FRIGIDAIRE

All about the

Use & Care

of your Dishwasher

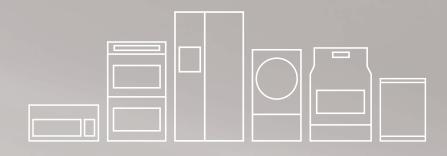


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IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using this appliance. Save these instructions for future reference.



WARNING

This symbol will help alert you to such dangers as personal injury, burns, fire, and electrical shock.



WARNING

To reduce the risk of fire, electrical shock, or injury when using your dishwasher, follow basic precautions including the following:

- Use your dishwasher only as instructed in this Use and Care Manual.
- This Manual does not cover every possible condition and situation that may occur. Use common sense and caution when installing, operating and maintaining any appliance.
- NSF certified residential dishwashers are not intended for licensed food establishments.
- DISHWASHER MUST BE ELECTRICALLY GROUNDED.
 Read the Installation Instructions for details.
- This dishwasher is designed to operate on regular house current (120 V, 60 Hz). Use a circuit equipped with a 15 ampere fuse or circuit breaker. Use a 20 ampere fuse if dishwasher is connected with a food waste disposer.
- Do not operate dishwasher unless all enclosure panels are in their proper place.
- To avoid entrapment and/or suffocation, remove door or door latch mechanism from any dishwasher that is discarded or not in use.
- Keep young children and infants away from dishwasher when it is operating.
- Do not let children abuse, sit, stand or play on door or racks of a dishwasher.
- Use only detergents and rinse agents recommended for use in a dishwasher.
- Store dishwasher detergent and rinse agents out of the reach of children.

- Do not wash plastic items unless marked "dishwasher safe" or the equivalent. Check with manufacturer for recommendations, if not marked. Items that are not dishwasher safe may melt and create a potential fire hazard.
- Disconnect electrical power to dishwasher before servicing.
- If the dishwasher drains into a food disposer, make sure disposer is completely empty before running dishwasher.
- Repairs should be done by a qualified technician.
- · Do not tamper with controls.
- Do not touch the heating element during or immediately after use.
- Use care unloading the dishware when the SANITIZE option has been selected. Contents may be hot to the touch immediately after the end of cycle.
- Water vapor from the vent may be hot to the touch when the SANITIZE option has been selected. Use care and do not let small children play around or touch the vent area of the dishwasher.
- · When loading items to be washed:
 - Locate sharp items and knives so that they are not likely to damage the door seal or tub.
 - Load sharp items and knives with the handles up to reduce the risk of cut-type injuries.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for 2 weeks or more. HYDROGEN GAS IS EXPLOSIVE. If hot water system has not been used for such a period, before using dishwasher, turn on all hot water faucets and let water flow from each for several minutes. This will release any accumulated hydrogen gas. HYDROGEN GAS IS FLAMMABLE. Do not smoke or use an open flame during this time.
- Do not store or use combustible materials, gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

PRODUCT REGISTRATION

Thank you for choosing Frigidare.

This Use & Care Guide is part of our commitment to customer satisfaction and product quality throughout the service life of your new appliance.

We view your purchase as the beginning of a relationship. To ensure our ability to continue serving you, please use this page to record important product information.

Purchase date

Model number

Serial number

Registering your product with Frigidaire enhances our ability to serve you. You can register online at www.frigidaire.com or by dropping your Product Registration Card in the mail.



NOTE

Very Important Information— Read Before Operating Your Dishwasher!

Normal Operating Sounds



This dishwasher does not sound like most dishwashers—IT'S QUIETER.

Your Precision Direct Wash System® dishwasher uses energy efficient motors for the wash and drain portions of the cycle you select. Each cycle has a series of water fills and drains for washing and rinsing dishes. As each cycle begins, you may-or may nothear the drain motor.

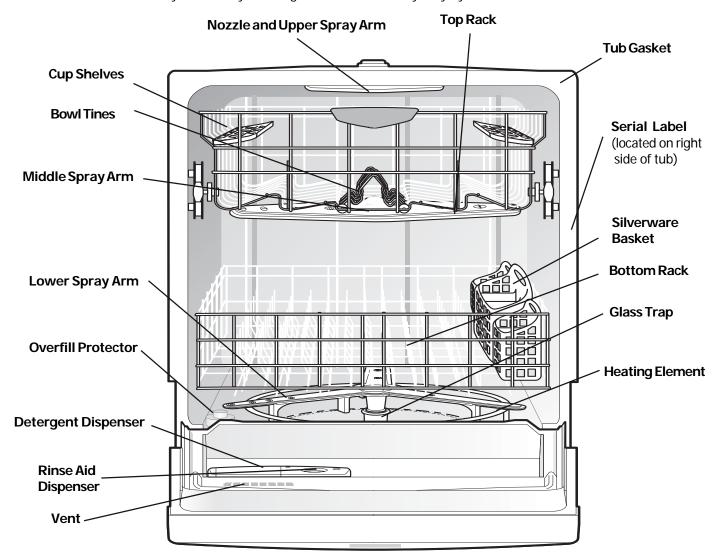
The next sound you will hear is the splashing water as it enters the tub. Then the lower arm rotates and circulates water. This is followed by a pause and a slightly different sound as the upper arms spray water. If you listen closely, you will hear the change in sound as the wash action switches from one arm to the other.

