ICE MAKER INSTRUCTION MANUAL



Read Carefully Before Use Keep for Future Reference

Safety Information

! Warning!

- Read these instructions completely before use. Use this device only in accordance with these instructions and for its intended purpose, personal and commercial ice production. Failure to do so may cause electric shock, fires, extensive property damage, or severe personal injury. Provide them to any maintenance technician and provide them with this device if it is ever given or sold to any third party.
- **ONLY** use in accordance with all applicable local and national laws and regulations, particularly those concerning water purity and commercial ice provision.
- **DO NOT** let children or person with compromised physical or mental capabilities operate this device without close supervision. Do not allow people unfamiliar with this product or these instructions to install, modify, or maintain this device.
- **ONLY** use with stable, compatible, and grounded outlets. It is recommended not to allow any other item on the same outlet or fuse, as this device may require its full current. Only use with grounded extension cords of sufficient gauge to handle the expected load. Never use with a 3-to-2 prong adapter and don't leave electrical connections where they might become wet.
- **ONLY** use safe potable water to supply this device. The filter only softens the water and keeps out particles and debris. It does not purify otherwise unsafe water.
- **ONLY** use with adequate amounts of compatible refrigerant.
- **ONLY** use indoors on firm and level ground. Never tip this device for any reason.
- **ALWAYS** keep the ambient temperature around the device within its recommended range and provide at least 6 inches or 15 cm of unobstructed space on all sides of this device to allow proper ventilation and cooling during use. For best results, allow 8 inches or 20 cm between the back of this device and any wall.
- **NEVER** use this device in highly humid environments or allow any electronic component to become wet. If any such part accidentally becomes wet, disconnect this device from all power and wait until it has dried completely before further use.
- **NEVER** use this device in close proximity to fire, heated objects like radiators or stoves, or highly flammable, explosive, or corrosive substances or fumes.
- Do not cover the power cord, which may become a fire hazard during intense use.
- Do not place any other items on top of this device during operation.
- Be aware that this device does not actively refrigerate the storage bin. Depending on the ambient temperature, newly produced ice will tend to last 5 to 8 hours before melting.
- **DO NOT** operate this device if any component is missing or shows any sign of wear, malfunction, or damage. Repair or replace all problematic parts before further use. Never replace any parts with nonidentical ones. Always fully replace damaged power cords.
- **ALWAYS** disconnect this device from its power source before any cleaning, repair, or other maintenance. Do not attempt to defrost this device with other equipment. Allow packed ice to melt naturally. Never disconnect the plug by pulling it from the cord. Always use the plug itself.
- **ONLY** allow properly trained technicians with proper personal protective equipment to work with this device's refrigerant, which can irritate your eyes, nose, throat, and skin and cause frostbite, heart arrhythmia, unconsciousness, and even death. If you begin to develop symptoms such as headaches, dizziness, or nausea during use or maintenance of this product, turn it off, disconnect it from power, and get fresh air IMMEDIATELY.

Specifications

Model	LB1	75A
Material	304 Stainless St	teel, ABS Plastic
Input Power	110–120	V~ 60 Hz
Dimensions	26×27.5×33.3 in.	66×70×84.5 cm
Inlet Pipe Diameter	0.5 in.	1.3 cm
Inlet Pipe Length	3.3 ft.	1 m
Outlet Pipe Length	4.9 ft.	1.5 m
Outlet Pipe Diameter	0.5 in.	1.3 cm
Rated Power	484 W	
Refrig. Type	R290	
Refrig. Charge	4.9 oz.	140 g
Ice Shape	Square	
Ice Cube Dimensions	0.9×0.9×0.9 in.	22×22×22 mm
Max. Ice Production	175 lb./day	79.4 kg/day
Temp. Range	−0.4°F	−18°C
Drain Height	14 in.	35.6 cm
Net Weight	119.1 lb.	54 kg

