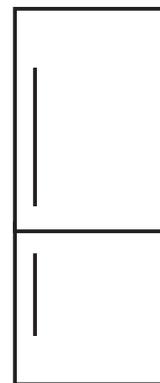


# BEDIENUNGSANWEISUNG

mit Montageanweisungen

# INSTRUCTIONS FOR USE

and installation



Lesen Sie unbedingt die Gebrauchsanleitung und den Montageplan vor Aufstellung, Installation sowie Inbetriebnahme.

Please read the users and installation instructions carefully before installation of the appliance and before starting to use it.

## **Service und Kundendienst**

Telefon: 0209 – 401 631

Email: [kundendienst@kueppersbusch.de](mailto:kundendienst@kueppersbusch.de)

**Küppersbusch**  
FÜR KÜCHEN MIT STIL

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Write the model and serial numbers here:

Model number: \_\_\_\_\_

Serial number: \_\_\_\_\_

Find these numbers on a label inside the refrigerator compartment on top right side.

## IMPORTANT SAFETY INFORMATION

Read all instructions before using.

### WARNING!

Use this appliance only for its intended purpose as described in this Owner's Manual.



### SAFETY PRECAUTIONS

When using electrical appliances, basic safety precautions should be followed, including:

This refrigerator must be properly installed and located in accordance with the installation instructions before it is used. Do not allow children to climb, stand or hand on the shelves in the refrigerator. They could damage the refrigerator and seriously injure themselves. Children should be supervised to ensure that they do not play with appliance. Do not touch the cold surfaces in the freezer compartment when hands are damp or wet. Skin may stick to these extremely cold surfaces. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. In refrigerators with automatic ice makers, avoid contact with the moving parts of the ejector mechanism, or with the heating element located on the bottom of the ice maker. Do not place fingers or hands on the automatic ice maker mechanism while the refrigerator is plugged in. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Keep fingers out of the "pinch point" areas; clearances between the doors and between the doors and cabinet are necessarily small. Be careful closing doors when children are in the area. Unplug the refrigerator before cleaning and making repairs.

**Note:** We strongly recommend that any servicing be performed by a qualified individual.

Setting the cooling system to 0 does not turn off power in the circuit.

Do not refreeze frozen foods which have thawed completely.



### DANGER! RISK OF CHILD ENTRAPMENT

*Proper disposal of the refrigerator.*

Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous, even if they will sit for "just a few days". If you are getting rid of your old refrigerator please follow the instructions below to help prevent accidents.

### **Before You Throw Away Your Old Refrigerator or Freezer:**

- Take off the doors.
- Leave the shelves in place so that children may not easily climb inside.

### **CFC Disposal**

Your old refrigerator may have a cooling system that used CFCs (chlorofluorocarbons). CFCs are believed to harm stratospheric ozone. If you are throwing away your old refrigerator, make sure the CFC refrigerant is removed for proper disposal by a qualified service. If you intentionally release this CFC refrigerant, you can be subject to fines and imprisonment under provisions of environmental legislation.



### USE OF EXTENSION CORDS

Because of potential safety hazards under certain conditions, we strongly recommend against the use of an extension cord. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

## IMPORTANT SAFETY INFORMATION

Read all instructions before using.



### WARNING! HOW TO CONNECT ELECTRICITY

**Do not, under any circumstances, cut or remove the third (ground) prong from power cord. For personal safety, this appliance must be properly grounded.**

The power cord of this appliance is equipped with a grounding plug which mates with a standard grounding wall outlet to minimize the possibility of electric shock hazard from this appliance. Have the wall outlet and circuit checked by a qualified electrician to make sure that outlet is properly grounded.

If the outlet is a standard non grounding outlet, it is your personal responsibility and obligation to have it replaced with a properly grounded wall outlet. The refrigerator should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating plate. This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires. Never unplug your refrigerator by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet. Repair or replace immediately all power cord that have become frayed or other wise damaged. Do not use a cord that shows cracks or abrasion damage along its length or at either end. When moving the refrigerator away from the wall, be careful not to roll over or damage the power cord.

*If the supply cord damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.*



## USE OF ADAPTER PLUGS

*Because of potential safety hazards under certain conditions, we strongly recommend against the use of an adapter plug.*

However, if you must use an adapter, where local codes permit, a temporary connection may be made to a properly grounded 2-prong wall outlet by use of an adapter available at most local hardware stores. The larger slot in the adapter must be aligned with the larger slot in the wall outlet to provide proper polarity in the connection of the cord. When disconnecting the power cord from the adapter, always hold the adapter in place with one hand while pulling the power cord plug with the other hand. If this is not done, the adapter ground terminal is very likely to break with repeated use.

If the adapter ground terminal breaks, **DO NOT** use the refrigerator until a proper ground has been established. Attaching the adapter ground terminal to a wall outlet cover screw does not ground the appliance unless the cover screw is metal, and not insulated, and the wall outlet is grounded through the house wiring. You should have the circuit checked by a qualified electrician to make sure the outlet is properly grounded.

## RECOMMENDATIONS FOR YOUR SAFETY AND FOR YOUR REFRIGERATOR

**DO NOT** store effervescent liquids in the freezer in airtight containers or glass can break and cause an accident. Some products such as particles ice should not consumed very cold.

**DO NOT** store toxic products, flammable products,

scientific experiments or medicine mixed with food, they can pollute the food.



## READ AND FOLLOW THIS SAFETY INFORMATION CAREFULLY

*Save these instructions.*

## NOTES ON THE CONTAINMENT OF FLUORINATED GREENHOUSE GASES *(On some models)*

Contains fluorinated greenhouse gases by the Kyoto Protocol.

Gas: R134a (HFC-134a),

GWP (Global Warming Potential)=1300.

Hermetically sealed.

*The amount of R134a gas in this product is:  
0,127 - 0,184 Kg*

## WARNING - R600A REFRIGERANT *(On some models)*

**Warning:** *This appliance contains isobutane refrigerant, R600a, a natural gas with high environmental compatibility. However it is also combustible. Please adhere to the warnings below:*

1. When handling, installing and operating the appliance, care should be taken to avoid damage to the refrigerant tubing.
2. Servicing shall be performed by factory-authorized service personnel and component parts shall be replaced with manufacturer-authorized replacement components.
3. Refrigerant products contain refrigerants, which under federal law must be removed prior to product disposal.
4. Keep ventilation openings in the appliance enclosures or in the built-in structure clear of obstruction.
5. Do not use mechanical devices or other means to accelerate the defrosting process.
6. Do not damage refrigerant circuit.
7. Do not use electrical appliances inside the food storage compartment of the appliance.

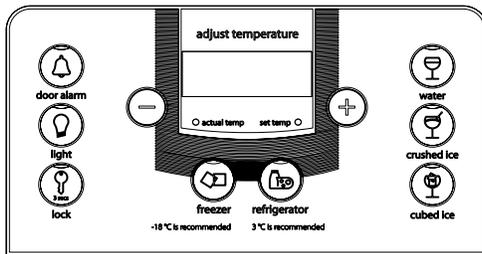
# ABOUT THE TEMPERATURE CONTROLS

## To run your refrigerator:

- Connect the power supply.
- Select the temperature control.
- To adjust the temperature of your refrigerator in accordance with the amount of your food and climate of your city. The temperature controls are preset in the factory at 3°C (37°F) for the refrigerator compartment and -18°C (0°F) for the freezer compartment.

Allow 24 hours for the temperature to stabilize to the preset recommended settings.

Refrigerator temperatures can be adjusted between 1°C and 7°C (34°F to 44°F), and the freezer temperatures can be adjusted between -21°C and -14°C (-6°F to 6°F).



**Note:** The refrigerator is shipped with protective film covering the temperature controls. If this film was not removed during installation, remove it now.

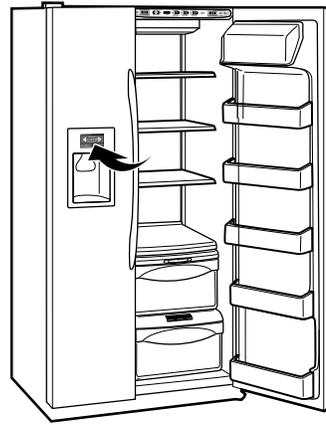
## To change the Refrigerator room temperature:

To adjust the Actual Temp Control temperature, first press the **Freezer (Temperature)** or **Refrigerator (Temperature)** button. Then press **WARMER (+)** or **COLDER (-)** to increase or decrease temperature to the desired setting. Once the desired temperature has been set, the temperature display will return to the actual refrigerator and freezer temperatures after 5 seconds.

