



# 100LB. ICE MACHINE

## *User Manual*



### MODELS:

**BIM100, BIM100ADA, SCIM101, ALIM100**

*Write Serial No. of unit here:*

**Felix Storch, Inc.**  
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# IMPORTANT SAFETY INSTRUCTIONS

**READ ALL SAFETY INFORMATION BEFORE USING.**  
**WARNING: RISK OF CHILD ENTRAPMENT**

Child entrapment and suffocation are not problems of the past. Unused or abandoned icemakers are still dangerous, even if they will just “sit in the garage a few days.”

- Before you throw away your old icemaker, take off the doors. Leave any shelves or drawers in place so that children may not easily climb inside.
- Never allow children to operate, play with, or crawl inside the ice maker.

In order to prevent accidents caused by incorrect use, be sure to read and understand the following symbols and their meanings:



This is a safety warning symbol. This symbol alerts you to potential hazards that can kill or injure users. All safety messages will follow the safety alert symbol and either the word “DANGER” or “WARNING.”

## PRECAUTIONS

To avoid installation and/or operational difficulties, read these instructions thoroughly.

- This appliance must be grounded. A properly grounded outlet must be connected to a circuit breaker (30 mA or below).
  - o Do not use a power adapter or an extension cord.
  - o Do not remove the grounding prong.
  - o Install this appliance in accordance with the appropriate electrical and plumbing codes.
- Do not operate this appliance if it has a damaged power cord or plug, if it is not working properly, or if the appliance is damaged or has been dropped.
- Never allow children to operate, play with, or crawl inside the appliance.
- Never clean the appliance parts with flammable fluids. The fumes can create a fire hazard or explosion.
- Do not store or use gasoline or any other flammable vapors or liquids in the vicinity of this or any other appliance. The fumes can create a fire hazard or explosion.
- Do not splice the power cord that is equipped with this appliance.
- Keep the power cord away from heated surfaces.
- Do not immerse the power cord plug or the appliance itself in water.
- Do not use the product near water, for example, in a wet basement, near a swimming pool, or near a sink.
- Do not use corrosive chemicals or vapors in this appliance.
- Use this appliance only for its intended use, as described in this manual.
- Do not cover or block any ventilation openings on the appliance.
- This appliance should be serviced only by qualified service personnel. Contact the nearest authorized service facility for examination, repair, or adjustment.

# GROUNDING INSTRUCTIONS



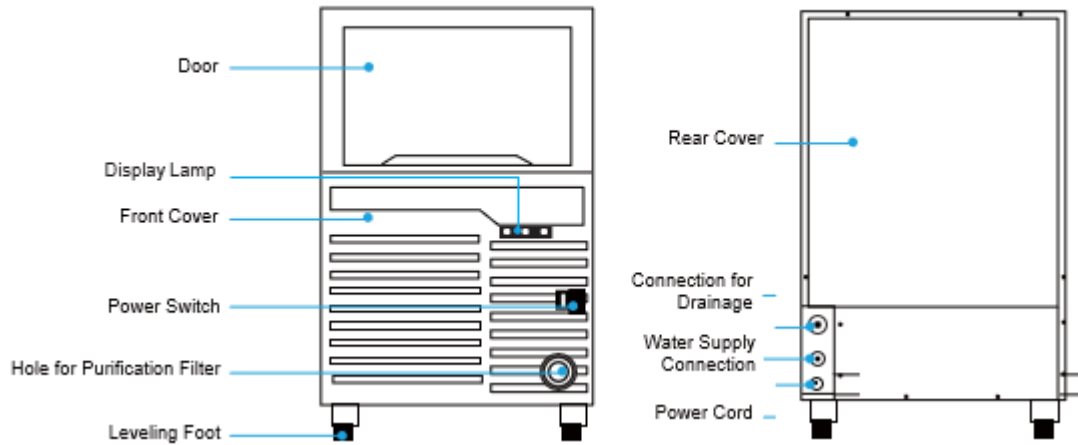
**WARNING:** Improper use of the grounding plug can result in a risk of electric shock.

- This appliance must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current.
- This appliance is equipped with a power cord with a grounding wire and a grounding plug. The plug must be used with an outlet that is properly installed and grounded.
- Consult a qualified electrician or service technician if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.

**NOTE:** If the outlet is a standard 2-prong wall outlet, it is the user's personal responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet.