Model	LB2	10A
Material	304 Stainless St	teel, ABS Plastic
Input Power	110–120	V~ 60 Hz
Dimensions	26×27.5×33.3 in.	66×70×98 cm
Inlet Pipe Diameter	0.5 in.	1.3 cm
Inlet Pipe Length	3.3 ft.	1 m
Outlet Pipe Length	4.9 ft.	1.5 m
Outlet Pipe Diameter	0.5 in.	1.3 cm
Rated Power	552	2 W
Refrig. Type	R290	
Refrig. Charge	5.3 oz.	150 g
Ice Shape	Square	
Ice Cube Dimensions	0.9×0.9×0.9 in.	22×22×22 mm
Max. Ice Production	210 lb./day	95.3 kg/day
Temp. Range	−0.4°F	−18°C
Drain Height	14 in.	35.6 cm
Net Weight	150 lb.	68 kg

Model	LB3	00A
Material	304 Stainless St	eel, ABS Plastic
Input Power	110–120	V~ 60 Hz
Dimensions	26×27.5×33.3 in.	66×70×98 cm
Inlet Pipe Diameter	0.5 in.	1.3 cm
Inlet Pipe Length	3.3 ft.	1 m
Outlet Pipe Length	4.9 ft.	1.5 m
Outlet Pipe Diameter	0.5 in.	1.3 cm
Rated Power	826	6 W
Refrig. Type	R290	
Refrig. Charge	4.9 oz.	140 g
Ice Shape	Square	
Ice Cube Dimensions	0.9×0.9×0.9 in.	22×22×22 mm
Max. Ice Production	280 lb.	127 kg
Temp. Range	−0.4°F	−18°C
Drain Height	14 in.	35.6 cm
Net Weight	156 lb.	71 kg

Package List

Commercial Ice Maker × 1

Water Inlet Pipes × 2

Filter × 1

Filter Bracket × 1

Ice Scoop × 1

Roll of Plummer's Tape × 1

Filter Wrench × 1

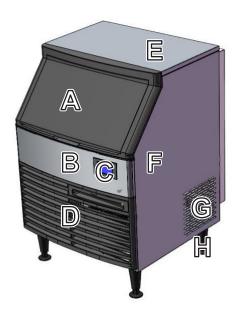
Connectors × 2

M4×16 Screws × 4

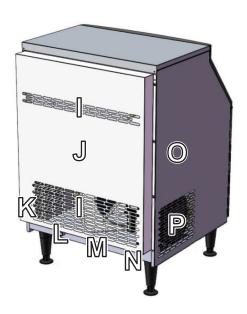
Feet × 4

Product Diagram

External Components

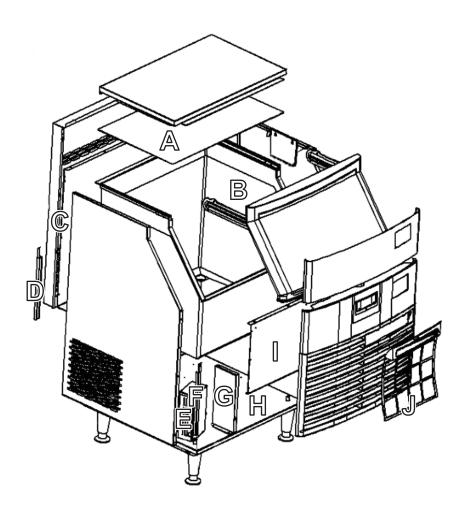


No.	Name
Α	Door
В	Front Panel
С	Control Panel
D	Front Vent
Е	Top Cover
F	Right Panel
G	Right Side Vent
Н	Feet



No.	Name
I	Rear Vents
J	Rear Panel
K	Drainage Pipe Outlet
L	Inlet Valve
М	Power Cord Connector
N	Bottom Panel
0	Left Panel
Р	Left Side Vent

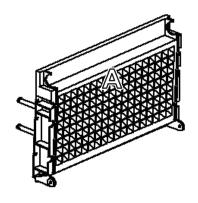
Internal Components

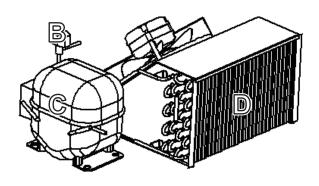


No.	Name
Α	Insulation Layer
В	Ice Bin
С	Rear Inner Protective Plate
D	Rear Bracket
Е	Front Inner Protective Plate

