FIREMAGIC

Cold Storage Double Drawer Refrigerator

Model # 24-REF-DD

INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

INSTALLER: Leave these instructions with consumer.
CONSUMER: Retain for future reference.



Important: READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION OR USE. KEEP THIS MANUAL IN A SAFE PLACE AFTER READING IT.

WARNINGS

This product is intended for household use.

WARNING and CAUTION indicators are used throughout this manual. The information is important for safe and efficient installation and operation of the appliance.

CAUTION: If the instructions are not observed, a situation that may result in product damage, serious injury, or death.

Proper installation of the appliance is of the utmost importance. The product should be installed by a qualified professional service technician.

Before installing the product, read this installation manual in full. The manual contains detailed instructions and safety requirements to be observed during installation. If you have any questions about installation, contact your dealer.

Important: When designing or manufacturing the appliance, safety matters and functions are accorded the utmost importance. This appliance is designed and certified according to the UL 60335-2-24 safety standard. The company does not bear any responsibility or liability for products that are modified, installed with parts not supplied or approved, or used incorrectly. R.H. Peterson reserves the right to change product specifications and design at any time without prior notice.

SOFT-CLOSE DRAWER SAFETY

Maximum load capacity: 50 lbs per drawer. Do not overload.

Do not slam or forcefully close the drawer.

Gentle pushing is required for normal soft-close function. Improper use may cause damping failure.

SGS

Certified to:
UL 60335-1
ANSI/UL 60335-2-24
Safety of Household and Similar Appliances
CAN/CSA C22.2 No. 60335-1
Safety of Household and Similar Electrical Appliances
CAN/CSA C22.2 No. 60335-2-24

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IMPORTANT INFORMATION

WARNING: This appliance must be safely stored and disposed of. The refrigerant and insulation blowing gas are flammable. When disposing of the appliance, do so only at an authorized waste disposal centre. Do not expose to flame. See the DECOMMISSING / DISPOSAL section and the IMPORTANT box below.

WARNING: Do not use mechanical devices of other means to accelerate the defrosting process, other than those recommended by the manufacturer.

WARNING: Service must be done by factory authorized service personnel. Any parts shall be replaced with like components. Failure to comply could increase the risk of possible ignition due to incorrect parts or improper service.

WARNING: This symbol  is a warning and indicates the refrigerant and insulation blowing gas are flammable. **Risk of fire / flammable materials.**

WARNING: This appliance uses flammable gas  cyclopentane as a blowing agent for its insulation.

Please check and obey all federal, state, and local regulations regarding the environmentally safe disposal of this product.

WARNING: Refrigerant and foaming material is flammable. Take extra caution with all maintenance, installation, handling and processing this product. Contact a specialized department for wasted products, do not discard freely. See section R-600A HANDLING.

WARNING: Keep clear of obstruction to all ventilation openings in the appliance enclosure or in the structure for building-in.

WARNING: Do not damage the refrigerating circuit.

WARNING: Do not store explosive substances such as aerosol cans with flammable propellant in this appliance.

WARNING: 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.

WARNING: Children should be supervised to ensure they do not play with or climb on the appliance.

WARNING: Do not hang from its drawers, sit or stand on the appliance. They could damage the cooler.

IMPORTANT

This product cannot be treated as household waste. Instead, it should be taken to the appropriate waste collection point for the recycling of electrical and electronic equipment. This will help prevent potential negative consequences for the environment and human health, which could otherwise be cause by inappropriate waste handling.

Risk of child entrapment and suffocation. Before disposal of your old appliance, remove the double drawers in place so children may not easily climb inside. Junked or abandoned appliance is still dangerous even if just "sitting in the garage for a few days".

Contact your local council, household waster disposal service, or the shop where you purchased the product. Do not discard freely. See DECOMMISSING / DISPOSAL section for more details.

IMPORTANT INFORMATION (cont.)

For safety, the product should be installed and used with caution in accordance with this manual. Incorrect installation or careless use of the product may cause damage or injury to the environment, humans, animals, and/or materials and property. Only use your double drawer refrigerator for intended purposes, as described in this guide. The manufacturer does not bear any responsibility for any damage or injury.

UNPACKING

CAUTION: If the appliance was shipped, handled, or stored in other than an upright position for any period of time, allow the appliance to sit upright for a period of at least 24 hours before plugging in. This will assure oil returns to the compressor. Plugging the appliance in immediately may cause damage to internal parts.

Important: When moving the product using a hand truck or dolly, place the dolly at the side of the product and shut or fix the door tightly to avoid possible opening during movement. Do not tilt the appliance at an angle of more than 45°.

Note: Protect the bottom of the appliance with a suitable material to avoid possible damage when moving product.

Note: Keep your carton and packaging until your appliance has been thoroughly inspected and found to be in good condition. If there is damage, the packaging will be needed as proof of damage, the packaging will be needed as proof of damage in transit. Afterwards please dispose of all items responsibly.

After removing the packing materials, check the appearance of the appliance for possible defects or irregularities.
If the product shows any irregularity in its appearance, contact the dealer to inquire about it.
All the packing materials (strings, box, styrofoam, and wood, etc.) should not be left within reach of children and should be disposed of responsibly.
Open the double drawers and check to see that the inside is complete (drawer dividers, handle, display panel, etc.)
Use a clean soft cloth with soapy water solution to clean the interior, rinse carefully. Clean often during use. See ROUTINE MAINTENANCE AND CLEANING section.

VENTILATION/ CLEARANCE REQUIREMENTS

WARNING: Ventilation openings in the appliance enclosure or in the built-in structure must be kept clear of obstructions.

