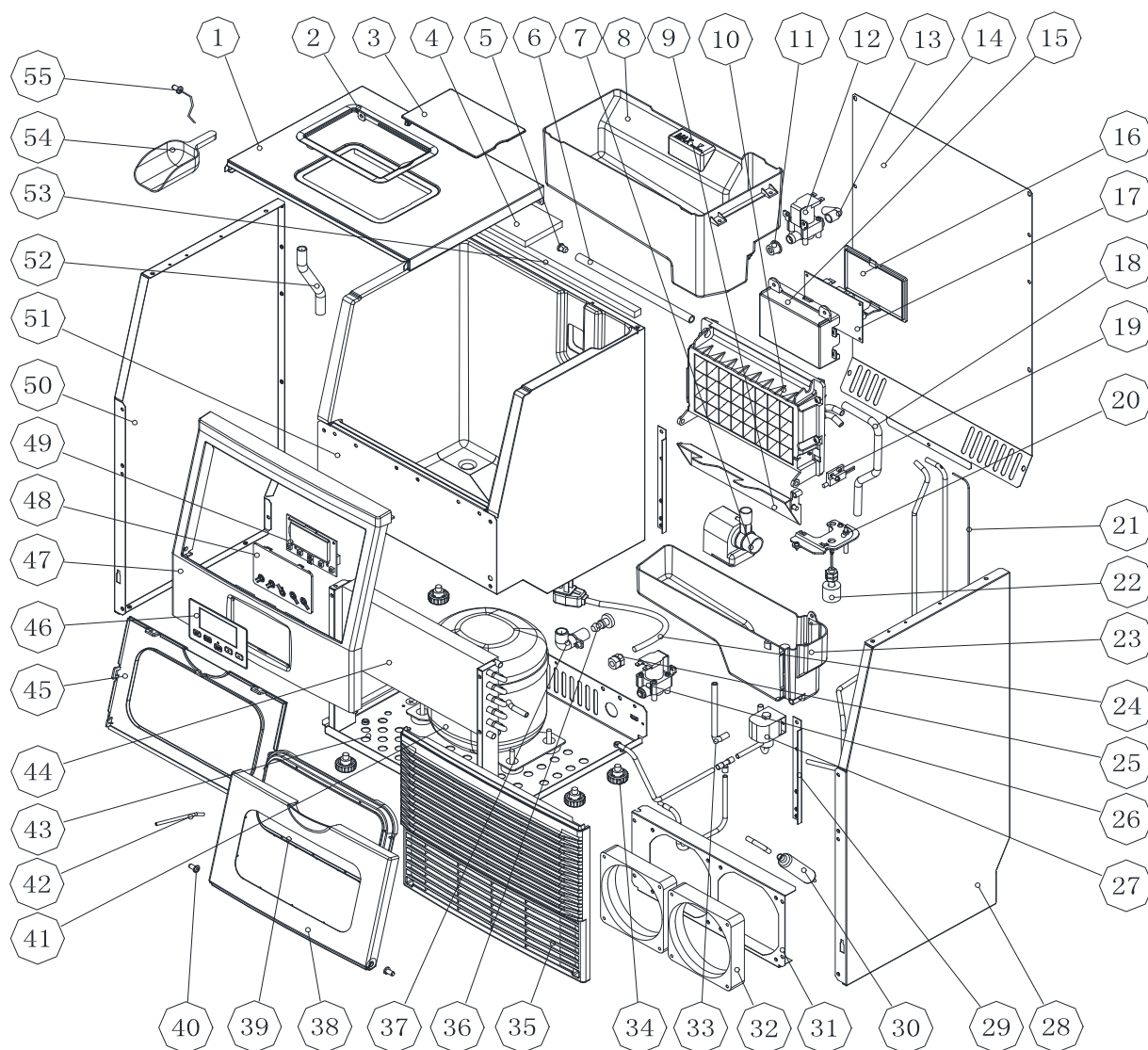
Use a thin pole to press this button, can change the water supplying mode between manual supplying and automatic supplying.

### F/G. "+"、"-" Button

Adjust the ice-making process duration. The default setting is zero, and each press adds or reduces 1 minute.

Adjust the delay time of the timer. The default setting is zero, and each press adds or reduces 1 hour.

## 4) EXPLOSIVE DRAWINGS



No.	Part Name	Material	Qty.	Note
1	Top cover	Steel plate	1	With hole
2	Top Water filler flame	ABS	1	
3	Top water filler cap	Transparent ABS	1	
4	Insulation sponge for top cover	PE	1	
5	Cap of the water dividing pipe	Silicone	1	
6	Water dividing pipe, eight holes	ABS	1	
7	Water Circulation pump	Electrical parts	1	
8	Water charging tank	PP	4	
9	Ice full detecting plate	ABS	1	
10	Evaporator & its frame	Copper plated with nickle, and ABS frame	1	
11	Sealing circle	Silicone	1	
12	Water outlet control valve	Electrical parts, DC12V	1	
13	Water pipe of outlet control valve	Silicone	1	
14	Back plate	Galvanized sheet	1	
15	Electrical PCB box	ABS, fire-retardant	1	
16	Cover of electrical PCB box	PCB, Electrical parts	1	
17	Main control PCB	PCB, Electrical parts	1	
18	Water pipe of water pump outlet	Silicone	1	
19	Magnetic control switch	DC5V, Electrical parts	1	
20	The cover of water tank	ABS	1	
21	Capillary	Copper tube	1	
22	Water level detecting switch	Electrical parts, DC5V	1	
23	Water tank	ABS	1	
24	Power cord	Electrical parts	1	
25	The clipper of power cord	PP, fire-retardant	1	
26	Water inlet valve	Electrical parts, DC12V	1	
27	Ice-harvesting Electro-magnetic valve	AC115V/60Hz, Electrical parts	1	
28	Right side plate	Steel plate	1	
29	Support plate of foaming cabinet	Galvanized steel	1	