No.	Name
F	Control Box
G	Front Bracket
Н	Air Baffle
I	Base Plate
J	Front Vent Filter

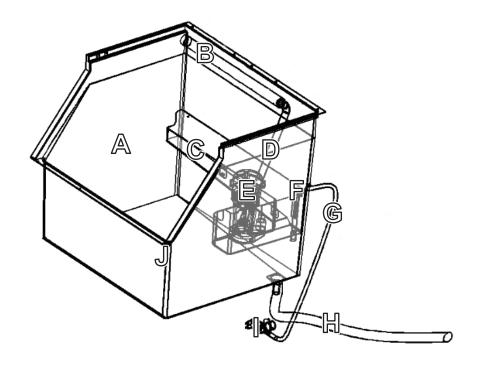
Refrigeration System





No.	Name
А	Evaporator
В	Solenoid Valve
С	Compressor
D	Condenser

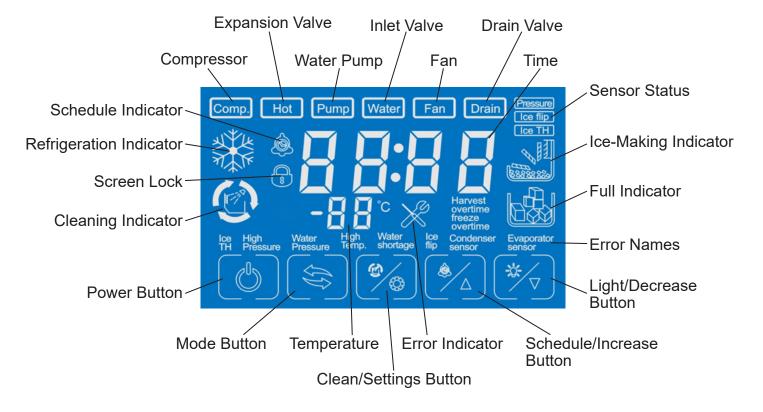
Ice Bin



No.	Name
Α	Ice Bin
В	Water Pipe
С	Water Tank
D	Water Supply Pipe
Е	Water Pump
F	Intake Pipe Joint
G	Inlet Pipe
Н	Drain Pipe
I	Inlet Valve

Control Panel

Main Display



Control Buttons



- In standby mode, press this button to start the icemaking process.
- When the machine is making ice, press this button to stop.
- When adjusting settings, press this button to save your changes and exit.



- When the machine is active, press this button to skip stages early, releasing ice or restarting sooner.
- In standby mode, press this button to enter the manual cleaning mode.



- In standby mode, hold this button until the display changes to enter the settings menus.
- When adjusting settings, press this button to cycle through different parameters.



- In standby mode, press this button to set a delayed start.
- When adjusting settings, press this button to increase values.



- In standby mode, press this button to turn on the display light.
- When adjusting settings, press this button to decrease values.

Installation

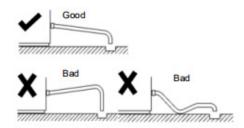
- 1. Open the packaging, removing all protective shipping material. You can store the packaging through any warranty period to ease any returns or dispose of it in accordance with local regulations. Keep it away from children and pets.
- 2. Confirm that your device came with all of the components and accessories listed above.
- 3. Thread the four provided feet into the four holes in the bottom of the ice maker.
- 4. Move your ice maker to a location meeting all of the requirements of the Safety Information and Specification sections above: It should be firm, level, indoors, dry, and climate controlled to temperatures from 50–100°F or 10–40°C. It should be at least 6 inches or 15 cm from any obstruction in every direction and ideally 8 inches or 20 cm from any wall behind or beside it; away from direct sunlight; and nowhere near any sources of heat or any flammable, explosive, or corrosive substances or fumes. It should be near a source of clean drinking water; a dedicated compatible and grounded plug; and a dedicated drain or wastewater container. The rim of the container should be below the level of the drain. Using an elevated platform for the ice maker or having a sunken drain can improve draining speed.
- 5. Thoroughly clean the interior and exterior of the ice maker with a soft cloth. If you use a mild detergent, be sure you completely rinse any residue off the machine before any use.
- 6. Connect one of the water inlet hoses to the machine. Use the provided connecters and the other hose to extend the inlet if necessary.
- 7. Install the filter onto the water inlet hose using the provided screws and then connect the filter to a faucet in full compliance with local drinking water standards. Use the provided filter wrench to tighten the connections.



