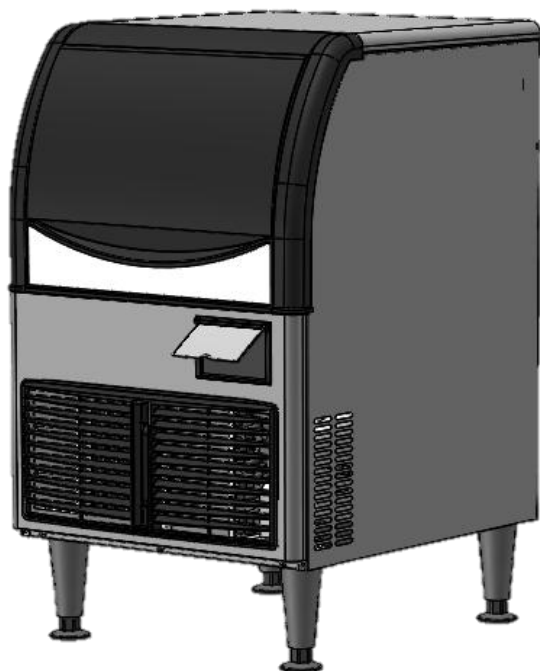


DB Series Ice Maker

Installation & Maintenance Manual

The manual covers the following models
DB175A, DB215A, DB255A



DBice APP QR Code



Android



IOS

Concent

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Safety TipsConcent

When operates and maintains an ice maker ,be sure to pay attention to the safety tips in the manual.

Ignoring these tips may result in personal injury and ice maker damage.

In this manual, you will see the following forms of security tips :

WARNING

Potential personal injury. Personal injury may be caused if the machine is not installed, used or modified without permission according to this manual.

IMPORTANT

It is very important to install, use and maintain the ice machine correctly to keep the output of ice machine and reduce the failure rate. Please read and understand this manual, which contains valuable installation, use and maintenance information. If you encounter problems not covered in this manual, you can contact our company or our repairer at any time.

NOTICE

The adjustment, maintenance and cleaning in this manual are not covered by the warranty.

Please keep this manual well

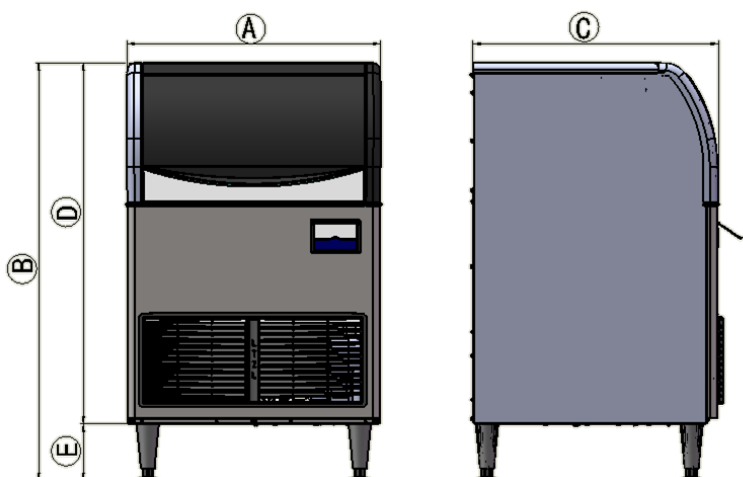
The manual is an integral part of the product, please keep it properly. Be sure to read carefully the warnings, notices and important matters described in this manual, because these warnings, notices and important matters provide the installer/user with important information needed for proper installation, continuous and safe use and maintenance of the product. Please keep this manual for reference when necessary.

1. Features

- DB series ice maker are with several patent control system, it could be simply operated, suitable for different water quality conditions;
- The key components are from international renowned brands, which ensures reliability in harsh environments;
- Parts which contacted with water using food-grade plastic and stainless steel for outer shell, which ensures food safety and excellent rust resistance.

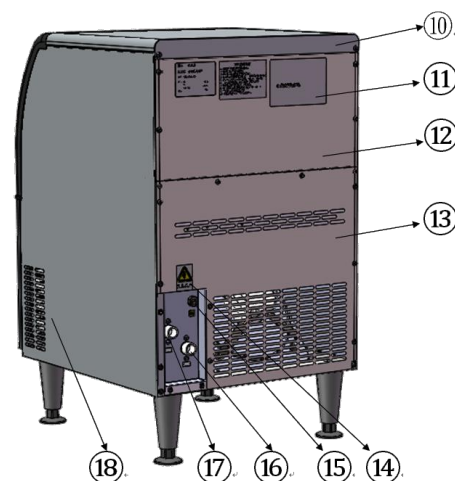
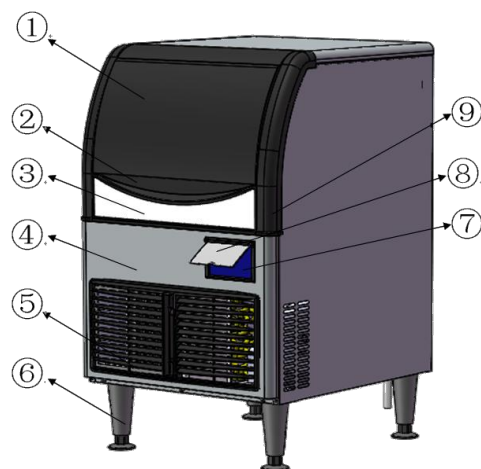
2. Size and Appearance