All ventilation requirements must be met to ensure proper operation of the appliance. If installing under a countertop, ensure the clearances are met at all times.
For custom enclosures, all ventilation requirements above and the clearance information below **MUST** be followed (see Fig. 4-1 and Fig. 4-2):

- The unit must have a minimum clearance of 14" away from any heat source.
- Minimum of 3" inside the enclosure between the rear of the appliance to the rear wall.
- Minimum of 2" inside the enclosure between the left or right side of the appliance to wall.

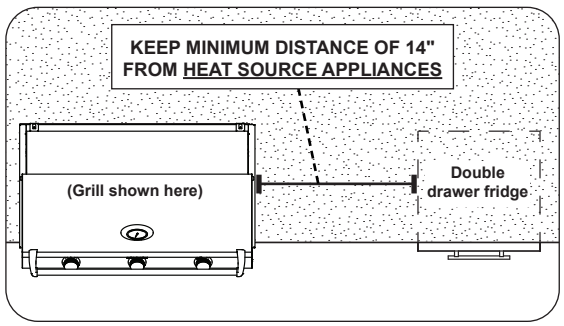


Fig. 4-1 Clearance to heat source appliances

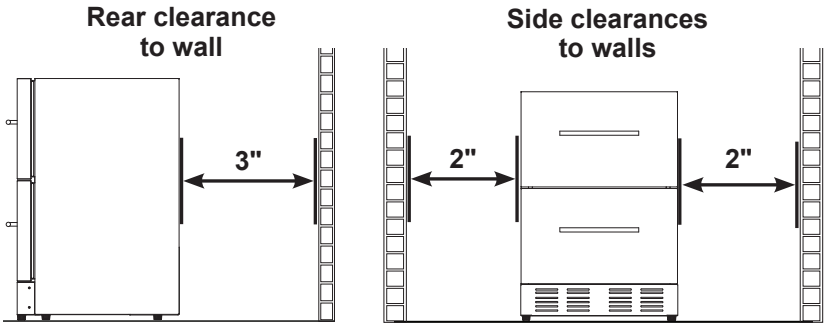


Fig. 4-2 Cut out wall clearances

MAINTENANCE AND CLEANING

Proper operation and long-lasting performance of the appliance requires routine maintenance and cleaning, see the ROUTINE MAINTENANCE AND CLEANING section for details.

Important: **The unit must remain removable for servicing. Do not install any material at the front, upper or lower end of the product which may prevent removal of the unit.**

ELECTRICAL SAFETY INFORMATION

- To protect against electric shock, do not immerse cord or plugs in water or other liquid.
- Unplug from the outlet when not in use and before cleaning.
- **CAUTION: Risk of Electric Shock - Switch in OFF position does not de-energize the unit.**
- Do not operate any appliance with a damaged cord, plug, or after the appliance malfunctions or has been damaged in any manner. Contact the manufacturer for repair.
- Immediately repair or replace any worn or damaged cord, never use a cord that is split or which shows signs of wear along its length or on its ends.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- Do not let the cord touch hot surfaces.
- Do not use this appliance for purposes other than intended.
- **Use only a properly wired and inspected 120VAC (15 AMP minimum) Ground Fault Circuit Interrupter (GFCI) GROUNDED 3-wire receptacle with this appliance.**
- The GFCI receptacle must be a WEATHER-PROOF IN-USE COVERED RECEPTACLE.
- Never remove the grounding plug or use with an adapter of 2 prongs.
- Do not use an extension cord or powerstrip. They can be hazardous and can degrade product performance.
- When positioning the appliance ensure the supply cord is not trapped or damaged.
- **The provisions of the National Electric Code as well as any local codes must be observed when installing the product.**

SPECIFICATIONS AND DIMENSIONS

Description		Measurement	Specification
Rated power		V / A / Hz	115V / 0.8 A Max / 60Hz
Power consumption		W	MAX 120
Overall dimension		W x D x H (inch)	23 7/16 x 22 5/6 x 34 1/4
Weight	Net	lb	109.3
	Gross	lb	127.9
Volume		cu. ft	5.3
Interior		--	Slide out stainless steel drawers with storage dividers, white interior LED light, touch control board with LED temperature display
Exterior		--	**Top, front, sides:** durable stainless steel with handle
Storage capacity		lb	50 / drawer
Refrigerant		--	R-600a/ 32g
Condenser		--	Air-cooled
Temperature range		°F (°C)	34~50 °F (1~10 °C)
Foaming agent		--	Cyclopentane

Table 1 - Product Specifications

SPECIFICATIONS AND DIMENSIONS (cont.)

Model	Height (Top to bottom)		Width (Left to right)	Depth (Front to back)			
	Maximum height **(A)**	Leveler legs maximum height **(B)**	Maximum width **(C)**	With drawers CLOSED **(D)**	With drawers OPENED **(E)**	Body only **(F)**	Handle only **(G)**
24-REF-DD	34 1/2"	1"	23 1/2"	23"	38 1/2"	20 1/2"	1 1/2"