DO NOT connect the ice maker directly to the water source without the filter and do not connect the filter to any sources of unsafe water.

Water pressure should be between 15–72 psi or 1–5 bars. If your water pressure exceeds these values, a pressure reducing valve (not included) should be installed between your water source and the filter.

8. Place the end of the machine's outlet pipe in your dedicated drain or wastewater container. To ensure proper drainage, make sure there is a gradual downward slope of at least 1 inch per yard or 2.5 cm per 1 m of drainage pipe, without any sharp turns or bends in the pipe.



- 9. Use the provided screws and a Philips head screwdriver to attach the filter bracket to a wall or other surface if applicable.
- 10. Connect the plug to its dedicated grounded outlet.

- 11. Fill the water tank with a mixture of 1 part water to 1 part vinegar or lemon juice. Press once to begin cleaning the device's internal components. When the process is over, disconnect the ice maker from power and drain the used cleaning fluid completely.
- 12. Refill the water tank with pure water. Use the button to rerun the cleaning routine, rinsing the vinegar or lemon juice out of the system. When the process is over, disconnect the ice maker from power and drain the rinsing water completely.

Operation



For best results, do not activate the compressor or begin making ice for the first 24 hours after receiving your ice maker. This will allow time for its oil to drain completely back into its reservoir if it was disturbed during shipment.

Ice Making

- 1. Plug in the device and turn on its attached faucet.
- 2. Press (b). The machine will turn on and the LCD display will light up, showing the version number "2003". The compressor and circulating water pump should start running to initiate the icemaking process. Water should flow from the top of the ice tray into the water tank where it will slowly cool and freeze. As you progress through each step, the corresponding indicators should illuminate to indicate that they're being executed properly. To move to the next mode early, press .



If any error indicator lights up, refer to the troubleshooting section below.

- 3. Once the ice cubes have formed for the set amount of time, the machine will begin releasing ice. The reversing valve will open and the ice tray will heat up, causing the ice cubes to detach and fall down into the container below.
- 4. Once the ice bin falls below 75–80% full, the machine will reenter its icemaking mode and start forming the next batch of ice.

Adjusting Settings

1. To adjust the ice thickness, ensure the machine is in standby mode by pressing ⑤. The screen should show "OFF". Hold down ⑥ for about 15 seconds until the display shows a "1" followed by two numbers showing its current sensitivity current sensitivity level, which can be changed using ⑥ and ※ √.

The sensitivity level ranges from 01 to 20. Level 1 is suitable for water with high amounts of dissolved solids (TDS above 500 ppm), level 10 is suitable for moderate TDS levels ranging between 100 and 500 ppm, and level 20 is suitable for low TDS levels below 100 ppm. Selecting the lowest sensitivity setting for well water, a medium sensitivity setting for tap water, and the highest sensitivity setting for purified or filtered water will usually provide the best results.