Several adjustments may be required. Each time you adjust the control, allow 24 hours for the refrigerator to reach the temperature you have set. The temperature controls can display both the SET temperature as well as the actual temperature in the refrigerator and freezer. The actual temperature may vary slightly from the temperature based on usage and operating environment.

## Turning the cooling system off

Setting either or both controls to 0 stops cooling in both the freezer and refrigerator compartments, but does not shut off electrical power to the refrigerator. When the unit is turned back on, it will take up to 24 hours to stabilize.



## Ambient Temperature Limits

This refrigerator is designed to operate in ambient temperatures specified by its *Temperature Class*, which is marked on the next tables.

**Note:** Internal temperature may be affected by such factors as the location of the refrigerator, ambient temperature and frequency of door openings. Adjust temperature controls as required to compensate for these factors.

Temperature Class	Symbol	Ambient Temperature	
		Maximum	Minimum
Extended Temperate	SN	+32°C	+10°C
Temperate	N	+32°C	+16°C
Subtropical	ST	+38°C	+16°C
Tropical	T	+43°C	+16°C

## DEFROST

### No frost models

The models are completely automatic and require no user intervention to thaw it. The refrigerator is automatically thawed.

### Defrost process

During the defrost process, the frost, mainly because of door openings and moisture removed from food, is eliminated. This refrigerator never should have ice on the freezer because that would imply a problem in the apparatus.

## ABOUT THE AUTOMATIC ICE MAKER

*A newly installed refrigerator may take 12 to 24 hours to begin making ice.*

**Warning:** *Connect only to a potable water supply. Installation must be done by a qualified person.*

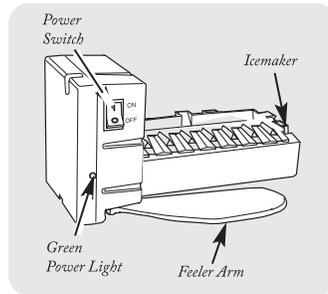
### **Automatic Ice maker**

The ice maker will produce seven cubes per cycle approximately 100–130 cubes in a 24 hour period, depending on freezer compartment temperature, room temperature, number of door openings and other use conditions.

If the refrigerator is operated before the water connection is made to the ice maker, set the power switch in the **O** (off) position.

When the refrigerator has been connected to the water supply, set the power switch to the **I** (on) position.

**Note:** *In homes with lower-than-average water pressure, you may hear the ice maker cycle multiple times when making one batch of ice.*



The ice maker will fill with water when it cools to -10°C (15°F). A newly installed refrigerator may take 12 to 24 hours to begin making ice cubes.

You will hear a buzzing sound each time the ice maker fills with water.

Throw away the first few batches of ice to allow the water line to clear.

Be sure nothing interferes with the sweep of the feeler arm. When the bin fills to the level of the feeler arm, the ice maker will stop producing ice. It is normal for several cubes to be joined together.

If ice is not used frequently, old ice cubes will become cloudy, taste stale and shrink.

### **Special note about dispenser models:**

Dispenser models have an ice bin. The bin can be pulled out as shown in the illustrations, and it will hold itself up while you take ice out or turn the ice maker power switch on and off. Be sure to put the ice bin back in place before closing the door.

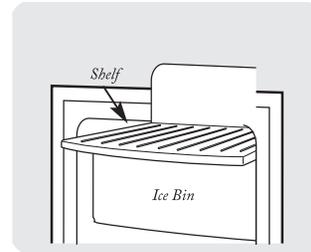
**To restore your ice level from an empty bucket stage, the following steps are recommended:**

1. 12 hours after the first batch of ice has fallen into the bin, dispense 3 to 4 cubes.
2. After additional 6 hours, dispense 3 to 4 cubes again.

These steps will restore your ice level in the shortest amount of time.

### **To access the ice maker**

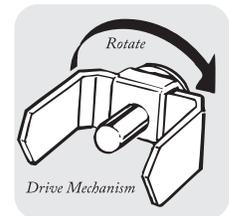
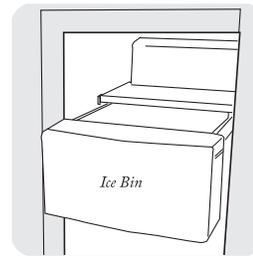
Pull the upper freezer shelf straight out to access the ice maker. Always be sure to replace the shelf. The shelf can be used for storage.



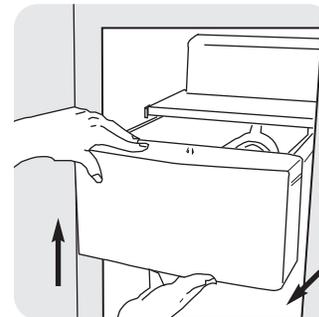
### **Ice bin**

*To access ice, pull the drawer forward.*

*To remove the bin, pull it straight out and lift it past the stop location. Be sure the ice maker is turned off.*



When replacing the ice bin, always be sure to press it firmly into place. If it does not go all the way back, remove it and rotate the drive mechanism 1/4 turn. Then push the bin back again.



## ABOUT THE ICE AND WATER

### DISPENSER

(on some models)

#### To use the dispenser

Select **CUBED ICE**, **CRUSHED ICE** or **WATER**. Press the glass gently against the top of the dispenser cradle. The spill shelf is not self-draining. To reduce water spotting, the shelf and its grill should be cleaned regularly. If no water is dispensed when the refrigerator is first installed, there may be air in the water line system. Press the dispenser arm for at least two minutes to remove trapped air from the water line and to fill the water system. To flush out impurities in the water line, throw away the first six glassfuls of water.

**Caution:** Never put fingers or any other objects into the ice crusher discharge opening.



#### Locking the dispenser

Press the **LOCK (CONTROL)** pad for 3 seconds to lock the dispenser and control panel. To unlock, press and hold the pad again for 3 seconds.

#### Dispenser Light

The **LIGHT** pad turns the night light in the dispenser on and off. The light also comes on when the dispenser cradle is pressed.

#### Quick Ice (on some models)

When you need ice in a hurry, press the **QUICK ICE** pad to speed up ice production. This will increase ice production for the following 48 hours or until you press the pad again.

#### Door Alarm

To set the alarm, press the **DOOR ALARM** pad until the indicator light comes on. This alarm will sound if either door is open for more than 3 minutes. The light turns off and the beeping stops when you close the door.

#### Important facts about your dispenser

Do not add ice from trays or bags to the Ice bin. It may not crush or dispense well. Avoid overfilling glass with ice and use of narrow glasses. Backed-up ice can jam the chute or

cause the door in the chute to freeze shut. If ice is blocking the chute, poke it through with a wooden spoon. Beverages and foods should not be quick chilled in the ice storage bin. Cans, bottles or food packages in the storage bin may cause the ice maker or auger to jam. To keep dispensed ice from missing the glass, put the glass close to, but not touching, the dispenser opening.

Some crushed ice may be dispensed even though you selected **CUBED ICE**. This happens occasionally when a few cubes accidentally get directed to the crusher. After crushed ice is dispensed, some water may drip from the chute. Sometimes a small mound of snow will form on the door in the ice chute. This condition is normal and usually occurs when you have dispensed crushed ice repeatedly. The snow will eventually evaporate.

## ABOUT THE WATER FILTER

(on some models)

#### Water Filter Cartridge

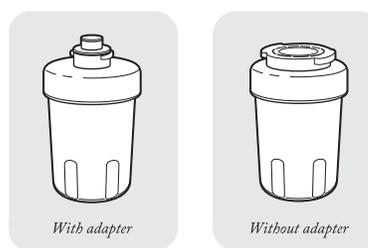
The water filter cartridge is located in the back upper right corner of the refrigerator compartment.

#### When to Replace the Filter

The filter cartridge should be replaced every six months or earlier if the flow of water to the water dispenser or ice maker decreases. On models with a replacement indicator light, this light will turn orange to tell you need to replace the filter.