- Size (Unit : cm)



	A	B	C	D	E(max)
DB95A	53	90	61	75	15
DB125A	53	90	61	75	15
DB175A	68	112	66	97	15
DB215A	68	112	66	97	15
DB255A	68	112	66	97	15

● Appearance



- | | | | |
|---|-------------------|----|-------------------|
| 1 | Door | 10 | Top cover |
| 2 | Middle door frame | 11 | Product label |
| 3 | Decorative board | 12 | Rear upper panel |
| 4 | Front panel | 13 | Rear lower panel |
| 5 | Air filter | 14 | Warning label |
| 6 | Machine foot | 15 | Power cord |
| 7 | Touch screen | 16 | Water inlet valve |
| 8 | Screen cover | 17 | Drain connection |
| 9 | Right panel | 18 | Right panel |

Critical Parameter

3. Critical Parameter

	Power (V)	Frequency (HZ)	Current (A)	Power (W)	Refrigerant (oz)	Storage (lbs)	Power consumption (**)	Water consumption (***)
DB175A	110	60	4.8	384	R290/4.06	120	5.7	45
DB215A	110	60	6.2	505	R290/4.23	120	5.2	45
DB255A	110	60	7.4	566	R290/4.76	120	4.5	45

The test environment , the ambient temperature is 21 °C , the water temperature is 10 °C.
 **Unit : kw·h/100p (45kg) 。
 ***Unit : l/100p (45kg)

4. Unpack

- Before unpacking, check the anti-tilt sign is in good condition, the outer packing of the machine is in

good condition, and the machine model is consistent with what you have purchased.

- Take out accessories and documents, check for its consistency with packing list.
- If there is any discrepancy or damage, please contact our company/distributor directly

5. Installation Location

- The ice maker is not suitable for outdoor usage, the installation location should not be closed to heat source or be exposed under direct sunlight.
- The normal working ambient temperature should be ranged between 10°C ~ 38°C, the water temperature should be between 5°C ~ 32°C. If the ice-making machine operates beyond the above normal temperature range for a long time, its ice-making capacity may be affected.
- Ice makers should be installed on solid, flat ground.
- Ice makers should be placed near drinkable water supply. It is recommended that distance between ice makers be less than one meter.
- Do not block the ventilation window of the ice maker. There should be enough air convection space around the ice maker.
- The ice maker can not work at sub-zero temperatures, to prevent supply line failures, empty the ice maker when the temperature is below zero(see "Ice machine stop / winter")

6. Leveling Adjustment

Note

Do not put hard object under legs for leveling ice maker. Make sure the four legs touching the ground steadily to prevent vibration during operation.

- Screwing home four adjustable parts of the legs first, and then screwing the legs into ice maker bottom plate ;
- Moving ice maker to installation place. Adjusting legs to ensure the ice maker is leveling.

7. Water supply/Purge

7.1 Water supply

Warning

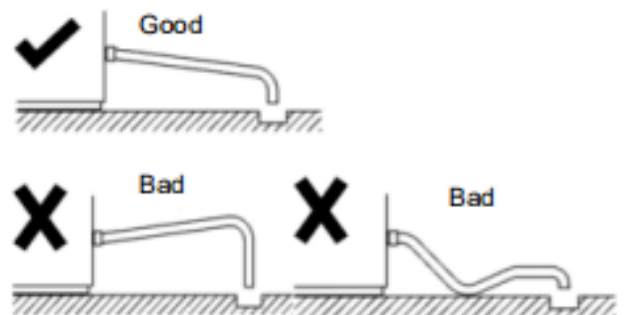
Ice makers must be connected to potable water supply.

- With local potable water quality, determining if a water treatment system is needed to prevent sediment formation, filtering out impurities and removing bleach smell .
- Please install water supply pipe according to below instruction :
 - Don't connect ice maker to hot water pipe ;
 - Water supply pressure range is 1bar ~ 5bar. Using water pressure regulator for water supply pressure over rang.
 - Individual water faucet must be installed for ice maker.

7.2 Purge

- When installing drain hose, follow these guidelines to be sure all purged water flowing into gully drain :

- The main gully drain capacity shall be enough for all drain water:
 - The drain hose of the water-cool condenser and the drain hose of ice bin should be placed separately
 - About 2.5 centimeters drop needed for each one meter additional drain hose and must not be bent



8. Power supply

Warning

The power supply must be reliably grounded and the wiring used must comply with the laws and regulations of the country and region where the ice maker is used.

- The voltage, frequency and capacity of the power supply shall be consistent with the nameplate of the machine.
- $\pm 10\%$ fluctuation of rated power voltage is allowed.
- Individual circuit breakers must be installed for the ice maker.