If you select the Normal Cycle, twice during the cycle you will hear the wash motor going on and off at a much different cadence. The pump will pulse several times, repeatedly turning on for less than a secon and off for 10 seconds. This allows it to drive soils off the filter and into the drain while using very little water. If, after selecting the Normal Cycle, you select either the Sanitize or Hi-Temp Wash options your dishwasher will understand that a stronger wash is needed and it will not use this pulsing routine.

PLEASE BE ADVISED: If you compare this dishwasher to previous models, you may be surprised at what you DON'T hear!

DISHWASHER FEATURES

Your dishwasher cleans by spraying a mixture of hot water and detergent through the spray arms against soiled surfaces. Each cycle begins with a pre-drain. Next, the dishwasher fills with water covering the filter area. Water is then pumped through the spray arms. Soil particles go down the drain as the water is pumped out and replaced with clean water. The number of water fills will vary with the cycle being used. Features may vary by Model.



Getting Started

- 1. Load dishwasher
- 2. Add detergent
- 3. Add rinse aid
- 4. Select desired CYCLE. The indicator light above the pad will glow when selected.
- 5. Select desired OPTIONS. The indicator light above the pad will glow when selected.
- 6. Run hot water faucet nearest dishwasher until water is hot. Turn water off.

- 7. To start, press START/CANCEL pad.
- 8. Close door to latch.



The dishwasher is programmed to remember your last cycle so you do not have to reset each time. To start the dishwasher using the same cycle and options selected on the previous wash, just press the START/CANCEL pad.

Wash Cycle Selections

Cycle times are approximate and will vary with options selected. Hot water is necessary to activate dishwasher detergent and melt fatty food soils. During the main wash and final rinse recirculating fluid returning from being sprayed on the dishware is continually heated. As needed, the cycle is lengthened to assure that the fluid temperatures critical to wash and rinse are achieved. Selection of higher temperature options to handle heavier soils or to sanitize dishware will result in longer cycle responses.



NOTE

If your unit has a Smart Sensor, it is used to understand how heavily soiled the dish load is so the cycle can be automatically adjusted to the appropriate response. This helps to prevent energy waste. The sensor is calibrated at the end of the cycle. For the first cycle after power is applied (when first installed or after a power failure) the sensor will not be calibrated and so cannot determine the soil load. Therefore, your unit will provide a response suitable for heavy soils on this first run after power is restored. This will assure that whatever is loaded will get cleaned. Energy use furing this first run may be higher than would be typical.

Options Selections

Hi-Temp Wash

When the HI-TEMP WASH option is selected, the dishwasher heats water in the main wash to approximately 140°F (60°C).

This increase in water temperature helps dishwasher detergent remove food grease and soil from dishes more effectively and aids in drying. The HI-TEMP WASH option can be used with all cycles except RINSE ONLY. The HI-TEMP WASH is automatically provided when the HEAVY WASH cycle is selected.

When HI-TEMP WASH option is selected, the light above the pad will come on and remain on until end of cycle. To turn off the HI-TEMP WASH option, press the pad a second time. The light above the pad will turn off.

Heat Dry

The HEAT DRY option in combination with rinse aid will enhance drying performance. The energy required to use the HEAT DRY option costs pennies per cycle. You may choose not to select the HEAT DRY option; however you will have items in your dish load that will not be completely dry at the end of the cycle.

Sanitize Option

To sanitize your dishes and glassware, select the SANITIZE option. When selected, the light above the pad will come on and remain on until end of cycle. The water temperature in the final rinse will be raised to 155°F (68°C) and will be maintained at that temperature as needed. This option is available in Heavy, Normal and Light Wash cycles. Only these sanitization cycles have been designed to meet NSF requirements.

The cycle time will be extended until the proper water temperature is reached. Washing action will continue during the water heating delay. For best results, the incoming water temperature should be about 120°F (49°C).

An indicator light will be lit at the end of the cycle only when the Sanitize criteria has definitely been met. If the cycle is interrupted by the opening of the dishwasher door during a crucial part of the cycle, if there is a power failure or if the incoming water was too cold to allow the sanitization temperatures to be reached in the allowed time the indicator will not be lit.

To turn off the SANITIZE option, press the pad a second time. The light above the pad will turn off.

Delay Start

The DELAY START option allows you to automatically delay starting your dishwasher from 1-10, 1-24 or 2-4-6 hours depending on your model.

On models with 1-10 or 1-24 hour delay, press the DELAY START pad until the desired delay time shows in the STATUS window. A light will come on indicating the delay start hours and will remain on until cycle starts.

On models with 2-4-6 hour delay, press the pad once for a 2 hour delay, twice for 4 hours and three times for 6 hours. A light will come on indicating the delay start hours and will remain on until cycle starts.

To cancel the DELAY START option and begin the cycle before the delay period is over, press the START/CANCEL pad.

To Cancel a Cycle

You can cancel a cycle anytime during the cycle. Press START/CANCEL pad and the dishwasher will start a 90 second drain. At the end of the drain, select the desired cycle.

NOTE

Not all cycles available on all models.