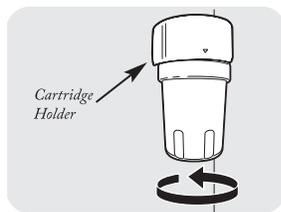
#### Removing the Filter Cartridge

If you are replacing the cartridge, first remove the old one by slowly turning it to the left. **Do not** pull down on the cartridge. A small amount of water may drip down.



Appearance may vary

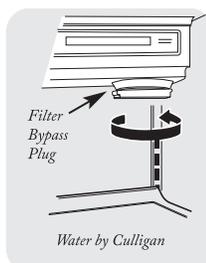
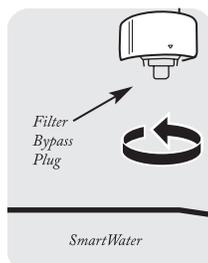
1. If you are replacing a **SmartWater** cartridge with an adapter, it must be removed before installing the cartridge. To remove the adapter, turn it to the left about 1/4 turn. If you are replacing a **Water by Culligan** cartridge, leave the adapter in place. This adapter will stay in the refrigerator when you replace future cartridges.
2. Apply the month and year sticker to the new cartridge to remind you to replace the filter in six months.
3. Fill the replacement cartridge with water from the tap to allow for better flow from the dispenser immediately after installation.
4. Line up the arrow on the cartridge and the cartridge holder. Place the top of the new cartridge up inside the holder. **Do not push it** into the holder.
5. Slowly turn it to the right until the filter cartridge stops. **Do not overtighten**. As you turn the cartridge, it will automatically raise itself into position. The cartridge will move about 1/2 turn.



6. Run water from the dispenser for 3 minutes (about 6 liters) to clean the system and prevent sputtering.
7. Press and hold the **RESET FILTER** pad (on some models) on the dispenser for 3 seconds.

### Filter Bypass Plug

You must use the filter bypass plug when a replacement filter cartridge is not available. The dispenser and the icemaker will not operate without the filter or filter bypass plug.

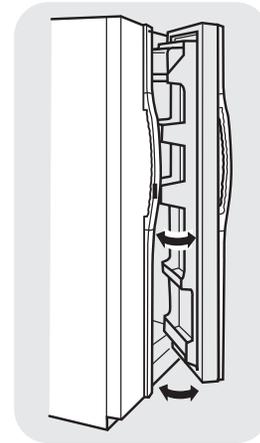


To use the filter bypass plug on **Water by Culligan** models, you must first remove the filter adapter from the cartridge holder by turning it to the left.

**Warning:** Connect to potable water supply only.

## ABOUT THE REFRIGERATOR DOORS

The refrigerator doors may feel different than the ones you are used to. The special door opening/closing feature makes sure the doors close all the way and are securely sealed. When opening and closing the door you will notice a **stop** position. If the door is opened past this **stop** point, the door will remain open to allow you to load and unload food more easily. When the door is only partially open, it will automatically close. When the door is only partially open, it will automatically close. Beyond this **stop** the door will stay open.



**Note:** The resistance you feel at the stop position will be reduced as the door is loaded with food.

## ABOUT THE SHELVES AND BINS

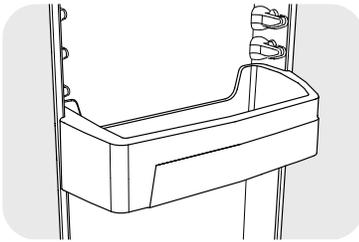
*Not all features are on all models*

### Refrigerator door bins and freezer shelves

#### Module bins

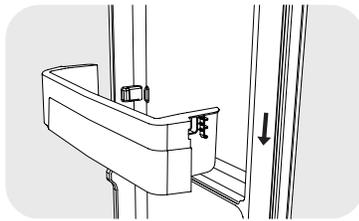
The larger refrigerator door bins are adjustable. To remove, lift the front of the bin straight up, then lift up and out.

To replace or relocate, engage the back side of the bin in the molded supports of the door. Then push down on the front of the bin. Bin will lock in place.



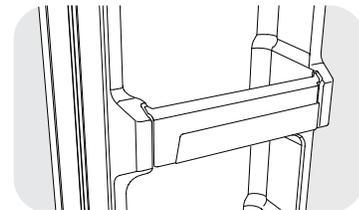
#### Fixed bins

To remove, lift the shelf straight up then pull it out. To replace, engage the shelf in the molded supports on the door and push in. It will lock in place.

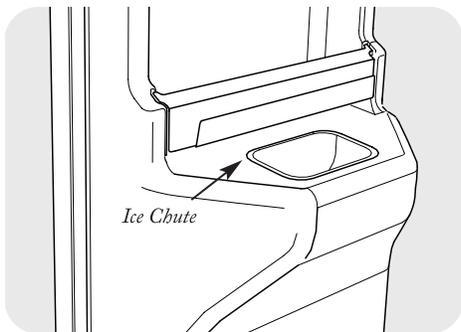


#### Freezer shelves

To remove lift the shelf straight up then pull it out. To replace engage the shelf in the molded supports on the door and push in. It will lock in place.



**Caution:** Be careful when placing items in the top shelf. Make sure that items do not block or fall into the ice chute.

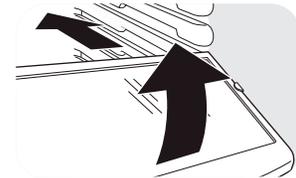
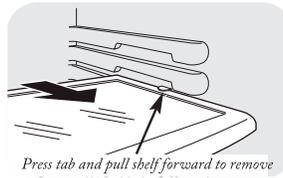


#### Slide-Out Spill proof Shelf

The slide-out spill proof shelf allows you to reach items stored behind others. The special edges are designed to help prevent spills from dripping to lower shelves.

To remove slide the shelf out until it reaches the stop, then press down on the tab and slide the shelf straight out.

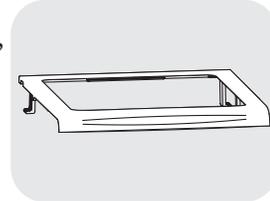
To replace or relocate, line the shelf up with the supports and slide it into place. The shelf can be repositioned when the door is at 90° or more. To reposition the shelf, slide the shelf past the stops and angle downward. Slide the shelf down to the desired position, line up with the supports and slide into place.



*Make sure you push the shelves all the way back in before you close the door.*

#### Freezer shelves

To remove, take away all the food, slide out to the top position, lift the front past the stop position, and slide out. Make sure you push the shelves all the way back in before you close the door. On models without dispenser, there is a fixed shelf, to remove lift the shelf front and pull it out, to replace, engage the shelf supports and push down on the shelf front. It will lock in place.

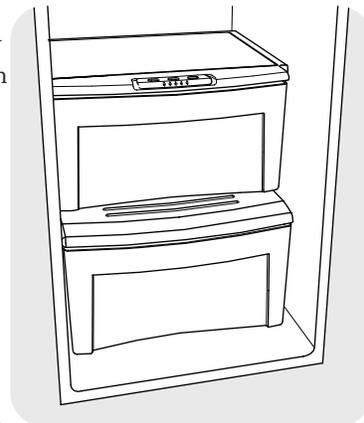


*Make sure you push the shelves all the way back in before you close the door.*

## ABOUT THE PANS

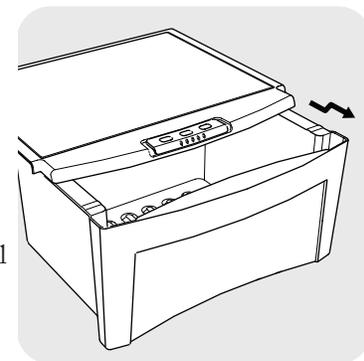
#### Fruit and vegetable pans

Excessive water that may accumulate in the bottom of the pans should be wiped dry.