Table 2 Unit dimensions

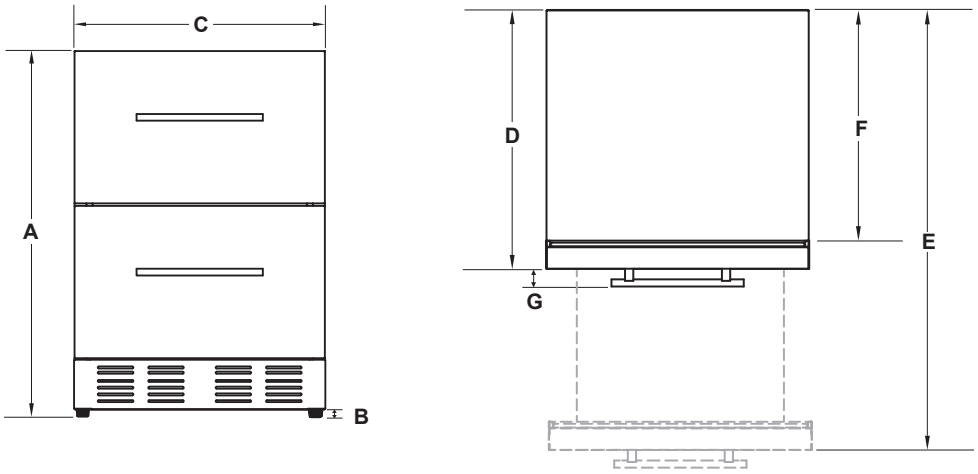
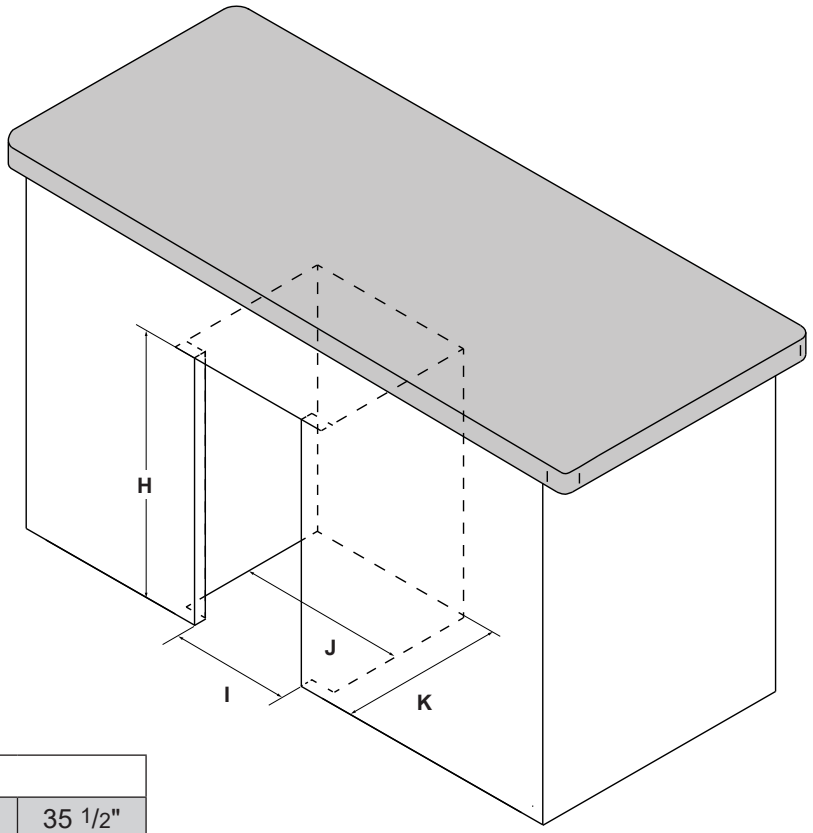


Fig. 6-1 Unit dimensions

Note: If using a trim kit (#3822) (purchased separately), cut-out dimensions remain the same.

