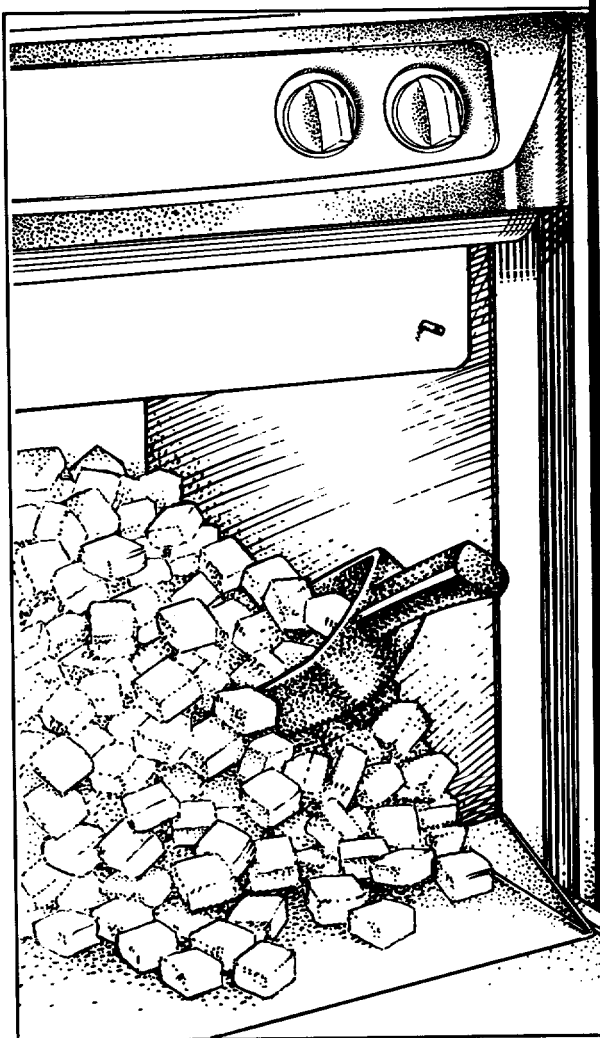


# Installation Instructions



**KitchenAid®**  
**FOR THE WAY IT'S MADE.™**

<b>Ice Maker Safety .....</b>	<b>2</b>
Before you plug it in .....	2
<b>General Information .....</b>	<b>3</b>
Unpack .....	3
Utilities required .....	3
Thermostat calibrations .....	4
Shipboard operation .....	4
<b>Installation .....</b>	<b>5</b>
Locate unit .....	5
Level unit .....	5
Connect to water .....	6
Connect to drain .....	7
Alternate drain method .....	7
Electrical requirements .....	8
Grounding method .....	8
<b>Changing the Bin Door</b>	
<b>Panel and Lower Panel .....</b>	<b>9</b>
<b>Operating Instructions .....</b>	<b>9</b>
<b>Check Operation .....</b>	<b>9</b>
<b>Things to Remember .....</b>	<b>10</b>
<b>How the Ice Maker</b>	
<b>Works .....</b>	<b>10</b>
<b>Unit Wiring Diagrams .....</b>	<b>11</b>

**1-800-422-1230**

Call our Consumer Assistance Center  
with questions or comments.

**KITCHENAID® Automatic Ice Maker**

**Model: KUIS185**

**PART NO. 2181133**

4-97

# Ice Maker Safety

## Before you plug it in

### Your safety and the safety of others is very important.

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



This is the safety alert symbol.

This symbol alerts you to hazards that can kill or hurt you and others.

All safety messages will be preceded by the safety alert symbol and the word "DANGER" or "WARNING." These words mean:

**⚠ DANGER**

You will be killed or seriously injured if you don't follow instructions.

**⚠ WARNING**

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

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

### IMPORTANT SAFETY INSTRUCTIONS

**WARNING** – To reduce the risk of fire, electric shock, or injury when using your ice maker, follow these basic precautions:

- Plug into grounded 3 prong outlet.
- Do not remove ground prong.
- Do not use an adapter.
- Do not use an extension cord.
- Disconnect power before cleaning.
- Disconnect power before servicing.
- Replace all panels before operating.
- Use two or more people to move or install ice maker.

