



# Dual Zone Wine/Beverage Cooler

Model # 24-WREF-GDR (Right hinge)

24-WREF-GDL (Left hinge)

## 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 to be used for the storage of wine and beverages.

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.



**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 or 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 shelves, 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 caused by inappropriate waste handling.**

**Risk of child entrapment and suffocation. Before disposal of your old appliance, take off the door and remove shelves 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 waste disposal service, or the shop where you purchased the product. Do not discard freely. See DECOMMISSING / DISPOSAL section for more details.**



## 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

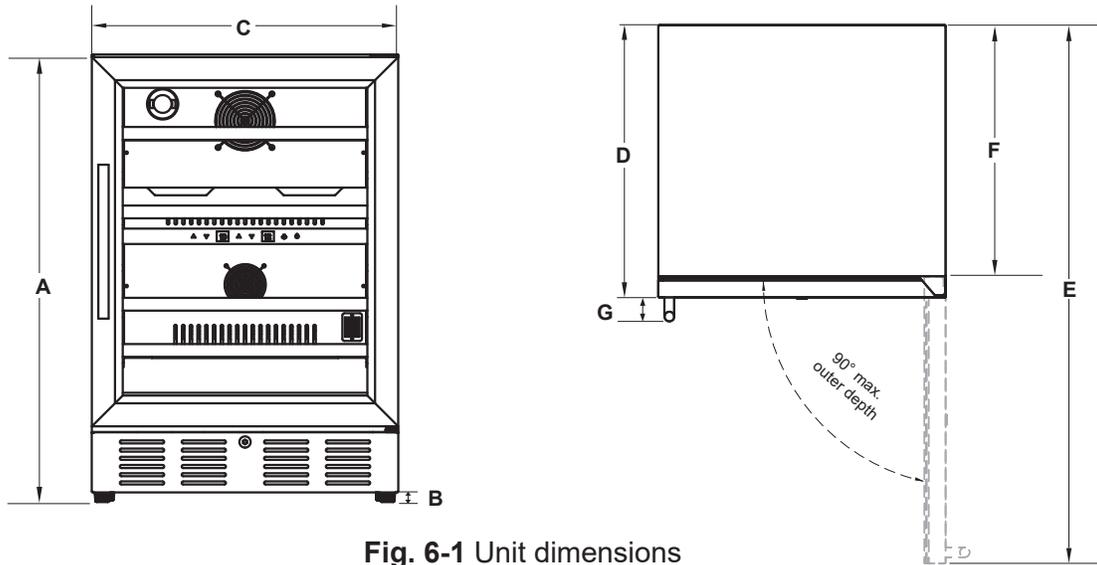
Description		Measurement	Specification
Rated power		V / A / Hz	115V / 0.8 A Max / 60Hz
Power consumption		W	MAX 120
Overall dimension		W x D x H (inch)	23 1/2 x 22 1/4 x 34 1/2
Weight	Net	lb	101.4
	Gross	lb	120.2
Volume		cu. ft	5.3
Interior		--	Top rolling rack, beech wood slide out shelves, white interior LED light, touch control board with LED temperature display
Exterior		--	<b>Top, sides:</b> durable stainless steel <b>Front:</b> stainless steel glass door with towel handle
Storage of capacity		--	41 (750ml Boreaux bottle)
Refrigerant		--	R-600a/ 32g
Condenser		--	Air-cooled
Temperature range		°F (°C)	Upper zone: 34~50 °F (1~10 °C) Lower zone: 50~72 °F (10~22 °C)
Foaming agent		--	Cyclopentane