FGBD2431

Cycle Chart - Models without Smart Sensor					
Cycle	To Select Cycle	Soil Level	Water (approx.)	Time* (Hours)	Washes/ Rinses
Heavy Wash For pots, pans, casseroles and dinnerware with dried-on or baked-on soils.	Select HEAVY WASH and desired OPTIONS. HI-TEMP WASH will automatically be provided, SANITIZE optional.	Heavy to Medium	9 gal. 8 imp.gal. 35 liters	2 1/4	4 washes 4 rinses
Normal Wash For heavier, greasy soils and for sanitization.	Select NORMAL WASH and desired OPTIONS including SANITIZE or HI-TEMP WASH.	Heavy to Light	8 gal. 7 imp. gal. 31 liters	2 1/4	5 washes 2 rinses
Normal Wash For regularly soiled dishes and silverware.	Select LIGHT WASH and desired OPTIONS.	Medium to Light	4 gal. 3 imp. gal. 16 liters	2	3 washes 2 rinses
Top Rack For lightly soiled or pre-rinsed dishes and silverware when you do not have a full load.	Select TOP RACK and desired OPTIONS.	Light or pre- rinsed	4 gal. 3 imp. gal. 14 liters	1 1/4	2 wash 1 rinse
Rinse Only For rinsing dishes that will be washed later.	Select RINSE ONLY. DO NOT USE detergent.		2 gal. 2 imp. gal. 8 liters	1/4	2 rinses

^{*} Includes dry time

On some models, the Smart Sensor checks the soil level on your dishes in the Heavy Wash, Normal Wash, and Light Wash Cycles. Depending on soil level, the sensor will determine if additional water fills are needed to clean the dishes or if water fills can be deleted. Cycle time and water usage will vary based on the amount of soil on the dishes. Cycle time will also vary based on the options selected and the incoming water temperature.



FGBD2432 Smart Sensor

Cycle Chart - Smart Sensor Models					
Cycle	To Select Cycle	Soil Level	Water (approx.)	Time* (Hours)	Washes/ Rinses
Heavy Wash For pots, pans, casseroles and dinnerware with	Select HEAVY WASH and desired OPTIONS. HI-TEMP WASH will	Heavy and Medium	9 gal. 8 imp.gal. 33 liters	2 1/4	4 washes 4 rinses
dried-on or baked-on soils. automatically be provided, SANITIZE optional.	Light	7 gal. 6 imp. gal. 25 liters	2	2 washes 4 rinses	
Normal Wash For regularly soiled dishes and silverware. Select NORMAL WASH and desired OPTIONS. Selecting HI-TEMP ON or SANITIZE will result in a Longer cycle.	Heavy	7 gal. 6 imp. gal. 26 liters	2	4 washes 2 rinses	
	Medium	6 gal. 5 imp. gal. 22 liters	2	3 washes 2 rinses	
	Light	5 gal. 4 imp. gal. 17 liters	1 3/4	2 washes 2 rinses	
		Extra Light	4 gal. 3 imp. gal. 13 liters	1 1/2	2 washes 1 rinse
Top Rack For lightly soiled or pre-rinsed dishes and silverware when you do not have a full load.	Select TOP RACK and desired OPTIONS.		4 gal. 3 imp. gal. 14 liters	1 1/4	2 wash 1 rinse
Rinse Only For rinsing dishes that will be washed later.	Select RINSE ONLY. DO NOT USE detergent.		2 gal. 2 imp. gal. 9 liters	1/4	2 rinses

Status Indicator Lights

The WASHING light (some models) comes on at the beginning of cycle and remains on until the end of the main wash.

Whether heated or unheated dry is selected the DRYING light will come on during the drying portion of the cycle.

When the SANITIZE option is selected, the SANITIZED light will glow when the SANITIZE cycle is finished. The light will remain on until the door is opened. If the dishwasher did not properly sanitize the dishes, the light will not come on. This can happen if the cycle is interrupted.

The RINSING AGENT LOW light (some models) comes on at the end of a cleaning cycle when the rinse agent reservoir is low. The light will remain on through 5 successive cycles or until the reservoir is filled.

The CLEAN light (some models) will come on at end of cycle and remain on until door is opened.

Child Lock Controls

To prevent children from accidently changing the dishwasher cycle or starting the dishwasher, lock the dishwasher controls by pressing and releasing the RINSE ONLY pad (some models) or the NO HEAT DRY pad (some models) for 3 seconds while the door is latched. An indicator light on the lock graphic pad will illuminate when the controls are locked and no new selections can be made until the lock is released. To unlock the controls, press the same pad RINSE ONLY or NO HEAT DRY, until the indicator light goes out.

Status Window

The STATUS window, available on some models, indicates the following activity:



NOTE

The time remaining could suddenly increase or drop several minutes. This means the Smart Sensor has checked the soil level and has determined that additional water fills are needed or that water fills can be deleted.