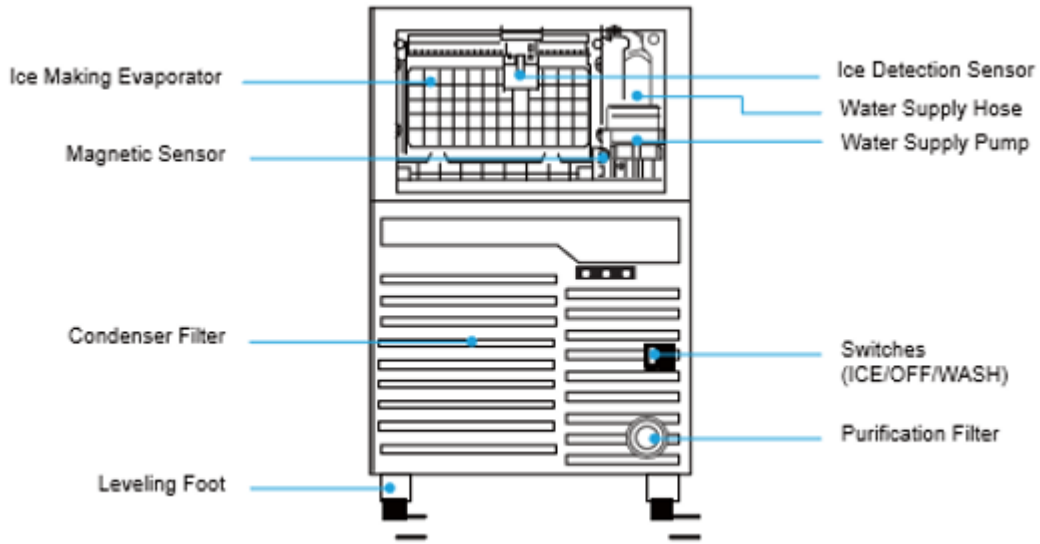
- For best operation, plug this appliance into its own electrical outlet to prevent the flickering of lights, blowing of a fuse, or tripping of the circuit breaker.
- DO NOT, under any circumstances, cut or remove the third (grounding) prong from the power cord.
- DO NOT use an adapter plug with this appliance.
- DO NOT use an extension cord with this appliance. If the power cord is too short, have a qualified electrician or service technician install an outlet near the appliance.

# LOCATION OF PARTS



(Front)

(Rear)



(Interior)



# INSTALLATION INSTRUCTIONS

## Before Using the Ice Maker

- Remove any exterior or interior packaging.
- Attach the four leveling feet to the bottom of the appliance.

**NOTE:** Before connecting the ice maker to a power source, let the appliance stand upright for approximately two hours. This will reduce the possibility of a malfunction in the cooling system from handling during transportation.

- Clean the interior surface with lukewarm water, using a soft cloth.
- Make sure the water intake hose is not twisted, kinked, or damaged.
- Connect the ice maker to the cold-water pipeline.
- Make sure the water pressure is between 20 – 80 pounds per inch (psi).



**WARNING:** If the ice maker will not be used for an extended period of time, it is suggested, after careful cleaning, to unplug the appliance and leave the door cracked open to allow air to circulate inside the cabinet. This will minimize the formation of condensation, mold, and odors.

## Installing the Ice Maker

- Place the ice maker on a floor that is strong enough to support it when it is fully loaded. Adjust the two leveling feet at the bottom front of the appliance to level the ice maker,
- Place the ice maker away from direct sunlight and sources of heat (stove, heater, radiator, etc.).
  - Direct sunlight and heat sources may increase electrical consumption. Extremely cold ambient temperatures may also cause the unit not to perform properly.
- Avoid locating the appliance in moist or damp areas.
- Plug the appliance into an exclusive, properly installed, and grounded wall outlet. **DO NOT**, under any circumstances, cut or remove the third (grounding) prong from the power cord. Any questions concerning power and/or grounding should be directed toward a certified electrician or an authorized service center.

## Installing the Leveling Legs

Your unit includes two sets of legs to raise the height off the floor. You can install the 4" high set to raise the height to 34 ½", or the shorter ½" to 1 ½" set to bring the height to 31 ½" (ideal for use under ADA compliant counters).

To install either set, follow these instructions:

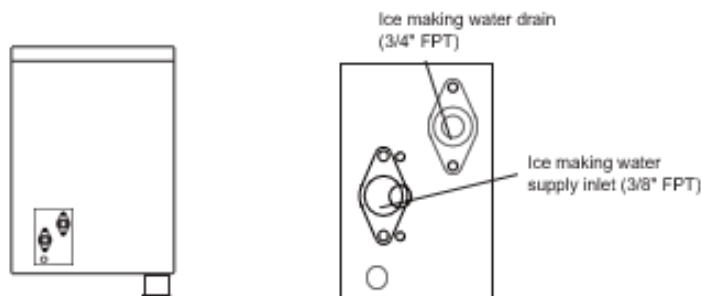
**NOTE:** Unplug the appliance and make sure the unit is empty before adding or removing adjustable feet.