Operation

9. Clean after Installation

- After the ice maker is installed, clean the shell, liner and ice scoop with a clean wet cloth or sponge;

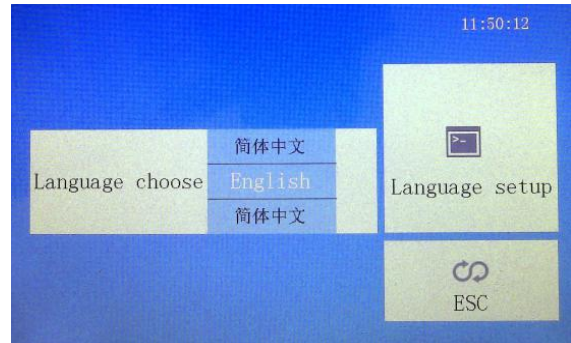
10. Check after installation

- After the ice maker is installed, check against the following information before operation.
- Is ice maker placed levelly ?
- Have you removed all the transportation seals ?
- Are all the water and electricity connected well ?
- Is the supply voltage consistent with the rated voltage on the nameplate?
- Is the ice maker properly grounded?
- Are there adequate air Spaces around the ice maker?
- Is the ambient temperature of the ice maker between 10°C and 38°C?
- Does the water inlet temperature remain between 5°C and 32°C?
- Are the ice maker and refrigerator cleaned?

11. Operation

11.1 Customer operation

11.1.1 Language option



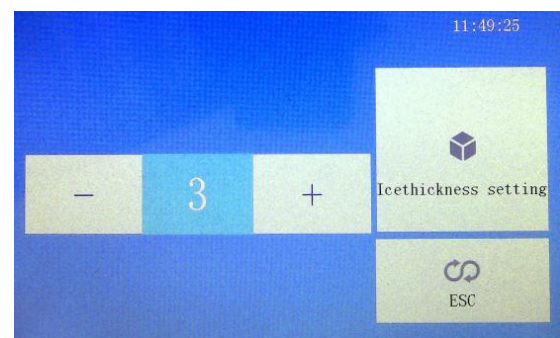
- Press SETUP->LANGUAGE , Enter the language setting interface, slide up and down to select the required language

11.1.2 MAKING ICE/STOP



- Press MAKING ICE icon, start ice machine, press the icon again, stop and enter stand-by mode.

11.1.3 Ice thickness adjust :

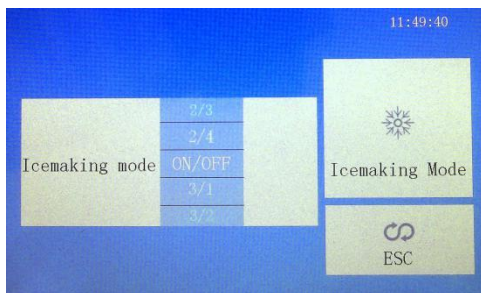


- Press SETUP-> USER SETUP -> ICE THICKNESS ADJUST icon to enter the ice thickness setting interface; press + or - to increase or decrease the ice thickness(+or-represents the

minutes of increase or decrease in ice making time)

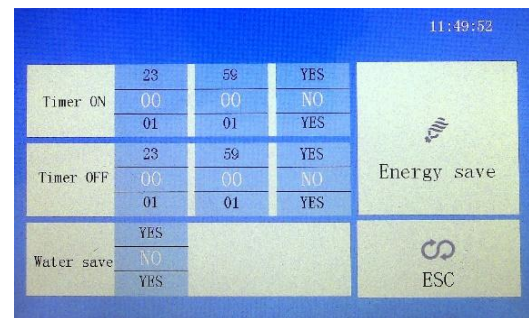
11.1.4 Energy saving setting :

11.1.4.1 Ice making mode : It is applicable to winter or off-season, when less ice needed) press SETUP -> USER SETUP -> ICE MAKING MODE icon to enter the interface; slide up and down to select the ice making mode



- **2 / 3** : ice maker working 2 hours and then stop 3 hours, the ice making capacity is 40% of the original;
- **2/4**: ice maker working 2 hours and then stop 4 hours, the ice making capacity is 30% of the original;
- **ON/OFF**, Ice maker keep working till ice full of ice bin, ice production 100%;
- **3/1**: ice maker working 3 hours and then stop 1 hours, the ice making capacity is 75% of the original;
- **3/2**: ice maker working 3 hours and then stop 2 hours, the ice making capacity is 60% of the original;

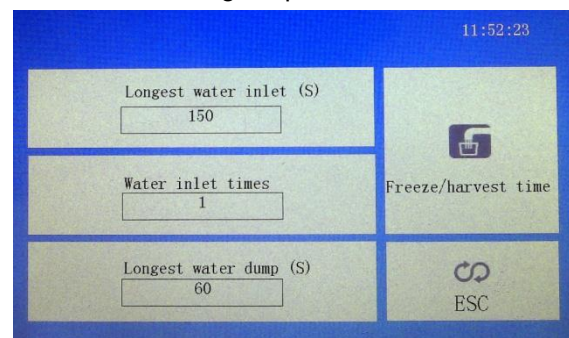
11.1.4.2 Energy saving mode setting : (Turn on and off the ice maker by timer, use the low price of electricity to make ice, and reduce the use cost. Or close drain function to save portable water and increasing ice production) Press SETUP->USER SETUP->ENERGY SAVE icon,



- **TIMER ON**, XX h XX m later, the ice maker starts to make ice;
- **TIMER OFF**, XX h XX m, the ice maker stop making ice;
- **Water save**, YES: water purge in each ice making cycle; No: no purge. (No purge setting can save water and increase ice production where with good water quality.)