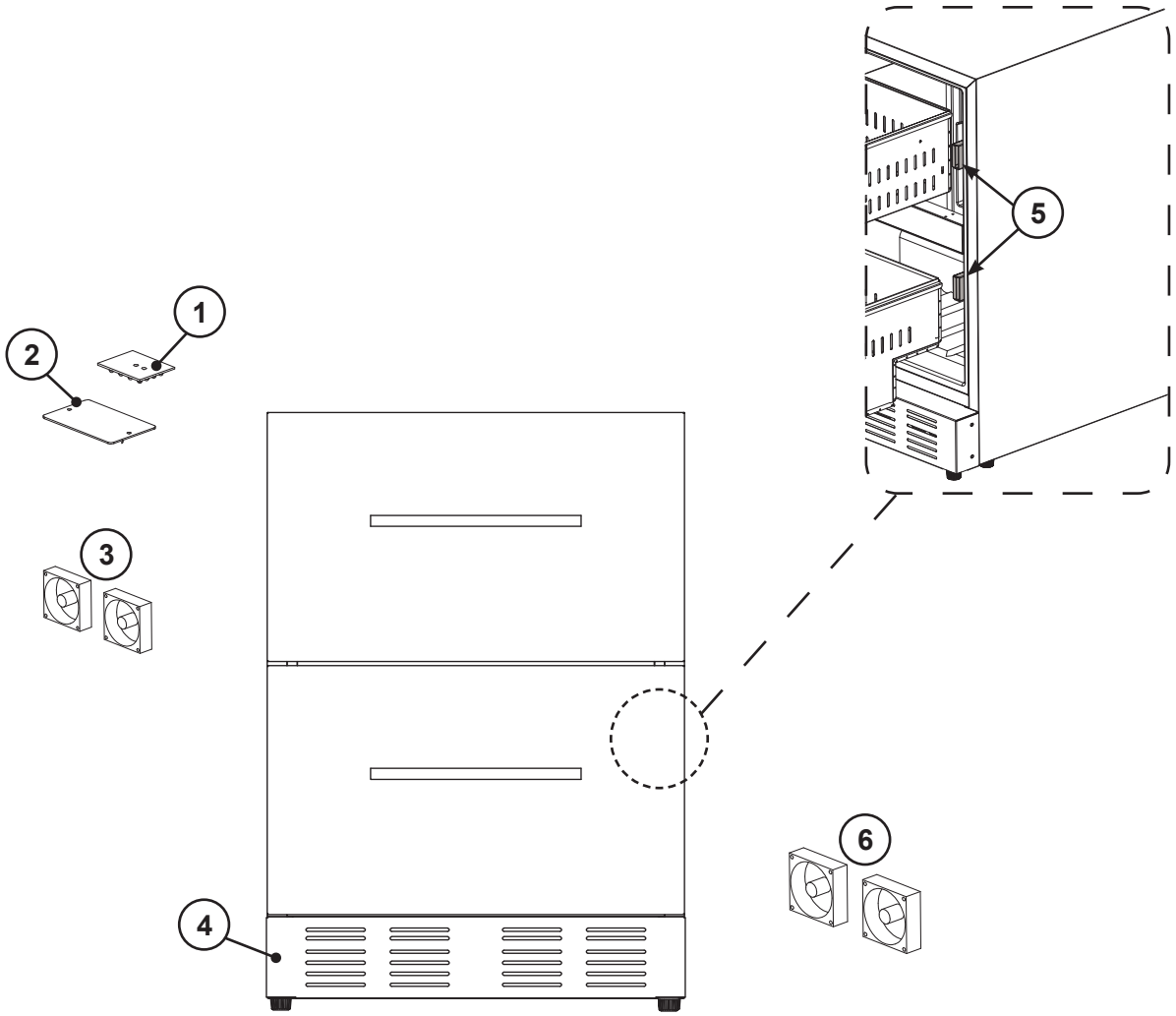


Cut-out/ clearance dimensions	
H Height (top to bottom) min. **cut-out/ clearance**	35 1/2"
I Front wall width (side to side) **cut-out/ clearance**	25"
J Width (side to side) **cut-out/ clearance**	27 1/2"
K Depth (front to back) min. **cut-out/ clearance**	26"

Table 3 Cut-out/ clearance dimensions

Fig. 6-2 Cut-out/ clearance dimensions diagram

DOUBLE DRAWER FRIDGE REPLACEMENT PARTS LIST



Part replacement must be performed by a qualified service technician

Item	Description	Qty.	Part No.
1.	LED light	1	REF-1
2.	LED light cover	1	REF-2
3.	Evaporator fan	2	REF-3
4.	Front ventilation kick guard	1	REF-4-DD
5.	Guide rail	2	REF-5-DD
6.	Condenser fan (set of 2)	1	REF-6-2

INSTALL DOUBLE DRAWER REFRIGERATOR

Important: When moving the product using a hand truck or dolly, place the dolly at the side of the product and shut or fix the drawers tightly to avoid possible opening during movement. **Do not tilt the appliance at an angle of more than 45°.**

Important: **The unit must remain removable for servicing. Do not install any material at the front, upper or lower end of the product which may prevent removal of the unit.**

1. Choose a location for your appliance and ensure it meets all requirements stated in this manual. See the IMPORTANT INFORMATION section.

Note: It is recommended to locate the appliance out of direct sunlight and rain.

2. Place the appliance onto a flat level surface strong enough to support the weight when fully loaded.
3. Level the appliance by adjusting the (6) leveling legs. See Fig. 8-1 and following the steps below:
   - With the assistance of another person, lean the appliance back to adjust the (4) front legs. Repeat the process for the (2) rear legs by tilting the appliance forward using caution.
   - Turn counterclockwise to raise the unit, or clockwise to lower it. See Fig. 8-1.
4. As applicable, check that all interior components are properly placed.
5. Remove the zip ties from the drawer dividers inside of the refrigerator drawers.

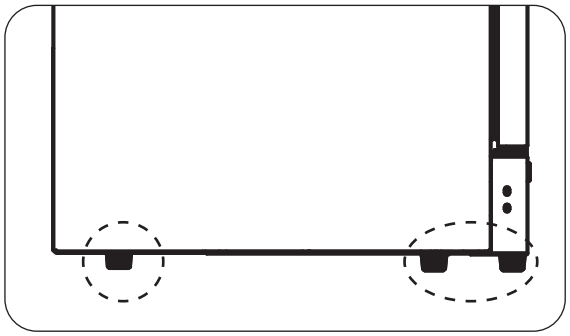


Fig. 8-1 Leveling legs

INSTALL HANDLE

Locate the handle and two screws (pre-installed onto the drawer's door). See Fig. 8-2 and follow the steps below:

- Fasten the handle in the location of the pre-installed screws using a screwdriver.
- Tighten securely and close drawer.
- Repeat for the second drawer.

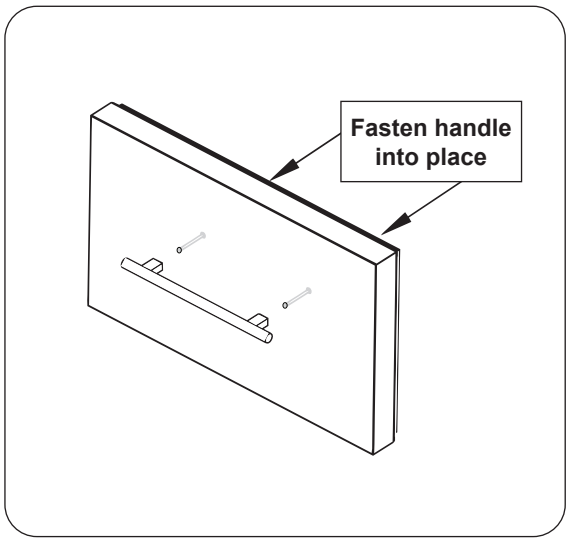


Fig. 8-2 Install handle

CONNECT TO POWER

Important: If product needs to be moved, do not tilt the appliance at an angle of more than 45°. Once positioned, allow 10 minutes for the appliance to rest, before connecting.

Check the plug and cable for any damage before connecting to the power source.

Ensure that your power source has the correct voltage. See the ELECTRICAL SAFETY INFORMATION section for more details.

