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Installation Operation and Maintenance Instructions

Ice Machines
15CM
25CM

Freezer
15AF

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Important Safety Instructions

Warnings and safety instructions appearing in this guide are not meant to cover all possible conditions and situations that may occur. Common sense, caution, and care must be exercised when installing, maintaining, or operating this appliance.

Recognize Safety Symbols, Words, and Labels.

⚠ CAUTION

CAUTION-Hazards or unsafe practices which could result in personal injury or property or product damage.

⚠ WARNING

WARNING-Hazards or unsafe practices which could result in personal injury.

NOTE

NOTE-Important information to make a problem free installation.

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Remove Packaging
Your ice machine has been packed for shipment with all parts that could be damaged by movement securely fastened. Cut the banding material at the bottom of the carton, unfold the carton at the bottom, and remove the carton from the appliance. Remove the plastic bag, styrofoam corner posts, and any tape holding the door closed and internal components in place. The owners manual is shipped inside the unit in a plastic bag along with the warranty registration card.

Important
Keep your carton packaging until your unit has been thoroughly inspected and found to be in good condition. If there is damage, the packaging will be needed as proof of damage in transit. Afterwards please dispose of all items responsibly in particular the plastic bags which can be a suffocation hazard.

Note to Customer
This merchandise was carefully packed and thoroughly inspected before leaving our plant. Responsibility for its safe delivery was assumed by the retailer upon acceptance of the shipment. Claims for loss or damage sustained in transit must be made to the retailer.

DO NOT RETURN DAMAGED MERCHANDISE TO THE MANUFACTURER - FILE THE CLAIM WITH THE RETAILER.

NOTE

If the unit was shipped or has been laying on its back for any period of time allow the ice machine to sit upright for a period of at least 24 hours before plugging in. This will assure oil returns to the compressor. Plugging the ice machine in immediately may cause damage to internal parts.

Warranty Registration
It is important you send in your warranty registration card immediately after taking delivery of your ice machine or you can register online at www.marvelscientific.com.

The following information will be required when registering your unit.
Model Number
Serial Number
Date of Purchase
Dealers name and address

The model number and serial number can be found on the serial plate which is located on the bottom face inside the cabinet.

⚠ CAUTION

Help Prevent Tragedies
Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous - even if they sit out for “just a few days”.

If you are getting rid of your old refrigerator, please follow the instructions below to help prevent accidents.

Before you throw away your old refrigerator or freezer:
- Take off the doors or remove the drawers.
- Leave the shelves in place so children may not easily climb inside.

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INSTALLING YOUR ICE MACHINE OR FREEZER

Select Location
The proper location will ensure peak performance of your appliance. We recommend a location where the unit will be out of direct sunlight and away from heat sources. To assure your product performs to specifications the recommended installation location temperature range is from 65 to 90°F (18 to 32°C).

Cabinet Clearance
Ventilation is required from the bottom front section of the unit. Keep this area open and clear of any obstructions. Adjacent cabinets and counter top can be installed around the unit as long as the grille and door access remain unobstructed.

⚠ CAUTION

Front Grille
Do not obstruct the front grille. The openings within the front grille provides air to flow into and exit from the ice machine condenser. For this reason it is important this area to not be obstructed and be kept clean. AGA MARVEL does not recommend the use of custom made grilles as air flow may be restricted because of inadequate openings. (See Figure 1).

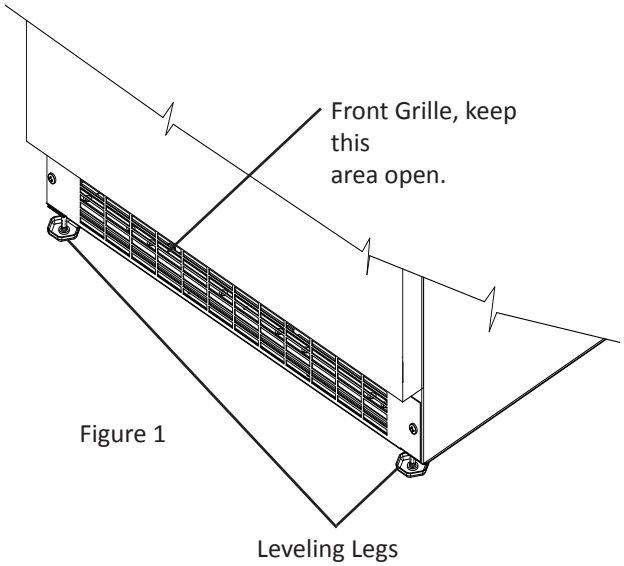


Figure 1

Leveling Legs
Adjustable legs at the front and rear corners of the unit should be set so the unit is firmly positioned on the floor and level from side to side and front to back. Turn leveling legs clockwise to raise unit, counterclockwise to lower it. (See Figure 1).