1. Carefully lay the unit onto its side, using a soft cloth to ensure the outer surface is not scratched.
2. Screw the adjustable legs into the bottom of the cabinet, using the attached bolt to secure the foot to the bottom of the cabinet.
3. Set the unit upright, and install in the appropriate location.

Turning the legs to the right will lower that side of the unit. Turning the legs to the left will raise that side of the unit. The height can be increased by between ½" and 1 ½".

## Connecting the Water Line

	Water Temperature	Water Pressure	Water piping size
Ice maker water supply	50 – 90° F	20 – 80 psi	3/8 “
Ice maker water drain	•	•	3/4 “



(Rear)

- Connect a 3/8" diameter pipe to the tap water line.
- The pressure of the tap water line should be maintained at a level between 20psi (1.4bar) and 80psi (5.5bar). The tap water line and drain pipeline should be planned and prepared at the place of installation. The electric power, tap water pipeline, and drain pipeline should satisfy all the provisions under local laws and regulations.

**NOTE:** The ice maker is designed for use in a fixed position, but it may be necessary to pull the appliance forward for service. Therefore, do not install any material at the front, upper, and lower end of the appliance, which may act as an obstacle when moving the ice maker.

## Installing the Purification Filter

This ice maker requires a purification filter (included) in order to operate. The filter cycle is typically 6 months, but might be shorter depending on your environment and the quality of your water. Replacement filters can be ordered online at [summitappliance.com/filter100](http://summitappliance.com/filter100).

To install the filter upon setup:

1. Remove the round punch-out on the lower right hand side of your ice maker's front. It has been pre-cut to make this process easy. You can discard the plastic cutout, as you will no longer need it.
2. Insert the filter into the hole, turning it clockwise until it is locked in place.
3. Upon first starting the ice maker, check the area around the filter to ensure there are no leaks. If you see any water, reinsert the filter and make sure it is properly connected.

# OPERATION

Once the power supply, water intake supply, water drain pipe, and purification filter have been properly installed, the ice maker is ready for use.

1. Open the water intake valve.
2. Turn the power switch on the front panel to the "ICE" position. The first round of ice should be ready approximately 20-30 minutes after the operation starts.

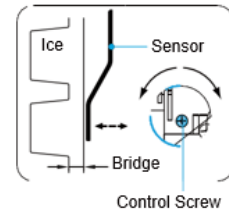
**NOTE:** Before using any ice, make **two** full batches of ice and discard to ensure future batches are clean and sanitary.

## Ice Full Sensor

An automatic sensor stops ice making once the ice box is full. Remove the finished ice from the ice basin to resume the automatic ice making operation.

### Ice Thickness Sensor

An ice bridge thickness of 3.2mm (.012") is set as the factory default. Rotate the control screw counter-clockwise to make the ice bridge thinner, and clockwise to make the ice bridge thicker.



### Changing the Purification Filter

When the purification filter is no longer active, the ice maker will not produce ice. The filter cycle is typically 6 months, but might be shorter, depending on your environment and quality of your water. Replacement filters can be ordered online at [summitappliance.com/filter100](http://summitappliance.com/filter100).

To change the filter:

1. Remove the inactive filter by turning it counterclockwise and pulling it out of the filter hole
2. Discard your old filter.
3. Insert the new filter, turning it clockwise until it is locked in place.
4. Always check for leaks upon first turning the ice maker back on.

## CLEANING

Occasional cleaning and maintenance are necessary to maintain proper functionality and sanitary conditions. Perform this cleaning process approximately once per month. Remove all of the ice from the ice basin before attempting to clean the interior of the ice maker.

**CAUTION:** *Unplug the ice maker before cleaning or replacing any part of the appliance. Spraying or applying water to the appliance while plugged in may cause product failure or electric shock.*

DO NOT use powdered soap, benzene, muriatic acid, petroleum, boiling water, or a touch brush because they can cause abrasive damage.