**Table 1 - Product Specifications**

## SPECIFICATIONS AND DIMENSIONS (cont.)

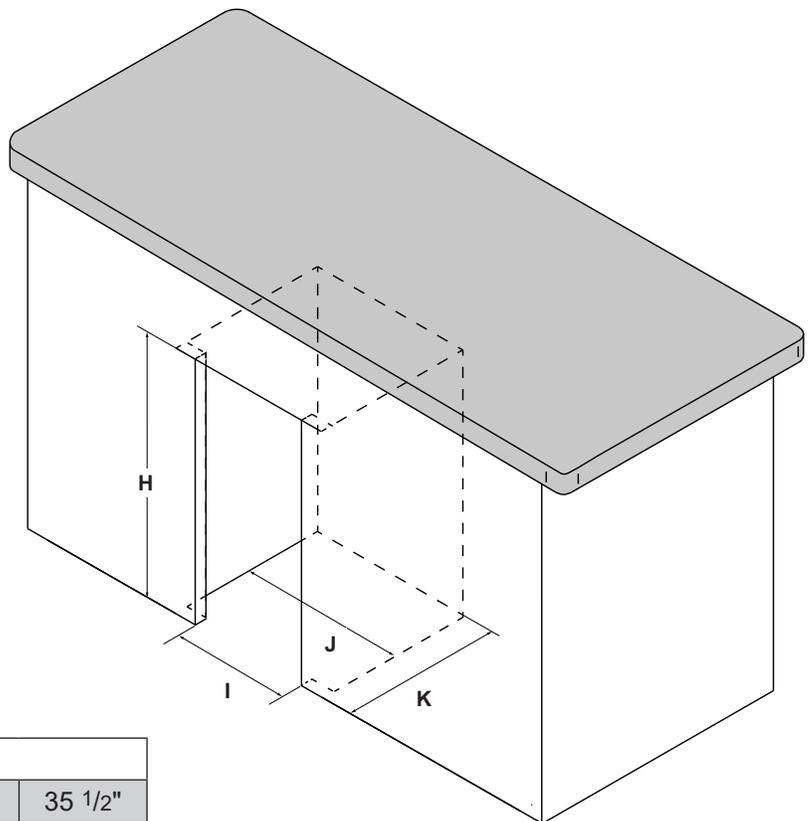
Model	Height		Width	Depth			
	(Top to bottom)		(Left to right)	(Front to back)			
	Maximum height (A)	Leveler legs maximum height (B)	Maximum width (C)	With door CLOSED (D)	With door OPENED (E)	Body only (F)	Handle only (G)
<b>24-WREF-GD(R,L)</b>	34 1/2"	1"	23 1/2"	22 1/4"	44 1/2"	20 1/2"	1 1/2"