⚠ CAUTION

- **Do not splash or spray water from a hose on the ice machine! Doing so may cause an electrical shock, which may result in severe injury or death.**
- **This unit should not, under any circumstances, be ungrounded.**

Grounding Method
This product is factory equipped with a power supply cord that has a three-pronged, grounded plug. It must be plugged into a mating grounding type receptacle in accordance with the National Electrical Code and applicable local codes and ordinances (see Figure 2). If the circuit does not have a grounding type receptacle, it is the responsibility and obligation of the customer to exchange the existing receptacle in accordance with the National Electrical Code and applicable local codes and ordinances. The third ground prong should not, under any circumstances, be cut or removed.

Electrical Connection
115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

⚠ CAUTION **Do not use an extension cord with this appliance.**

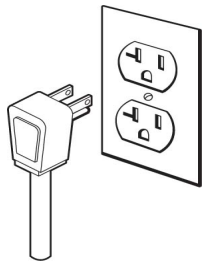


Figure 2

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Handle Installation (Solid Door Models)

1. Remove the handle, (2) screws, and 5/32” allen wrench from the bag shipped inside the cabinet.
2. Locate handle opposite the hinges and secure in place using the (2) screws and the allen wrench. (See Figure 3).

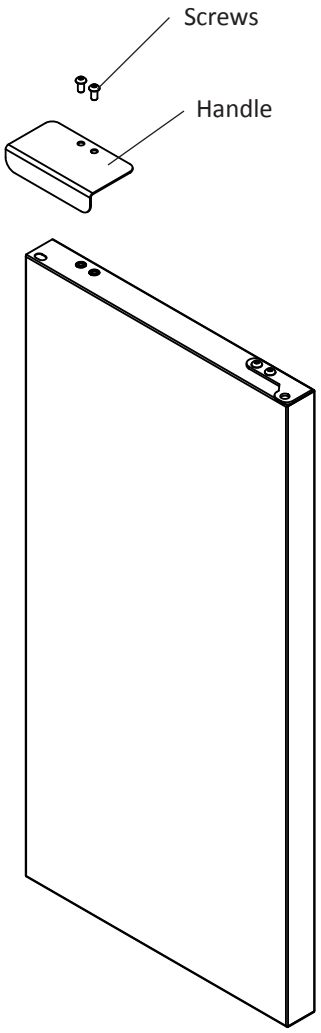


Figure 3

Right hand hinged door shown

Door Reversal

It is possible to reverse the door (change from right hand swing to left hand swing or vice versa) if you wish. To do so it will be necessary to order one of the service kits below.

Hinge Color	Door Color	Right Hand	Left Hand
Chrome	Black	42247595	42247599
Chrome	White	42247639	42247640
Black	Black	42247596	42247600
White	White	42247597	42247601
Stainless Steel	Stainless Steel	42247598	42247602

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DOOR ALIGNMENT

Door Alignment Procedure

The door should be parallel to the sides and top of the refrigerator. If alignment is necessary the door may be adjusted by loosening the 2 screws which secure the hinge adapter brackets to the door and adjusting the door side to side. Use a 5/32” allen wrench for this procedure. (See Figure 4 below).

