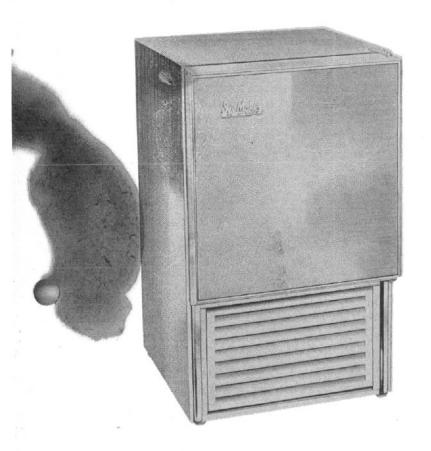
MODELS 45A - 48A, COMBO 19A

USER'S GUIDE







U-LINE CORPORATION

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This User's Guide has been prepared to enable you to have a better understanding of the function and operation of your Ice Maker. It is written in layman's language to assist you in determining the nature of the defect, should your Ice Maker not function properly.

Duplicate serial number can be found behind front grille.

OPERATING INSTRUCTIONS

- Do not cut off air circulation from entering the front grille by putting the unit behind closed doors.
- 2. Unit must be installed level.
- 3. Ruffle cubes periodically. Never use an ice-pick.
- 4. Your Ice Maker should be defrosted periodically.
- 5. When defrosting or shut off for any period of time, the door **must** be propped open two inches.
- Do Not use any electrical heating devices to defrost, and never use anything sharp or pointed.
- 7. To set colder, turn the screw located through the hole in the rear of the cabinet ¼ turn clockwise.* Turn counter-clockwise for warmer setting. The colder the control is set, the slower the ice cube harvest will be.
- 8. On Combo 19 and Combo 65 the ice bucket must be pushed in place to avoid freezing products in refrigeration section.
- 9. Once each year, or as often as needed, shut off water, remove large brass nut on water inlet valve, and use toothbrush to clean sediment from inlet screen to prevent sediment and impurities from shutting off water supply.

USER'S GUIDE

QUESTIONS AND ANSWERS

- 1. There is water in the bucket?
 - a. The machine is not level, and the water runs out of the freezing mold into the storage compartment, or bucket.
 - b. Poor gasket seal, or something holding the door open, like the bucket not being pushed in far enough.
 - c. A defective water valve switch.
- 2. The ice sticks together?
 - a. Water splashes out of the filler cup during water fill cycle.
 - b. A faulty door seal, and the ice on top will be frosty and sticking together.
 - c. The front grille is being blocked by putting it behind closed doors and not letting air through the front grille for circulation.
 - You have it located in a "hot spot" where fresh air cannot enter the grille.

 You are re-circulating the hot air from the unit compartment back through the grille.
- 3. Have to defrost it weekly?
 - a. You have it located in a "hot spot" where fresh air cannot enter the grille.

 You are re-circulating the hot air from the unit compartment back through the grille.
 - b. You have a poor door seal causing the warm air to enter the storage compartment, which builds up ice, or the door is not closed tightly.
 - c. The chemical content of the water is different in each locality, and therefore the freezing temperature of ice differs. To lower the temperature, turn the control, located through the rear of the cabinet, one-quarter to one-half turn to the right, clockwise. The reverse should be done if you want to raise the temperature to a warmer setting.
- 4. The Ice Maker freezes up?
 - a. A poor door seal, letting the warm air come in.
 - b. Water splashing out of the Ice Maker mold into the storage compartment or bucket.
 - c. Slow leakage through the electric solenoid valve, which would mean a replacement.

^{*}On Combo 19 the cold setting is located in the front.

5. The Ice Maker won't make ice?

- a. The Ejector Blades are frozen in and cannot eject the cubes. Defrost the machine.
- b. The electricity in the room could have been turned off, or the switch in the unit compartment could be turned to the "off-position". Maybe the cord is not tight in the wall socket.
- c. Someone has shut off the water supply to the machine.
- d. Defective cold control.