**– SAVE THESE INSTRUCTIONS –**

# General Information

## ⚠ WARNING

### Excessive Weight Hazard

Use two or more people to move and install ice maker.

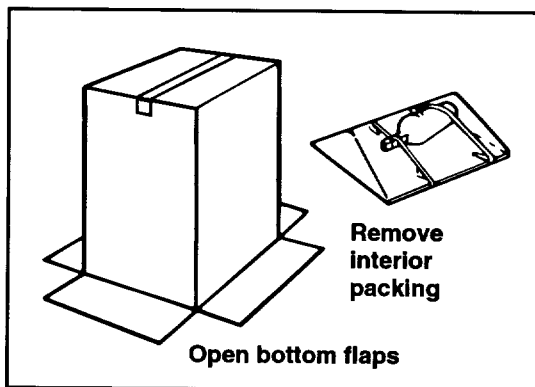
Failure to do so can result in back or other injury.

## Unpack

1. Lay carton on rear face and break open bottom flaps.
2. Set carton upright with all four flaps outward.
3. Lift carton up and off of machine.
4. Remove all tape and packaging materials from the outside and inside of the cabinet.

**NOTE:** The Installation Instructions are located in a plastic bag inside the ice bin.

5. Remove the lower access panel by removing the two screws securing the grille at the bottom and the one screw at the top, and lift it free of cabinet.
6. Turn the fan by hand to make certain it moves freely.
7. Loosen thumb screws holding cutter grid and water pan to "thumb tight."
8. Replace the lower access panel and the screws.

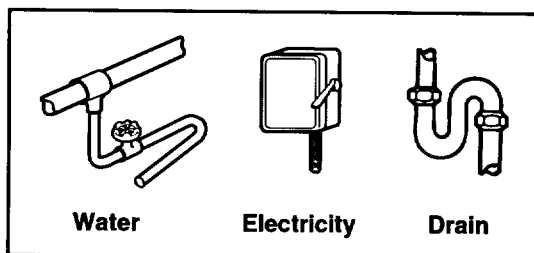


## Utilities required

(observe local codes)

Each installation is unique but will require:

1. A cold water inlet of 1/4" (6 mm) OD soft copper tubing and a shut-off valve.



continued on the next page



## General Information

2. A properly grounded 115 Volt, 60 Hz., AC only, 15 ampere fused electrical circuit, installed in accordance with the National Electrical Code and with local codes and ordinances.

**NOTE:** For proper location, see the Built-In Opening Dimensions diagram on page 6.

3. Either a gravity drain system or a sump pump to lift the water to an existing drain.

---

## Thermostat calibrations

If ice maker is to be operated at an elevation of 2,000 feet (600 m) or more above sea level, both the Bin Thermostat and the Ice Thickness Thermostat will need to be recalibrated. Call your dealer or an authorized service group to have the necessary changes made.

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## Shipboard operation

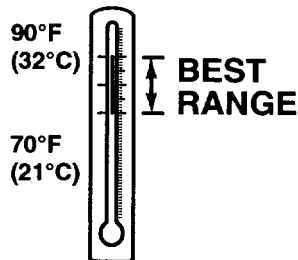
When this ice maker is installed aboard a ship, it may be necessary to purchase and install a water deflector. The deflector hangs between the lower edge of the evaporator and the cutter grid. It keeps the water flowing over the evaporator from spilling into the storage bin area. Order the necessary parts from your local ice maker dealer.

# Installation

## Locate unit

1. Place unit so the front side will be completely unobstructed to provide proper airflow.
2. Area should be well ventilated with temperature above 55°F (13°C) and below 110°F (43°C). Best results are obtained between 70°F (21°C) and 90°F (32°C).
3. Provisions for electricity, water, and drain connections should be determined.
4. The unit may be closed in on the top and three sides, but the front **must be** unobstructed for air circulation and proper operation. Installation should be such that the cabinet can be moved forward for servicing, if necessary.