30	Dry filter	Copper parts	1	
31	Support frame of DC fan	Galvanized steel	1	
32	DC fan	Electrical parts, DC12V	1	
33	Water drain pipe of water tank	Silicone	1	
34	Bottom Foot	ABS and bolts	4	
35	Air inlet front panel	ABS	1	
36	Water drainage cap	Rubber	1	
37	Water drainage port	ABS	1	
38	Front door panel for ice taking	ABS	1	
39	Transparent window of front door panel for ice taking	AS	1	
40	Door shaft	ABS	2	
41	Compressor	Electrical parts, AC115V	1	
42	Refrigerant charging valve	Copper parts	1	
43	Bottom plate	Galvanize steel	1	
44	Condenser	Copper and aluminium	1	
45	Inner plate of ice-taking door	ABS	1	
46	Operation panel paper	PET/PVC	1	
47	Door frame for ice taking	ABS	1	
48	Operation panel PCB box	Transparent ABS	1	
49	Operation panel PCB	Electrical and Electronic parts	1	
50	Left side plate	Steel plate	1	
51	Foaming cabinet	Assembly	1	
52	Water drainage pipe of cabinet	Silicone	1	
53	Top sponge of cabinet	PE	1	
54	Ice scoop	ABS	1	
55	LED light	Electrical parts	1	
56	Wiring	Electrical part	1	

## OPERATING PROCEDURES & MAINTENANCE

### UNPACKING YOUR ICE MAKER

1. Remove the exterior and interior packaging. Check if all the accessories, including instruction manual, ice scoop, white water supplying hose, 1/4 inches to 1/2 inches water quick connector and the water draining pipe, etc., are inside or not. If any part is missing, please contact the seller.
2. Remove the tapes for fixing the door and inner cabinet, ice scoop, etc. Clean the inner cabinet & ice scoop with wet cloth.
3. Put the ice maker on a level & flat floor, without direct sunlight and other sources of heat (i.e.: stove, furnace, radiator). Make sure that there is at least **8 inches** gap between the air outlet and the obstacles, and at least **2 inches** between Left/Right side and the wall.
4. Allow 4 hours for the refrigerant fluid to settle before plugging the ice maker in if the unit maybe fall upside down during shipping or transportation.
5. The appliance must be positioned so that the plug is accessible.

**WARNING: Only use drinking water.**

**For manual water supplying, fill with potable water only.**

**For automatic water supplying, connect to the potable main water supply only.**

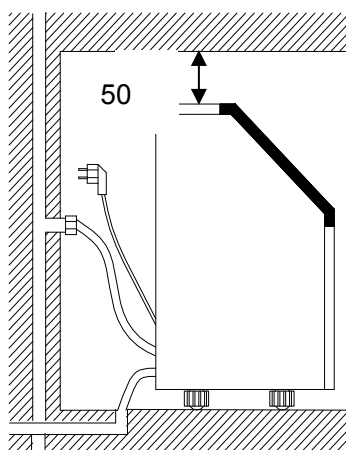
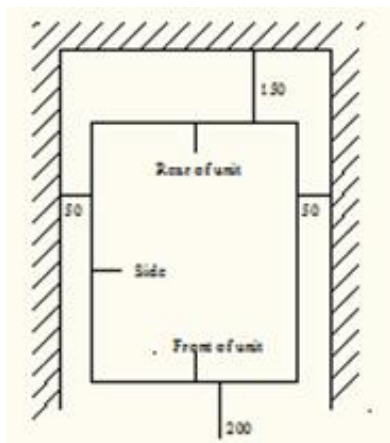
### INSTALLATION LOCATION REQUIREMENT

- a) This unit is not for outdoor use. Keep the proper room temperature and inlet water temperature according to above specification table. Otherwise it will affect the ice making performance.
- b) This unit should not be located near any heat resource.
- c) The unit should be located on a firm & level foundation at normal counter top height.
- d) There must be at least 6 inches clearance at rear side for connection and 8 inches clearance in front to open the door and keep good air circulation.
- e) Do not put anything on the top of the ice maker.

Installation clearance

top view (mm)

Side view (mm)



To ensure proper ventilation for your ice maker, the front of the unit must be completely unobstructed (at least 8 inches free space). Allow at least 6 inches cm clearance at rear, and 2 inches of two sides for proper air circulation. And allow about 20 inches high space at top to fill water freely from unit top when using manual water supply way and for proper air circulation. The installation should allow the ice maker to be pulled forward for servicing if necessary.

When installing the ice maker under a counter, follow the recommended spacing dimensions shown above. Place electrical and drain fixtures in the recommended locations as shown.

Choose a well-ventilated area with temperatures above 50 Fahrenheit and below 90 Fahrenheit. This unit MUST be installed in an area protected from some elements, such as wind, rain, water spray or drips.

The temperature of the water supplying should be between 41 Fahrenheit and 77 Fahrenheit for proper operation.

## **ELECTRICAL REQUIREMENT & CONNECTIONS**

**WARNING: THIS UNIT MUST BE EARTHED.**

### **Electrical Shock Hazard**

**Plug into a grounding wall outlet.**

**Never remove the ground prong.**

**Use separate power supply or receptacle.**

**Never use an adapter.**

**Never use an extension cord.**

**Failure to follow these instructions can result in death, fire, or electrical shock.**

Before you move your ice maker into its final location, it is important to make sure you have the proper electrical connection.

It is recommended that a separate circuit, serving only your ice maker, be provided. Use receptacles that cannot be turned off by a switch or pull chain. If the supply cord or plug to be replaced, it should be done by a qualified service engineer.

This appliance requires a standard 110-120Volt, 60Hz electrical outlet with good grounding means.

### **Recommended grounding method**

For your personal safety, this appliance must be properly grounded. This appliance is equipped with a power supply cord having a grounding plug. To minimize possible shock hazard, the cord must be plugged into a mating grounding-type wall receptacle, grounded in accordance with the National Electrical Code and local codes and ordinances. If a mating wall receptacle is not available, it is the personal responsibility of the customer to have a properly grounding wall receptacle installed by a qualified electrician.

## CLEANING YOUR ICE MAKER BEFORE FIRST USING

Before using your ice maker, it is strongly recommended to clean it thoroughly.