#### Pans removal

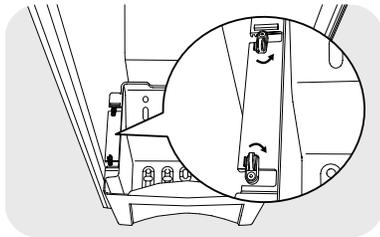
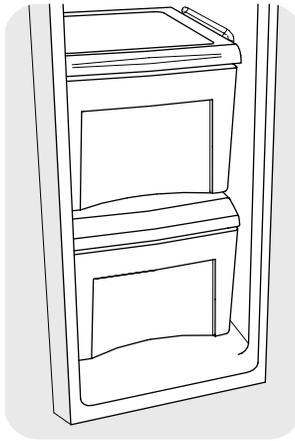
Both pans can easily be removed by pulling the pan straight out and lifting the drawer up and over the stop location. If the door prevents you from taking out the pans, first try to remove the door bins. If this does not offer enough clearance, the refrigerator will need to be rolled forward until the door opens enough to slide the pans out. In some cases, when you roll the refrigerator out, you will need to move the refrigerator to the left or right as you roll it out.



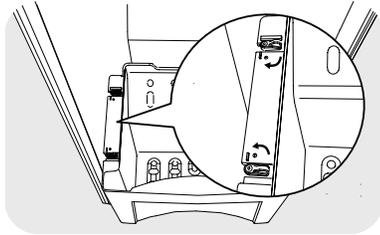
### Freezer pans

Pull the drawer out to the stop position, rotate all four swing locks to the unlock position and lift the front of the pan up and out.

To replace make sure all four swing locks are in the unlock position, place the sides of the drawer into the drawer supports, making sure the swing locks fit on the drawer slots and lock all four swing locks by rotating them to the lock position.



To remove



To replace

## MAXIMUM STORAGE CAPACITY

Refrigerator slide-out shelf	20 Kg
Module bin	7 Kg
Fixed bin	4 Kg
Refrigerator upper pan	20 Kg
Refrigerator bottom pan	8 Kg
Big freezer shelf	16 Kg
Small freezer shelf	8 Kg
Freezer shelf	3 Kg
Freezer upper pan	9 Kg
Freezer bottom pan	3 Kg

## ESTIMATED SHELF STORAGE AREA

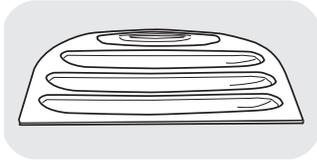
Capacity	Storage Area dm <sup>2</sup>
22'	176

**Note:** Values can change according to the model.

# CARE AND CLEANING OF THE REFRIGERATOR

## *Cleaning the Outside*

**The dispenser drip area** (on some models) beneath the grille, should be wiped dry. Water left in this area may leave deposits. Remove the deposits by adding undiluted vinegar to the well. Soak until the deposits disappear or become loose enough to rinse away.



**The dispenser cradle** (on some models) before cleaning, lock the dispenser by pressing and holding the **LOCK CONTROL** pad for 3 seconds. Clean with warm water and baking soda solution, about a table spoon (15 ml) of baking soda to a 1/4 liter of water. Rinse thoroughly and wipe dry.

**The door handles and trim** clean with a cloth dampened with soapy water. Dry with a soft cloth.

**The stainless steel panels and door handles** (on some models) can be cleaned with a commercially available stainless steel cleaner.

*Do not use appliance wax or polish on the stainless steel.*

**Keep the outside clean.** Wipe with a clean cloth lightly dampened with kitchen appliance wax or mild liquid dish detergent. Dry and polish with a clean, soft cloth.

*Do not wipe the refrigerator with a soiled dishcloth or wet towel. These may leave a residue that can erode the paint. Do not use scouring pads, powdered cleaners, bleach or cleaners containing bleach because these products can scratch and weaken the paint finish.*

## *Cleaning the Inside*

To help prevent odors, leave an open box of baking soda in the fresh food and freezer compartments.

**Unplug the refrigerator before cleaning**, if this is not practical, wring excess moisture out of sponge or cloth when cleaning around switches, lights or controls. Use warm water and baking soda solution, about a table spoon (15 ml) of baking soda to 1/4 liter of water. This both clean and neutralizes odors. Rinse and wipe dry.

Use of any cleaning solution other than that which is recommended, especially those that contain petroleum distillates, can crack or damage the interior of the refrigerator. Avoid cleaning cold glass shelves with hot water because the extreme temperature difference may cause them to break. Handle glass shelves carefully. Bumping tempered glass can cause it to shatter. Do not wash any plastic refrigerator parts in the dish washer.

## *Behind the Refrigerator*

Be careful when moving the refrigerator away from the wall. All types of floor coverings can be damaged, particularly cushioned coverings and those with embossed surfaces. Pull the refrigerator straight out and return it to position by pushing it straight in. Moving the refrigerator in a side direction may result in damage to the floor covering or refrigerator.

*When pushing the refrigerator back, make sure you do not roll over the power cord or ice maker supply line (on some models).*

## *Preparing for Vacation*

For long vacations or absences, remove food and unplug the refrigerator. Clean the interior with a baking soda solution of one tablespoon (15 ml) of baking soda to 1/4 liter of water. Leave the doors open.

If the temperature can drop below freezing, have a qualified service drain the water supply system (on some models) to prevent serious property damage due to flooding.

*Set the ice maker power switch to the O (off) position and shut off the water supply to the refrigerator.*

## *Preparing to Move*

Secure all loose items such as shelves and pans by taping them securely in place to prevent damage. When using a hand truck to move the refrigerator, do not rest the front or back of the refrigerator against the hand truck. This could damage the refrigerator. Handle only from the sides of the refrigerator.

*Be sure the refrigerator stays in an upright position during moving.*

## *Recommendations for energy savings*

During a power outage prevented open doors, this will help keep more time the internal temperature. Do not locate the refrigerator near sources heat (furnaces, stoves, air or put the direct rays of the sun) as this affects performance, internal temperature and power consumption. Do not overfill the refrigerator with food, leave space between packages, and use the grills that are provided for support them, in this way facilitates air circulation and prevents a needed low yield. Open the doors on fewer times as possible. Check that the door remains closed.

## RECOMMENDATIONS TO KEEP YOUR FOOD

All foods stored in your refrigerator must be packed in aluminum foil, or plastic containers with lids to keep their freshness and prevent contamination between different kind of food. The maturity date of the food is not changed by being frozen, be precaution to avoid excessive freezing time of food. See quick reference in the following table:

**Beef:** Stuff the freezer refrigerator and then leave it for a while at room temperature environment for later cooking.

**Fish:** First pass of the freezer refrigerator and cook before they thaw completely.

**Vegetables:** Do not wait until it is thawed, put them directly into boiling water and cook as usual.

**Fruits:** Stuff the freezer to the fridge Never refreeze foods thawed to avoid risks decomposition.

Some types of vegetables, fruits and vegetables fresh, sensitive to cold and should be stored on the trays for vegetables.

To retain more moisture in plant green leaves close and open it for more control movement of cold, dry air and keep better.

Conservation of frozen food guide					
Time	1 month	3 months	6 months	9 months	12 months
Foods	Sausages, ham, ice cream and desserts	Fish, shrimp, and prawns	Pork	Fruit pulp and vegetables	Chicken and beef

## ABOUT THE FREEZER COMPARTMENT

- Load so that at least 15 mm of space remains clear between stacks of packages and 15 mm to 25 mm of space between the top of any stack and any shelf or basket above it.
- Food to be frozen must not be placed in direct contact with food in storage. If food is to be frozen every day, it may be necessary to reduce the quantity to be frozen.
- If a quantity of food needs to be frozen, set the freezer control to its coldest setting. After the food is frozen, reset the freezer control to its initial position.
- Food is most quickly frozen on the middle three shelves of the freezer compartment and most slowly in the freezer door shelves.
- Do not store commercially quick-frozen food longer than the time recommended by the food manufacturers.
- If the power to the appliance is shut off for an extended time or if the refrigerating system fails, do not open the door unless absolutely necessary, close them as quickly as possible so the frozen food will stay frozen as long as possible.

- The freezer door storage shelves marked with a two-star label are only appropriate for the storage of previously frozen food.
- *Effervescent drinks should not be stored in the freezer compartment.*

### Freezer Performance

This Refrigerator/Freezer has an overall "Four Star"  rating.