**Table 2** Unit dimensions



**Fig. 6-1** Unit dimensions

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

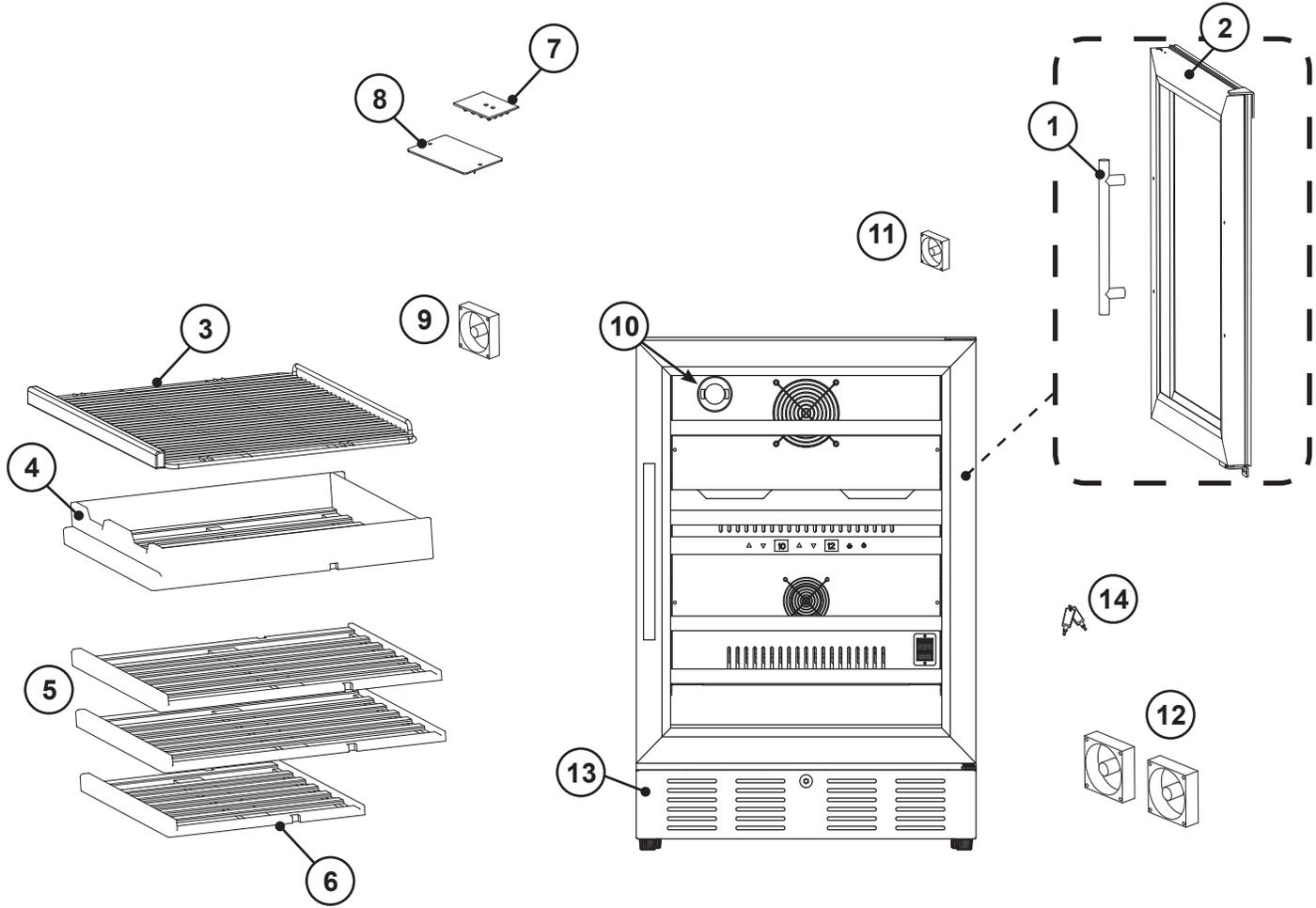


**Fig. 6-2** Cut-out/ clearance dimensions diagram

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

**Table 3** Cut-out/ clearance dimensions

# WINE BEVERAGE COOLER REPLACEMENT PARTS LIST



**Part replacement must be performed by a qualified service technician**

Item	Description	Qty.	Part No.
1.	Handle	1	WREF-1
2.	Right hinge ss glass door or Left hinge ss glass door *	1 1	WREF-2-GDR WREF-2-GDL
3.	Top chromed wire rolling rack	1	WREF-3
4.	Top wooden shelf	1	WREF-4
5.	Lower wooden shelf	2	WREF-5
6.	Lower small wooden shelf	1	WREF-6
7.	LED light	1	REF-1
8.	LED light cover	1	REF-2
9.	Evaporator fan	1	REF-3
10.	Charcoal filter	1	WREF-7
11.	PTC heater fan	1	WREF-8
12.	Condenser fan (set of 2)	1	REF-6-2
13.	Front ventilation kick guard	1	WREF
14.	Key	1	WREF-KEY
*not shown			

# INSTALLATION

## INSTALL BEVERAGE COOLER

**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°.**

**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.

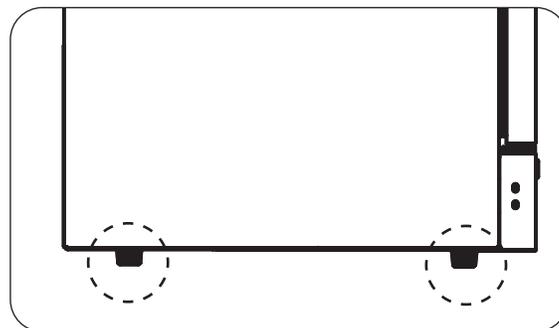


Fig. 8-1 Leveling legs

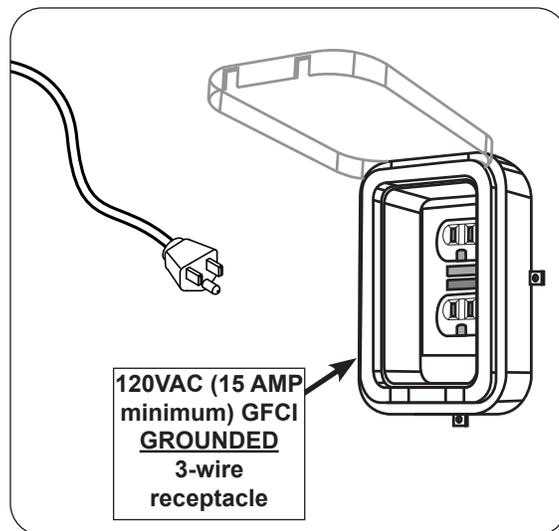


Fig. 8-2 Connect to power

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 leveling legs. See Fig. 8-1 and following the steps below:
  - With the assistance of another person, lean the appliance back to adjust the front legs. Repeat the process for the 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.