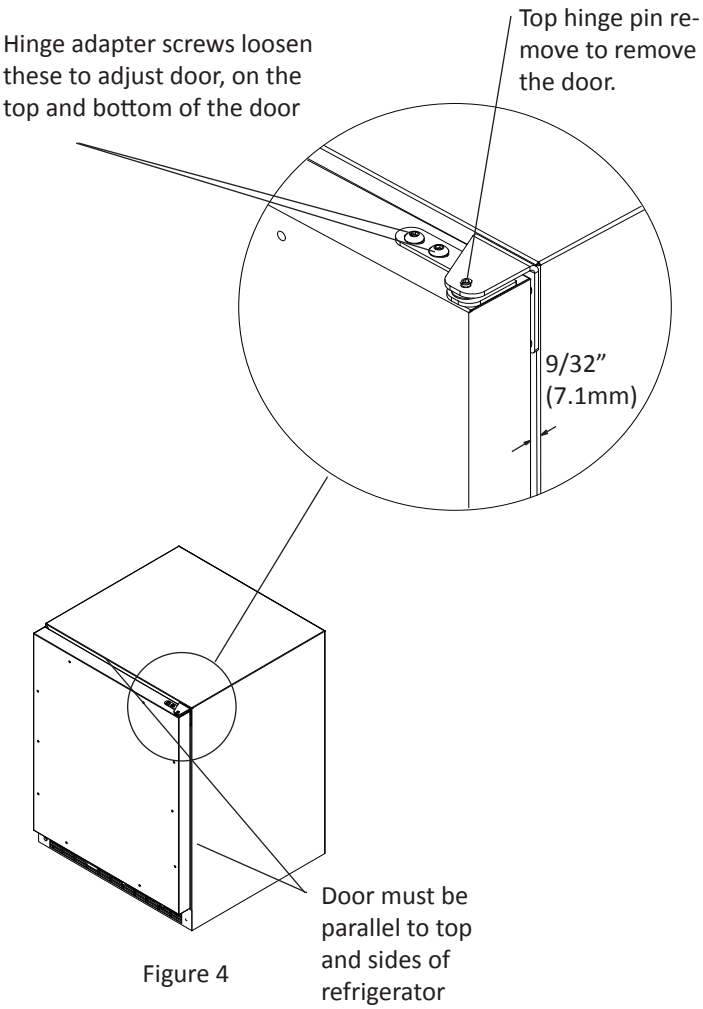


Figure 4

NOTE

NOTE: For door closer to work properly it is necessary to maintain a min. space of 9/32” (7.1mm) between door and cabinet flange as shown. This space can be adjusted by adjusting the top and bottom hinge adapter.

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Water Supply

NOTE

Observe and follow all local building codes when installing this appliance.

Attach the supplied water line adapter (Figure 6) to the water valve inlet on the back of the ice machine (See Figure 5). Be sure the rubber washer is in place in the inlet valve nut. Bend the 1/4” copper tubing to suit your installation being sure not to kink the tubing. Use 1/4” copper tubing for your water supply which is available at any local hardware or plumbing supply store. The water line fitting supplied with your ice maker is to be used on a 1/4 inch copper water supply line only. Do not attach a plastic supply line to your unit with this fitting.

Water pressure must be at a minimum of 20 psi for proper operation.

Make certain all water connections are watertight after installation. Form the tubing so that it will not vibrate against the cabinet body or kink when your ice machine is set in position.