Freezer performance is classified by star ratings defined by IEC 62552 and summary below:

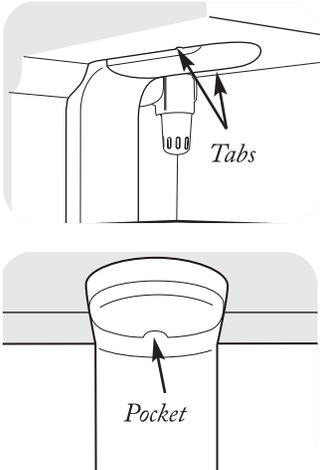
CODE	FREZING-LOAD TEMP. (FOOD TEMPERATURE)
	Below -6°C
	Below -12°C
 	Below -18°C

# REPLACING THE LIGHT BULBS

Setting the controls to 0 does not remove power to the power circuit.

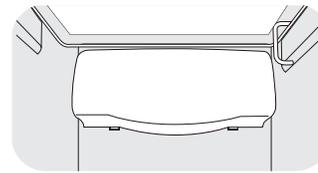
## Refrigerator Compartment, upper light

1. Unplug the refrigerator.
2. The bulbs are located at the top of the compartment, inside the light shield. On some models, a screw at the front of the light shield will have to be removed. On other models, the screw is located in the pocket located at the back of the light shield.
3. To remove the light shield, on some models, press in on the tabs on the sides of the shield and slide forward and out. On other models, just slide forward and out.
4. After replacing the bulb with an appliance bulb of the same or lower wattage, replace the light shield and screws (on some models). When replacing the light shield, make sure that the tabs at the back of the shield fit into the slots at the back of the light shield housing.
5. Plug the refrigerator back in.



## Freezer Compartment

1. Unplug the refrigerator.
2. Remove the shelf just above the light shield. (The shelf will be easier to remove if it is emptied first). On some models, a screw at the top of the light shield will need to be removed.
3. To remove the light shield, press in on the sides, and lift up and out.
4. Replace the bulb with an appliance bulb of the same or lower wattage, and reinstall the light shield. When reinstalling the light shield, make sure the top tabs snap securely into place. Replace the screw (on some models).
5. Reinstall the shelf and plug the refrigerator back in.



## Refrigerator Compartment, lower light

This light is located above the top pan (on some models)

1. Unplug the refrigerator.
2. Remove the convertible meat drawer control knob by pulling straight out.
3. Lift the light shield up and pull it out.
4. After replacing the bulb with an appliance bulb of the same or lower wattage, replace the shield and the knob.
5. Plug the refrigerator back in.

## Dispenser (on some models)

1. Unplug the refrigerator.
2. The bulb is located on the dispenser under the control panel. Remove the light bulb by turning it counterclockwise.
3. Replace the bulb with a bulb of the same size and wattage.
4. Plug the refrigerator back in.



# INSTALLATIONS INSTRUCTIONS

## *Before you begin*

Read these instructions completely and carefully.

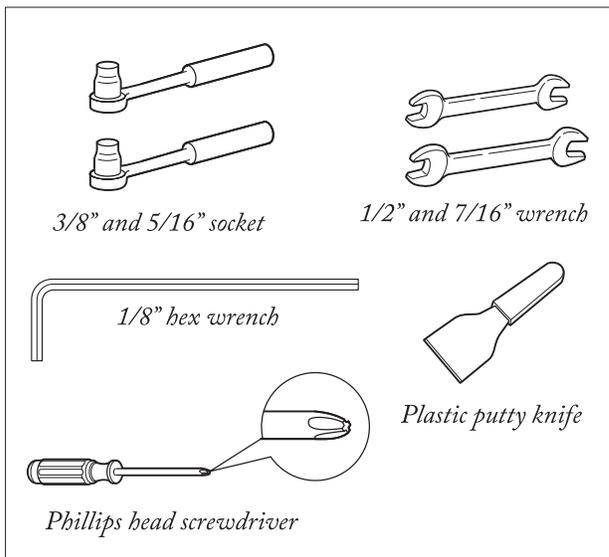
- **IMPORTANT.** Save these instructions for local inspector's use.
- **IMPORTANT.** Observe all governing codes and ordinances.
- **Note to Installer.** Be sure to leave these instructions with the Consumer.
- **Note to Consumer.** Keep these instructions for future reference.
- **Skill level.** Installation of this appliance requires basic mechanical skills.
- **Completion time.** Refrigerator installation 30 minutes. Water line installation 30 minutes.
- Proper installation is the responsibility of the installer.
- Product failure due to improper installation is not covered under the warranty.

## **PREPARATION**

### *Water supply to the ice maker*

If the refrigerator has an ice maker, it will have to be connected to a cold water line.

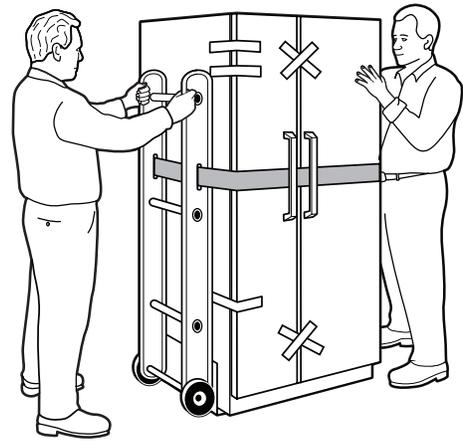
### **TOOLS YOU WILL NEED**



## **MOVING THE REFRIGERATOR**

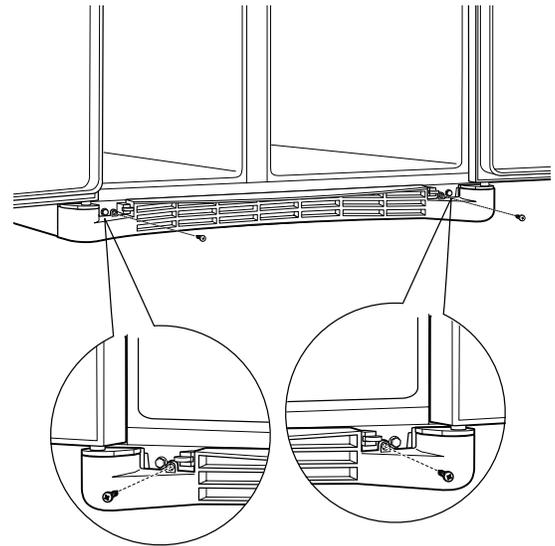
### **1. Loading the refrigerator onto a hand truck.**

Leave all tape and door pads on doors until the refrigerator is in its final location. To move the refrigerator, use a padded hand truck. Center the refrigerator on the hand truck and secure the strap around the refrigerator. **DO NOT OVERTIGHTEN THE STRAP.**



### **2. Remove the base grille.**

Remove the grille by removing the two phillips head screws.



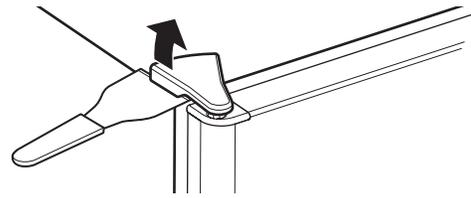
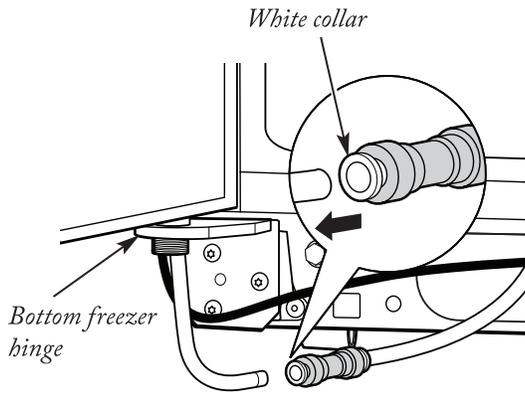
If the refrigerator must go through any entrance that is less than 38" wide, the doors must be removed. Proceed to Step 3.

If all entrances are more than 38" wide, skip this section.

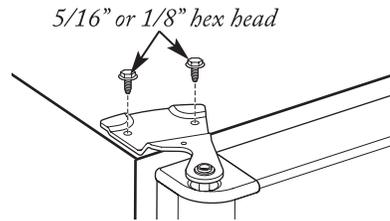


### **3. Disconnect the water coupling (on some models)**

*If the refrigerator has a water dispenser,* there is a water line from the cabinet into the bottom hinge on the freezer door that must be disconnected. To disconnect, push in on the white collar of the coupling and pull out the tubing.