6. The ice is too soft and wet?

- a. The Control setting is too warm, and it should be turned one-quarter turn to the right. It is located through the rear of the cabinet.
- b. The door is not closing completely.
- c. The bucket is too far out.
- d. Air is being blocked from entering the grille. (See No. 2)
- e. The condenser needs cleaning with a brush.

7. It keeps making ice and won't stop?

- a. The Shut-Off Arm switch is not working properly.
- b. The Shut-Off Arm is frozen in the ice. Remove cubes from the machine.
- c. The end of the Shut-Off Arm is stuck under the freezing tray.

8. It is not making enough ice?

- a. The Control is set too cold. Back it off one-half turn to the left. It is located through the rear of the cabinet.
- b. The location is bad, creating a "hot spot". Instead of fresh air coming in through the grille, the hot air which has been expelled is being re-circulated.
- c. Cubes too large. Adjust water fill.
- d. Fan Motor is not running.
- e. The Condenser coil behind the grille is dirty and needs cleaning.

9. The ice cubes are cloudy?

a. This is nothing more than the air being trapped in the water due to fast freezing. It has nothing to do with the health, taste, or chemical make-up of the water. It is the same air that is in every glass of water you drink.

- 10. Too much water is coming out?
 - a. Water Valve Switch needs adjusting. Remove front cover and adjust screw. (Figure 3)
 - b. The Control failed and needs replacing.
 - c. Leakage through the Solenoid Valve, which needs replacing.
- 11. The ejector blades are frozen into the ice cubes?
 - a. Too much water coming in. Adjust water, as in No. 10.
 - b. Defrost machine.
 - c. Cubes piled too high melted back into freezing tray. Treat as in "b" above.

12. Why must you install it level?

- a. The front cubes will be larger than the rear cubes, thereby taking a longer time to eject.
- b. If you tip it to the rear, you will get a "frost-back" on the suction line, and you will not be able to eject ice cubes. (See No. 5)
- 13. How do you level the Ice Maker?
 - Put a level gauge alongside the inside of the Ice Maker mold itself, not on top of the cabinet.
- 14. How can I eliminate cubes sticking together?
 - a. Be sure you have a good gasket seal.
 - b. Be sure the Cold Control is cold enough so that the ice is dry and hard, but not too cold, which will cut down the production of the Ice Maker. (See No. 3c)
 - c. Be sure the door is kept closed.
 - d. Be sure it is not behind closed doors, cutting off air circulation. (See No. 2c, d)
 - e. Ruffle the cubes periodically or remove a few cubes. Any loose ice, no matter what the temperature is, will eventually fuse together, if not ruffled or disturbed. Weight or compression causes ice to melt together.
- 15. What do I do if I need service?
 - a. Contact the dealer from whom you purchased the unit.
- 16. The Ice Maker is hooked up but no water comes in?
 - a. The water has not been turned on at the Saddle Valve clamp or at the water supply.

- b. The two wires to the Solenoid Valve behind the grille have come off. Reach in and put them on.
- c. The Ice Maker is not running, and you must listen for the compressor.
- d. Always reach in with your hand and pull the ejector blades in the mold up around one turn to start the Ice Maker activating.
- e. Sediment has plugged the Solenoid Valve inlet screen. Clean it. Shut off water, remove water line at large brass hose nut on Valve inlet, use toothbrush to clean sediment from inlet screen. Do not remove screen.
- 17. The Ice Maker is refrigerating but won't make any cubes?
 - a. Be sure that the water is turned on at the source.
 - b. The Solenoid Valve does not work properly.
 - c. Water line is freezing at top, under rear panel.
 - d. A defective Limit Switch or Holding Switch.
 - e. The Shut-Off arm has been put up into the off position.
- 18. The Ice Maker won't reject ice cubes?
 - a. The ejector blades are frozen into the Ice Maker mold. Defrost.
 - b. A faulty Limit Switch or Shut-Off Arm switch.
 - c. The control is not working.
- 19. The Compressor won't run?
 - a. Check that you have electricity at the wall outlet.
 - b. Check to see that the switch behind the front grille is on.
 - c. Most common cause is that the relay or overload has failed.
- 20. The cubes are frosty on top?
 - a. This is due to a poor gasket seal, where air is coming into the unit. (See No. 3)
 - b. If the cubes have not been removed for a long time.
- 21. How can you test the switches to see if they are active?
 - a. Water Valve Switch, Holding Switch, Shut-Off Arm Switch can be tested by seeing if the little black button clicks when depressed. If it does not, then the switch needs replacing.
- 22. How do you get a better door seal?
 - a. Adjust hinges, bend door into shape, or shim door gasket where needed.