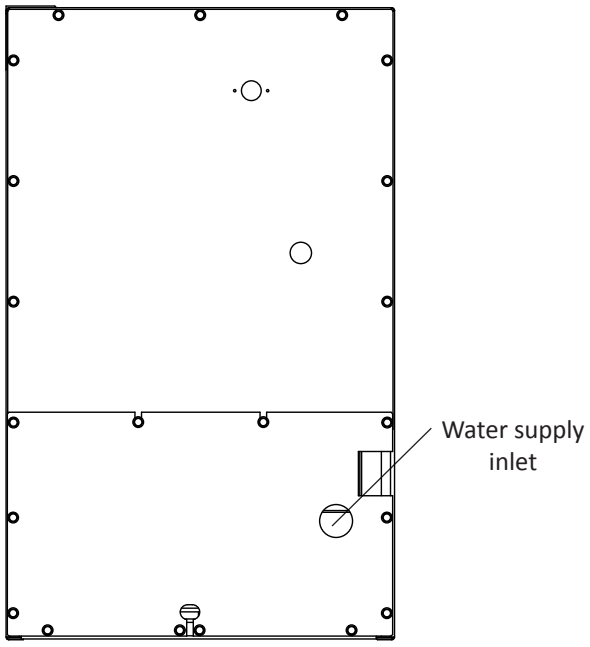


Figure 5
Back view of
ice machine

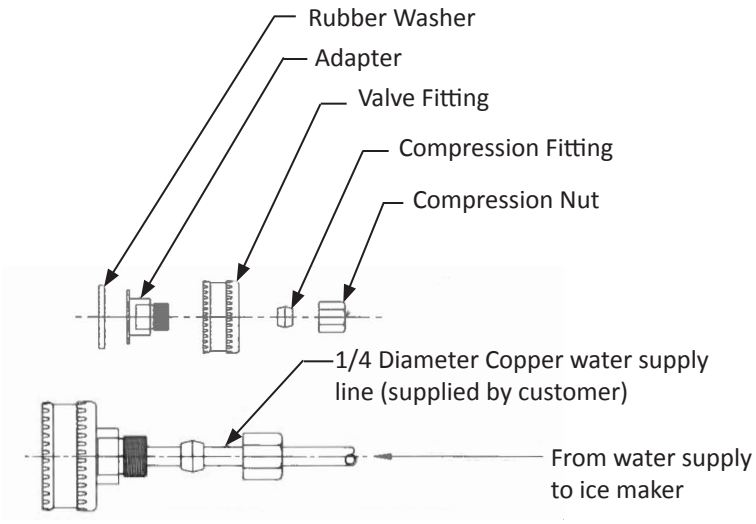


Figure 6

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USING YOUR ICE MACHINE

Turning on the ice machine

After connecting the water supply, and setting your ice machine in place plug the power cord into the wall receptacle. Then place the switch located in the grille (see Figure 7) to the “ON” position. The temperature control is factory preset, allow the ice maker to run for 24 hours so the interior temperature will stabilize. If you wish to adjust the interior temperature use a small bladed screwdriver pushed through the right hand side of the grille to turn the temperature control shaft. Turning it clockwise will make the unit colder. Turning it counterclockwise will make it warmer. Turning it counterclockwise until it stops will shut off the compressor and fan motor.

⚠ CAUTION

Should you turn off your control, allow at least five (5) minutes before restarting in order to give the motor control time to automatically reset so that it can restart the motor. Electrical power to your unit is controlled by the “ON/OFF” rocker switch located in the front grille. (See Figure 7).

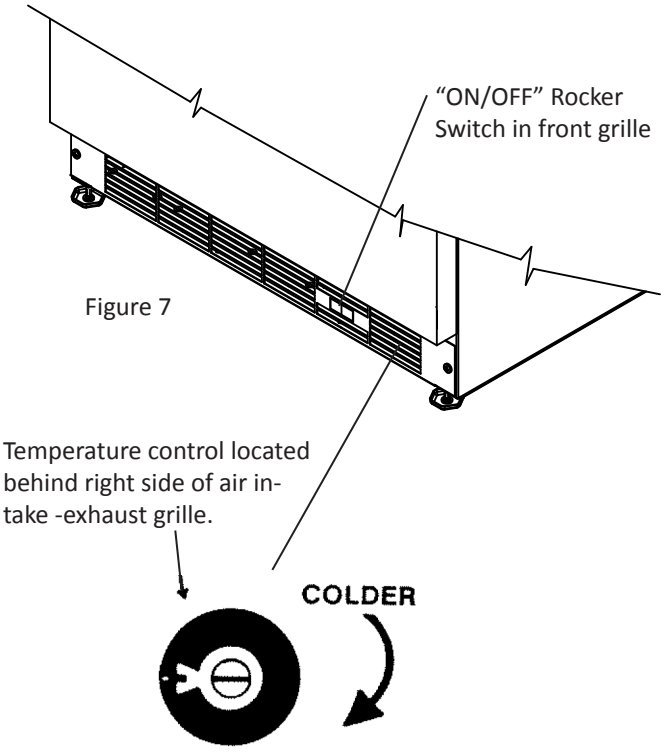


Figure 7

Ic**emaker operation**

- Make certain water pressure is at least 20 psi and no more than 120 psi and the water is turned on.
- The unit must be installed level for proper ice maker operation.
- The shutoff arm wire must be down in its lowest position for the ice maker to operate.
- When the freezer section and ice maker unit has sufficiently cooled, the ice maker will harvest ice cubes automatically.
- When the ice bucket is full, the ice maker will automatically shut off.
- You may manually stop the ice maker by raising the shut off arm to the locking position at the up most position.