- 2. Press again to change the precooling time, the amount of time the machine cools the water before making ice. The display should show a "2" followed by two numbers showing its current precooling time. A setting of "00" completely deactivates precooling. The maximum precooling time is 120 seconds.
 - The longer the precooling time, the thicker and clearer the ice cubes will be. The recommended precooling time depends on the purity of the water you are using. If you are using tap water, a precooling time of 30 seconds may be sufficient. If you are using well water or purified water, you may need to set the precooling time between 60 and 120 seconds.
- 3. Press a third time to adjust the maximum intake time setting, which controls the duration of time that water is allowed to flow into the ice machine's freezing compartment. The display should show a "3" followed by two numbers showing its current precooling time. The minimum setting is 1 minute and the maximum is 45 minutes.
 - The intake time determines the amount of water that is used to make each batch of ice cubes, and it can have an impact on the size and shape of the ice cubes that are produced. Shorter water intake times can produce smaller and more solid ice cubes, while longer intake times can produce larger and more porous ice cubes.
- 4. Press a fourth time to set the cleaning cycle. The display should show a "4" followed by two numbers. A setting of "00" disables automatic cleaning, while a setting of "01" enables it. See Automatic Cleaning below for details.
- 5. Press a fifth time to adjust the drainage activation setting. The display should show "5-01", showing drainage is enabled. Never change this value to avoid damage to your machine and to prevent excessive microbial growth.
- 6. Press a sixth time to reach the drainage frequency. The display should show a "6" followed by two numbers. Showing the number of icemaking cycles between each draining period. A setting of "00" completely deactivates the drainage cycle and should never be used. A setting of "1" activates draining after each icemaking session. The maximum number of sessions between draining is 20, but this should only be used in extremely hot, dry, and well-ventilated locations.
- 7. Press (at any time to exit the settings menu while saving your changes. Alternatively, you can wait for 10 seconds without making any adjustment to exit the settings menu while saving your changes as well.

Delayed Start

- 1. Press 🖒 to enter standby mode. The display should read "OFF".
- 2. Press $\$_{\triangle}$ to enter the delayed start setup. The display should show a timer.
- 4. When your delay is correct, press 🖒 to save your changes and start the countdown.
- 5. When the countdown reaches zero, the machine will begin its icemaking mode.

Maintenance

General Maintenance

- Always fully disconnect this device from its power source before any cleaning, repair, or other
 maintenance, except as specifically instructed otherwise. If any such work might contaminate
 the ice, fully release all ice from the tray, remove all ice from the bin, do your work, and clean
 and rinse the bin before further use.
- Never clean any component with flammable or caustic chemicals or harsh abrasives. Only use food-safe cleaners with components involved in ice preparation and storage.
- Check the parts of this device for any wear or damage after use. Repair or replace any problematic parts before further use. Internal electrical components, the power cord, and the interior light should only be replaced by trained technicians.
- Clean the scoop at least once a week with soap and warm water, then rinse thoroughly with clean water. Dry the ice scoop with a clean and dry cloth before putting it back into the ice maker.
- If this device will not be used for an extended period, disconnect it from power and water; empty, drain, and dry it completely; and store it in a cool dry place away from direct sunlight and inaccessible to children.

Top Cover and Back Panel Removal

Several kinds of maintenance require you to remove the top cover and back panel. Wear work gloves to protect you from any metal edges.

- 1. Remove the two screws holding the top cover using a Phillips screwdriver.
- 2. Lift the top cover slightly upwards and then gently pull it towards the back of the ice machine to remove it.
- 3. Remove the two screws holding the back plate.
- 4. Lift the back plate slightly upwards to release it and then fully remove it. The drain pipe is connected to the back plate, so be careful to avoid using too much force.

Defrosting

Ice can accumulate on your ice machine's evaporator plate or icemaking surfaces. Regularly defrost your ice machine to remove any accumulated ice and ensure that it continues to operate at peak performance.

- 1. Remove the top cover and back panel of the machine according to the instructions above to reveal the refrigeration system. The evaporator is a plate with channels for the refrigerant to flow through located behind the ice tray.
- 2. Place a container under the evaporator plate to catch any water that may melt during the defrosting process.
- 3. Reconnect the machine to power and activate the defrost cycle by pressing \equiv.
- 4. Wait for the defrost cycle to finish and for any accumulated frost to melt. Once all the frost has melted, disconnect the power again. Wipe down the evaporator plate and icemaking surface with a clean cloth.

5. Close the front panel and resume normal operation by pressing \equiv.

Automatic Cleaning

Use the automatic cleaning function at least once a month or whenever there is a buildup of frost or ice inside the machine.

- 1. Press 🖒 to enter standby mode, when the display reads "OFF".
- 2. Defrost the machine according to the instructions above.
- 3. Press to enter the automatic cleaning mode.