1. Open the ice taking door.
2. Clean with diluted detergent, warm water and a soft cloth.
3. Repeatedly clean the water contacting inner parts, use the water or the wet cloth to scrub the relevant parts, then use the dry cloth to dry them.
4. You can pull the Water drain pipe of the water tank indicating "H" in above illustration to drain out the cleaned water in the water tank, then next to clean inner ice-storing bin, till all of inner parts are clean, then drain out all of the cleaned water from the water drain port located at unit back indicating "8" in above illustration. And must to install back the water drain pipe of the water tank and the cap of the unit water drain port, otherwise, the unit will not make the ice normally. **And suggest that you should discard the ice-cube made by the first ice making cycle after cleaning.** **Note:** Please see the section "Water Drainage" in this manual to drain out the cleaned water.
5. The outside of the ice maker should be cleaned regularly with a mild detergent solution and warm water.
6. Dry the interior and exterior with a clean soft cloth.

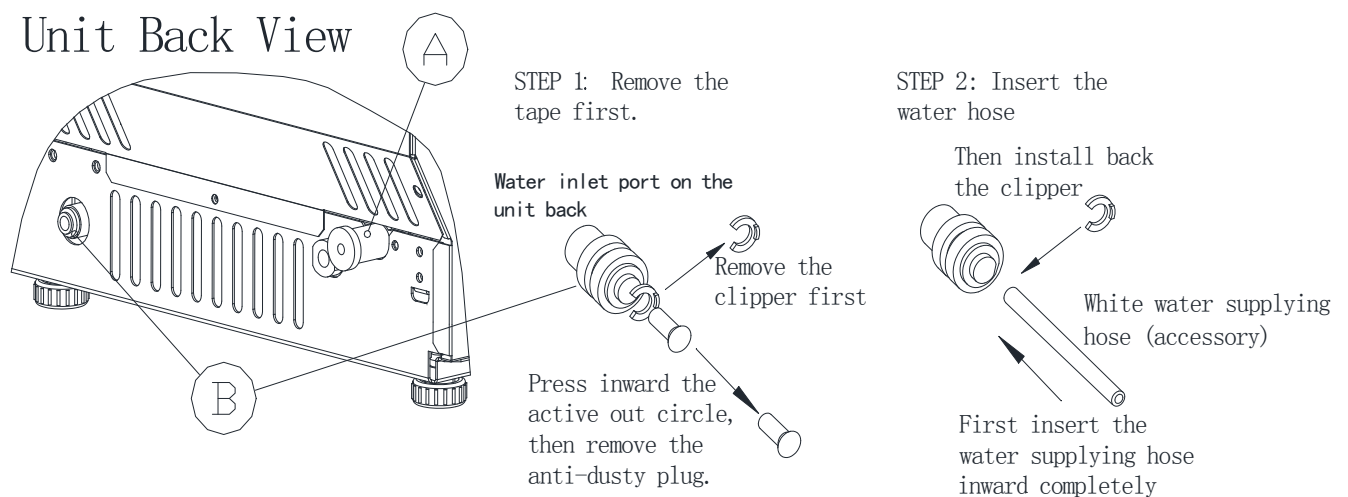
## OPERATION YOUR UNIT

### WATER CONNECTION FOR YOUR ICE MAKER

Important: Be sure to use the new hose-sets supplied with the appliance to connect to water mains and that old hose-sets should not be reused.

#### 1. Connect the water supplying hose to the unit (For automatic water supplying)

Step 1: First remove the clipper on the water inlet port for main water supplying (indicated in the following illustration "B" located at unit back, then pushing inwards the anti-dusty plug, use your other hand's finger to press the out circle to fix the anti-dusty plug, then take down the anti-dusty plug;  
Step 2: Insert the one end of the white water supplying hose into the water inlet port, and push inward completely, and install back the clipper, then water supplying hose connection is completed.



## 2. Connecting the water drainage pipe

Pull out the water drainage cap with black color (indicated ① in above illustration), then

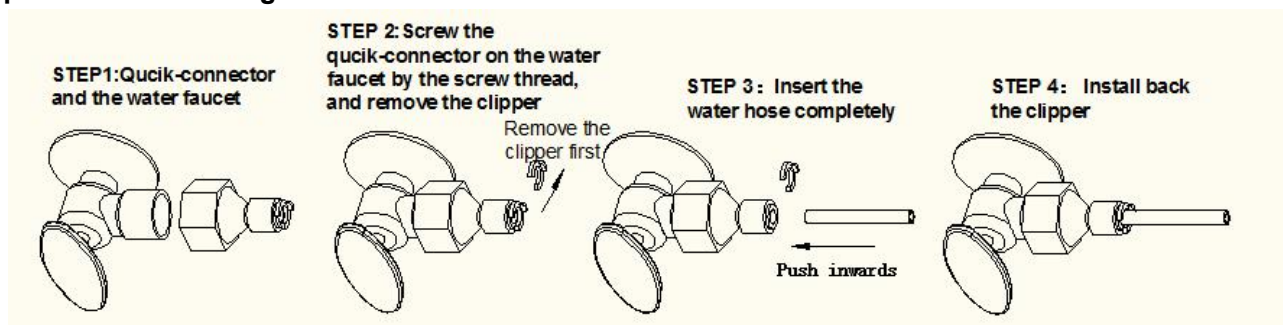
connect the white drainage pipe included in accessory, again connect the other end of this drainage to the main water drainage pipeline. Make sure not to set the drainage pipe too high.

## 3. Connect the water hose to the water faucet of the water main supply system (For automatic water supplying)

First, install the supplied water quick-connector(from 1/4 to 1/2 inch, with black sealing circle) to the water faucet by screw thread; Second, remove the clipper from the water quick-connector, insert the another end of the water hose into this quick-connector port completely, then install back the clipper, also this step is completed.

Note: The water faucet is not included.