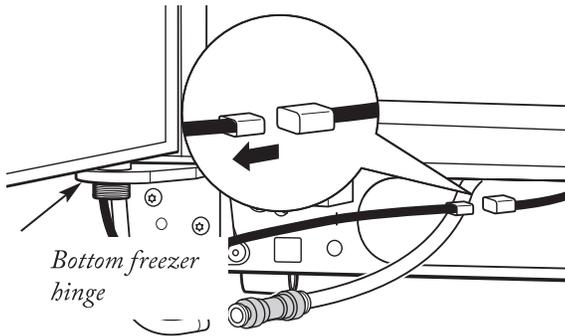


- Remove the two 5/16" or 1/8" hex headscrews, then lift the hinge straight up to release the hinge pin.

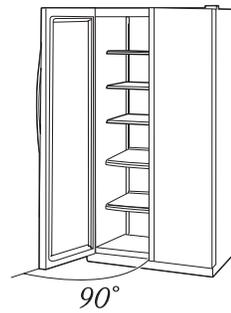


**4. Disconnect the power coupling**  
(on some models)

If the refrigerator has a water dispenser, there is a power line (harness) from the cabinet into the bottom hinge on the freezer door that must be disconnected. To disconnect, pull apart at the coupling.

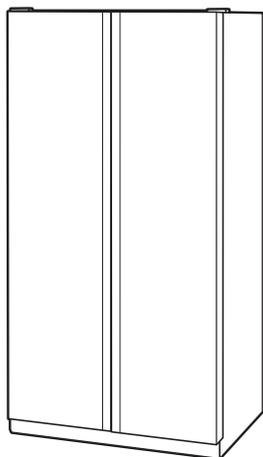
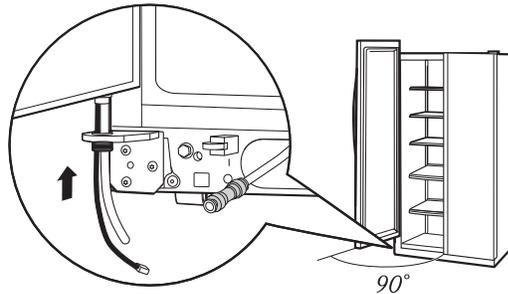


- Open the freezer door to 90°.



- As one person slowly lifts the freezer door up and off the bottom hinge, the second person should carefully guide the waterline and power line (harness) through the bottom hinge.

**5. Close the freezer and refrigerator doors.**



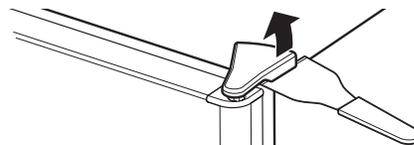
- Set the door on a non-scratching surface with the inside up.

**7. Remove the refrigerator door**

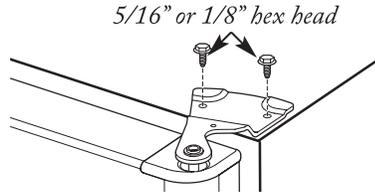
- Remove the refrigerator door top hinge cover (if equipped) by either squeezing it and pulling it up or by prying it off with a plastic putty knife.

**6. Remove the freezer door.**

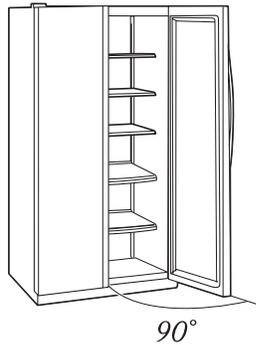
- Remove the freezer door top hinge cover (if equipped) by either squeezing it and pulling it up or by prying it off with a plastic putty knife.



- Remove the two 5/16" or 1/8" hex headscrews, then lift the hinge straight up to free the hinge pin.



- Open the refrigerator door to 90°.

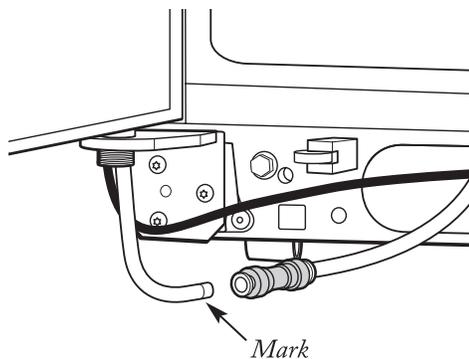


- Lift the refrigerator door up and release it from the bottom hinge.
- Set the door on a non-scratching surface with the inside up.

### 8. Replacing the doors

To replace the doors, simply reverse steps 3 through 7. However, please note the following:

- When lowering the doors onto the bottom hinges, make sure the second person carefully guides the tube and harnesses through the holes in the hinges.
- When connecting the water line, make sure you insert the tubing all the way to the mark.
- Do not pinch the tubing and harnesses when placing the doors on the bottom hinges.

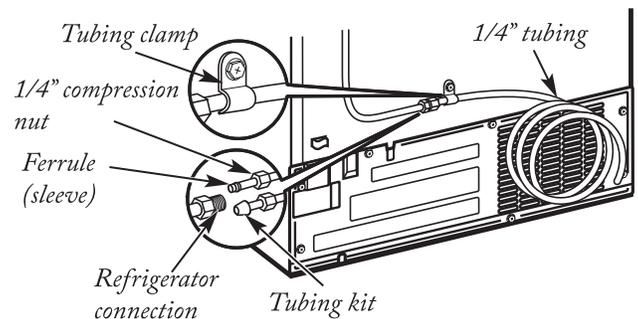


### CONNECTING THE REFRIGERATOR TO THE HOUSE WATER LINE (ice and water dispenser models)

A cold water supply is required for automatic ice maker and dispenser operation. The water pressure should be between 276-827kPa (40 y 120 p.s.i).

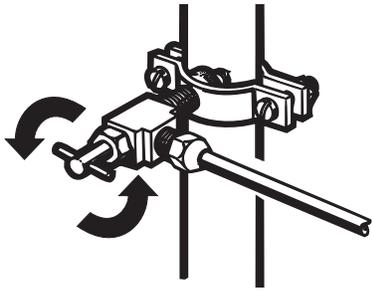
#### Notes:

- Before making the connection to the refrigerator, be sure the refrigerator power cord is not plugged into the wall outlet.
- If your refrigerator does not have a water filter, we recommend installing one if your water supply has sand or particles that could clog the flow through the refrigerator water valve. Install it in the water line near the refrigerator.
- If you are using copper tubing, place a compression nut and ferrule (sleeve) onto the end of the tubing coming from the house cold water supply. If you are using the tubing kit, the nuts are already assembled to the tubing.
- If you are using copper tubing, insert the end of the tubing into the refrigerator connection, at the back of the refrigerator, as far as possible. While holding the tubing, tighten the fitting. If you are using tubing kit, insert the molded end of the tubing into the refrigerator connection, at the back of the refrigerator, and tighten the compression nut until it is hand tight. Then tighten one additional turn with a wrench. *Overtightening may cause leaks.*
- Fasten the tubing into the clamp provided to hold it in position. You may need to pry open the clamp.



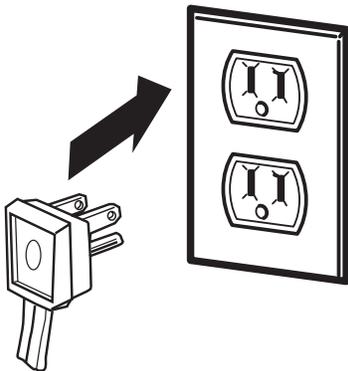
### TURN ON THE WATER SUPPLY

Turn the water on at the shut off valve (house water supply) and check for any leaks.



### PLUG IN THE REFRIGERATOR

Before plugging in the refrigerator, make sure the ice maker power switch is set to the **O** (off) position.



See the grounding information attached to the power cord.

*Note: The image can be different from your product.*

### PUT THE REFRIGERATOR IN PLACE

Move the refrigerator to its final location.