The cleaning indicator should start flashing to indicate that the device is in cleaning mode. The water inlet valve should open and water should start to flow.

The device should clean for 3 minutes, then drain for 30 seconds. This process should repeat 5 times, for a total of 5 cleaning cycles. Once the entire cleaning process is complete, the screen should display "OFF" to indicate it has entered standby mode.

Note: If you need to perform a quick cleaning, you can skip some of the cleaning cycles. Skip immediately to the drainage process by pressing .

Ice Bin & Water Pump Cleaning

Clean the water tank, pump, and exterior surfaces with a soft cloth and a mild detergent at least once a week.

- 1. Remove the top cover as above.
- 2. Use a Phillips screwdriver to remove the two screws holding the water pump box in place.
- 3. Loosen the three screws on the inner wall of the ice bin, remove the clamp, and detach the connectors for the lower and upper water inlet pipes, water pump, and float.
- 4. Remove any debris or buildup from the water pump using a soft brush, sponge, or cloth.
- 5. Use a brush or sponge dipped in descaling agent or vinegar to thoroughly clean the water pump assembly and other removed parts and to scrub the ice bin.
- 6. Rinse all components thoroughly with clean water and allow them to air dry completely before reassembly.

Evaporator Cleaning

Clean the evaporator at least once a month. Clean more frequently if the ice maker is used heavily or is operating in a dusty environment.

- 1. Remove the top cover and back panel as above. Find the evaporator, a plate located behind the ice tray located with channels for the refrigerant to flow through.
- 2. Use a brush or sponge dipped in descaling agent or vinegar to scrub the surface of the evaporator and the plastic parts around it.
- 3. Rinse all components thoroughly with clean water and allow them to air dry completely before reassembly.

Vent Cleaning

Clean the vents at least every six months. Clean more frequently if the ice maker is used heavily or is operating in a dusty environment.

- 1. Remove the vent filter screen at the upper right corner of the front vent cover by using its grip.
- 2. Use a soft brush to remove dust from the filter.
- 3. Use the brush to remove any debris or buildup from the front, side, and rear vents. Be gentle to avoid damaging the vents.
 - If the vents are particularly dirty, you can also use a solution of warm water and mild soap to clean them. Dip the brush in the solution, gently scrub the vents, and then rinse and dry everything.
- 4. Replace the vent filter screen.

Condenser Cleaning

Dirty condensers can block circulation, causing the ice maker to operate at higher temperatures, produce less ice, and wear out sooner. Clean the condenser at least every six months. Clean more frequently if the ice maker is used heavily or is operating in a dusty or humid environment.

- 1. Remove the top cover and back panel as above. The condenser is positioned at the bottom of the back side of the machine.
- 2. Remove any dust on the condenser fins using a soft brush. Use gentle up and down motions. Be careful while cleaning as the edge of the condenser is sharp. Using hand protection such as work gloves is highly recommended.
- 3. Replace and refasten the back panel and top cover.

Disinfection

The ice maker should be cleaned and disinfected every six months. Clean more frequently depending on the usage and environment.

- 1. Remove the top cover and back panel of the machine as above.
- 2. Remove the water pipe by detaching its clamp. Gently lift the water inlet pipe upwards, being careful not to pull too hard or damage the pipe.
- 3. Use a Phillips screwdriver to remove the two screws securing the plastic water pipe cover. Remove the cover and take out the water pipe.
- 4. To remove the water baffle, the metal plate above the water tank, hold the middle position of the baffle and use a flathead screwdriver to apply even force from one side to the other, being careful not to apply so much force that the baffle might be damaged.
- 5. Remove the water tank by lifting it upwards from its position at the back of the ice maker.
- 6. Put on rubber gloves and eye protection before handling the cleaning solution. Mix 2 gallons or 8L of warm water with about 7 oz. or 100 g of a descaling agent suitable for ice makers. Check the descaler manufacturer's instructions for the recommended water temperature range for the specific descaling agent.