**Important: The water pressure of main water supply system must be 0.04-0.5 MPa at least and 0.6 MPa at largest. If the pressure is too big (like bigger than 0.8 MPa), it should be installed with pressure decreasing valve first.**



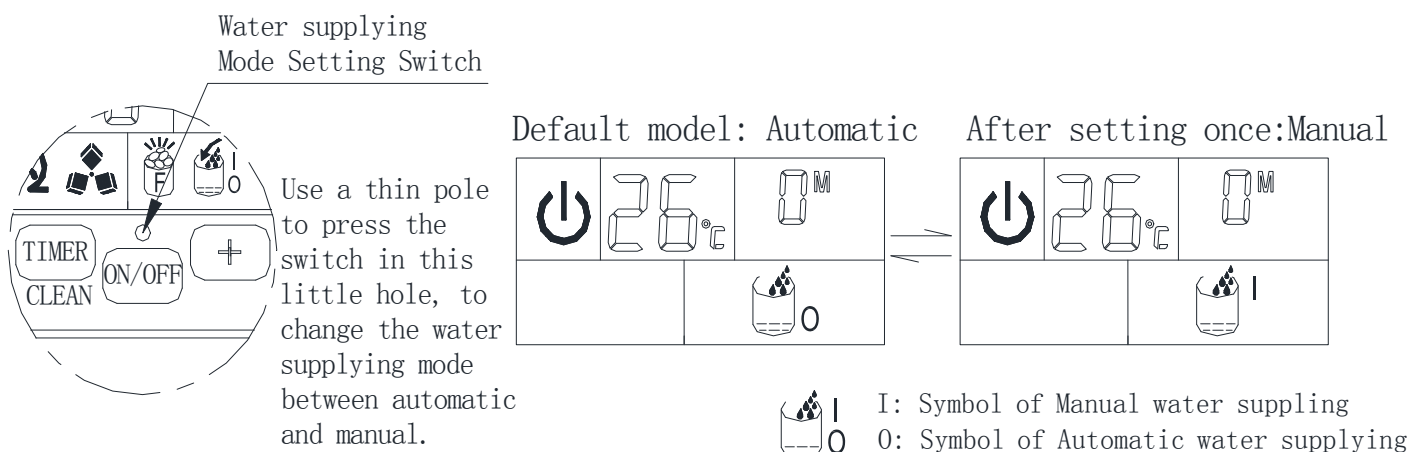
Note: If you set the unit supplied by manual water filling, don't need to do step 1 and 3.

If you choose the automatic water supplying, the ice maker requires a continuous water supply with pressure 1-6 Bar as required in above specification table.


## Operation the ice-making process


### Selecting the water supplying mode

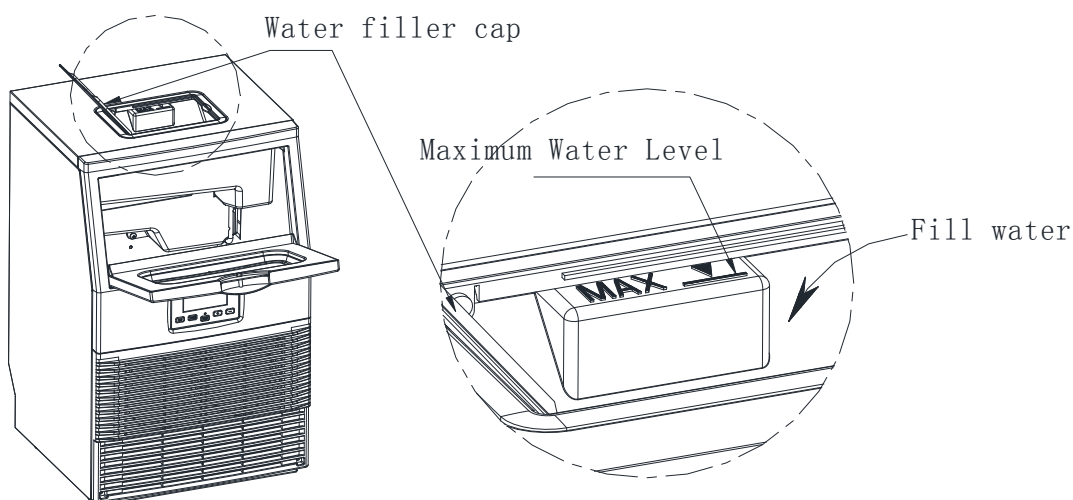
Plug in the unit, press the button in the little hole on the control panel, you can change the water supplying mode of your unit.





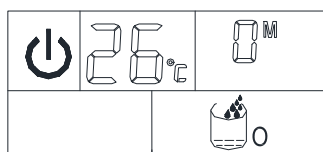
A. If you select to use  automatic water supplying mode, please complete the water connection according the above section “WATER CONNECTION FOR YOUR ICE-MAKER”.

B. If you select to use  manual water supplying mode, open the transparent water filler cap on the top, fill the potable water by hand into the unit till the maximum water level. We suggest to fill the water tank every 2-3 hours.



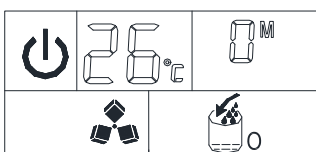
**Ice making program is explained in following chart:**

Step 1: Standby state

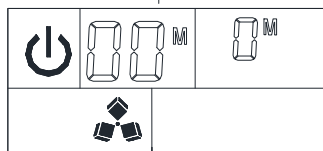
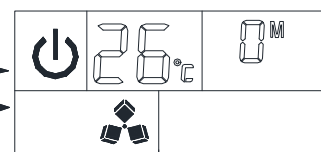


Press  
ON/FF  
button to  
turn on  
the unit

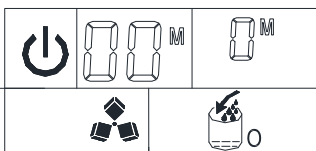
Step 2: The arrow  
flashes, water flows  
in the unit



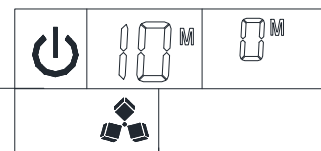
Step 3: Start to make  
ice, and ice-cube symbol  
rotates.



Step 6: During ice-harvest,  
water-flowing process  
finished to start to make  
ice-cube again.



Step 5: Ice-harvest  
starts, and ice-cube symbol  
flashes; At same time the  
arrow flashes and water  
flow into the water tank



Step 4: Display the  
countdown time of one  
ice-making process



I :Manual water supplying symbol;



O: Automatic water supplying symbol;



this symbol flashes, means the water is flowing into the water tank.

If this whole symbol

keeps displaying, means no main water supplying at present.



Ice-cube symbol: when it rotate, means the unit is making the ice cube; and when it flashes, means the unit is in ice dumping process.