This unit must be installed in an area protected from the elements, such as wind, rain, and water spray or drip.



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## Level unit

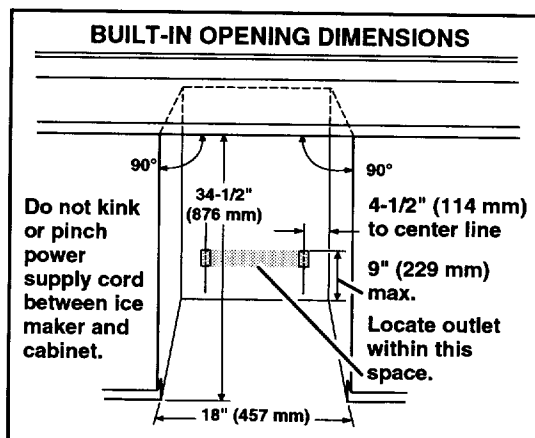
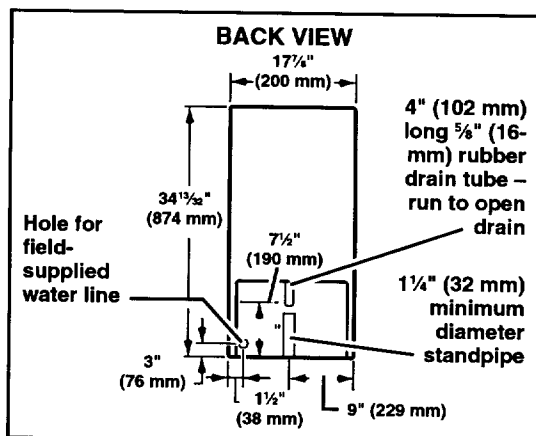
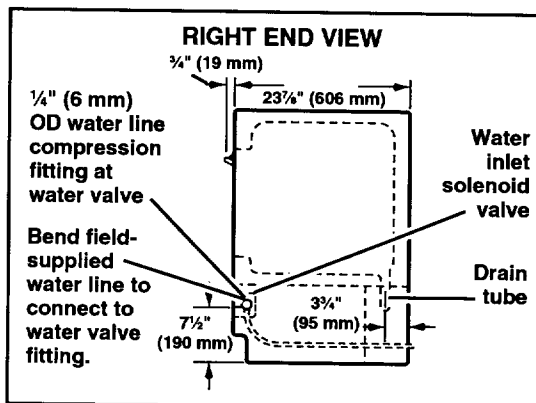
1. After placing unit in position, check to make certain the unit is level side-to-side and front-to-back.
2. Accurate leveling is essential for proper operation.
3. Unit should be shimmed so that it is solid as well as level. The shims should be of hard, permanent type material.
4. If you are installing this ice maker in a commercial setting that requires National Sanitation Foundation (NSF) installation procedures, NSF requires that the ice maker be sealed to the floor at the bottom rail. For compliance with this NSF sealing procedure, we recommend a silicone-type sealer.



## Connect to water

(observe local codes)

1. Use  $\frac{1}{4}$ " (6 mm) OD soft copper tubing for the cold water supply.
2. Provide a convenient manual shut-off valve in the water line.
3. Position the tubing so it can enter the access hole located in the right hand rear of the cabinet. The tubing should extend beyond the cabinet front when the cabinet is pushed back into position.
4. Always purge the water line before making the final connection to the inlet of the water valve to prevent possible water valve malfunction.
5. Slide the cabinet into place, bringing the tubing through the rear access hole. Bend the tubing to meet the connection at the water valve. The garden hose threaded compression fitting is found in the parts bag, which is shipped under the ice scoop. This joint provides a convenient disconnect for service. Be sure the tubing is clear of compressor to prevent rattle.



# **Connect to drain**

## **(observe local codes)**

1. The unit is provided with a gravity drain.
2. The ideal installation has a standpipe (1¼" [32 mm] minimum) installed directly below the outlet of the drain tube. Refer to figures on the previous page for the proper location of the standpipe.
3. It may be desirable to insulate drain line thoroughly up to drain inlet.
4. Replace the lower access panel and its screws.