### Cleaning the Ice Basin

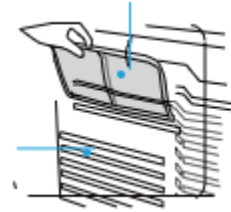
1. Set the power switch to the "OFF" position.
2. Unplug the power cord from the wall outlet.
3. Close the water intake valve.
4. Open the door and remove the drain plug on the bottom of the ice basin.
5. Rotate the three bolts on the bottom of the basin counter-clockwise to release them, pull out the drain hose from the drain hole, and remove from the water tank.
  - a. Remove the ice sensor from the distributor.
  - b. Remove the two screws on the left and the right of the distributor.
6. Dilute 10g (0.35oz) of a neutral detergent, such as baking soda, in 3L (0.8gal) of warm water. Soak a clean cloth in the liquid, wring out, and wipe the ice basin and water tank.
7. After cleaning, wipe everything with a clean, dry cloth.
8. Connect the drain plug, drain hose again, and tighten the three bolts again.



**WARNING:** The surface temperature of the pump motor is very hot. Wait until the appliance is cool enough, after turning off the power, before cleaning. Cleaning before the motor has cooled may result in burns if contact with the skin is made.

## Cleaning the Condenser Filter

1. Pull the condenser filter up and out of the front panel.
2. Use a vacuum cleaner to remove any dust.
3. Wipe the filter with a solution of 10g (0.35oz) of a neutral detergent, such as baking soda, in 3L (0.8gal) of warm water.
4. Dry the filter with a clean, dry cloth, and replace the filter into the front panel of the appliance.



## Cleaning the Condenser

1. Unscrew the two screws at the bottom of the front panel.
2. Pull down on the front panel to separate it from the appliance.
3. Use a vacuum cleaner to remove dust from the condenser.
4. After cleaning, insert the front cover into the upper holes, and push up and into place.
5. Tighten the two screws to secure the front panel to the appliance.



## Using the WASH Mode

1. Set the power switch to the “OFF” position.
2. Remove any ice in the ice basin.
3. Dilute 30g (1.06oz) of a neutral detergent, such as baking soda, in 8L (2.1gal) of warm water, and pour the solution into the water tank.
4. Set the power switch to the “WASH” position. The pump motor operates for approximately one and a half minutes, and stops for 30 seconds. This operation repeats five times.

**NOTE:** The above process may be completed two to three times, if necessary. Add more detergent solution to the water tank, if required.

5. Clean the ice basin, connection hose, ice dipper, water pump, and water tank with the detergent solution.

Wipe and rinse everything with clean drinking water after cleaning is complete.

**NOTE:** Dispose of the first batch of ice made after cleaning the appliance.

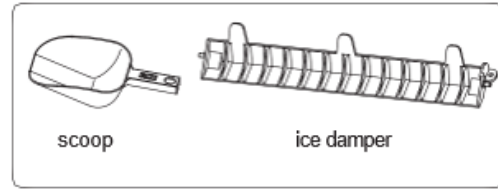
# SANITIZING

Sanitize the ice maker to remove algae or sticky substances, which can build up on the appliance. DO NOT use a sanitizer to remove calcic or mineral substances. Dispose of the first batch of ice after performing the sanitizing procedure.

1. Set the power switch to the “OFF” position once the ice making cycle has completed, and the ice has fallen off of the Assembly Evaporator.
2. Remove the ice from the ice basin.
3. Close the water supply valve.
4. Pour 0.013 gal (50 mL) of a sanitizing liquid into the ice vessel sheet.
5. Set the power switch to the “WASH” position. The pump motor will cycle 5 times for about 90 seconds per cycle, with 30 seconds in between cycles. Sanitizing will take about 10 minutes in total.
6. After the sanitizing is complete, set the power switch to the “OFF” position.

The ice scoop and ice damper must be sanitized separately in 0.26 gal (1L) of sanitizer diluted in 5.4 gal (20L) of water.

Once the scoop, ice damper, and ice basin have been sanitized, reassemble all sanitized components.



When the first sanitizing procedure is complete, remove the packing down from the ice basin by pulling downward. Remove the water inside the packing down, and insert it back into the ice vessel sheet.

Conduct the sanitizing procedure two more times. Once the third sanitizing procedure is complete and all of the components have been reinstalled, set the power switch to the “ICE” position. Regular icemaking can now resume.