**F** Fahrenheit (ambient temperature)

**H** unit of hour (setting the timer)

**M** unit of minute (ice-making setting and countdown time)

1. Plug on the main power supply plug, then press “ON/OFF” button on the control panel to start the ice making cycle. The unit ON/OFF state symbol will keep lighting on, the left number in the LCD display window displays the present ambient temperature, and the right number displays the present ice-making setting, and the ice-cube symbol rotates. When the left number change to flash, then the number means the countdown time to complete one ice making cycle.

2. Each ice making cycle will last about 11 to 20 minutes, depending on the ambient temperature and the water temperature. And for the first time, according to the initial water temperature, ice-making duration will be a little longer.

3. When the ice-making process is over, then switch to ice dumping process. During the ice dumping process, the ICE cube symbol changes from rotation to flash. At same time, the arrow on the manual filling water symbol will start to flash, the water will flow into the water tank again till the floating ball of water level switch rises up to the highest position, then the water stop flowing and the whole manual filling water symbol will disappear.

When the ice-harvest finish, the Ice-full detecting plate will rotate downward once, then recover to the original position and enter to the next ice-making process.

If after the rotation of the Ice-full detecting plate, it is pressed by the ice cube and can't recover to the original position, means the the ice bin is full of the ice cube and it will stop making the ice automatically.


4. When the “ICE-FULL ” symbol display is on, the unit stops running. And if you move away the ice cube, the unit will start to make the ice cube again. But it will restart only after 3 minutes interval of compressor running.

5. During the ice-making process, press the “+” or “-” button to adjust the ice-making process duration, so as to change the thickness of the ice cube. Press the “+” or “-” button, the right digit will flash, the default setting is zero. Each press adds or reduces 1 minute of each ice making process. After 5 second of setting, the new setting will be remembered by the system.

6. The bad water quality will cause the bad quality of ice cube, and reduce the transparency of the ice cube.

## Automatic Self-Cleaning Program

**Start the self-cleaning program:** After connecting all of the water pipe, plug on the main power supply plug, then press “TIMER /CLEAN” button on control panel for more than 5 seconds, to enter


the Self-Cleaning program. And the “” symbol will always be on during this period, the left digit will indicate the left time. The total duration time is 20 minutes for one self-cleaning program.


**Cancel the self-cleaning program:** It takes about 20 minutes to complete one self-cleaning program. When the program is over, the system will be in standby mode automatically. And also you can press the “ON/OFF” button on control panel to cancel the self-cleaning program by force.


## Timer Setting Operation

**Delay time range: 1-24 hours, Default time: 1 hour**


**How to set the ON-Timer:** During the unit is in standby mode, press the “TIMER/CLEAN” button to set


the ON-Timer. The “ON ” symbol will start to be on, the number “1” above the symbol will flash to display the set delay time. During the number flashing, press “+”、“-” button to change the delay time of the timer, 1 hour increasing or decreasing per each pressing of “+” or “-” button. Five seconds after setting, your desired setting will be remembered.


**How to cancel the ON-Timer:** Press the “TIMER/TIMER” button, the number above the “ON ” symbol will flash to display the present delay time of your ON-Timer, and press this button once again

to cancel the Timer setting, also the “ON ” symbol and the number will disappear. And the second easy way to cancel the ON-Timer is to press the “ON/OFF” button, it will cancel the ON-TIMER setting by force.

**How to set the OFF-Timer:** When the unit is working, press the “TIMER/CLEAN” button to set the


OFF-Timer. The “ OFF” symbol will start to be on, the number “1” above the symbol will flash to display the setting delay time. During the number flashing, press “+”/“-” button to change the delay time of the timer, 1 hour increasing or decreasing per each pressing of “+” or “-” button. Five seconds after setting, your desired setting will be remembered.


**How to cancel the OFF-Timer:** Press the “TIMER/TIMER” button, the number above the “ OFF” symbol will flash to display the present delay time of your OFF-Timer, and press this button

once again to cancel the Timer setting, also the “ OFF” and the above number will disappear; Also the second easy way to cancel the OFF-Timer is to press the “ON/OFF” button, it will cancel the ON-TIMER setting by force, also will turn off the unit.

## Internal LED light operation

When the unit is plugged on, press the “LIGHT” button on the operation panel once to lighten the

LED light inside the ice bin and the “” symbol on the LCD display window will also be on.

Press this button once again, the LED light and the “” symbol will be off at same time.

NOTE: If you press the “LIGHT” button for more than 5 seconds, the ambient can be changed between Centigrade degree and Fahrenheit degree (between °C and °F)。

## ERROR Code

When the unit is breakdown, the error code will display in the left side of LCD display window.

E1 means the sensor of ambient temperature is malfunction ;

E2 means that ice making program is abnormal, including too big ice-cube, no ice-cube falling down, or not making ice cube, etc.

NOTE: During the ice cube making process, press “ON/OFF” button for more than 5 seconds, the unit will jump into the ice dumping process . After the ice dumping process is completed, the uni will recover to ice making process.

## Water Drainage

**Make sure the water drainage pipe has correctly connected at the unit back first.**

**A.** You can drain the the water in ice storage bin through the white drainage pipe connected on the back drainage port. Make sure not to set the white drainage pipe too high.

**B.** For the water in the water tank,you can pull out the silicone pipe on the right side of the water tank indicating “H” in above illustration to drain out the cleaned water in the water tank, till the silicone pipe extend completely, the water can flow out to ice bin. Then the water can be drained out through the the water drain port at unit back.

**Reminding: Clean the water tank frequently, it can improve the ice-cube quality and the unit and its water circulation pump can work much longer.**

**C.** For the water in water charging tank, pull out the silicone pipe on the right side of the water tank indicating “H” in above illustration, then plug on the unit, let the unit run at ice-making program or self-cleaning program, the water will flow into the water tank, again through the silicone pipe flow into the ice bin, at last can be drained out the unit through the water drain port at unit back.

## Normal Sounds

Your new ice maker may make sounds that are not familiar to you. Most of the new sounds are normal. Hard surfaces like the floor, walls and cabinets can make the sounds seem louder than they actually are. The following describes the kinds of sounds that might be new to you and what may be making them.

- You will hear a swooshing sound when the control valve opens to let water flow into the water tank

for each ice-making cycle.