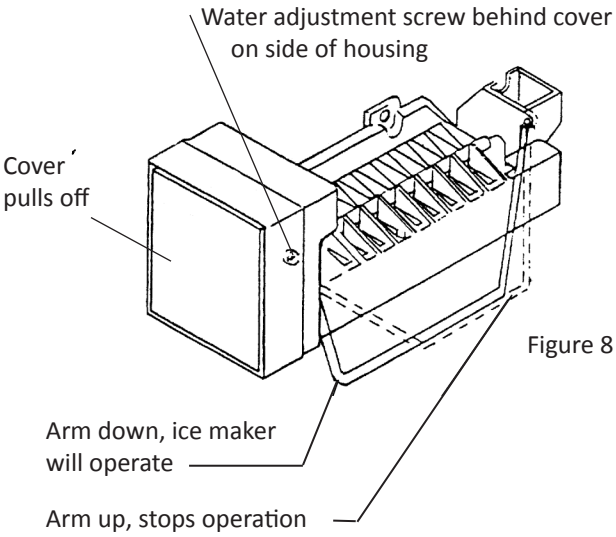


Figure 8

When operation of the appliance is to be discontinued for any length of time, the ice cube cavity in the ice maker should be emptied and dried. The water supply and power supply should also be shut off and the ice bucket should be emptied and cleaned.

If the ice is not used regularly, it will clump together with time. For best ice results, discard ice in the bin as required and allow the ice maker to make a new fresh batch of ice.

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Turning on the freezer

After setting the freezer in place, leveling (see page 3), plug the power cord into the wall receptacle. The freezer should start after plugging in. The temperature control is factory preset to a mid range setting. Allow the freezer to run for 24 hours so the interior temperature stabilizes. If you wish to adjust the interior temperature use a small bladed screwdriver pushed through the right hand side of the grille to turn the temperature control shaft. Turning it clockwise will make the unit colder. Turning it counterclockwise will make it warmer. Turning it counterclockwise until it stops will shut off the compressor and fan motor.

⚠ CAUTION

Should you turn off your control, allow at least five (5) minutes before restarting in order to give the motor control time to automatically reset so that it can restart the motor. Electrical power to your unit is controlled by the temperature control located in the front grille. (See Figure 9).

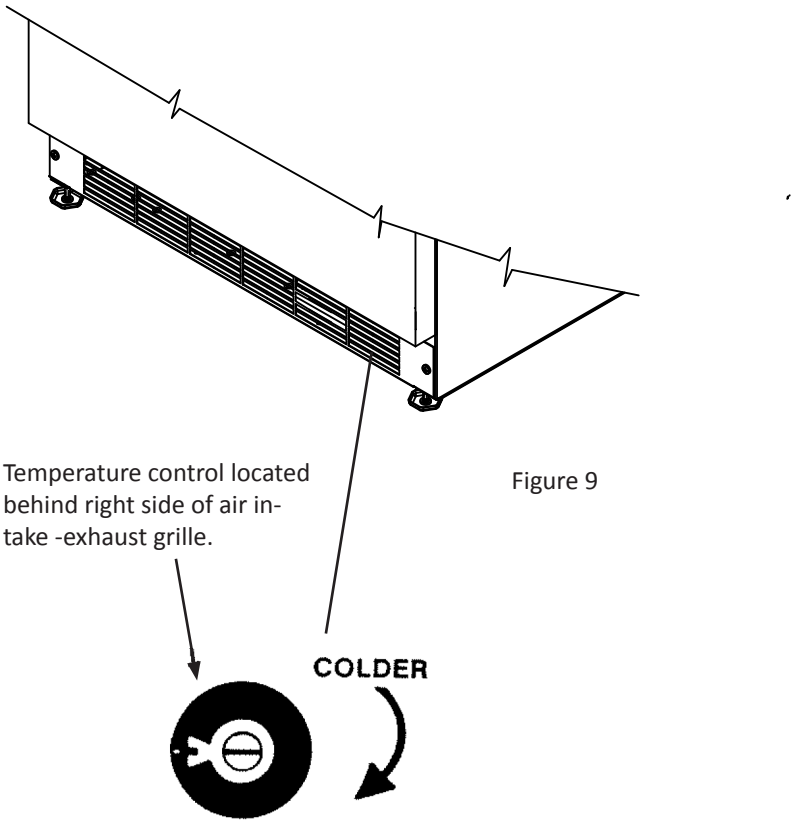
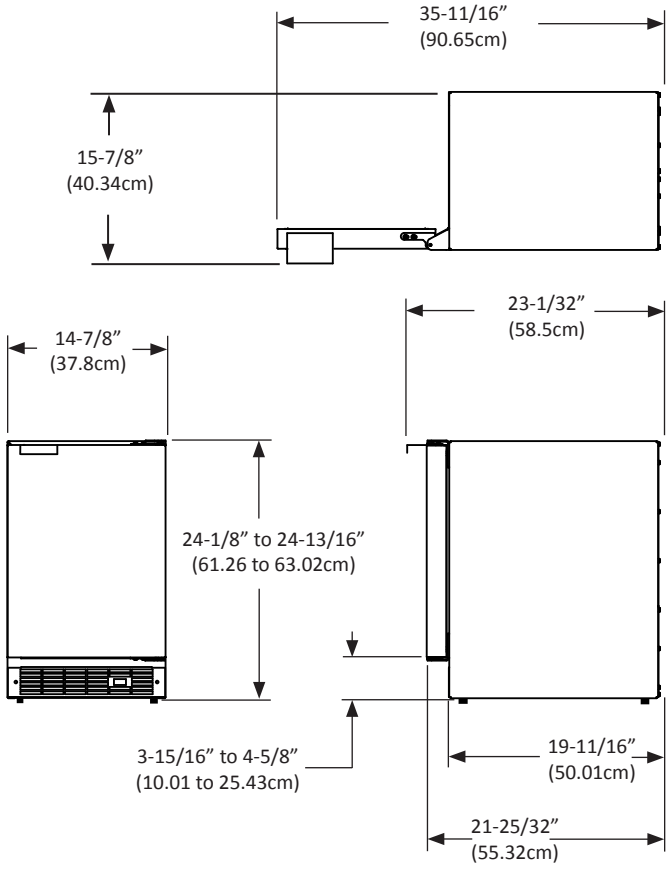