- 23. The water keeps running and won't shut off?
 - a. A faulty water valve switch.
 - b. Defective Solenoid Valve.
 - c. Defective Cold Control.
 - d. Set water as in No. 10.
- 24. The Compressor has a knocking noise?
 - a. Machine is not level. (See No. 12)
 - b. Faulty compressor, and it should be replaced.
 - c. Fan Motor not running.
- 25. How can I make smaller cubes?
 - a. This is not advisable, but you can do so by adjusting the Water Valve Switch to permit less water to enter the Ice Maker mold. (See No. 10)
- 26. How do you drain the entire system so it won't freeze up?
 - a. Shut off water supply to the machine.
 - Disconnect the water line where it enters the Solenoid Valve in the unit compartment. Allow the machine to run for one hour so that all water is drained through the system.
 - c. Leave disconnected until re-using.
 - d. Mop out any remaining water in the Ice Maker mold.
 - e. Leave door propped open two inches so that humidity will not build up inside the cabinet and corrode the micro switches.
- 27. Do I need to worry if there is a lot of ice on the Ice Maker?
 - a. No, as long as the Ice Maker is harvesting ice, this is all that is required.
- 28. Is the Ice Maker Automatic Defrosting?
 - a. Yes, and this pertains only to the Ice Maker mechanism itself, without which you could not insure continuous ice production.
 - b. It is not "frost free".
- 29. What happens when the Ice Bucket is full?
 - a. The Ice Maker ceases to produce more ice, but the unit keeps running to keep the ice cold. The bin arm switch regulates this.

- 30. Is the Model 48 Automatic Defrosting?
 - a. Only partially, such as in No. 28a. The secondary evaporator around the side wall is not frost-free or self-defrosting.
- 31. How much Freon is in a 1/8 H.P. Model 45 Compressor?
 - a. 3 oz. Refrigerant 12.
- 32. How much Freon is in a 1/6 H.P. Model 48 Compressor?
 - a. 3¼ oz. Refrigerant 12.
 - b. Combo 19 has 3% oz. Refrigerant 12.
- 33. There is a high pitch or ring in the Unit Compartment?
 - a. Copper refrigeration tube is touching the cabinet and is vibrating.
- 34. The Compressor runs all the time?
 - a. The Control is set too cold.
 - b. The unit is located in a "hot spot" and not enough new fresh air is coming into the unit compartment, or the fan is not running.
 - c. Something is blocking the front grille and preventing air from entering.
 - d. The Condenser should be clean of lint.
- 35. When do the heater elements in the Ice Maker go on?
 - a. The heaters go on during the harvesting of the ice only.
- 36. How do you determine when a Solenoid Valve is defective?
 - a. If water slowly drips into the Ice Maker mold, while the ice is freezing.
 - If there is a restriction in the valve, and no water comes into the Ice Maker mold.
 - c. There will be no evidence of dripping in the compressor compartment whether the Solenoid Valve is good or bad.
- 37. The Ice Maker Ejector Motor runs, but the Ejector Blades do not turn?
 - a. Stripped gear in the Ejector Motor.
- 38. The Ice Maker Ejector Motor and Ejector Blades turn continuously?
 - a. Defective Cold Control.
 - b. Defective Holding Switch.

- 39. What is the size of the cube?
 - a. The eight cavity cube is crescent shaped, %" wide, 2%" long, 1" thick.
 - b. The 12 cavity cube is ½" wide, 2½" long, ¾" high.
- 40. My Ice Maker leaks?
 - a. This cannot happen if installed properly.
 - b. Check to see that the saddle valve to the water pipe and the connection in the compressor compartment are tight.