### LEVEL THE REFRIGERATOR

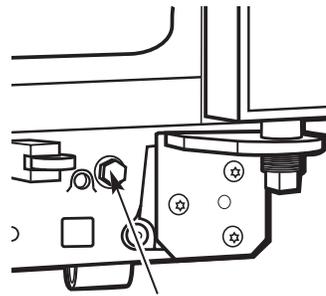
The refrigerator can be leveled by adjusting the rollers located near the bottom hinges.

Rollers have three purposes:

- Rollers adjust so the door closes easily when opened about halfway. (*Raise the front about 5/8" [16 mm] from the floor.*)
- Rollers adjust so the refrigerator firmly positioned on the floor and does not wobble.
- Rollers allow you to move the refrigerator away from the wall for cleaning.

To adjust the rollers:

- Turn the roller adjusting screws clockwise to raise the refrigerator, counterclockwise to lower it. Use a 3/8" hex socket or wrench, or an adjustable wrench.



Roller adjusting screw

### LEVEL THE DOORS

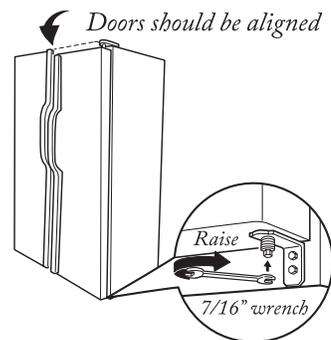
Adjust the refrigerator door to make the doors even at the top.

To align:

- Using a 7/16" wrench, turn the door adjusting screw to the right to raise the door, to the left to lower it.

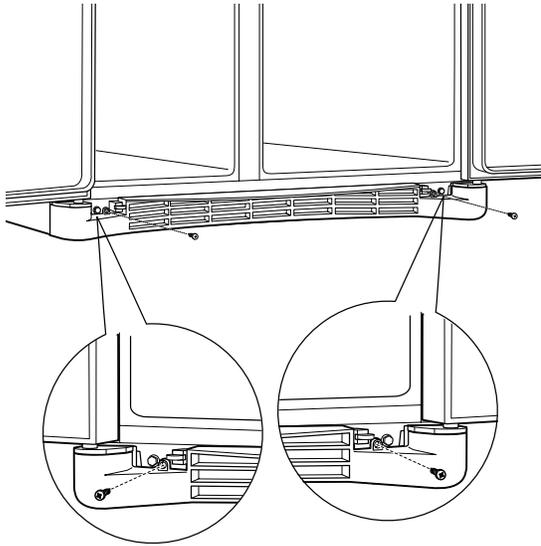
*Note: A nylon plug, imbedded in the threads of the pin, prevents the pin from turning unless a wrench is used.*

- After one or two turns of the wrench, open and close the refrigerator door and check the alignment at the top of the doors.



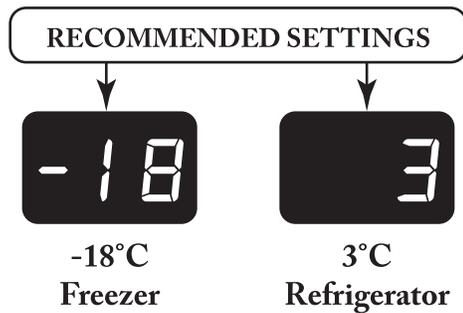
## REPLACE THE BASE GRILLE

Replace the grille by installing the two phillips headscrew.



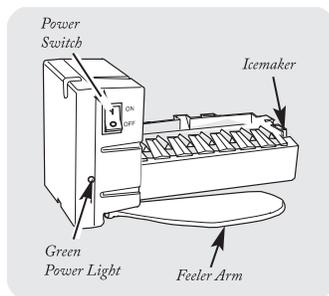
## SET THE CONTROLS

Set the controls to the recommended setting.



## START THE ICE MAKER

Set the ice maker power switch to the **I** (on) position. The ice maker will not begin to operate until it reaches its operating temperature of  $-9^{\circ}\text{C}$  ( $15^{\circ}\text{F}$ ) or below. It will then begin operation automatically. It will take 2-3 days to fill the ice bin.



**Note:** In lower water pressure conditions, the water valve may turn on up to 3 times to deliver enough water to the ice maker.

## REFRIGERATOR LOCATION

- Do not install the refrigerator where the temperature will go below  $16^{\circ}\text{C}$  ( $60^{\circ}\text{F}$ ) because it will not run often enough to maintain proper temperatures.
- Do not install the refrigerator where the temperature will go above  $37^{\circ}\text{C}$  ( $100^{\circ}\text{F}$ ) because it will not perform properly.
- Install it on a floor strong enough to support it fully loaded.

## DIMENSIONS (mm)

	22' CAPACITY***
A*	1733
B	908
C**	786
D	1170
E	1260
F	991
G	1371
H	1054

\* The height does not include hinges.

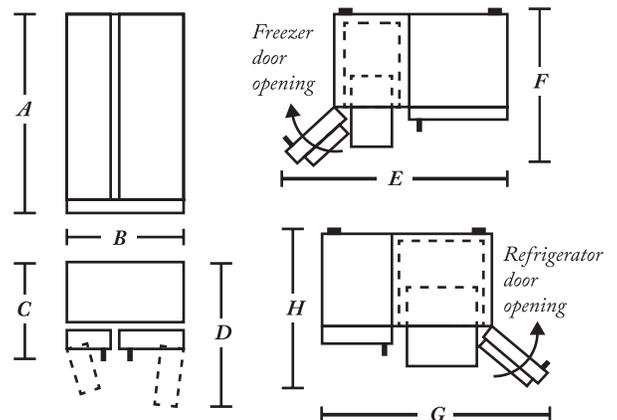
\*\* The depth includes handles.

\*\*\* Values can change according to the door style, only the maximum values are shown.

## CLEARANCES

Allow the following clearances for easy installation, proper air circulation and plumbing and electrical connections:

	22' CAPACITY
SIDES	4 mm
TOP	25 mm
BACK	13 mm



## NORMAL OPERATING SOUNDS

*Newer refrigerators sound different from older refrigerators. Modern refrigerators have more features and use newer technology.*

*Do you hear what I hear? These sounds are normal.*

**HMMMM...  
WHOOSH...**

The new high efficiency compressor may run faster and longer than your old refrigerator and you may hear a high-pitched hum or pulsating sound while it is operating. Sometimes the refrigerator runs for an extended period, especially when the doors are opened frequently. This means that the Frost Guard™ feature is working to prevent freezer burn and improve food preservation. You may hear a whooshing sound when the doors close. This is due to pressure equalizing within the refrigerator.

**CLICKS, POPS,  
CRACKS and CHIRPS**

You may hear cracking or popping sounds when the refrigerator is first plugged in. This happens as the refrigerator cools to the correct temperature. Electronic dampers click open and closed to provide optimal cooling and energy savings. The compressor may cause a clicking or chirping sound when attempting to restart (this could take up to 5 minutes). The electronic control board may cause a clicking sound when relays activate to control refrigerator components. Expansion and contraction of cooling coils during and after defrost can cause a cracking or popping sound. On models with an ice maker, after an ice making cycle, you may hear the ice cubes dropping into the ice bucket.

**WHIR!**



You may hear the fans spinning at high speeds. This happens when the refrigerator is first plugged in, when the doors are opened frequently or when a large amount of food is added to the refrigerator or freezer compartments. The fans are helping to maintain the correct temperatures. If either door is open for over 3 minutes, you may hear the fans come on in order to cool the light bulbs. The fans change speeds in order to provide optimal cooling and energy savings.

**WATER SOUNDS**



The flow of refrigerant through the freezer cooling coils may make a gurgling noise like boiling water. Water dripping on the defrost heater can cause a sizzling, popping or buzzing sound during the defrost cycle. A water dripping noise may occur during the defrost cycle as ice melts from the evaporator and flows into the drain pan. Closing the door may cause a gurgling sound due to pressure equalization.



For additional information on normal icemaker and dispenser operating sounds, see the About the automatic icemaker and About the ice and water dispenser sections.