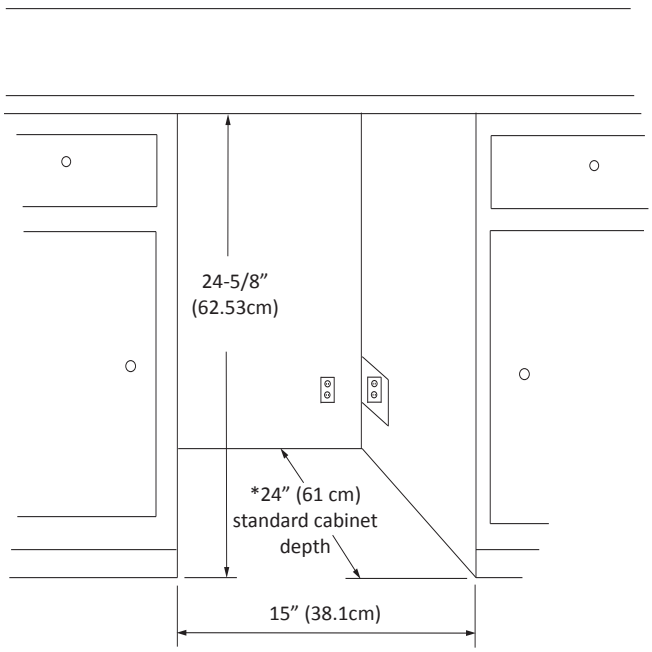
Figure 9

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DIMENSIONS FOR MODEL 15CM SOLID DOOR



RECOMMENDED ROUGH IN OPENING DIMENSIONS,15CM SOLID DOOR



⚠ CAUTION

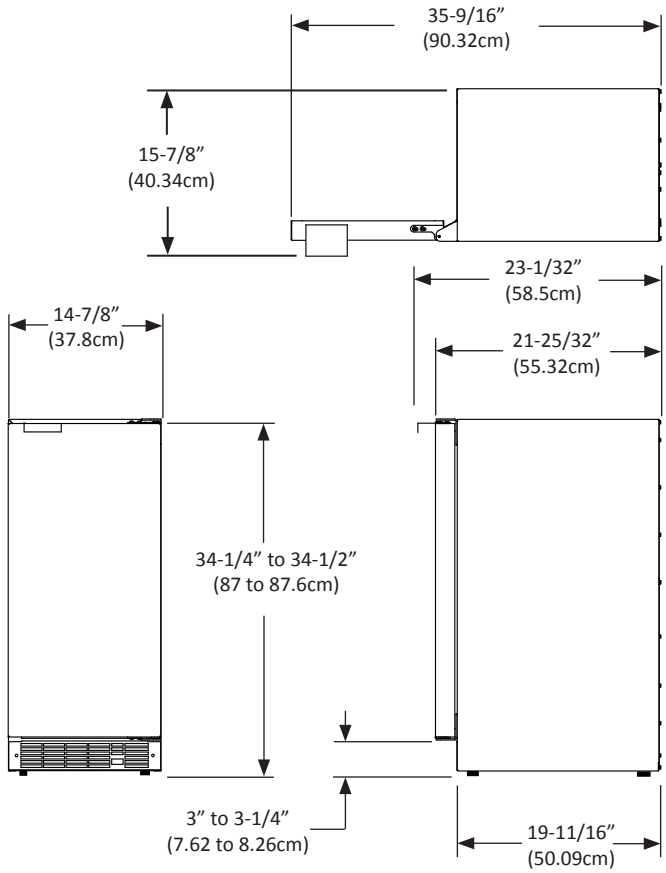
Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