Connect to the power source.

Note: It may take up to 24 hours for your refrigerator to cool.

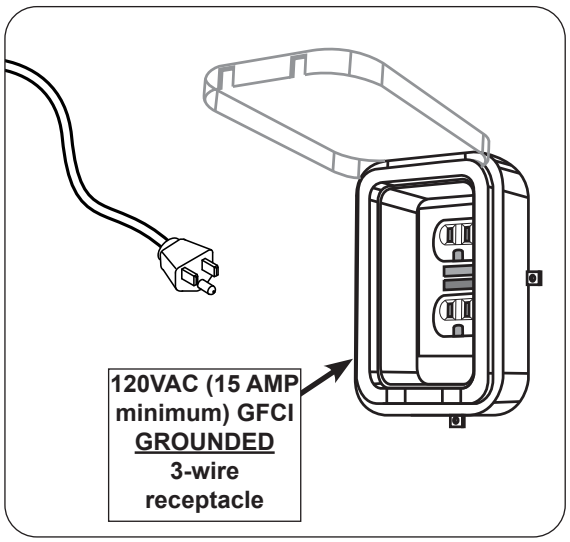


Fig. 8-3 Connect to power

OPERATION SAFETY INFORMATION

Refer to the IMPORTANT INFORMATION section for safety details when operating your double drawer refrigerator.

Contain liquids properly to avoid leaks and/or damage to the appliance.

Do no overload the drawers. Spread items evenly so that the weight is not concentrated in one area of the unit. Ensure items do not touch the back of the cabinet.

Important: Never try to move a loaded drawer, remove everything from the drawer before moving. Use both hands when moving the drawer.

CAUTION: Do not obstruct the front grille. The openings within the front grille allow air to flow through the condenser heat exchanger. Restrictions to this air flow will result in increased energy usage an loss of cooling capacity. For this reason it is important this area not be obstructed and the grille opening kept clean. Fire magic does not recommend the use of a custom made grille as air flow may be restricted.

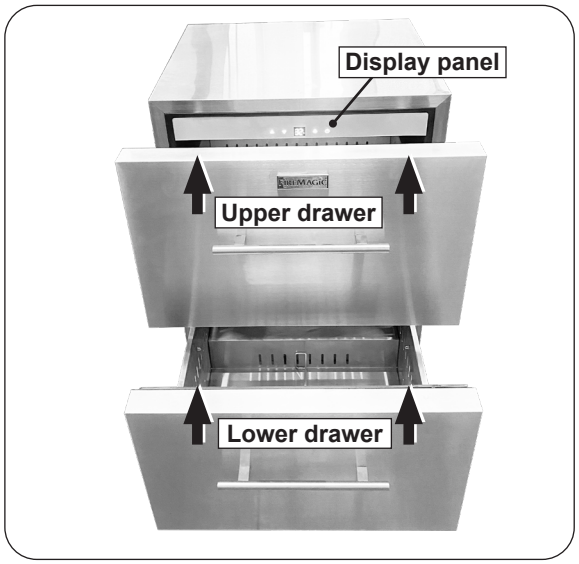


Fig. 9-1 Double drawers

USING THE DOUBLE DRAWER REFRIGERATOR

This appliance offers two drawers to store refrige rated items using a temperature control display panel. See Fig. 9-1

Gently push the drawer inwards to use soft close function.

WARNING: Do not slam or forcefully close the drawer. Improper use may cause damping failure.

Ensure each drawer can be closed firmly, when loaded.

Maximum load capacity: 50 lbs per drawer. Do not overload.

Do not block the air vents on the top drawer to help prevent the blockage of airflow throughout appliance. See Fig. 9-2.

Turn on your appliance by pressing the power button on the display panel. See Fig. 9-3.

Use the up and down arrows to set your desired temperature as applicable.

Note: It may take up to 24 hours for your refrigerator to reach desired temperature. This will depend on the amount of content loaded and how often the drawer is opened.

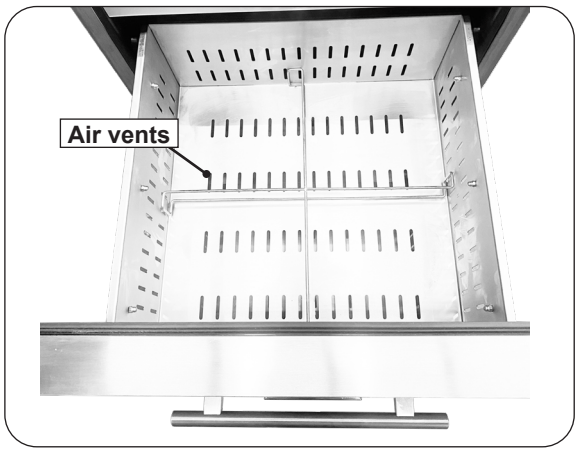


Fig. 9-2 Drawer air vents

Temperature range setting:

34~50 °F (1~10 °C)

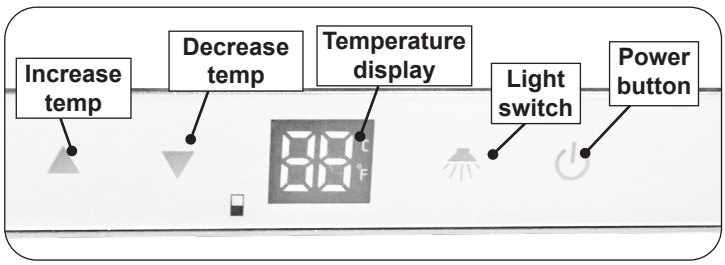


Fig. 9-3 Display panel

- Press and hold the up and down arrows on the temperature display to exchange between °C and °F.
- Use the arrows to increase or decrease the desired set temperatures.
- Keep the drawer openings to a minimum as the refrigerator reaches desired temperature.