11.1.4.3 Reduce the water draining time

(According to the water quality, reduce the draining time by 0 ~ 15 seconds). This can reduce ice making time, and increasing ice production.

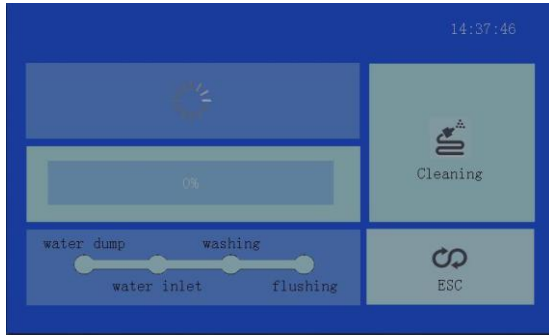


This function is key word protected, shall be operated by Professional maintenance person.

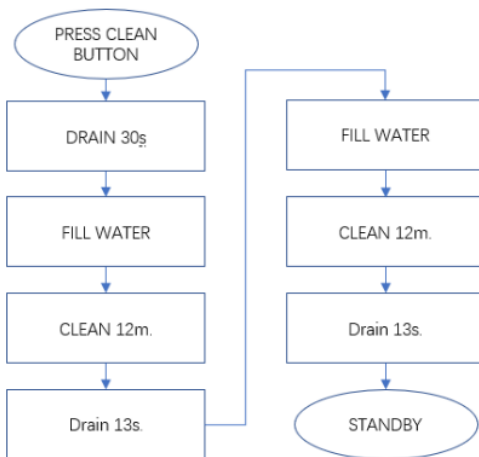
- Press SETUO -> ADVANCE SETTING ->input password -> , to enter into the Freeze/harvest interface.
- **Longest water dump**: According to the water quality, choose the suitable draining time (0 ~ 15 seconds).

Operation

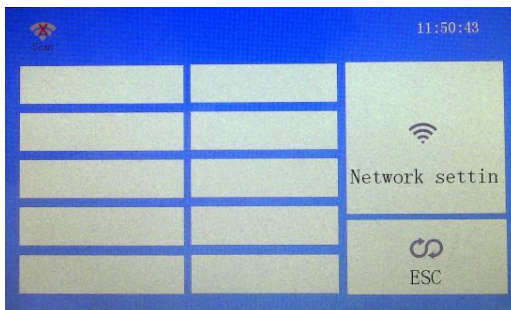
11.1.5 Clean



- Press CLEAN icon in main interface to start clean process .
- Press ESC icon in to stop clean process .
-
- Clean pocess flow :

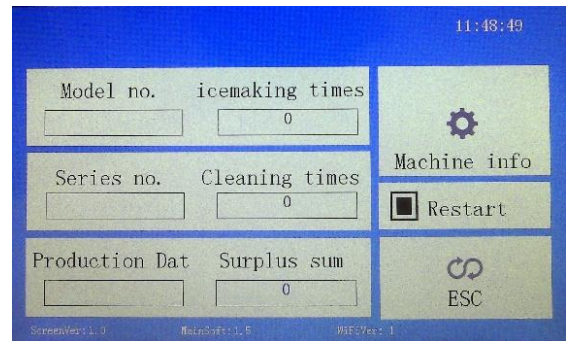


11.1.6 Network Setup



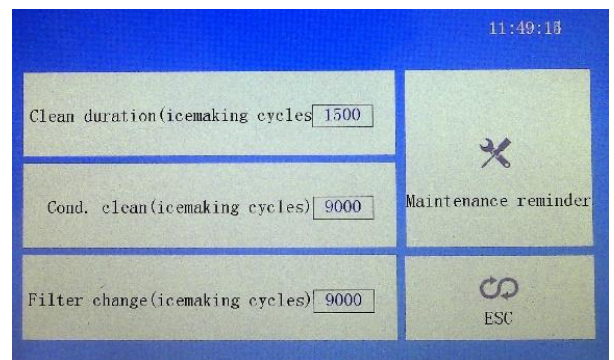
- Press SETUP -> NETWORK SETTINGS
- Choose WiFi and enter password.

11.1.7 Check the Equipment Information



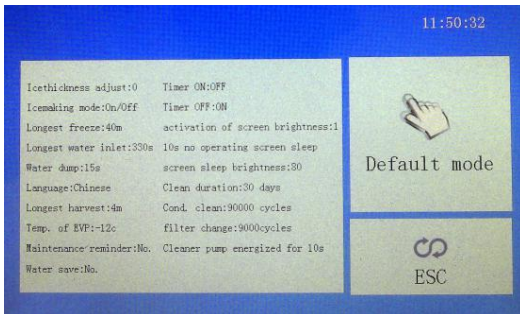
- Press SETUP ->MACHINE INFO enter the interface.
- RESTART option:
 - Select: When power supply is restored after power failure, the ice maker automatically starts to make ice.
 - No select: When power supply is restored after power off. The ice maker will stand by. Customers need to press ICE MAKING icon to start making ice.

11.1.8 Maintenance reminder setting



- Press SETUP -> USER SETUP -> MAINTENANCE INFO to the Maintenance reminder page
- When the machine works exceed the settled working time, the machine will remind for maintenance.