## TROUBLESHOOTING

Many common appliance problems can be solved easily, without incurring the cost of a service call. Listed below are several possible causes for common problems:

Operation Status	Possible Problem	Possible Solution
The ice maker does not operate	The ice maker is unplugged The power is switched “OFF”  The ice maker is not level  The ice maker is contaminated	Plug the ice maker in. Set the switch to the “ON” position Adjust the leveling legs to level the appliance. Perform cleaning and sterilization Change the purification filter.
Water is not supplied	The water supply valve is closed The water supply hose is improperly installed The water supply is stopped	Open the water supply valve  Check the water supply hose and install again Wait for water to be turned back on
The ice is not well formed	Water supply hose is closed Water is not supplied Compressor is not operating properly Ventilation not properly cleared Heat source near the ice maker Drain hose too low to supply water Ice made too thin/thick  Insufficient water in the water tank	Remove dust from the front filter panel  Keep ice maker away from heat source  Adjust the height of the drain hose Adjust control screw of thickness sensor Adjust the plotter level
The ice is too frozen	The ambient temperature of the location of the icemaker is below 5°C.	Do not use the icemaker if the ambient temperature is below 5°C.
The ice maker produces loud or strange sounds	The floor beneath the appliance is not stable or is weak.	Adjust the leveling feet or move the ice maker to a move level, stable location.

Water does not drain properly	There are foreign materials in the drain hose.	Remove any foreign materials from the drain hose.
Ice making does not take place	Water is not supplied into the water bowl.	Ensure water line is connected.

## TECHNICAL SPECIFICATIONS

Item		Unit	Specification	
			BIM100, BIM100ADA, SCIM101, ALIM100	
Maximum Ice Making (Based on 10°C)		Kg /day (Lbs./day)	50(110.2)	
Freezing Capability			Ice is made after 30 minutes.	
Size (Installed Height)	Depth	mm(inch)	574(22.5)	
	Width		520(20.4)	
	Height		862(33.9) (FOOT included)	
Power		Single Phase	115V / 60Hz	
Package	Before	Weight	Kg(lb.)	50(110.2)
	After			52(114.6)
Freezing capability	Compressor	kcal/h	205	
	Refrigerant	GAS	R-134a	
	Condenser	Air cooling	Pin tube type	
	Shape of Ice		Dice	
Rated Power		W	250	
Temperature Control			MICOM	
Time Control			MICOM	
Accessories			Ice Scoop - 1EA	
			User Manual – 1EA	
			Water Purifier – 1EA	
			Leveling Foot - 4EA/ADA Leveling Foot – 4EA	
Operation Temperature		°C(°F)	5 to 38 (41~100.4)	

To order replacement purification filters, visit  
**[summitappliance.com/filter100](http://summitappliance.com/filter100)**  
 If you need assistance, contact our Technical Support team  
**718-893-3900 ext. 513 · [techsupport@summitappliance.com](mailto:techsupport@summitappliance.com)**



# LIMITED WARRANTY

## ONE-YEAR LIMITED WARRANTY

Within the 48 contiguous United States, for one year from the date of purchase, when this appliance is operated and maintained according to instructions attached to or furnished with the product, warrantor will pay for factory-specified parts and repair labor to correct defects in materials or workmanship. Service must be provided by a designated service company. Outside the 48 states, all parts are warranted for one year from manufacturing defects. Plastic parts, shelves and cabinets are warranted to be manufactured to commercially acceptable standards, and are not covered from damage during handling or breakage.

## 5-YEAR COMPRESSOR WARRANTY

1. The compressor is covered for 5 years.
2. Replacement does not include labor.

### **ITEMS WARRANTOR WILL NOT PAY FOR:**

1. Service calls to correct the installation of your appliance, to instruct you how to use your appliance, to replace or repair fuses or to correct wiring or plumbing.
2. Service calls to repair or replace appliance light bulbs or broken shelves. Consumable parts (such as filters) are excluded from warranty coverage.
3. Damage resulting from accident, alteration, misuse, abuse, fire, flood, acts of God, improper installation, installation not in accordance with electrical or plumbing codes, or use of products not approved by warrantor.
4. Replacement parts or repair labor costs for units operated outside the United States.
5. Repairs to parts or systems resulting from unauthorized modifications made to the appliance.
6. The removal and reinstallation of your appliance if it is installed in an inaccessible location or is not installed in accordance with published installation instructions.

## DISCLAIMER OF IMPLIED WARRANTIES – LIMITATION OF REMEDIES

CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR AS PROVIDED HEREIN. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR. WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS, SO THESE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.



**WARNING!** This product can expose you to chemicals including Nickel (Metallic) which is known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Note: Nickel is a component in all stainless steel and some other metal compositions.

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# SUMMIT

For parts and accessory ordering,  
troubleshooting and helpful hints, visit:  
[www.summitappliance.com/support](http://www.summitappliance.com/support)

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