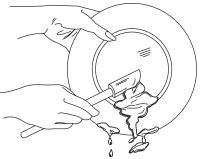
1H-24H	Number of delay start hours. The last hour will count down in minutes.
CL	Close dishwasher door. The status indicator lights will also flash to indicate current cycle status.
Hd or HO	Indicates a water heat delay.
MINUTES	Number of minutes left in cycle (1-99). If cycle is longer than 99 minutes, a small light will appear in the lower right corner and remain on until time counts below 99.
PF	Appears in window when dishwasher is first installed, or when power has been interrupted. HI-TEMP WASH and NO HEAT DRY indicator lights will also flash. To clear, touch START/CANCEL pad.
LO	Appears in window when the rinse aid dispenser is low and needs to be refilled.

Dish Preparation

Scrape away large pieces of food, bones, pits, toothpicks, etc. The continuously filtered wash fluid will remove remaining food particles. Burned-on foods should be loosened before loading. Empty liquids from glasses and cups.

Foods such as mustard, mayonnaise, vinegar, lemon juice and tomato based products may cause discoloration of stainless steel and plastics if allowed to sit for a long period of time. Unless the dishwasher is to be operated at once, it is best to pre-rinse or use the Rinse Only cycle to rinse off these food soils.

- Load racks so that large items do not prevent the detergent dispenser from opening.
- Check manufacturer's recommendations before washing items in question.
- If the dishwasher drains into a food disposer, be sure disposer is completely empty before starting the dishwasher.



Loading the Top Rack

Features and appearance of racks and silverware basket may vary from your model.

The upper rack is designed for flexibility in loading a wide variety of items including cups, glasses, stemware, small plates, bowls, etc.

Load glasses in top rack. Damage may occur if placed in bottom rack.

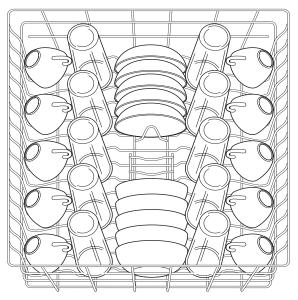
Load plastic items in top rack only. Melting may occur if placed in bottom rack.

Load items with open ends facing down for better cleaning and draining.

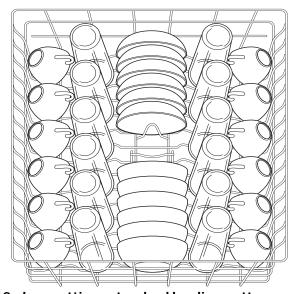
Damage may occur if delicate items touch each other during dishwasher operation.

Long-handled knives and utensils can be placed in top rack.

Be sure nothing protrudes through the bottom of the rack to block rotation of middle spray arm.



10 place settings standard loading pattern



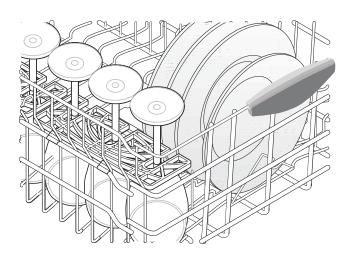
12 place settings standard loading pattern

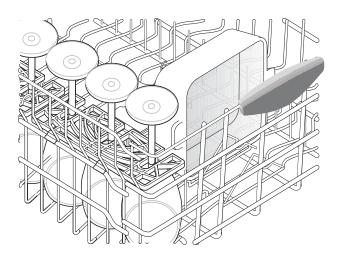
PREPARING AND LOADING DISHES

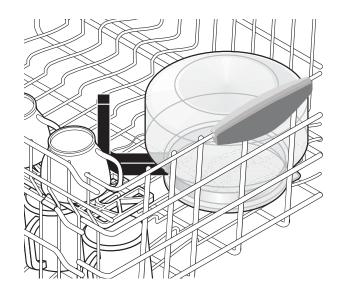
Some models have a fold-down cup shelf or a cup shelf/ stemware holder. They can be used to load two levels of cups, juice glasses, and other short items. Stagger items on upper level so that water can reach all inside surfaces. Fold up to load tall glasses.

Bowl Tines

The bowl tines offer the ultimate in flexibility. When closed, load with saucers or small dishes. Open halfway and it is perfect for small casseroles. Open completely for those hard to fit items such as coffee pots, food processors, etc. As you load your dishwasher, you will find many other ways to use this unique feature.

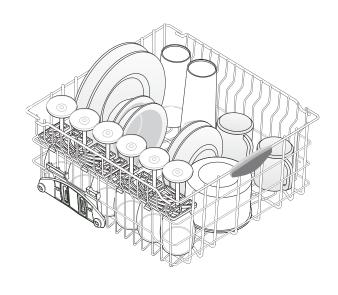






Top Rack Cycle

The TOP RACK cycle can be used to wash a wide assortment of items when you don't have a full load. Also, when the upper rack fills up with glasses and the lower rack is still empty, you don't have to wait anymore for clean glasses.

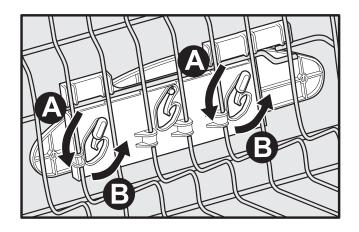


PREPARING AND LOADING DISHES

Adjustable Upper Rack (available on select models)

To raise the upper rack, refer to the figure below.

- A) Lift the rack straight upward.
- B) Pull rack slightly forward as the adjustable mechanism locks into place.