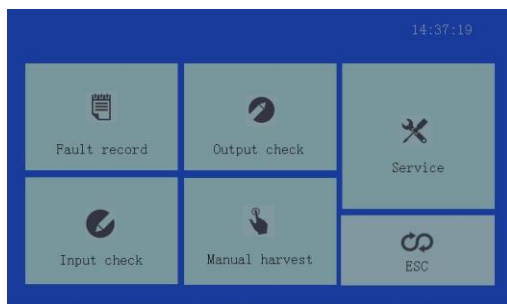
11.1.9 Restore Factory Settings (Default mode, suitable for any condition)



- Press SETUP -> DEFAULT MODE.
- Press the hand shape icon to restore factory settings

11.2 Service (When need repair or maintenance, this function is for repair/maintenance person)

When the ice machine can not work properly, press SETUP -> SERVICE icon to enter the service page.



11.2.1 Fault Record

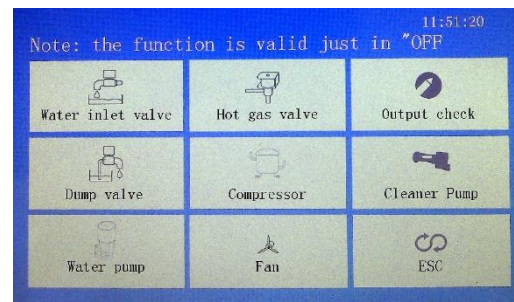


- Fault record can provide information like fault time and code, it can help the maintenance person to accurately determine the fault point.
- Error Code:

- E1 : Ice making time more than 40 minutes
- E2 : Ice defrost time more than 4 minutes
- E3 : Water Shortage Protect
- E4 : Ice Making System Error
- E5 : Ice defrost System Error
- E6 : High Pressure Protect
- E7 : High Temperature Protect
- E8 : N/A
- E9 : N/A
- E10 : T2 Condenser T sensor Short Out
- E11 : T2 Condenser T sensor Disconnection
- E12 : Magnet Switch Error
- E13 : Defrost Probe Error

11.2.2 Electric components Function Check

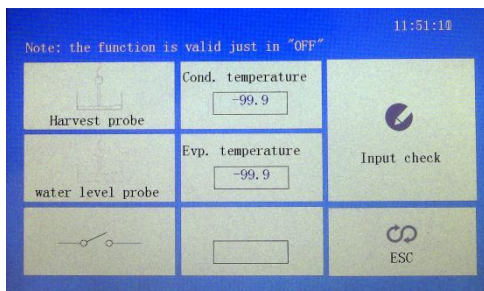
(This can turn on or off main electric components to help the serviceman to check the elements function)



- Press SETUP -> SERVICE -> OUTPUT CHECK .
- Click the corresponding icon to start the corresponding electrical work; judge whether the component works through vision, hearing and touch to determine whether the electrical component is damaged.

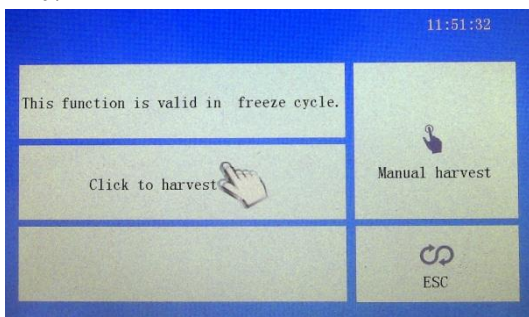
Operation

11.2.3. Sensor Function Check

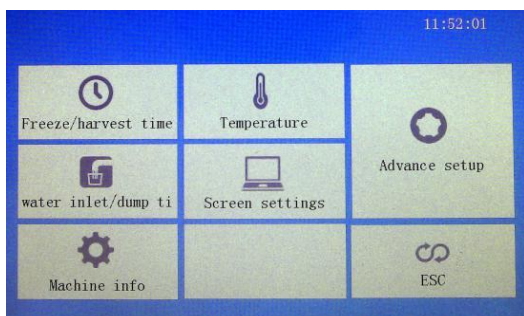


- Press SETUP -> SERVICE -> INPUT CHECK
 - Harvest Probe and water level probe:
 - The icon reflects the actual state of the water level probe and water level.
 - Door Magnetic Switch: Turn on or off the water baffle, the display shows the magnetic switch on or off, if not, the switch maybe problem

11.2.4 Manually harvest ice (When the ice is too thick or defrost function problem, it request harvest ice manually):

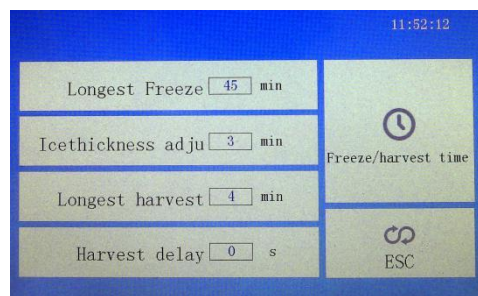


11.3 Advanced Setup (This process is protected by password, only authorized person can use this function.)



- Press SETUP -> ADVANCE SETUP to this page.