## 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.

## OPERATION

### OPERATION SAFETY INFORMATION

Refer to the IMPORTANT INFORMATION section for safety details when operating your beverage cooler.

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

Do not overload the shelves. 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 shelf, remove everything from the shelf before moving. Use both hands when moving the shelf.

**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 and 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.

### USING THE BEVERAGE COOLER

This appliance features two zones to set two separate temperatures within the beverage cooler. See Fig. 9-1.

A locking feature is included with this beverage cooler. Use the key to unlock by turning clockwise and lock by turning counter-clockwise. 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 for each zone 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 door is opened.

#### Temperature range settings:

Upper zone: 34~50 °F (1~10 °C)

Lower zone: 50~72 °F (12~22 °C)



Fig. 9-1 Temperature zones

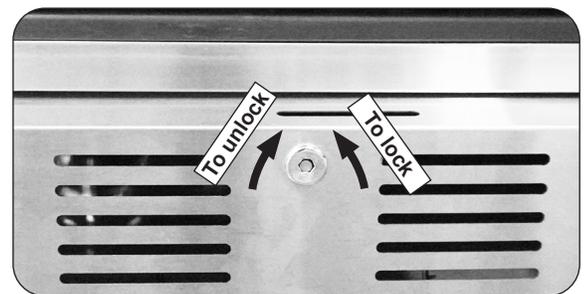


Fig. 9-2 Locking feature

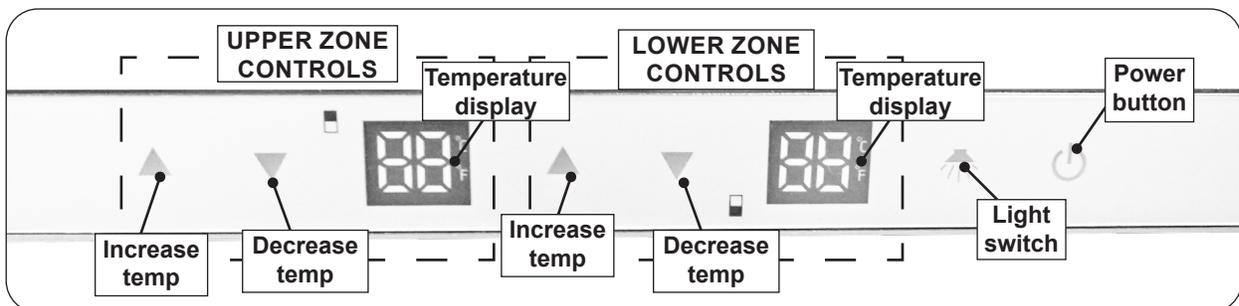


Fig. 9-3 Display panel

- Press and hold the up and down arrows of the upper zone for 5 seconds. The temperature display mode will exchange between °C and °F. Use the same steps to change the lower zone.
- When working with both temperature settings, the upper zone must be less than the lower zone.
- Use the upper and/or lower zones arrows to increase or decrease the desired set temperatures.
- Keep the door 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 lights.

**Note:** The lights will remain on indefinitely until the lights 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 contaminants. 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.

### 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.

Clean the glass with a quality brand glass cleaner and clean cloth.

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 glass door as previously removed.

Remove dust from the outside box twice a year.

### INTERIOR

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

Clean the wooden shelves with a mild soap and damp cloth to gently wipe the shelves. Rinse lightly with water on a clean damp cloth to remove residue. Use a towel to dry the shelf and air dry (for several hours) before installing then back into cooler.

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

### BEVERAGE COOLER SHELVES

#### Top rolling rack:

The rolling rack is set on top of the left and right drawer slides with four(4) tabs total to hold in place. Refer to Fig. 10-2 and follow the steps below as applicable.

To remove: pull out the rolling rack and lift upwards to release the knotch openings from the drawer slide tabs (4).

To install, pull the drawer slides out. Use the knotch openings on the rack and (4) tabs to align the rolling rack in place onto the drawer slides.

#### Upper zone wooden shelf:

Pull out the wooden shelf to remove and insert the shelf to install.