PARTS REMOVAL & REPLACEMENT

Removal and replacement of each component is described on the following pages. The disassembly diagram (Fig. 1) is provided to illustrate the relative position of components and to become familiar with the names of the various parts.

Before attempting any replacement, disconnect the appliance service cord from the power supply. A wiring diagram (Fig. 2) is provided at the end of this section. (A diagram is also located inside the front cover.)

1. ICE STRIPPER

- a. Remove ice maker from cabinet.
- b. Remove retaining screw at back of mold.
- c. Pull Stripper back to disengage from front of mold.
- d. Replace in reverse order.

2. FILLTROUGH AND BEARING

- a. Remove Ice Stripper.
- b. Push retaining tab back, away from mold.
- c. Rotate counter-clockwise until trough is clear.
- d. Pull from back to detach from mold and ejector blades.
- e. Replace in reverse order.

3. EJECTOR BLADES

a. Remove Ice Stripper.

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- b. Remove Fill Trough & Bearing.
- c. Force back and up to detach from front bearing.
- d. Place small amount of silicone grease on bearing ends of replacement.
- Replace in reverse order, noting that blades are in same position as original.

4. FRONT COVER

- a. Place coin in slot at bottom of mold support and pry cover loose.
- b. To replace, be sure retaining tabs inside cover are located on top and bottom, then snap in place.

5. MOUNTING PLATE

- a. Remove Front Cover.
- b. Remove 3 retaining screws, holding plate in place.
- c. Carefully remove plate, disengaging end of shut-off arm and noting relative position of shutoff arm spring.
- d. Before replacing plate be sure all wiring is orderly and shut-off arm spring is in place.
- e. Replace in reverse order.

6. MOTOR

- a. Remove front cover.
- b. Remove mounting plate (3 screws).
- c. Disconnect wiring.
- d. Remove motor (2 screws).
- e. Replace in reverse order.

7. WATER VALVE SWITCH

- a. Remove front cover.
- b. Remove mounting plate (3 screws).
- c. Disconnect wiring.
- d. Remove switch (2 screws).
- e. Replace in reverse order, making sure switch insulator is in place.
- Check water fill and adjust if required.

8. HOLDING SWITCH

- a. Remove front cover.
- b. Remove mounting plate (3 screws).
- c. Disconnect wiring.
- d. Remove switch (2 screws).
- e. Replace in reverse order, making sure switch insulator is in place.

9. SHUT-OFF SWITCH

- a. Remove front cover.
- b. Remove mounting plate (3 screws).
- c. Raise shut-off arm.
- d. Disconnect wiring.
- e. Remove switch (2 screws).
- f. Replace in reverse order.

10. LIMIT SWITCH

- a. Remove front cover.
- b. Remove mounting plate (3 screws).
- Loosen limit switch clip mounting screw.
- D. Disconnect wiring and remove limit switch.
- Apply alumilastic to sensing surface of replacement limit switch and bond to mold.
- f. Replace in reverse order.

12. MOLD HEATER

- a. Remove stripper (1 screw)
- b. Remove front cover.
- c. Remove mounting plate (3 screws).
- d. Detach limit switch from mold
- e. Detach heater leads.
- f. Remove mold from support (4 screws).
- g. With a flat bladed screwdriver, pry defective heater from bottom of mold.
- h. Clean all alumilastic from groove in bottom of mold.
- Apply new alumilastic to groove in mold.
- Install replacement heater, using 4 screws in holes adjacent to heater groove.
- Replace parts in reverse order of removal.

13. CONTROL (THERMOSTAT)

- a. Remove rear panels from cabinet.
- b. Remove mounting plate (2 screws).
- c. Remove control from plate (2 screws).
- d. Remove wires (3 terminals).
- e. Remove control element from upper rear cabinet.
- f. Straighten 12 inches of element on new control to insert into small diameter aluminum tube control well. Control will not work if not inserted in control well.
- g. Assemble in reverse order.

14. SOLENOID WATER VALVE

- a. Shut off water supply.
- b. Remove water connections from
- c. Remove mounting screws (2).
- d. Remove electrical connector.
- e. Replace in reverse order.