To lower the upper rack, lift the rack straight upward and push rack slightly towards the rear of the dishwasher as it is lowered.

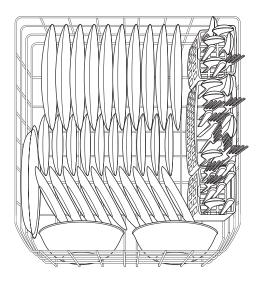
Loading the Bottom Rack

Features and appearance of racks and silverware basket may vary from your model.

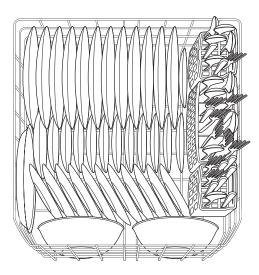
The lower rack is best for plates, saucers, bowls, and cookware. Large items should be placed along the edge so they do not block the spray arm rotation. For best results, place bowls, casseroles, and sauce pans with soiled surface facing down or toward the center. Tilt slightly for better drainage.

Make sure tall items do not block spray arm rotation.

Be sure pan handles do not protrude through the bottom of the rack and block the spray arm rotation.

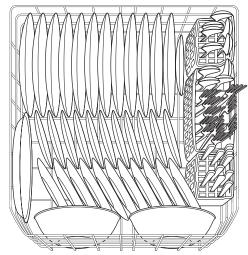


10 place settings standard loading pattern

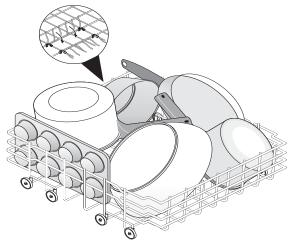


12 place settings standard loading pattern on select models (Fold Down Tines)

PREPARING AND LOADING DISHES



12 place settings standard loading pattern on select models (Fixed Tines)



Fold-down Tines (available select models)

The fold-down tines in the lower rack make easy loading for those extra large and hard-to-fit items. The tines may be left up for normal use or folded down for more flexible loading. Fold down for more space to load large pots or pans.

Loading the Silverware Basket

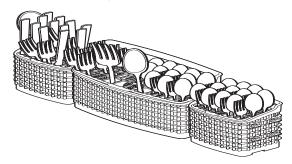
Features and appearance of racks and silverware basket may vary from your model.

Load the silverware basket while it is in the bottom rack or take the basket out for loading on a counter or table.

Place small items like baby bottle caps, jar lids, corn cob holders, etc., in a covered section. Close the cover to hold small items in place.

Use suggested loading patterns, as shown, to increase washability of your silverware.

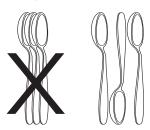
Be sure nothing protrudes through bottom of basket or rack to block the spray arm.



Do not mix silver and stainless to avoid damaging the silver finish.

The silverware basket can be separated and placed in several locations in the bottom rack. Load silverware in all sections or just one, depending on your load.

When covers are up, mix items in each section of the basket with some pointing up and some down to avoid nesting. Water spray cannot reach nested items.



Adding a Dish

To add or remove items after wash cycle starts:

- Unlatch door and wait a few seconds until wash action stops before opening.
- Add the item and wait a few seconds to allow cold air to slowly expand inside dishwasher.
- Close door firmly to latch and resume cycle.



CAUTION

Load sharp items (knives, skewers, etc.) pointing down.

Failure to do so may result in injury.

DISHWASHER DISPENSER & DETERGENTS

Filling the Detergent Dispenser

The detergent dispenser has one covered and one uncovered cup. Detergent in the uncovered cup falls into the dishwasher when the door is closed. The covered cup opens automatically to release detergent.

- Use only fresh automatic dishwashing detergent.
 Other detergents may cause oversudsing.
- When using automatic dishwashing detergent tabs, place one tab in main wash cup and close.
- Add detergent just before starting cycle.
- Store detergent in a cool, dry location. Moist or caked detergent may not dissolve properly.

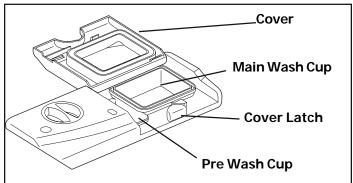


CAUTION

The use of industrial grade detergent can damage the heating coil and other parts of the dishwasher leading to damage to the unit and surrounding property. Use only household grade automatic dishwasher detergents.

How much Detergent to use

The amount of detergent to use depends on the water hardness. Water hardness is measured in grains per gallon. Using too little detergent can result in poor cleaning and hard water filming or spotting. Using too much detergent in soft water can cause etching to some glassware which is surface damage that appears like a film but cannot be wiped off. Your local water company, water softener company or county extension agent can tell you the water hardness in your area.



If the cover is closed on the Main Wash Cup, open by pressing the cover latch.