CAUTION: In the unlikely event you lose cooling in your unit, do not unplug the product from the electric supply, but do call a qualified service technician immediately. It is possible that the loss of cooling capacity is a result of excessive frost build-up on the evaporator cooling coil. In this case, removing power to the unit will result in the melting of this excessive quantity of ice, which could generate melt water that exceeds the capacity of the defrost drain system and could result in water damage to your home. The end-user will be ultimately responsible for any water damage caused by prematurely turning the unit off without appropriately managing the excess water run-off.

- Press the light switch to turn on the interior light.

Note: The light will remain on indefinitely until the light are manually turned off.

ROUTINE MAINTENANCE AND CLEANING

To assure that your appliance provides long-lasting service, you should check it regularly. If anything unusual is found, Contact your dealer. All the exterior and interior parts of the product should be kept clean.

CAUTION: Before service or cleaning is performed, ensure the switch is in the OFF position and the power supply is disconnected.

CAUTION: It is strongly recommended to periodically inspect and thoroughly clean crevices, weld point, under gaskets, rivets, bolt heads, and any locations where small amounts of liquid could collect, become stagnant, and concentrate contaminates. Additionally, any mounting hardware that is showing signs of corrosion should be replaced.

CAUTION: Never clean appliance parts with flammable fluids. The fumes can create a fire hazard or explosion.



Fig. 10-1 Wipe with grain

EXTERIOR

The exterior of the appliance should be cleaned by first using stainless steel cleaner to remove grease and dirt. Always wipe with the grain (see Fig. 10-1). Next, apply stainless steel polish and wipe down using polish wipes.

If the gasket has spots/stains on its surface, remove and clean using soap and warm water. Use non-abrasive cloths or pads. Once cleaned, press the gasket back into position onto the drawer(s) as previously removed. Repeat for the other drawer gasket, if applicable.

Remove dust from the outside box twice a year.

INTERIOR

Clean the inside of your appliance thoroughly at least once a year.

Use water and mild cleaning product for the interior of the appliance, then rinse carefully.

Remove the drawers as needed, see below.

DOUBLE DRAWERS

Remove the drawer: Completely pull out the drawer. Release the drawer from the drawer slides by pressing the black lever down on the right side, and up on the left side (Fig 10-2). Then pull outward on the drawer until it comes free of the runners.

Install the drawer: Insert the drawer railings into the drawer slides and push the drawer inwards into the housing until the latch is connected. Open the drawer to verify that it is correctly installed into place.

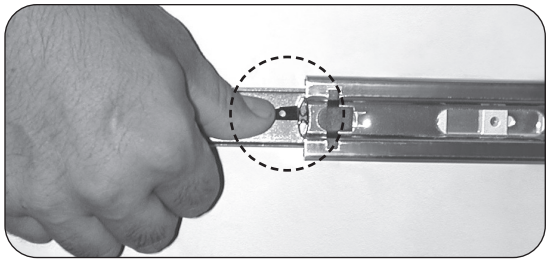


Fig. 10-2 Releasing drawer from slides

SERVICE OF DOUBLE DRAWER FRIDGE

ALL SERVICE AND CLEANING MUST BE DONE BY A QUALIFIED SERVICE TECHNICIAN.

Illuminating lamp:

WARNING: The LED illuminating lamp must only be replaced by a quailified professional service technician.

CONDENSER

MUST BE DONE BY A QUALIFIED SERVICE TECHNICIAN.

The condenser should be cleaned 2-3 times a year to remove any lint that has penetrated the condenser. When cleaning the condenser, remove the front cover plate using a screwdriver. Then remove any dust and lint from the condenser using a soft bristle brush and/or vacuum brush.

Important: To avoid possible bending of the condenser fins, clean the condenser in the direction of the fins (up and down).

CAUTION: If the condenser is not cleaned, the temperature may drop or the machine may experience technical problem or sustain damage.

APPLIANCE CARE

Avoid leaning on the drawers, you may bend the floor hinges or tip the appliance.

Exercise caution when sweeping, vacuuming or mopping near the front to the appliance. Damage to the grille can occur.

Be sure that nothing obstructs the required air flow openings in front of the appliance. At least once or twice a year, brush or vacuum lint and dirt from the front grille area.

OUTDOOR PRODUCT LONG-TERM STORAGE / WINTERIZATION:

It is time to winterize, when daily low ambient temperature is at or below 30 °F (3.3 °C).

CAUTION: Operation of the unit at ambient temperatures below the recommended Winterization temperature will void your warranty.

1. Turn unit off.
2. Remove all contents.
3. If, necessary move the unit so you can gain access to the rear of the product. Do not tilt at 45°angle
4. Unplug the unit from the power outlet.
5. It is also recommended that the power to the outlet be turned-off if the circuit is not required for other items during the Winter season.
6. When cleaning unit pay particular attention to any cracks and crevices that may have accumulated dirt and debris.
7. Remove the front toe-grille and use a brush or vacuum to clean dirt and debris from beneath the unit.
8. Thoroughly clean the toe-grille and re-install on the unit.
9. Remove the rear access cover, and use a brush and vacuum to clean dirt and debris from the machine compartment.
10. Thoroughly clean the rear access cover and re-install on the unit.
11. Wipe down all interior surfaces with anti-bacterial cleaner to be followed with clean rinse water to remove any residual chemicals which could cause staining. Do not use any abrasive cleaners or scouring pads.
12. Leave the drawers open and allow to completely dry out before closing the drawers.
13. Thoroughly clean the drawer(s) gasket with anti-bacterial cleaner to be followed with clean rinse water to remove any residual chemicals.
14. Thoroughly clean the exterior with a cleaner approved for stainless steel. Do not use any abrasive cleaners or scouring pads. See the ROUTINE MAINTENANCE AND CLEANING section for details.
15. Any mounting hardware / fasteners that are showing signs of corrosion should be replaced.
16. Once the exterior has been thoroughly cleaned, you may want to apply a coating of car wax to help protect against spotting from moisture, dirt, and debris that may accumulate on the surfaces during the Winterization period.
17. Do not place a cover on the unit, as this can trap condensation

Note: You may choose to install the store the unit indoors, although this is not required.