- Rattling noises may come from the flow of the refrigerant or the water line. Items stored on top of the ice maker can also make noises.
- The high-efficiency compressor may make a pulsating or high-pitched sound.
- Water running from the water tank to the evaporator plate may make a splashing sound.
- Water running from the evaporator to the water tank may make a splashing sound.
- As each cycle ends, you may hear a gurgling sound due to the refrigerant flowing in your ice maker.
- You may hear air being forced over the condenser by the condenser fan. During the harvest cycle, you may hear the sound of ice cubes falling into the ice storage bin.
- When you first start the ice maker, you may hear water running continuously. The ice maker is programmed to run a rinse cycle before it begins to make ice.

### ***Preparing the Ice Maker for Long Storage***

If the ice maker will not be used for a long time, or is to be moved to another place, it will be necessary to drain out all of the water in the system.

1. Allow all of the ice cubes have been ejected from the evaporator of ice maker.
2. Turn off the unit, and unplug the power cord.
3. Drain out all of the water inside the unit according to section “**Water Drainage**”. When all of the water has been drained out, to install back the water drain pipe of the water tank..
4. Disconnect the water drainage pipe to the main drain pipeline or floor drain, plug on the drain cap again.
5. Drop the door open to allow for circulation and prevent from molding and mildewing.
6. Leave the power cord disconnected until ready to reuse.
7. Dry the interior & wipe the outside of the unit.
8. Put a plastic bag on the unit to resist out dust & dirty.

## **CLEANING & MAINTENANCE**

**WARNING:** Before carrying out any cleaning or maintenance operations, unplug the ice maker from the main power supply electricity. (EXCEPTION: Ice maker self-cleaning program).

Do not use any alcohol or fume for cleaning or sanitizing of the ice maker. It may cause cracks on the plastic parts.

Ask a trained service person to check and clean the condenser at least once a year, in order to let the unit work properly.

This appliance must be cleaned by use of a water jet.

## **CAUTION**

If the ice maker has been left unused for a long time, before the next use it must be thoroughly cleaned. Follow carefully any instructions provided for cleaning or use of sanitizing solution. Do not leave any solution inside the ice maker after cleaning.

Periodic cleaning and proper maintenance will ensure efficiency, top performance, hygienic, and long life. The maintenance intervals listed are based on normal conditions. You may want to shorten the intervals if you have pets, or the unit is used outdoors, or there are other special considerations.

### **What shouldn't be done**

Never keep anything in the ice storage bin that is not ice: objects like wine and beer bottles are not only unsanitary, but also it's labels may slip off and obstruct the drain pipe.

### ***Exterior Cleaning***

The door and cabinet may be cleaned with a mild detergent and warm water solution such as 28g of dish washing liquid mixed with 7.5L of warm water. Do not use solvent-based or abrasive cleaners. Use a soft sponge and rinse with clean water. Wipe with a soft clean towel to prevent water spotting.

The side steel plate can discolor when exposed to chlorine gas and should be cleaned. Clean the steel plate with a mild detergent and warm water solution and a damp cloth. Never use abrasive cleaning agents.

### ***Interior Cleaning***

#### ***For Ice Storage Bin***

The ice storage bin should be sanitized occasionally. Clean the bin before the ice maker is used for the first time and reused after stopping for an extended period of time. It is usually convenient to sanitize the bin after the ice making system has been cleaned, and the storage bin is empty.

1. Disconnect power to the unit.
2. Open the door and with a clean cloth, wipe down the interior with a sanitizing solution made of 28g of household bleach or chlorine and 7.5L of hot water (95°F to 114.8°F ).
3. Rinse thoroughly with clear water. The waste water will be drained out through the drain pipe.
4. Reconnect power to the unit.

The ice scoop should be washed regularly. Wash it just like any other food container.

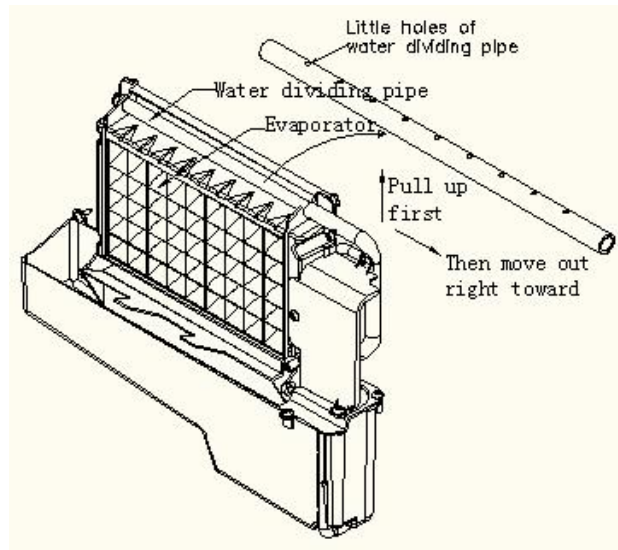


DO NOT use solvent cleaning agents or abrasives on the interior, These cleaners may transmit taste to the ice cubes, or damage or discolor the interior.

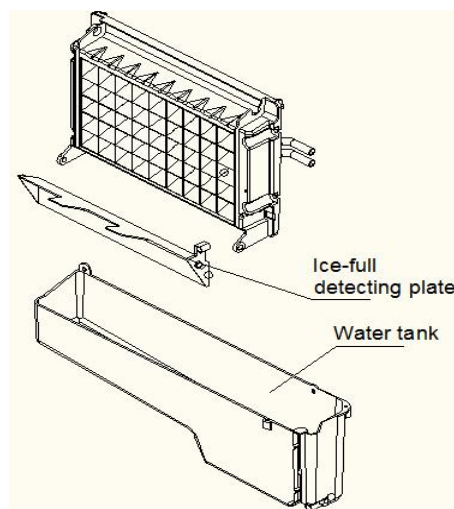
### ***Ice Making Parts Cleaning***

**During the using, periodically to clean these main system of your ice-maker.**

1. Repeat above step to clean the water tank and other inner parts of the unit.
2. Especially, to the water dividing pipe on the evaporator, when the compressor and the water pump run normally, but if there is no water flowing out from the water dividing pipe or the water flowing is very small, please discharge this water dividing pipe to clean carefully. Clean each little holes on the water dividing pipe displayed in the following illustration, make sure each hole is not clogged by something, then install back to the original location.