## BEFORE YOU CALL FOR SERVICE

*Troubleshooting tips.*

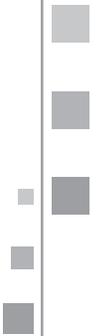
*Save time and money! Review the charts on the following pages first and you may not need to call for service.*

<b>Problem</b>	<b>Possible causes</b>	<b>What to do</b>
<b>Refrigerator does not operate</b>	<i>Refrigerator in defrost cycle</i>	Wait about 30 minutes for defrost cycle to end
	<i>Either or both controls set to 0 (OFF)</i>	Set the controls to a temperature setting
	<i>Refrigerator is unplugged</i>	Push the plug completely into the outlet
	<i>The fuse is blown / circuit breaker is tripped</i>	Replace fuse or reset the breaker
	<i>The refrigerator is in showroom mode</i>	Unplug the refrigerator and plug it back in
<b>Vibration or rattling (slight vibration is normal)</b>	<i>Rollers need adjusting</i>	See <i>Rollers</i>
<b>Motor operates for long periods or cycles on and off frequently. (Modern refrigerators with more storage space and a larger freezer require more operating time. They start and stop often to maintain even temperatures)</b>	<i>Normal when refrigerator is first plugged in</i>	Wait 24 hours for the refrigerator to completely cool down
	<i>Often occurs when large amounts of food are placed in refrigerator</i>	This is normal
	<i>Door left open</i>	Check to see if package is holding door open
	<i>Hot weather or frequent door openings</i>	This is normal
	<i>Temperature control set at the coldest setting</i>	See <i>About the temperature controls</i>
<b>Refrigerator or freezer compartment too warm</b>	<i>Temperature control not set cold enough</i>	See <i>About the temperature controls</i>
	<i>Warm weather or frequent door openings</i>	Set the temperature control one step colder
	<i>Door left open</i>	Check to see if package is holding door open
<b>Frost or ice crystals on frozen food (frost within package is normal)</b>	<i>Door left open</i>	Check to see if package is holding door open
	<i>Too frequent or too long door openings</i>	
<b>Divider between refrigerator and freezer compartments feels warm</b>	<i>Automatic energy saver system circulates warm liquid around front edge of freezer compartment</i>	This helps prevent condensation on the outside
<b>Frequent “buzzing” sound</b>	<i>Ice maker power switch is in the I (on) position, but the water supply to the refrigerator has not been connected</i>	Set the power switch to the <b>O</b> (off) position. Keeping it in the <b>I</b> (on) position will damage the water valve

<b>Problem</b>	<b>Possible causes</b>	<b>What to do</b>
<b>Ice cubes have odor / taste</b>	<i>Ice storage bin needs cleaning</i>	Empty and wash bin. Discard old cubes
	<i>Food transmitting odor / taste to ice cubes</i>	Wrap food well
	<i>Interior of refrigerator needs cleaning</i>	See <i>care and cleaning</i>
<b>Automatic ice maker does not work</b>	<i>Ice maker power switch is in the <b>O</b> (off) position</i>	Set the power switch to the <b>I</b> (on) position
	<i>Water supply turned off or not connected</i>	See <i>Installing the water line</i>
	<i>Freezer compartment to warm</i>	Wait 24 hours for the refrigerator to completely cool down
	<i>Piled up cubes in the storage bin cause the ice maker to shut off</i>	Level cubes by hand
	<i>Ice cubes stuck in ice maker (green power light on ice maker blinking)</i>	Turn off the ice maker, remove cubes and turn the ice maker back on.
<b>Slow ice cube freezing</b>	<i>Door left open</i>	Check to see if package is holding door open
	<i>Temperature control not set cold enough</i>	See <i>About the temperature control</i>
<b>Small or hollow cubes</b>	<i>Water filter clogged</i>	Replace filter cartridge with new cartridge or with plug
<b>Ice dispenser does not work</b>	<i>Ice maker turned off or water supply turned off</i>	Turn on ice maker or water supply
	<i>An item is blocking or has fallen into the ice chute</i>	Remove any item that might be blocking or has fallen into the ice chute
	<i>Ice cubes are frozen to ice maker feeler arm</i>	Remove cubes
	<i>Irregular ice clumps in storage ice bin</i>	Break up with fingertip pressure and discard remaining clumps  Freezer may be too warm. Adjust the freezer control to a colder setting, one position a time until clumps do not form
	<i>Dispenser is locked (LOCK CONTROL)</i>	Press and hold <b>LOCK CONTROL</b> pad for 3 seconds
<b>Water has poor taste / odor</b>	<i>Water dispenser has not been used for a long time</i>	Dispense water until all water in system is replenished
<b>Water in first glass is warm</b>	<i>Normal when refrigerator is first installed</i>	Wait 24 hours for the refrigerator to completely cool down
	<i>Water dispenser has not been used for a long time</i>	Dispense water until all water in system is replenished
	<i>Water system has been drained</i>	Allow several hours for replenished supply to chill

<b>Problem</b>	<b>Possible causes</b>	<b>What to do</b>
<b>Water dispenser does not work</b>	<i>Water supply line turned off or not connected</i>	See <i>Installing the water line</i>
	<i>Water filter clogged</i>	Replace filter cartridge or remove filter and install plug
	<i>Air may be trapped in the water system</i>	Press the dispenser arm for at least two minutes
	<i>Dispenser is locked (LOCK CONTROL)</i>	Press and hold the <b>LOCK CONTROL</b> pad for 3 seconds
<b>CUBED ICE was selected but CRUSHED ICE was dispensed</b>	<i>Last setting was <b>CRUSHED ICE</b></i>	A few cubes were left in the crusher from the previous setting. This is normal
<b>Water is not dispensed but ice maker is working</b>	<i>Water in reservoir is frozen</i>	Call for service
	<i>Refrigerator control setting is too cold</i>	Set to a warmer setting
<b>Water spurting from dispenser</b>	<i>Newly-installed filter cartridge</i>	Run water from the dispenser for 3 minutes
<b>No water or ice cube production</b>	<i>Supply line or shutoff valve is clogged</i>	Call a plumber
	<i>Water filter clogged</i>	Replace filter cartridge or remove filter and install plug
	<i>Dispenser is locked (LOCK CONTROL)</i>	Press and hold the <b>LOCK CONTROL</b> pad for 3 seconds
<b>Refrigerator has odor</b>	<i>Food transmitting odor to refrigerator</i>	Food with strong odor should be tightly wrapped  Keep an open box of baking soda in the refrigerator; replace every three months
	<i>Interior needs cleaning</i>	See <i>Care and cleaning</i>
<b>Hot air from bottom of refrigerator</b>	<i>Normal air flow cooling motor. In the refrigeration process, it is normal that heat be expelled in the area under the refrigerator. Some floor coverings are sensitive and will discolor at these normal and safe temperatures.</i>	
<b>Orange glow in the freezer</b>	<i>Defrost heater is on</i>	This is normal
<b>Moisture forms on outside of refrigerator</b>	<i>Not unusual during periods of high humidity</i>	Wipe surface dry
<b>Moisture collects inside (in humid weather, air carries moisture into refrigerator when doors are opened)</b>	<i>Too frequent or too long door openings</i>	
<b>Interior light does not work</b>	<i>No power at outlet</i>	Replace fuse or reset the breaker
	<i>Light bulb burned out</i>	See <i>Replacing the light bulbs</i>

<b>Problem</b>	<b>Possible causes</b>	<b>What to do</b>
<b>Water on kitchen floor or on bottom of freezer</b>	<i>Cubes jammed in chute</i>	Poke ice through with a wooden spoon
<b>Refrigerator never shuts off but the temperatures are OK</b>	<i>Adaptive defrost keeps compressor running during door openings</i>	This is normal. The refrigerator will cycle off after the door remains closed for 2 hours
<b>Refrigerator beeping</b>	<i>Door open</i>	Close door
<b>Actual temperature not equal to set temperature</b>	<i>Unit just plugged in</i>	Allow 24 hours for system to stabilize
	<i>Door open for too long</i>	Allow 24 hours for system to stabilize
	<i>Warm food added to refrigerator</i>	Allow 24 hours for system to stabilize
	<i>Defrost cycle is in process</i>	Allow 24 hours for system to stabilize
<b>Door not closing properly</b>	<i>Door gasket on hinge side sticking or folding over</i>	Apply vaseline to the gasket face
	<i>A door bin is hitting a shelf inside the refrigerator</i>	Move the door bin up one position





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