Start-Up After Long-Term Storage:

If stored outside, it is recommended that the unit again be thoroughly inspected per the storage instructions above to address any dirt or debris from the weather and/or animals/insects.

1. Connect the unit to electrical power.
2. Turn unit on and confirm your desired control settings.
3. Allow 24-hrs for the unit to stabilize before loading contents.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Appliance does not operate	**1.** Appliance is unplugged	**1.** Plug the appliance in.
	2. Breaker tripped	**2.** Reset breaker - if it happens again, call an authorized service center.
	3. Switch turned to “OFF”, no power	**3a.** Ensure appliance is connected to power with the correct voltage.
		3b. Turn switch to “ON”.
Appliance not cooling	**1.** Not proper clearance to heat sources	**1.** Remove heat source or relocate the appliance.
	2. Not proper ventilation	**2.** See VENTILATION section to meet necessary requirements.
	3. Drawer not closed properly or opened for too long	**3.** Keep the refrigerator closed and secured.
	4. Drawer sealing problem or deformation	**4.** Ensure that all components have been inspected with no damage. Contact dealer.
	5. Loading too much into drawers	**5.** Distribute items evenly throughout the appliance as applicable.
	6. Air inlet or outlet blocked	**6.** Contact dealer.
	7. Control setting needs adjustment	**7.** Set temperature as applicable.
	8. Control malfunction	**8.** Contact dealer.
	9. Compressor does not operate properly or at all.	**9a.** Ambient temperature is below the recommended winterization temperature.
		9b. Contact the dealer.
	10. No airflow	**10a.** Fan motor does not operate or fan blade is broken, must be replaced. Contact your dealer.
		10b. Condenser completely blocked, must be cleaned.
	11. Not enough refrigerant	**11.** Contact dealer.
Noisy	**1.** Appliance is not leveled	**1.** Use the bottom leveling legs to make sure appliance is leveled.
	2. The appliance touches the wall	**2.** See VENTILATION section for correct placement.
	3. Some parts are loose or taken off	**3.** Inspect the appliance for all components for damaging or missing parts. Contact the dealer.
Turn on and off frequently	**1.** The appliance is reaching temperature.	**1.** The room temperature is hotter than normal.
	2. Overloaded appliance	**2.** Distribute items evenly throughout the appliance as applicable.
	3. Control setting adjustment	**3.** Set correct temperature.
	4. Not enough refrigerant	**4.** Contact dealer.
	5. Hot and humid conditions	**5.** This may be normal to maintain constant temperature during high temperatures and humid days.
	6. Drawer not closed properly or opened for too long	**6.** Keep the refrigerator door closed and secured.
The drawer will not close properly	**1.** The appliance is not leveled	**1.** Use the bottom leveling legs to make sure appliance is leveled.
	2. The appliance was not properly installed	**2.** Ensure all requirement have been met in this manual. See the INSTALLATION section for more details.
	3. Drawers not properly positioned	**3.** See the INSTALLATION section for more details.
The light does not work	**1.** Not plugged in	**1.** Ensure that the appliance is plugged in correctly.
	2. Breaker is tripped or fuse has blown	**2.** Reset breaker - if it happens again, call an authorized service center.
	3. LED circuit board is burnt out	**3.** Replace illuminating light. Contact your dealer.
	4. Switch turned to “OFF”, no power	**4a.** Ensure the appliance is connected to power with the correct voltage.
		4b. Turn switch to “ON”.

APPLIANCE COMPRESSOR

Note:

- The compressor will not start if the room temperature is lower than the desired temperature, but item is still working with heater inside till desired temperature achieved.
- The compressor will stop working when cooling system in the appliance reaches presetting temperature, and re-start working until the desired temperature is achieved. Allow a minimum 5 minute interval before re-starting.
- Condensation formed inside the appliance is caused with high level humidity or the drawers of the refrigerator has been left open for a long period. Frequently, wipe off the drawers and walls and leave the drawers closed as long as possible.

R-600A REFRIGERANT HANDLING

REQUIREMENT FOR SERVICE AND INSTALLATION OF APPLIANCES USING FLAMMABLE REFRIGERANTS

⚠ DANGER

- Never apply a torch to a charged R-600a refrigeration system. R-600a is considered non-toxic but is flammable when mixed with air.
- Under no circumstances shall the potential sources of ignition be used in the searching for or detection of refrigerant leaks. Do not pierce or burn.
- The appliance shall be stored in a location without continuously operating ignition sources.

⚠ WARNING

- Only skilled and well-trained service technicians permitted to service R-600a equipped products.
- Replace components only with parts specified by the manufacturer. Other parts can result in the ignition of refrigerant in the atmosphere from a leak.
- Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimized.
- Work shall be undertaken under a controlled procedure to minimize the risk of a flammable gas or vapor being present while the work is being performed.
- If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available on hand. A dry chemical or CO2 fire extinguisher should be adjacent to the charging area.
- Gloves and Eye Protection must be used.
- Use only a refrigerant grade R-600a from a properly labeled container.
- Do not remove or alter any R-600a labeling on the product.
- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If the evaporator is cold prior to service, it must be thawed prior to service.
- When using a vacuum pump, start pump before opening refrigerator n system. Vacuum pump and recovery equipment should be at least 10 feet from the work area.