- 7. Soak the water tank, water inlet pipe and cover, and water baffle in the cleaning solution for at least 5 minutes (10 minutes for heavy limescale). Use a soft brush, sponge, or cloth to clean the parts thoroughly.
- 8. While soaking the parts, use a soft brush or cloth dipped in the cleaning solution to wipe the surfaces of the other parts that come into contact with water and ice, such as the ice storage bin interior, door, evaporator grid, top, bottom, and side plastic parts. For hard-to-reach areas, use a cloth soaked in the cleaning solution and wrapped around the end of a thin brush, disposable chopstick, or similar tool. Avoid using abrasive materials that may damage the surfaces.
- 9. After cleaning and drying the water tank, water inlet pipe and cover, and water baffle, reassemble them by following the steps above in reverse order. Make sure to secure the plastic cover and core rod properly.
- 10. Once all parts have been reassembled, reconnect the machine to power.

Run the ice maker for at least two cleaning cycles to ensure all cleaning solution has been flushed out. Discard the first cycle of ice produced.

Troubleshooting

Problem	Possible Solution(s)
Machine Won't Start	 Reposition any ice cubes blocking the ice tray from releasing ice. Check for a blocked or closed water connection correcting any problem. Check whether the fuse on the circuit board is blown and replace the fuse with one of the same rating.
Compressor Stops intermittently	 Clean the condenser. Have a trained technician check the refrigerant level. Repair any leaks and then refill the refrigerant. Check all connections and tighten any loose ones. Replace the compressor.
Ice Is Too Thin	 Adjust the machine's settings to increase ice thickness. Check for a blocked or closed water connection correcting any problem. Have a trained technician check the refrigerant level. Repair any leaks and then refill the refrigerant.
Ice Is Unclear but Correctly Sized	 Install a water filter on the source of the machine's water. Clean and disinfect the machine as above. Check for a blocked or closed water connection correcting any problem.

Problem	Possible Solution(s)
Ice Is Unclear and Abnormally Sized	 Ensure the machine is level. Clean the water spray pipe. Check for a blocked or closed water connection correcting any problem.
Too Little Ice Is Produced	 Replace, check, unblock, or improve the compressor, components or ventilation filter. Have a trained technician check the refrigerant level. Repair any leaks and then refill the refrigerant. Have a trained technician check for blockages, leaks, malfunctions, or improper operation of regulating valves in the air system, and relevant components should be checked and repaired.
Ice Full Sensor Not Functioning	 Adjust the parameters to make the ice cubes less thick. Replace the ice full sensor.

Error Codes

Problem	Possible Solution(s)
Ice Flip	Reset the ice tray.Replace the ice tray.
Freeze Overtime	 Clean the water pump. Check the solenoid valve and replace it if needed. Have a trained technician check the refrigerant level. Repair any leaks and then refill the refrigerant. Check for a blocked or closed water connection correcting any problem. Replace the solenoid valve, compressor, and/or circuit board.
Harvest Overtime	 Decrease the ambient air temperature. Clean the water pump. Replace the solenoid valve
Deicing Overtime	 Clean the water pump. Adjust the parameters to make the ice cubes thinner. Repair any damage and undo any blockage to the water inlet and drainage systems.

Problem	Possible Solution(s)
High Temp	 Clean the water pump. Adjust the parameters to make the ice cubes thinner. Repair any damage and undo any blockage to the water inlet and drainage systems.
Water Pressure	 Tightly seal the cap at the bottom of the tank. Use a flathead screwdriver to turn the dial marked "SF1" on the circuit board clockwise to reduce water intake. Identify leaks and fix them. Replace the inlet valve and/or circuit board.
High Pressure	Decrease the ambient air temperature.Clean the condenser.
Condenser Sensor	Clean the condenser.
Evaporator Sensor	Clean the evaporator.

Disposal Instructions



Electrical products should not be disposed of with household products. In the EU and UK, according to the European Directive 2012/19/EU for the disposal of electrical and electronic equipment and its implementation in national laws, used electrical products must be collected separately and disposed of at the collection points provided for this purpose. Locations in Australia, Canada, and the United States may have similar regulations. Contact your local authorities or dealer for disposal and recycling advice.

Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at **help@cs-supportpro.com** and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.