---

## **Alternate drain method**

If a drain connection directly below the drain tube outlet is not available, install a drain pump in the rear compartment of the ice maker. The drain pump must meet these specifications:

- It must be U.L.-listed and have a U.L.-listed, 120 VAC, 3-wire, grounded power supply cord.
- Overall maximum outside dimensions: 15" (381 mm) wide x 6" (152 mm) deep x 9-½" (241 mm) high.
- Minimum pump flow rate: 24 gallons (91 L) per hour (0.4 gallons [1.5 L] per minute) at 12 feet (3.7 m) lift.
- Operating temperature range: 55°F (13°C) to 110°F (44°C).

# ⚠ WARNING



## Electrical Shock Hazard

Plug into a grounded 3 prong outlet.

Do not remove ground prong.

Do not use an adapter.

Do not use an extension cord.

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

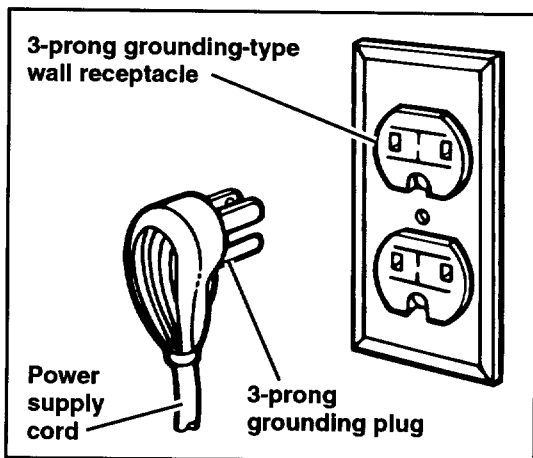
## Electrical requirements

A 115 Volt, 60 Hz., AC only, 15 ampere fused electrical supply circuit, properly grounded in accordance with the National Electrical Code and local codes and ordinances is required.

It is recommended that a separate circuit, serving only this appliance, be provided. Use a receptacle which cannot be turned off with a switch or pull chain. **Do not** use an extension cord.

## Grounding method

For your personal safety, this appliance must be grounded. This appliance is equipped with a power supply cord which has a 3-prong grounding plug. To minimize possible shock hazard, the cord must be plugged into a mating 3-prong grounding type wall receptacle, grounded in accordance with the National Electrical Code and local codes and ordinances. If a mating wall receptacle is not available, it is the personal responsibility and obligation of the customer to have a properly grounded 3-prong wall receptacle installed by a qualified electrician.





# Changing the Bin Door Panel and Lower Panel

For complete information on how to change the bin door panel and lower panel, refer to the Use and Care Guide.

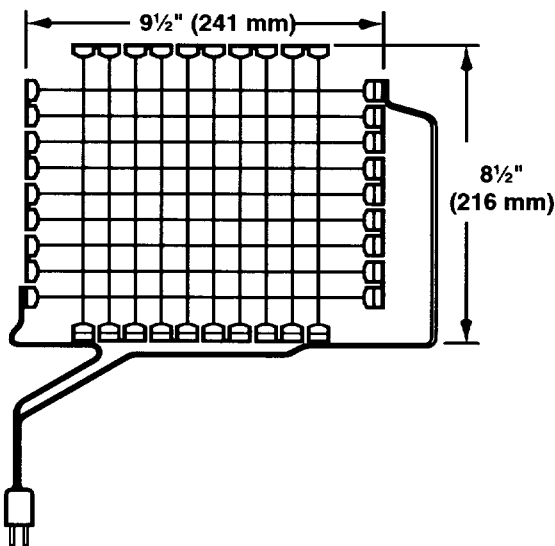
## Operating Instructions

- For complete operation information, refer to the Use and Care Guide.
- Before starting, wash out interior of cabinet with a baking soda solution (2 tablespoons [26 g] soda to 1 quart [1 L] of warm water). Rinse thoroughly.
- Make certain the water is turned on.
- Turn switch to the "ON" position.

**IMPORTANT:** Allow unit to run for 3 hours before expecting ice and for 24 hours before trying to set the thickness control.