Detergent Usage Guide				
Cycle	Soft Water (0-3 grains)	Medium Hard Water (4-8 grains)	Hard Water (9-12 grains)	Very Hard Water* (over 12 grains)
Heavy Wash or Normal Wash	2 teaspoons (each cup- 1/4 full)	5 teaspoons (each cup–fill to line above "Regular")	8 teaspoons (each cup- completely full)	Each Cup— Completely Full (water softener recommended)
Top Rack	2 teaspoons (Main Wash cup- 1/4 full)	5 teaspoons (Main Wash cup–fill to line above "Regular")	8 teaspoons (Main Wash cup- completely full)	Main Wash Cup— Completely Full (water softener recommended)
Rinse Only	No Detergent	No Detergent	No Detergent	No Detergent (water softener recommended)

As a rule, use 1 teaspoon for each grain above 12. For very hard water, detergent alone may not be enough and then a water softener is recommended to improve water quality and dishwashing performance.

FACTORS AFFECTING PERFORMANCE

Rinse Aid

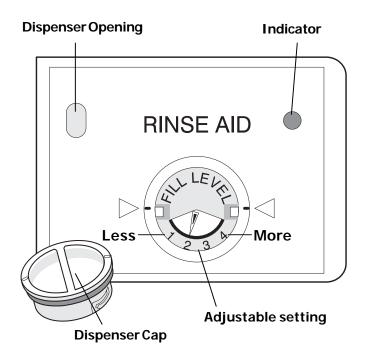
Rinse aid greatly improves drying, reduces water spots and filming, and lubricates wash arm bearings for proper rotations. With it, water "sheets" off dishes rather than forming water droplets that cling and leave spots.

A dispenser, located next to the detergent cup, automatically releases a measured amount of rinse aid during the last rinse. If spotting and poor drying are problems, increase the amount of rinse aid dispensed by rotating the dial to a higher number. The dial is located under the dispenser cap. The indicator will be dark when full and will show clear when it is time to refill. On models with a STATUS window, LO will appear at the end of the cycle indicating that it is time to refill.

To add liquid rinse aid, turn dispenser cap 1/4 turn counterclockwise and lift out. Pour in rinse aid until liquid touches the indicated fill level. Replace cap.

Do not overfill since this can cause oversudsing. Wipe up any spills with a damp cloth.

The dispenser holds enough for 35 to 140 washes, depending on the setting.



Water Pressure

The hot water line to the dishwasher must provide water pressure between 20 and 120 psi.

Low water pressure may occur when laundry or showers are in operation. If you experience poor wash perfomance you may need to wait until water use is reduced before starting your dishwasher.

Water Temperature

Hot water is needed for best dishwashing and drying results. Water entering the dishwasher should be about 120°F (49°C) to give satisfactory results.

To check water temperature entering dishwasher:

- Turn on hot water faucet nearest dishwasher for several minutes to clear cool water from pipes.
- Hold a candy or meat thermometer in the water stream to check the temperature.
- If temperature is below 120°F (49°C), have a qualified person raise the hot water heater thermostat setting.

■ IMPORTANT

Before starting a cycle, run hot water to clear cool water from pipe.

The HEAT DRY option in combination with rinse aid will enhance drying performance. The energy required to use the HEAT DRY option costs pennies per cycle. You may choose not to select the HEAT DRY option; however you will have items in your dish load that will not be completely dry at the end of the cycle.

WARNING



Burn Hazard

Allow heating element to cool before cleaning the interior.

Failure to do so can result in burns.

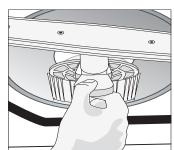
Outside—Occasionally wipe with a mild nonabrasive detergent and water. Rinse and dry.

Models with Stainless Steel Door—

Clean outer door with warm soapy water and a dishcloth or sponge. Rinse with clean water and a dry cloth. Do not use harsh cleaners.

Inside—The inside of the dishwasher is self-cleaning with normal use. If needed, clean around the tub gasket area with a damp cloth.

A glass trap located in the center of the filter is designed to collect pieces of broken glass, straws, bones and pits. To remove items in glass trap, grasp handle, rotate, lift out, empty and replace.

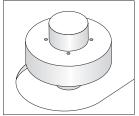


NOTE

Hard water may cause lime deposit buildup on the interior of the dishwasher. For cleaning instructions see "Removing Spots and Film" section.

Overfill Protector—keeps dishwasher from overfilling and is located in the left front corner of the tub.

- · Clean occasionally with household cleaner containing vinegar or bleach to dissolve any buildup.
- · Overfill Protector should move up and down freely about one inch. If it does not move, lift and clean underneath.



Care of Drain Air Gap

If a drain air gap was installed for your built-in dishwasher, check to make sure it is clean so the dishwasher will drain properly. A drain air gap is usually mounted on countertop and can be inspected by removing the cover. This is not part of your dishwasher and is not covered by warranty.

CAUTION

Property Damage Hazard

Freezing temperatures may cause water lines to rupture. Be sure all supply lines to and circulating lines within dishwasher are protected.

Failure to do so could result in property damage.

Winterizing

A dishwasher left in an unheated place should be protected from freezing. Have a qualified person do the following:

To Disconnect Service:

- 1. Turn off electrical power to the dishwasher at the supply source by removing fuses or tripping circuit breaker.
- 2. Shut off water supply.
- 3. Place a pan under the inlet valve. Disconnect water line from inlet valve and drain into pan.
- 4. Disconnect drain line from pump and drain water into pan.

To Restore Service:

- 1. Reconnect the water, drain, and electrical power supply.
- 2. Turn on water and electrical power supply.
- 3. Fill both detergent cups and run dishwasher through a HEAVY WASH cycle.
- 4. Check connections to make sure they do not leak.