3. The length of cleaning period is related to your water quality. And drain the water more frequently, the unit and its water pump can work much longer.
4. When there are ice cubes on the surface of the evaporator, but can't fall off easily, do not use the mechanical substance to remove it by force; Only press the "ON/FF" button for more than 5 seconds, the unit will enter the ice melting process, after some while, the big ice-cubes will fall down, then turn off the unit and unplug the power cord to clean the surface of the evaporator.
5. For the water tank and ice-full detecting plate



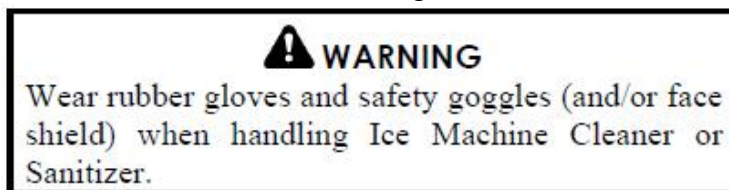
Also the water tank and the ice-full detecting plate is very important to keep your ice cube hygienic. Put mixture of neutral cleaner & water into a clean water jet, then spray to all the inner surface of tank & the ice detecting plate. Wipe these surfaces as far as possible with a clean cloth. And then, spray the surfaces with clean water, wiping with a dry clean cloth. Then drain out the cleaned water in the water tank by pulling out the Water drain pipe of the water tank indicating "H" in above illustration. When all of the cleaned water has been drained out, to install back the water drain pipe of the water tank.

***Suggestion: After cleaning the interior parts and install back to its respective position, and return machine to work, discard first batch of ice.***

### ***Ice Making Assembly System Cleaning by Using Nu-Calgon Nickle Safe Ice-machine Cleaner (Better using automatic water supplying)***

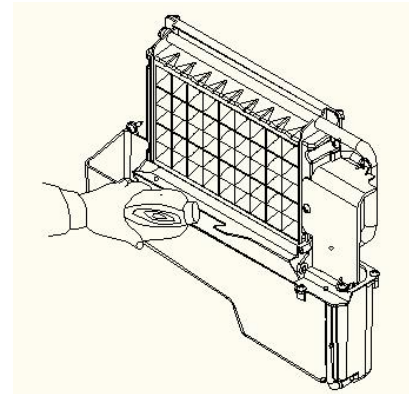
Minerals that are removed from water during the freezing cycle will eventually form a hard scaly deposit in the water system. Cleaning the system regularly helps remove the mineral scale buildup. How often you need to clean the system depends upon how hard your water is. With hard water of 4 to 5 grains/liter, you may need to clean the system as often as every 6 months.

1. Turn off the ice maker. Keep the ice maker connect to the main water supply and drainpipe. But shut off the water faucet of main water supply.
2. Open the door and scoop out all of the ice cubes. Either discard them or save them in an ice chest or cooler.
3. Making the cleaning solution. Please mix the Nu-Calgon Nickle Safe Ice Machine Cleaner with water to make the cleaning solution.




Use a plastic or stainless container with more than 4 liters capacity, mix 300 ml Nu-Calgon Nickle Safe Ice-machine Cleaner with 2.8 liters warm water about 50-60 °C, Then divide them for 2 shares equally in 2 cups. It is better to keep the temperature of each cup of the cleaning solution.

4. Check to be sure that the water drain pipe of the water tank has been installed properly in the slot of the tank wall. Then Pour one cup of Nickel-Safe Ice Maker Cleaning Solution into the water tank. Wait about for 5 minutes.



5. Turn on the power to the ice maker, then press "TIMER/ CLEAN" button on control panel for more than 5 seconds, to enter the self-Cleaning program. Same as above explanation, the water pump runs for 8 minutes and stops for 3 minutes, one cycle, again one cycle. The total duration time is 20 minutes for one self-cleaning program.

During this process, the "  "symbol will always be on during this period, and the digit window will indicate the left time,

6. After 20 minutes of one self-cleaning program completing, pull out the drain pipe of the water tank, drain the cleaning solution down to the lower ice storage bin. Shake



the unit slightly to drain out all of the cleaning solution completely. Then install back the drain pipe to the slot of the water tank.


7. Repeat steps 4--6 to clean the ice making assembly system again.

## **WARNING**

The ice machine cleaner contains acids.

DO NOT use or mix with any other solvent-based cleaner products.

Use rubber gloves to protect hands. Carefully read the material safety instructions on the container of the ice machine cleaner.

8. Then open the water faucet of the main water supply, Let the water flow in the unit. And press the "TIMER/CLEAN" button on control panel for more than 5 seconds, to enter the self-Cleaning program. Same as above explanation, the water pump runs for 8 minutes and stops for 3 minutes, one cycle, again one cycle. The total duration time is 20 minutes for one self-cleaning program. During this process, the "  " symbol will always be on during this period, and the digit window will indicate the left time. Through this process, It will rinse the water dividing pipe, evaporator, water pump, silicone pipe, and water tank, etc..
9. After one self-cleaning program complete, then pull out the drain pipe of the water tank, drain the cleaning solution down to the lower ice storage bin, also shake the unit slightly to drain out all of the water completely. Then install back the drain pipe to the water tank slot tightly.
10. Repeat the step 8-9 again for 2 times.
11. Following the above program to clean the ice storage bin .
12. Then this special cleaning program finish, you can return to the regular ice making mode. And suggest to discard the first batch of ice cube.

## ***Cleaning Suggestion***

### **1) DAILY CLEANING**

The ice shovel, door and the water dividing pipe should be cleaned by yourself per each day. At the end of every day, rinse the ice shovel and wipe the both sides of the door with a clean cloth.