### Cutter grid

$\frac{3}{4}$ " x  $\frac{3}{4}$ " (19 mm x 19 mm)



## Check Operation

- ✓ Start the unit by turning the service switch to "ON" and opening the line water valve.
- ✓ **NOTE:** Left is "OFF" – Middle is "ON" – Right is "CLEAN." In "CLEAN" position, only the pump operates.
- ✓ Water will not enter pump pan until freezing plate gets cold and machine goes into a harvest cycle.
- ✓ Use a flashlight to look through space between the cutter grid and liner to check for even water flow over freezing plate. Unit must be level for proper operation.
- ✓ Check for desired cube thickness and after 24 hours adjust if necessary. Maximum ice yield will be obtained with ice thickness at ½" (13 mm) to ⅝" (16 mm).

# Things to Remember

- Water enters only during the defrost cycle. Therefore the first cycle will be completed without water in the system.
- As the room and water temperatures vary, so will the amount of ice produced. This means that higher operating temperatures will result in reduced ice production.
- The unit will shut off when ice in the storage bin touches the bin thermostat well and will automatically cycle to keep the bin full.
- The storage bin is not refrigerated and some melting will occur. This also varies with the room temperature.
- The unit needs good air circulation to perform efficiently. Keep the front grille and the condenser clean.
- The water system needs to be cleaned periodically for good circulation. Instructions are located in the Use and Care Guide.

# How the Ice Maker Works

- Compressor runs
- Condenser fan runs
- Water pump runs (circulates water)
- Cutter grid is warm to touch

**When the desired ice slab thickness is reached, the harvest cycle begins and the following happens:**

- Evaporator thermostat is satisfied
- Compressor keeps running
- Condenser fan stops or turns very slowly
- Water pump stops
- Hot gas solenoid opens

- Water inlet valve opens
- Excess water is flushed out of the drain pan
- Cutter grid is warm to the touch

**NOTE:** Normal harvest cycle takes 1 to 2 minutes.

**Machine resumes freezing after slab is released from evaporator and the cutting process begins.**

**When the storage bin is filled, bin thermostat opens.**

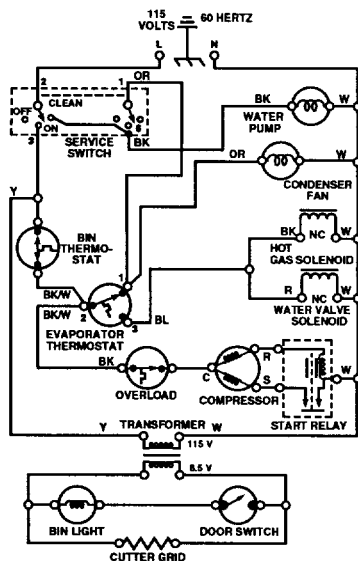
- Cutter grid remains on

# Unit Wiring Diagrams

This model operates at 115 volts except for the cutter grid circuit which operates at 8.5 volts at 1 amp. Maximum fuse size should be 15 amps.

The compressor runs at all times except when the Bin Thermostat becomes satisfied and opens the circuit. This de-energizes the system except for the transformer and cutter grid.

Under normal operating conditions, when the evaporator reaches the preset temperature ( $+10^{\circ}$  to  $-3^{\circ}\text{F}$  [ $-12^{\circ}$  to  $-19^{\circ}\text{C}$ ], depending on thickness of ice) the evaporator thermostat opens, terminating operation of the fan motor and pump motor. The hot gas solenoid and the water valve solenoid are energized at this time and remain so until the evaporator reaches  $38^{\circ} + 2^{\circ}\text{F}$  ( $3^{\circ} + 1^{\circ}\text{C}$ ).



COLOR	
R	RED
BK	BLACK
BL	BLUE
W	WHITE
Y	YELLOW
OR	ORANGE
BK/W	BLACK TRAIL
G/Y	GREEN YELL
TR	TRAIL

## ⚠ WARNING



### Electrical Shock Hazard

**Disconnect power before servicing.**  
**Replace all panels before operating.**  
**Failure to do so can result in death or electrical shock.**