NOTE

See Installation Instructions for more details on disconnecting and restoring service to your dishwasher.

SOLUTIONS TO COMMON DISHWASHING PROBLEMS

Before calling for service, review this list. It may save you both time and expense. This list includes common experiences that are not the result of defective workmanship or material in your dishwasher.

Food Soils Left on Dishes

- Choose another cycle for longer washing time.
- Check rack loading section for proper loading—avoid nesting items.
- Home water pressure may be too low—should be 20 to 120 pounds per square inch (psi).
- Check incoming water temperature. It should be close to 120°F (49°C). (See Factors Affecting Performance.)
- Check water hardness. For extremely hard water, it may be necessary to install a water softener. (See Detergent Chart.)
- Use fresh detergent.
- Make sure items are not blocking the spray arms, preventing them from rotating.

Dishes not Dry

- · Select heat dry option.
- Make sure the rinse aid dispenser is filled.
- Increase the discharge setting of rinse aid. (See Rinse Aid.)
- Check the incoming water temperature. Be sure it is close to least 120°F (49°C).
- Check for proper loading—avoid nesting items.
- Plastic items may need to be towel dried.
- Cups with a concave bottom will collect water. Load them at the far left and right of the upper rack so they will be held in a tipped position.

Glassware/Flatware Spotted or Cloudy

- Check water hardness and adjust amount of detergent. For extremely hard water, it may be necessary to install a water softener. (See Detergent Chart.)
- Water temperature may be low. Avoid extremely low or high temperatures. (See Factors Affecting Performance.)
- Avoid overloading and improper loading. (See Preparing and Loading Dishes.)
- Use fresh detergent. Old detergent is ineffective.
- · Make sure rinse aid dispenser is filled.
- Check to see that proper amount of detergent is being used for cycle selected. (See Detergent Dispenser.)
- Home water pressure may be too low—it should be 20 to 120 pounds per square inch (psi).

Dishware Chipped

- Load with care and do not overload. (See Preparing and Loading Dishes.)
- Place delicate items in top rack.
- Place glasses securely against pins and not over pins.
- Load items so they are secure and don't jar loose when moving racks in and out. Move racks in and out slowly.
- Make sure tall glasses and stemware will clear top of tub when rack is pushed in.
- Fine antique china and crystal should be handwashed.

SOLUTIONS TO COMMON DISHWASHING PROBLEMS

Dishware Stained or Discolored

- Tea and coffee can stain cups. Remove the stains by hand washing in a solution of 1/2 cup (120 ml) bleach and one quart (1 L) of warm water. Rinse thoroughly.
- Iron deposits in water can cause a yellow or brown film. A special filter installed in the water supply line will correct this problem. (See Removing Spots and Film.)
- Aluminum utensils can leave gray/black marks when they rub against other items. Load properly.
- Certain high acid foods can cause discoloration of stainless steel and plastics if allowed to sit for a long period. Use the Rinse Only cycle or rinse by hand if not operating dishwasher at once.
- Mixing stainless steel and silver utensils in silverware basket can cause pitting of the stainless steel blades.
 Avoid mixing stainless steel and silver.

Etching

- Using too much detergent especially in soft or softened water causes this film that cannot be removed.
- Adjust the amount of detergent based on the water hardness. (Check Detergent Chart.)
- Use the Normal cycle for glassware.
- Use no heat dry option.

Detergent Left in Cups

- Detergent may be old. Discard and use fresh detergent.
- Be sure the dish load doesn't block spray from entering the detergent cup.
- Check to see if cycle has been completed.
- Make sure items do not prevent the detergent dispenser from opening.

Dishwasher Leaks

 Use only fresh detergent designed for automatic dishwashers. Measure detergent carefully. Try a different brand.

Vapor at Vent

- Water vapor escapes from the vent during the drying part of cycle. This is normal.
- Spilled rinse aid can cause foam and lead to overflowing. Wipe up any spills with a damp cloth.
- Check to see that dishwasher is level. (See Installation Instructions.)

Normal Sounds You Will Hear

- Normal sounds include water fill, water circulation and motor sounds.
- There is a noticeable change in sound when the wash action switches between the lower and middle spray arm. This is normal since each spray arm has its own sound.
- It is normal for the dishwasher to pause (no sound) when the wash action is switching between the lower and middle spray arms.
- See Normal Operating Sounds on page 3.

Water in Bottom of Tub

 Water left in the tub bottom after the cycle is complete is not normal. If water remains in the bottom of the tub, the dishwasher may not be draining properly. (See Dishwasher Does Not Drain Properly.)

Dishwasher Won't Run

- Check to see if circuit breaker is tripped or if a fuse is blown.
- · Make sure water supply is turned on.
- Check to see if cycle is set correctly. (See Operating Instructions.)
- · Is dishwasher set for delay start option?
- · Make sure door is closed and latched.

SOLUTIONS TO COMMON DISHWASHING PROBLEMS

Dishwasher Does Not Drain Properly

- If unit is hooked up to a food waste disposer, make sure the disposer is empty.
- Check to see if the knockout plug has been removed from inside the food waste disposer inlet.
- · Check to see if drain hose is kinked.
- Make sure cycle is complete, not in a pause.