#### Lower zone wooden shelves:

To remove: locate the knotch opening on the wooden shelf as shown in Fig 10-3. Pull the shelf outward halfway to align the open knotch with the retaining pin and lift the shelf upwards to free from the shelf slide, see Fig 10-3, A and B. Repeat the same steps for the other shelves as needed.

To install: Align the knotch opening of the wooden shelf with the retaining pin of the beverage cooler and lower the wooden shelf into place. Slide shelf into the cooler to install. Repeat the same steps for the other shelves as needed.



Fig. 10-1 Wipe with grain

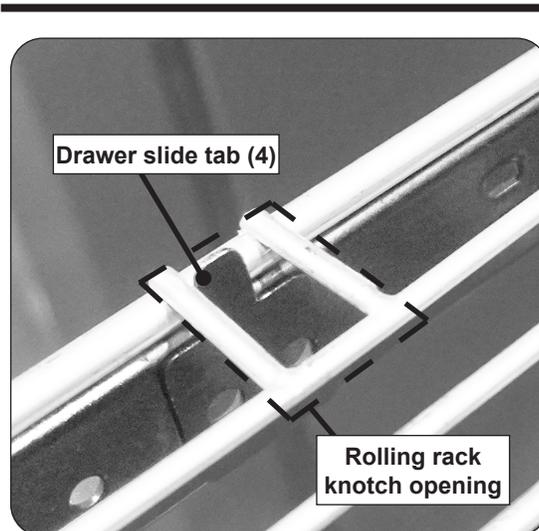


Fig. 10-2 Top rolling rack detail

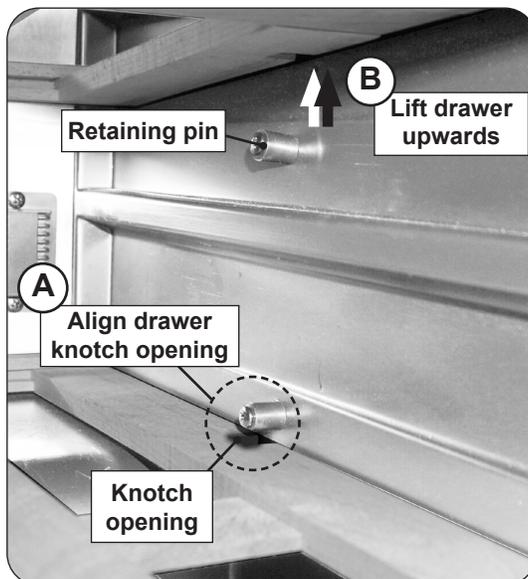


Fig. 10-3 Lower zone wooden shelf removal

## ROUTINE MAINTENANCE AND CLEANING (cont.)

### SERVICE OF BEVERAGE COOLER

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

#### Charcoal Filter:

Replace the activated charcoal filter inside the box hole every 6 months.

1. Locate the charcoal filter towards the back of your beverage cooler. See Fig 11-1. Twist 90° clockwise and pull out to remove. Discard the used charcoal filter.
2. Insert a new charcoal filter and twist 90° clockwise to install. See Fig 11-1, A and B.

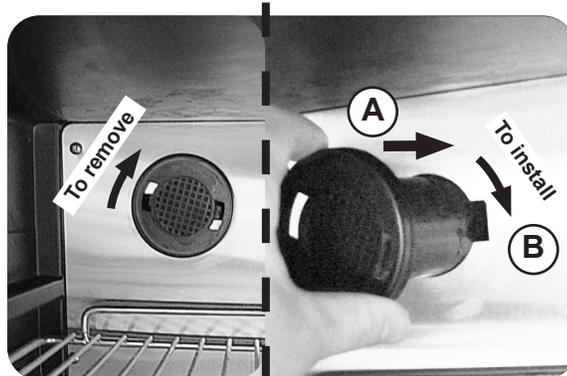


Fig. 11-1 Charcoal filter

#### Illuminating lamps:

**WARNING:** The LED illuminating lamps must only be replaced by a qualified 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 door, 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.