11.3.1 Freeze/harvest time set

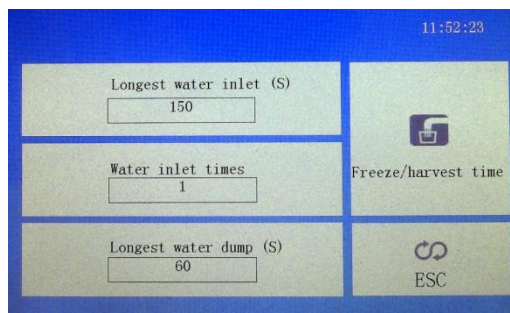


- Longest Freeze: This parameter specifies the maximum ice making time. When the ice making time is greater than this value, the ice maker forces de icing. If the time-out is 3 times in succession, the ice maker will stop working and give a fault alarm
- Longest harvest: This parameter specifies the maximum deicing time. When the deicing time is greater than this value, the ice maker will automatically enter the ice making procedure; if the time-out is 3 times insuccession, the ice maker will stop working and give a fault alarm.
- Icethickness adju: (Range 3 ~ -3) This is for adjust the ice thickness, the range is -3 to 3, original is 0.

Ice can only adjusted to be thinner when it's 3 (rduce ice making time from 0 to 6 minutes) and only thicker when it is -3 (increaseing ice making time from 0 to 6 minutes)

Harvest delay: N/A

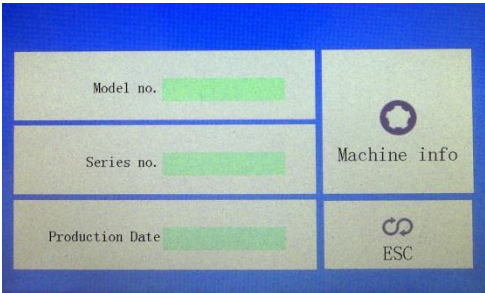
11.3.2 Water Inlet/dump Time Set



Do not change this page, it is determined by lab test!

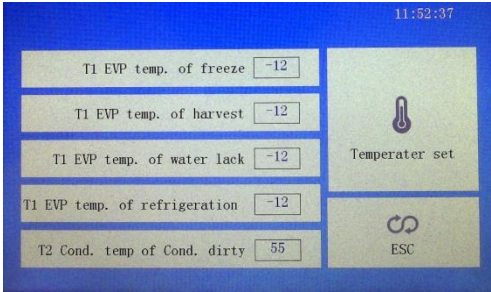
Operation Inspection

11.3.3 Equipment Information Input



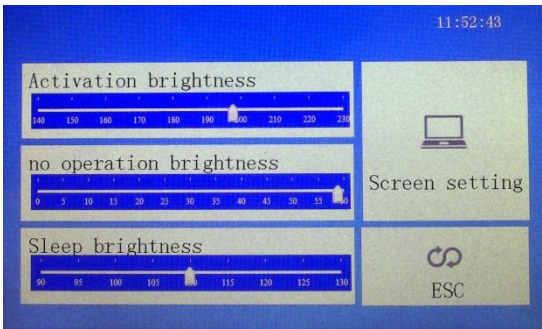
This function is only for manufacturer.

11.3.4 Temperature Setup



- T2 Comd. temp of Cond. dirty. When the temperature of the condenser exceeds the set value, the ice machine will issue a condenser cleaning prompt.
- Other parameters do not apply to this version.

11.3.5 Screen setting



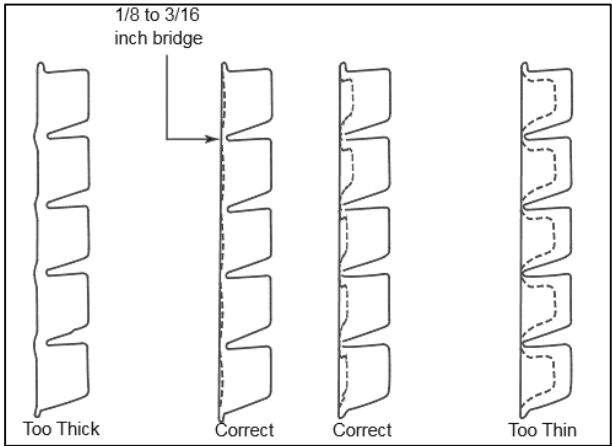
- Slide the slider to adjust the screen brightness and sleep time.

12 Operation Inspection

Notice

- The ice maker has been tested and inspected in factory before delivery. Generally, the new installed machine does not need any debugging. In order to ensure the normal operation of the ice maker, the operation inspection shall be carried out under the following conditions:
 - Initial start up
 - Restart after a long shutdown
 - After cleaning and sanitation

- Make sure the water faucet is open.
- Power Supply is ready.
- Check all water pipes and joints to ensure no leakage.
- Ice bridge thickness check. Normally the ice bridge should be about 3~4mm. If you need to adjust it, press + button to increase the ice thickness or press - button to decrease the ice thickness. (refer to item 11.1.3)



Regular Cleaning

13 Regular Cleaning

Important

Condenser dirty will block air flow, cause the ice maker operating temperature too high, reduce ice production, shorten the service life of parts.