15. ICE MAKER — MODEL 48 — COMBO 19

- a. Remove formed rear panel.
- b. Disconnect 6 wires.
- Use Allen Wrench to remove 2 serews holding Ice Maker to left side wall.
- d. Remove 3 hex head screws from bottom insulator on Ice Maker.
- e. Carefully pry evaporator from Ice Maker.
- Pull out Ice Maker and wires from cabinet.
- g. Apply Alumislastic and reassemble.

16. ICE MAKER — MODEL 45

- a. Remove formed rear panel.
- b. Disconnect 6 wires.
- c. Use Allen Wrench to remove 2 screws holding Ice Maker to left side wall.
- d. Remove 3 hex head screws from bottom of Ice Maker.
- e. Carefully pull Ice Maker out of cabinet.
- f. Apply Alumilastic and assemble in reverse order.

17. TIMING CAM

- a. Remove front cover.
- b. Remove large white plastic gear.
- c. Remove mounting plate.
- d. Remove plastic timing cam.
- e. Grease new cam with silicone grease.
- f. Assemble in reverse order.

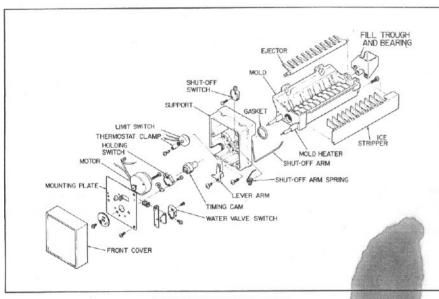


FIGURE 1 ICE MAKER ASSEMBLY

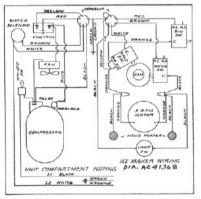


FIGURE 2 WIRING DIAGRAM

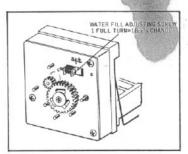


FIGURE 3 ADJUSTING WATER FILL

SERVICE POLICY

- 1. One Year Warranty on all parts, in accordance with the Written Limited Warranty Policy.
- 2. No Labor Allowance is given.
- 3. Five years on the Compressor only.
- 4. Limited Warranty expires 12 months after installation, IF the Warranty Card enclosed in the Ice Maker is filled out and returned to the factory.
- 5. Limited Warranty expires 14 months from the date of shipment from the factory, if the Warranty Card is **not** filled out and returned to the factory.
- 6. Optional One Year In-Home Service available.

USERS INSTRUCTIONS

Your new Ice Maker has been designed to provide a continuous and automatic supply of ice cubes. With normal use very little attention is required. The following suggestions are made for best results.

- Starting Since the Ice Maker must be connected to a water supply line it is possible that dirt or scale will be dislodged in the line. This will cause discolored and dirty cubes during the first few cycles. As a precaution we suggest you throw away all cubes made during the first two to three hours.
- 2. When the Ice Maker is full the ice making mechanism will shut off, but the refrigeration system will continue to cycle to maintain the cube supply. Under this condition the cubes may stick together, however, they may be separated easily by hand or with a blunt tool. NEVER USE AN ICE PICK, KNIFE, OR OTHER SHARP INSTRUMENT which may damage the plastic interior.
- If the Ice Maker is not used regularly we suggest that the ice be emptied periodically. (Every week to ten days) to insure fresh cubes.
- 4. AVOID SOLVENT CLEANING AGENTS, ABRASIVES, AND ALL CLEANERS THAT MIGHT IMPART TASTE TO THE ICE CUBES. The exterior may be cleaned with cleaners and polish as used on fine furniture. The condenser behind the grill should be cleaned periodically generally three to four times per year. To remove the grill, put fingers in the slot and lift up and out.
- 5. Do not use any type of electrical heater to defrost as it would damage the inner liner.

Shut-down — If the Ice Maker is to be shut off the switch located behind the grill (See Fig. 1) should be snapped off. The ice should be removed and the DOOR SHOULD BE PROPPED OPEN at least one inch to permit

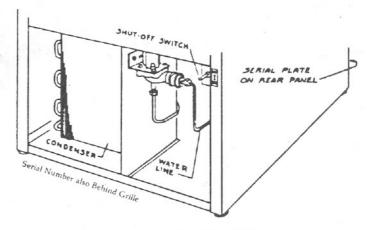
air circulation to dry the interior and prevent mold and odor.