## ROUTINE MAINTENANCE AND CLEANING (cont.)

### 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 door open and allow to completely dry out before closing the door.
13. Thoroughly clean the door 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
<b>Beverage cooler does not operate</b>	<ol style="list-style-type: none"> <li>1. Beverage cooler is unplugged</li> <li>2. Breaker tripped</li> <li>3. Switch turned to "OFF", no power</li> </ol>	<ol style="list-style-type: none"> <li>1. Plug the beverage cooler in.</li> <li>2. Reset breaker - if it happens again, call an authorized service center.</li> <li>3a. Ensure cooler is connected to power with the correct voltage.</li> <li>3b. Turn switch to "ON".</li> </ol>
<b>Beverage cooler not cooling</b>	<ol style="list-style-type: none"> <li>1. Not proper clearance to heat sources</li> <li>2. Not proper ventilation</li> <li>3. Door not closed properly or opened for too long</li> <li>4. Door sealing problem or deformation</li> <li>5. Bottles loading too much on same shelf</li> <li>6. Air inlet or outlet blocked</li> <li>7. Control setting needs adjustment</li> <li>8. Control malfunction</li> <li>9. Compressor does not operate properly or at all.</li> <li>10. No airflow</li> <li>11. Not enough refrigerant</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove heat source or relocate the beverage cooler.</li> <li>2. See VENTILATION section to meet necessary requirements.</li> <li>3. Keep the cooler door closed and secured.</li> <li>4. Ensure that all components have been inspected with no damage. Contact dealer.</li> <li>5. Distribute bottles evenly through the wooden shelves as applicable.</li> <li>6. Contact dealer.</li> <li>7. Set temperature as applicable.</li> <li>8. Contact dealer.</li> <li>9a. Ambient temperature is below the recommended winterization temperature.</li> <li>9b. Contact the dealer.</li> <li>10a. Fan motor does not operate or fan blade is broken, must be replaced. Contact your dealer.</li> <li>10b. Condenser completely blocked, must be cleaned.</li> <li>11. Contact dealer.</li> </ol>
<b>Noisy</b>	<ol style="list-style-type: none"> <li>1. Appliance is not leveled</li> <li>2. The appliance touches the wall</li> <li>3. Some parts are loose or taken off</li> </ol>	<ol style="list-style-type: none"> <li>1. Use the bottom leveling legs to make sure appliance is leveled.</li> <li>2. See VENTILATION section for correct placement.</li> <li>3. Inspect the appliance for all components for damaging or missing parts. Contact the dealer.</li> </ol>
<b>Turn on and off frequently</b>	<ol style="list-style-type: none"> <li>1. The appliance is reaching temperature.</li> <li>2. Overloaded appliance</li> <li>3. Control setting adjustment</li> <li>4. Not enough refrigerant</li> <li>5. Hot and humid conditions</li> <li>6. Door not closed properly or opened for too long</li> </ol>	<ol style="list-style-type: none"> <li>1. The room temperature is hotter than normal.</li> <li>2. Distribute items evenly throughout the appliance as applicable.</li> <li>3. Set correct temperature.</li> <li>4. Contact dealer.</li> <li>5. This may be normal to maintain constant temperature during high temperatures and humid days.</li> <li>6. Keep the cooler door closed and secured.</li> </ol>
<b>The door will not close properly</b>	<ol style="list-style-type: none"> <li>1. The appliance is not leveled</li> <li>2. The appliance was not properly installed</li> <li>3. Shelves not properly positioned</li> </ol>	<ol style="list-style-type: none"> <li>1. Use the bottom 4 leveling legs to make sure appliance is leveled.</li> <li>2. Ensure all requirement have been met in this manual. See the INSTALLATION section for more details.</li> <li>3. See the INSTALLATION section for more details.</li> </ol>
<b>The light does not work</b>	<ol style="list-style-type: none"> <li>1. Not plugged in</li> <li>2. Breaker is tripped or fuse has blown</li> <li>3. LED circuit board is burnt out</li> <li>4. Switch turned to "OFF", no power</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure that the appliance is plugged in correctly.</li> <li>2. Reset breaker - if it happens again, call an authorized service center.</li> <li>3. Replace illuminating lights. Contact your dealer.</li> <li>4a. Ensure the appliance is connected to power with the correct voltage.</li> <li>4b. Turn switch to "ON".</li> </ol>

### 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 door of beverage cooler has been left open for a long period. Frequently, wipe off the door and walls and leave the door closed as long as possible.

### 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.**

### 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 door, rolling rack, tray and shelves 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), or electrical damage. Product must be installed 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. 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](http://WWW.RHPETERSON.COM),  
AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.**