Power outlet can be located in the back wall behind unit. Add 1” to depth for thickness of plug, or recess outlet 1” into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 72 lbs. (32.7kg.)

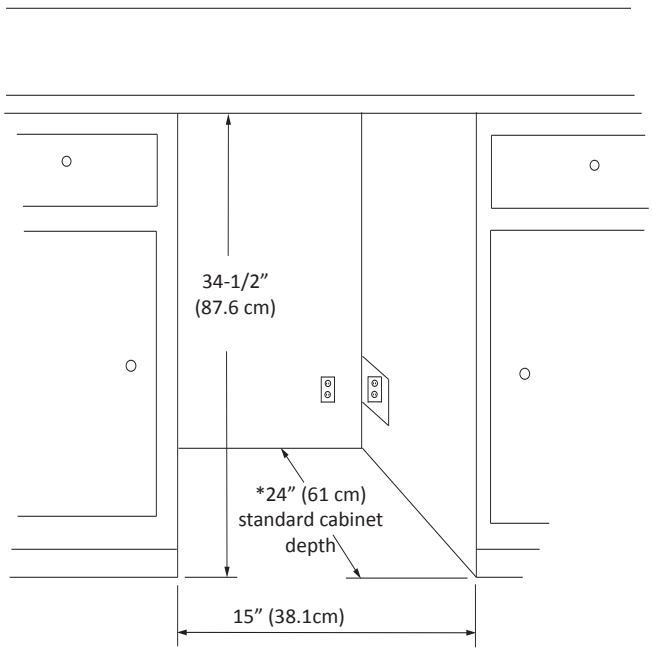
* Depth dimension may vary depending on each individual installation.

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DIMENSIONS FOR MODEL 25CM SOLID DOOR



RECOMMENDED ROUGH IN OPENING DIMENSIONS, 25CM SOLID DOOR



⚠ CAUTION

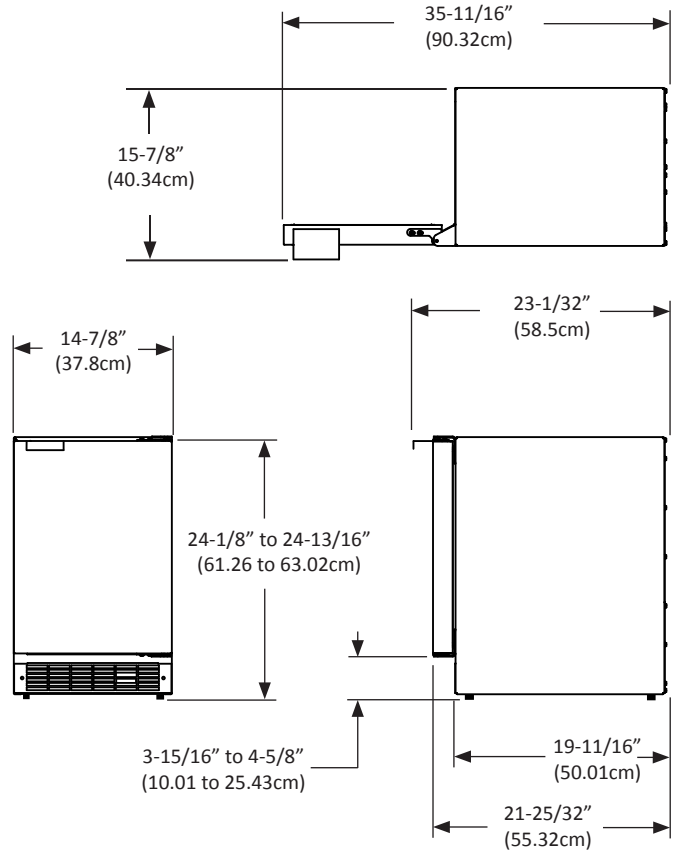
Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

Power outlet can be located in the back wall behind unit. Add 1” to depth for thickness of plug, or recess outlet 1” into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 86 lbs. (39.1 kg.)