- Clean environment: clean the area around the ice maker regularly to keep the environment clean to support ice maker running efficiently
- Shell cleaning: Use sponge or soft cloth with neutral cleaning agent to clean, and wipe it up with a clean soft cloth. Stainless steel cleaner can be used when necessary.
- Air filter clean: filter can arrest dirt or dust in the air enter condenser. It can postpone condenser from blocking. If the filter is blocked, the ice production will decrease. We recommended to clean the air filter once or twice a month.
 - Remove the air filter;
 - Please clean the air filter with a vacuum cleaner or a soft brush. If the air filter is severely clogged, clean it with warm water and a neutral cleaner;
 - Put it back after the filter is completely dry.

14 Condenser cleaning

Warning

To clean the condenser, disconnect the ice maker power supply, The edge of the condenser is sharp.

- It is recommended to clean the condenser every six months by following steps
 - Use a soft brush or vacuum cleaner to clean the outside of the condenser, the act direction

should be from top to bottom (it will break condenser fins act from one side to another)

- Use commercial coil (air conditioning) cleaner. Follow the instructions and precautions for coil cleaning agent when using. The damaged fins should be straightened with a fin comb.

15 Cleaning& Sanitation

Warning

Wearing protection appliances such as rubber gloves, masks and protective glasses before cleaning and sanitizing

Note

- Do not mix disinfectant with cleaning agent.
- Do not clean evaporator surfaces with sharp objects.
- It is recommended to implement this process at least once in 3 months.

To be sure the ice maker can run stably and efficiently, the user is responsible for the operation according to the requirements of cleaning and disinfection (cleaning and disinfection operation is not covered by the warranty).If the ice maker needs clean and disinfect in short of period, please check if the water supply is appropriate, if the environment is clean, or if an inappropriate water filter is used.

Cleaning and Disinfection

15.1 Cleaning process

- Open door and check if any ice formed on evaporator. If ice formed on evaporator, please press button "Manual ice collection" to start deicing process. Waiting till ice melt or fall off from evaporator. Press ON/OFF button for more than 3s to stop ice make working.
- Use ice scoop to take all ice cube from ice bin.
- Press the CLEAN button, the ice maker will first drain 30s, then open the water inlet valve and fill it with water. After 60s, add 2 packs of cleaning agent (KAY DELIMER, 56.7g/ pack) to the ice maker sink, wait for the end of the cleaning program (refer to 11.3 for automatic cleaning), Turn off power switch of the ice maker unplug the from outlet.
- 4.Remove water tank, water pipe and water baffle, and take out ice scoop (refer to parts removal/installation process 16.4).
- Put 4 packages of cleaning agent (KAY DELIMER, 56.7g/ package) into 8 liter warm water (45 ~ 50°C)
- Soak the parts in the mixed solution for more than 5 minutes (it is recommended to soak for more than 10 minutes in case of heavy scale). After soaking, wear rubber gloves and carefully clean all parts with a soft nylon brush, sponge or soft cloth.
- At the same time, dipping soft nylon brush or soft cloth into mixed solution , cleaning other parts where will contact water or ice like ice bin, door, evaporator, (to the position where not easy to touch, small plastic or wooden rod wrapped with wet soft cloth is helpful).
- Take out the soaked parts and rinse with clean water.

15.2 Disinfection process

- Put 2 packets of disinfectant (KAY5, 28.4g/packet) into 8 liter warm water (45 ~ 50°C).
- Soak the cleaned parts in the prepared disinfectant solution.
- Concurrently, put the solution into watering can, and spray the solution evenly and completely on the surfaces of the parts where contact with water or ice cubes, such as the inside surface of ice bin, door and evaporator.
- After 20 minutes, take out the soaked parts and rinse them with water.
- Install the removed parts back to the original place (refer to parts removal/installation process 16.4).
- Mix 1 liter water and 1/2 package of disinfectant (KAY5, 28.4/ packet) as disinfectant solution.
- Plug in ice maker, close the door of ice maker, turn on the switch and then press the CLEAN button, ice maker will drain for 30s in advance then water inlet valve opens to let water into water tank. After 60s, add the prepared disinfectant solution into water tank of ice maker, wait for the end of the cleaning process (see 11.3 for automatic cleaning), then turn off power switch, and then unplug the ice maker.

15.3 Rinsing process

- Wipe the inside and outside surfaces of ice maker with a clean wet cloth/sponge to clean residue of disinfectant.
- Rinse the ice bin surface, evaporator and water tank with clean water
- Drain all the water after washing.
- Press ON/OFF more than 3s to start the ice maker.

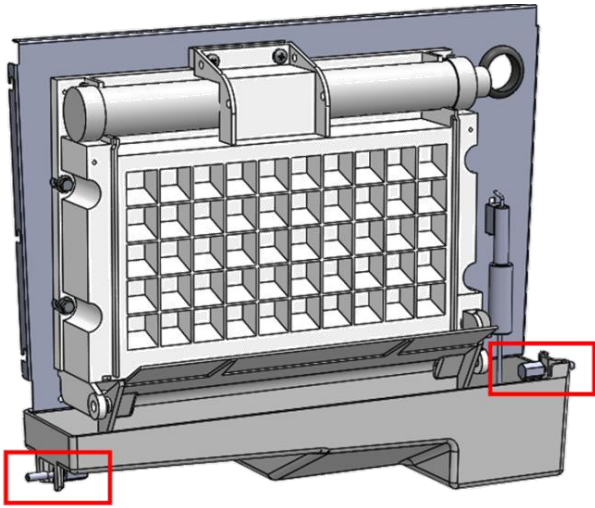
Cleaning and Disinfection

- Discard the first three plates of ice to ensure that the disinfectant is completely discharged from the system.
- Turn off the power and put the ice maker back in place to complete the cleaning and disinfection process.