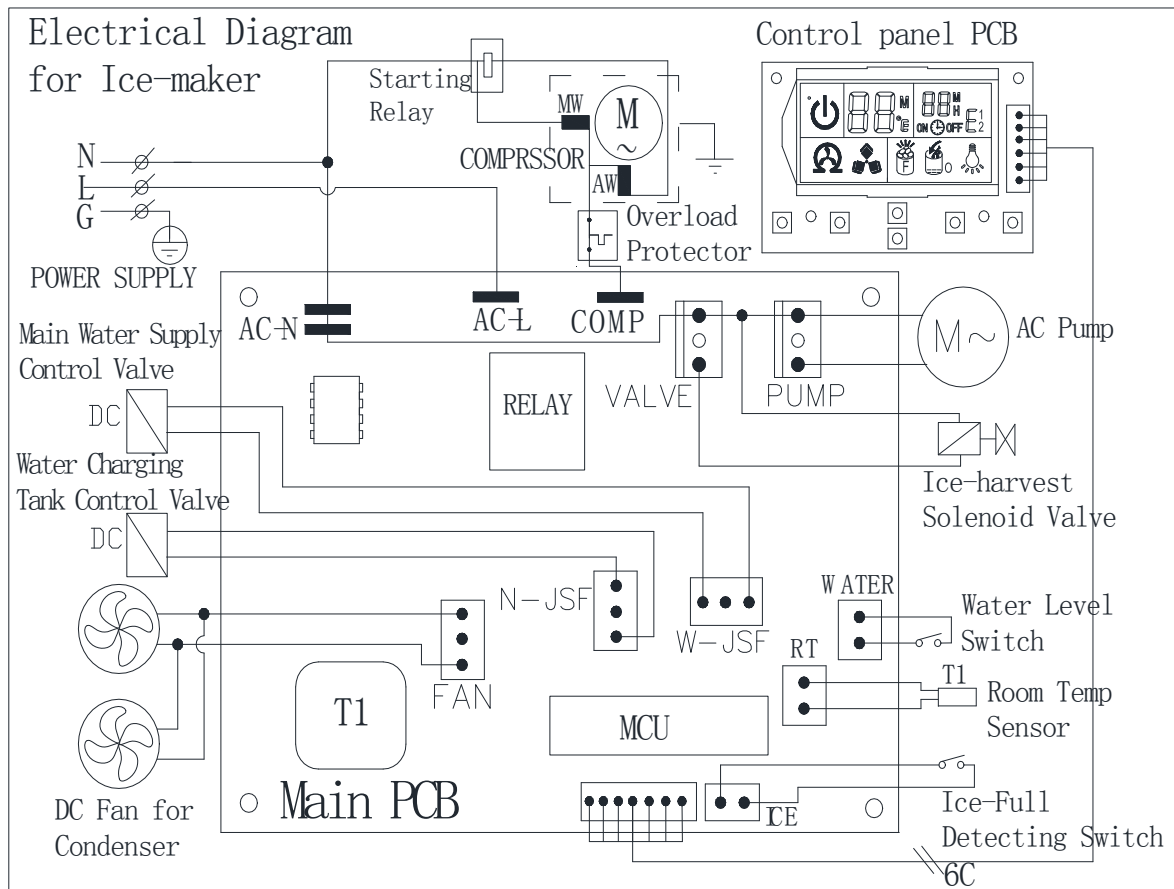
### **2) SEMI-MONTHLY CLEANING**

The ice shovel, ice bin, water tank, the ice-full detecting plate and the surface of the evaporator are to be cleaned by yourself semi-monthly according to interior cleaning program.



### **3) SEMI-ANNUAL CLEANING**

All the components & surfaces exposed to water or ice cubes, like ice storage bin, water tank, door, evaporator, water pump, silicone tube, water dividing pipe, etc. should be cleaned **by Using Nu-Calgon Nickle Safe Ice-machine Cleaner** per each 6 months. They should be cleaned by the serviceman according to ice making assembly system cleaning program.

# WIRING DIAGRAM



## NORMAL TROUBLE SHOOTING

Problem	Possible Cause	Solution
<b>The whole  symbol is always on.</b>	No water in unit	<p>When automatic water supplying way, maybe the main water pressure is too low or the water supplying hose is blocked. Check them and increasing the water pressure and clean the supplying hose.</p> <p>When using manual water supplying way, maybe there is no water in water charging tank, fill the water into the water charging tank to MAX water level.</p>
	Floating ball of the water level detecting switch is blocked, can't be raised up	Clean the water tank and the water level detecting switch.
	Water flows out from the side of the water tank	Place the unit on the level position, not on the slope.
	Water flows out from the water drain pipe of the water tank.	Pull out the pipe and install back to the right side slot of the water tank properly.
<b>The unit enter the ice making process, but no water flowing in the unit, and the whole  symbol is on.</b>	No water in water charging tank, or the water supplying problem, or the silicone pipe of water tank isn't on the correct position.	<p>When automatic water supplying way, maybe the main water pressure is too low or the water supplying hose is blocked. Check them and increasing the water pressure and clean the supplying hose.</p> <p>When using manual water supplying way, maybe there is no water in water charging tank, fill the water into the water charging tank to MAX water level.</p> <p>The silicone pipe of water tank should be clamped in the slot of the water tank side.</p>
<b>Water pump work, but no water flow out from the water dividing pipe</b>	The little holes on the water dividing pipe is blocked.	Clean these little holes.
<b>Water circulation pump doesn't work</b>	Some special substance in water tank block the pump blade.	Clean the water tank and the water pump
<b>The transparency of the ice cube is not very good</b>	Water quality is bad	Use the water filter or water purifier to soften or filter the water.
<b>Ice cube shape is irregular</b>	Water quality is not good or the water tank is very dirty	Clean the water tank, and change with new water.。
	The little holes on the water dividing pipe is some blocked	Clean the water dividing pipe, make sure all nine holes are unclogged

<b>Ice cube is very thin</b>	Ambient temperature is too high	Move the unit to low temperature space, or lengthen the time of each ice making cycle.
	Air circulation around the unit is not good	Make sure there is more than 8 inches space between the unit back & front and the obstacle
<b>Ice cube is too thick</b>	Ambient temperature is too low	Reduce the time of each ice making cycle.
<b>“ICE-FULL” symbol is on</b>	The ice storage bin is full of the ice cube.	Take out some ice cube
<b>Ice making cycle is normal, but there is no ice cube produced</b>	The temperature of ambient, or water in water tank is too high	Move to the place with temperature lower than 89.6°F, and change to the low temperature water
	Refrigerant leakage, E2 error code display	Contact the seller for support
	Cooling system tube is clogged	Contact the seller for support