Cycle Takes a Long Time

- · Is cycle in a water heating delay?
- · Has the delay start option been selected?
- Has the sanitize option been selected? Selecting this option will lengthen teh cycle.

Dishwasher Won't Fill

- Is water supply turned on?
- Does overfill protector move up and down freely? (See Overfill Protector section.)

Dishwasher Has an Odor

- Soiled dishes left in dishwasher too long can create an odor. Use Rinse Only cycle.
- There will be a "new" smell when first installed. This is normal.
- Check to see if unit is draining properly. (See Dishwasher Does Not Drain Properly.)

Stains on Tub Interior

 Washing large amounts of dishware with tomato based soil can cause a pink/orange appearance. This will not affect performance and will gradually fade over time. Pre-rinsing or using the Rinse Only cycle will reduce the chance of staining. Using no heat dry option will lessen staining.

Removing Spots and Film

Hard water can cause lime deposit buildup on the interior of the dishwasher. Dishes and glasses may also get spots and film for a number of reasons. (See Glassware/Flatware Spotted or Cloudy section.) To remove buildup, spots and film, clean using the following instructions:

- 1. Load clean dishes and glasses in normal manner. Do not load any metal utensils or silverware.
- 2. Do not add detergent.
- 3. Select the NORMAL WASH cycle. Close and latch door. Press START/CANCEL pad.
- 4. Allow dishwasher to run until it starts the second water fill (approximately 10 minutes).
- 5. Unlatch and open door and pour 2 cups of white vinegar into the bottom of dishwasher.
- 6. Close and latch door and allow cycle to finish.



If these conditions persist, a home water softener should be considered.

To customize your dishwasher to match your cabinets:

- You will need a trim kit.
- See Step 10 of Installation Instructions that came with your dishwasher for more information.

Your appliance is covered by a one year limited warranty. For one year from your original date of purchase, Electrolux will pay all costs for repairing or replacing any parts of this appliance that prove to be defective in materials or workmanship when such appliance is installed, used and maintained in accordance with the provided instructions.

Exclusions

This warranty does not cover the following:

- 1. Products with original serial numbers that have been removed, altered or cannot be readily determined.
- 2. Product that has been transferred from its original owner to another party or removed outside the USA or Canada.
- 3. Rust on the interior or exterior of the unit.
- 4. Products purchased "as-is" are not covered by this warranty.
- 5. Food loss due to any refrigerator or freezer failures.
- 6. Products used in a commercial setting.
- 7. Service calls which do not involve malfunction or defects in materials or workmanship, or for appliances not in ordinary household use or used other than in accordance with the provided instructions.
- 8. Service calls to correct the installation of your appliance or to instruct you how to use your appliance.
- 9. Expenses for making the appliance accessible for servicing, such as removal of trim, cupboards, shelves, etc., which are not a part of the appliance when it is shipped from the factory.
- 10. Service calls to repair or replace appliance light bulbs, air filters, water filters, other consumables, or knobs, handles, or other cosmetic parts.
- 11. Surcharges including, but not limited to, any after hour, weekend, or holiday service calls, tolls, ferry trip charges, or mileage expense for service calls to remote areas, including the state of Alaska.
- 12. Damages to the finish of appliance or home incurred during installation, including but not limited to floors, cabinets, walls, etc.
- 13. Damages caused by: services performed by unauthorized service companies; use of parts other than genuine Electrolux parts or parts obtained from persons other than authorized service companies; or external causes such as abuse, misuse, inadequate power supply, accidents, fires, or acts of God.

DISCLAIMER OF IMPLIED WARRANTIES; LIMITATION OF REMEDIES

CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR OR REPLACEMENT AS PROVIDED HEREIN. CLAIMS BASED ON IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR OR THE SHORTEST PERIOD ALLOWED BY LAW, BUT NOT LESS THAN ONE YEAR. ELECTROLUX SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES SUCH AS PROPERTY DAMAGE AND INCIDENTAL EXPENSES RESULTING FROM ANY BREACH OF THIS WRITTEN LIMITED WARRANTY OR ANY IMPLIED WARRANTY. SOME STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES, SO THESE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WRITTEN WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

If You Need Service

Keep your receipt, delivery slip, or some other appropriate payment record to establish the warranty period should service be required. If service is performed, it is in your best interest to obtain and keep all receipts. Service under this warranty must be obtained by contacting Electrolux at the addresses or phone numbers below.

This warranty only applies in the USA and Canada. In the USA, your appliance is warranted by Electrolux Major Appliances North America, a division of Electrolux Home Products, Inc. In Canada, your appliance is warranted by Electrolux Canada Corp. Electrolux authorizes no person to change or add to any obligations under this warranty. Obligations for service and parts under this warranty must be performed by Electrolux or an authorized service company. Product features or specifications as described or illustrated are subject to change without notice.

USA 1.800.944.9044 Electrolux Major Appliances North America 10200 David Taylor Drive Charlotte, NC 28262

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Canada 1.800.265.8352 Electrolux Canada Corp. 5855 Terry Fox Way Mississauga, Ontario, Canada L5V 3E4