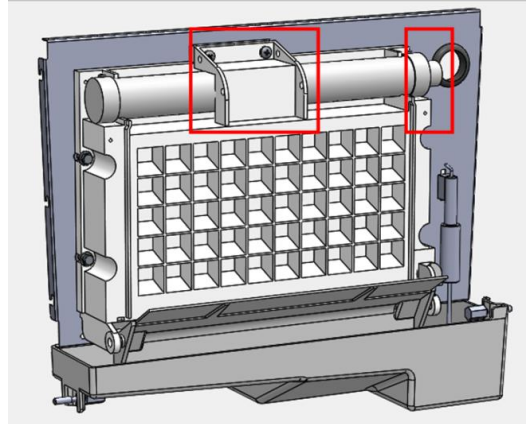
15.4 Parts removal/installation

- **Remove and install the sink**

Screw off the left and right hand screw.(as shown).
Pull the tank forward about 20mm. Move the tank downward about 100mm. Take out the tank.

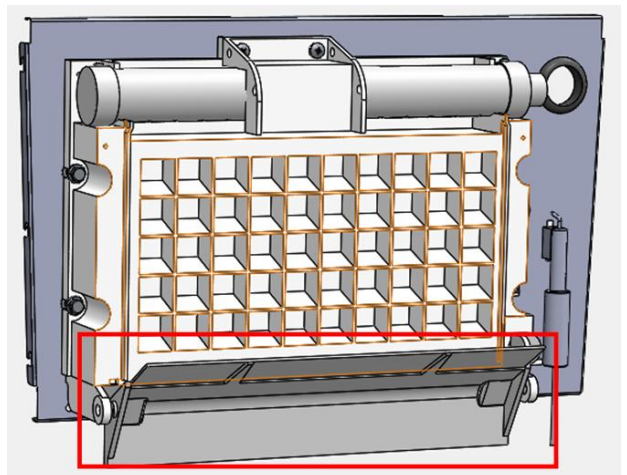


- **Disassembly and assembly of water distributor:**
 - a . Remove the "water distributor fixing bracket" and clamp (as shown in the picture)
 - b . Remove two screws, take away the plastic covers, and then take out the inside plastic tube (as shown in the picture)



- **Disassemble and install the baffle :**

Hold the middle of the baffle and lever it on the point shown in picture ? with a flat screwdriver till one side of the baffle comes out of the pin hole.



16 Out of use / Winterization

NOTICE

Under the environment of less than 0 ° C, if water is left in the machine, it may cause serious damage to machine parts, and the fault caused by this reason is not covered by the warranty.

Special protection measures are required if the ice maker is out of service for a long period of time or exposed to an environment of 0°C or less. Follow these steps below:

- Disconnect the power to the ice maker.
- Disconnect the water supply to the ice maker.
- Empty the sink.
- Remove water inlet hose and drain it from the water inlet.
- Ensure that there is no water residue in the inlet, drain and distribution pipes.

17. Maintenance

Before applying for repair, please consider the following aspects in order to quickly identify and improve the efficiency of machine recovery.

- Whether the water supply is normally, including faucets open, inlet valve not blocked, and water pressure is in 1bar~5bar.
- Whether the power supply is normal, including voltage is in $\pm 10\%$ of rated voltage, power switch is connected, the fuse is not burnt out and whether the plug is fixed well.
- Whether the ambient temperature is too high or too low (the operating temperature range of the ice maker is 10°C ~ 38°C), whether the water temperature is too high or too low (the water temperature range is 5°C ~ 32°C).
- Whether the ice bin is full of ice and can work after ice take away.

Write down the number of the machine and call the toll-free phone number labeled with the service label or your service provider

18. DBice APP download and instructions

APP size: 23MB

QR Code



Android



IOS

- APP download & installation
 - Scan QR Code, download DBice app, complete the APP installation with system prompt.
- Registration (for new user)
 - Run DBice App,
 - Click “Registration”
 - Input name and password
 - Click “ Submit ”button
- Log in (for registered user)
 - Input user name
 - Input Password
 - Click “LOG IN”
- Binding ice maker
 - Click “Add equipment”
 - Scan or input equipment series number SN
 - Click “BIND”
- Remote control equipment
 - Select your equipment SN
 - Click “Control panel”
 - Click related button
- Unbind equipment

- Select your equipment SN
- Click “Unbind equipment”
- Confirm then click “YES” or “NO”
- Operation manual for equipment
 - Click “Manual” button.
- Equipment parameters (for service purpose)
 - Click “Equipment parameters”
 - Send/Show the parameters to service
- Trouble shooting
 - Click “Problem and solution”
 - Click error code (E1~E13)
 - Find related “possible reason” & “solution”
- Service (If can not solve problem by yourself)
 - Click “service” button
 - Send email for service
- Messages

In this page,
You can receive service reminder sending by your equipment (like clean air filter, change water filter).
You can receive equipment failure alarm sending by your equipment.
You can receive information form service agency.
- Sign out
 - Double click “Sign out” button
- Change password
- Language selection
 - Language: Chinese, English
- Check for updates