R-600a SPECIFICATION

- R-600a is considered non-toxic but is flammable when mixed with air.
- R-600a is heavier than air, do not allow any leakage/migration to low areas such as basements and stairs. Work in confined spaces shall be avoided.
- Be aware that refrigerants may not contain an odor and color.

⚠ WARNING: Only skilled and well-trained service technicians permitted to service R-600a equipped products.

LEAK DETECTION

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres.
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Electronic leak detection or soap solution can be used to check for nitrogen/helium leaks.
- If a leak is suspected, all naked flames shall be removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.
- The high side of the refrigeration system (compressor discharge to outlet of drier) must be leak tested with the compressor running.
- The low side of the refrigeration system (evaporator, compressor and suction line) must be leak tested with the compressor off (equalized pressure).

NO IGNITION SOURCES

- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment shall be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

VENTILATED AREA

- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

CHECKING TO THE REFRIGERATING EQUIPMENT

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times, the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt, consult the manufacturer’s technical department for assistance.

CHECKING TO ELECTRICAL DEVICES

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.

Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

⚠ **WARNING: Only skilled and well-trained service technicians permitted to service R-600a equipped products.**

R-600A REFRIGERANT HANDLING (cont.)

REFRIGERANT CHARGING

- No air is ever to be allowed inside the refrigeration system (R-600a refrigerant or dry nitrogen only).
- Ensure that contamination of different refrigerants does not occur when using charging equipment.
- Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is earthed prior to charging the system with refrigerant.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas.
- The system shall be leak-tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.

REFRIGERANT RECOVERY

- R-600a has been exempted from recovery/reclaiming requirements by the US EPA.
- Recovery/Reclaiming equipment must be approved for use with R290/R600a.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- Do not overfill cylinders (no more than 80 % volume liquid charge).

⚠ **WARNING: Only skilled and well-trained service technicians permitted to service R-600a equipped products.**

REFRIGERANT SAFETY

SYSTEM REPAIR

- Be aware that malfunction of the equipment can be caused by refrigerant loss and a refrigerant leak is possible.
- Discharge capacitors in a way that won't cause any spark.
- When brazing is required, Safely remove the refrigerant following local and national regulations.
- Take care that the drained refrigerant will not cause any danger. Take special care that drained refrigerant will not float back into the building.
- Carry out a leak test before charging with refrigerant.

DECOMMISSIONING / DISPOSAL

If the unit is being removed from service for disposal, check and obey all federal, state, and local regulations regarding the disposal and recycling of refrigeration appliances, and follow these steps completely:

- Remove all consumable contents from the unit.
- Unplug the electrical cord from its socket.
- Remove the double drawers or permanently close the door so children may not easily climb inside.
- The REFRIGERANT CHARGE is to be removed before decommissioning.
- Ensure sufficient ventilation at the equipment location.
- Discharge capacitors in a way that will not cause any spark.
- Put a label on the equipment that the refrigerant is removed.
- Cut out the compressor and drain the oil.

COMPRESSOR REPAIR

DANGER:

- Failure to follow electrical safety measures may result in serious injury, fire or death.
- Never handle the unit in wet conditions as this can pose a severe danger of electric shock.
- Burns from hot or cold surfaces can cause serious injury.

WARNING: Only skilled and well-trained service technicians permitted to service R-600a equipped products.

WARRANTY

ONE-YEAR WARRANTY - Fire Magic® electric accessories are warranted for one year from the date of purchase.

A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE IS REQUIRED

This warranty applies to the original purchaser for products which are installed in the United States or Canada and which are operated and maintained as intended for single family residential usage. This warranty is valid only with proof of purchase, commences on the date of purchase, and terminates (both as to original and any replacement products) on the anniversary date of the original purchase of the product per the above schedules.

This warranty **does not** cover parts which become defective as a result of negligence, misuse, or use not in compliance with the Installation and Owner's Manual, accidental damage, improper handling, improper storage, improper installation, **lack of required routine maintenance** (as specified in the Installation and Owner's Manual), electrical damage, local gas impurities or failure to protect against combustible materials. Product must be installed (and gas must be connected) as specified in the Installation and Owner's Manual by a **qualified professional installer**. This warranty **does not** apply to normal occurrences that may be expected with any outdoor product such as rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable. RHP products including valves, pilots and controls are designed and certified to be used as a system. Modifications to products which are not specifically authorized will void this warranty and could render the product to be unsafe. Burners, valves, parts, remotes, accessories, etc. used with this product must be RHP products or this warranty is void.

Warrantied items will be repaired or replaced at RHP's sole discretion. This warranty **does not** cover labor or labor related charges, except as provided by separate specific written programs from RHP. All repair work must be performed by a qualified professional service person and requires prior approval of RHP. The warranty period is not extended by such repair or replacement.

RHP may require the defective product or part to be returned to the factory to determine the cause of failure. RHP will pay freight charges if the product or part is determined to be defective. This warranty does not cover breakage in shipment from our independent distributor to its customer if the damage is determined to have occurred during that shipment.

This warranty specifically excludes liability for **indirect**, **incidental**, or consequential damages. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that vary from state to state or province.

For additional information regarding this warranty, or to place a warranty claim, contact the RHP dealer where the product was purchased.

When contacting your RHP dealer or the R.H. Peterson Co., please provide the following information:

- Your name, address, telephone number, e-mail
- Sales receipt showing where purchased and date purchased
- Model number, serial number of product, date code
- Relevant information: installer, additions, repairs, when defect was first noted

TO REGISTER YOUR PRODUCT ONLINE GO TO: WWW.RHPETERSON.COM, AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.