INSTALLATION

This Ice Maker has been designed for either Free-Standing or Recessed installation.

For Free-Standing use, it is only necessary to provide a water supply and plug into the proper power source; 115 volts, 60 cycles, 15 P.S.I. minimum water pressure.

Run a 1/4" water line to the Ice Maker location. Start the tube through the hole in the Ice Maker back and bring it to the front and attach to the water valve.

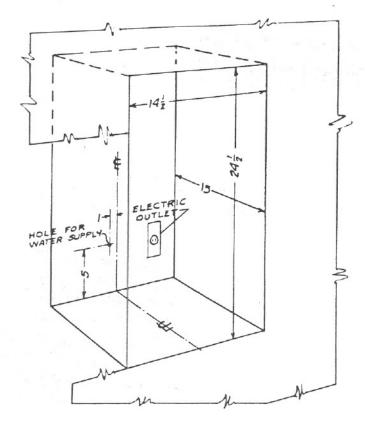


MODEL -45-48 - FIG. I

Take the compression nut and brass ring off the water valve in the machine compartment, slip the nut and then the sleeve over the 1/4" tube and bend the line into position and connect to the valve. (See Fig. 1)

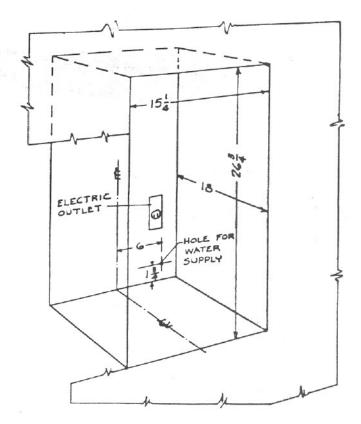
Plug in the power cord, turn on switch behind grill (See Fig. 1) and open water supply valve.

The compressor will start and as soon as the mold reaches the proper temperature the ice maker mechanism will fill the mold with water. The first cubes may be small because of air in the line, subsequent cubes will be of standard size. Approximate time for first cycle is 45 minutes.



MODEL 45 - WALL OPENING - FIG. 2

RECESSED — To recess Model 45 into a cabinet or into a wall, provide an opening 14½" wide, 24½" high, and 15½*" deep. The dimensions allow 1½" at the back of the Ice Maker for the water line and electric cord. (Fig. 2)



MODEL -48 - WALL OPENING - FIG. 3

RECESSED — To recess Model 48 into a cabinet or into a wall, provide an opening 15¼" wide, 26¾" high, and 18½"* deep. The dimensions allow 1½" at the back of the Ice Maker for the water line and electric cord. (Fig. 3)

CAUTION: THE ICE MAKER GRILL MUST BE FREE FROM ALL OBSTRUCTION. ANY INTERFERENCE WITH FREE AIR FLOW TO THE GRILL WILL CAUSE FAULTY OPERATION.

NOTE: On all correspondence regarding your Ice Maker be sure and show the Model and Serial Number. (See Fig. 1 for Serial Plate location.)

*Does not include 11/2" for door.

Limited Warranty

U-Line Corporation. Milwaukee, Wisconsin warrants each compressor to be free from factory defects within five years from the date of purchase. If a compressor proves to be defective within the five-year period, a replacement compressor will be supplied on a no-charge basis, but labor costs will not be paid for.

The mechanical system of your Ice Maker, Refrigerator or Freezer is warranted against defects in workmanship or material for a period of one year from date of purchase.

The attached Registration Card should be filled in and mailed back to the manufacturer promptly.

This warranty is extended to the original purchaser only.

Defective parts may be requested to be returned to the factory at Milwaukee, Wisconsin, P.O. Box 23220, for inspection. All transportation charges for replacement under this warranty must be borne by the purchaser.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO ONE YEAR FROM PURCHASE AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.

Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion 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.