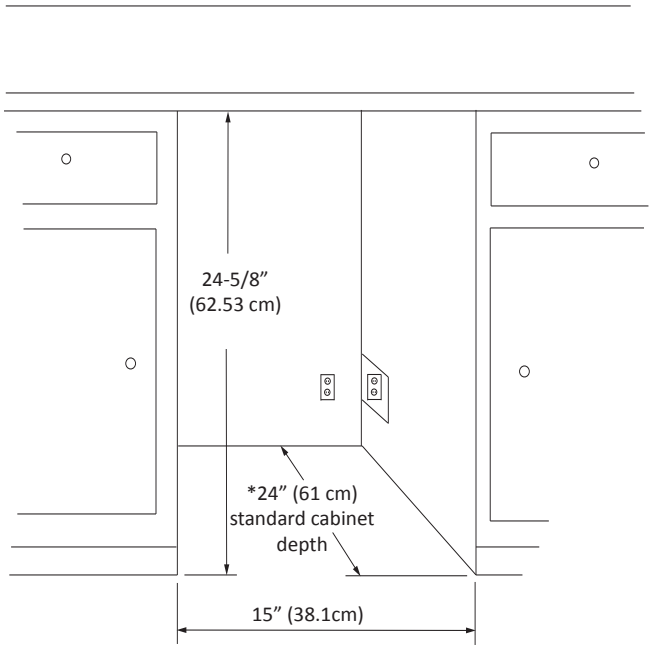
* Depth dimension may vary depending on each individual installation.

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DIMENSIONS FOR MODEL 15AF SOLID DOOR



RECOMMENDED ROUGH IN OPENING DIMENSIONS, 15AF SOLID DOOR



⚠ CAUTION

Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

Power outlet can be located in the back wall behind unit. Add 1" to depth for thickness of plug, or recess outlet 1" into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 70 lbs. (31.8 kg.)

* Depth dimension may vary depending on each individual installation.

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15AF Features
Can be installed on the counter top or built in.
Temperature range = -4°C to -20°C.
Flat door liner.
Manual defrost.

15CM Features
Can be installed on the counter top or built in.
Makes crescent shaped ice cubes.
Temperature range = -7° to -20°C.
Flat door liner.
Manual defrost
No drain required.

25CM Features
Makes crescent shaped ice cubes.
Temperature range = -7° to -20°C.
Flat door liner.
Manual defrost
No drain required.

Probe Port (optional) for 15AF
The optional probe port is a hole from the inside to the outside of the unit, which could be located on the top, side, or back of the unit. After inserting your wires or probe, seal the hole tightly with caulk, putty, foam, etc. for proper operation.

Product Temperature versus Air Temperature
Air temperature moves up and down with door openings and compressor run and off cycles. Air has little thermal mass and therefore changes temperature relatively quickly as the unit cycles on and off. Stored products have thermal mass so their temperatures change much more slowly. While air temperature may change 5 to 10 degrees C between run and off cycles, stored product temperature typically changes less than 2 degrees C due to their thermal mass. Always measure product temperature, not air temperature, to determine if the products being stored are at the proper temperature.

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CARE AND CLEANING

Condenser Air Flow
The machine compartment located beneath the cabinet does not require frequent cleaning; however, satisfactory performance depends on adequate ventilation. Be sure nothing obstructs the required air flow openings in front of the cabinet. At least once or twice a year, brush or vacuum lint and dirt from the front grille openings. See Figure 1 on page 3.

Cabinet
The painted cabinet can be washed with either a mild soap and water and thoroughly rinsed with clear water. NEVER use abrasive scouring cleaners.

Interior
Wash interior compartment with mild soap and water. Do NOT use an abrasive cleaner, solvent, polish cleaner or undiluted detergent.

Care of Unit
1. Avoid leaning on the door, you may bend the door hinges or tip the unit.
2. Exercise caution when sweeping, vacuuming or mopping near the front of the unit. Damage to the grille can occur.
3. Periodically clean the interior of the unit as needed.
4. Periodically check and/or clean the front grille as needed.

Defrosting Instructions 15CM and 25CM
1. Push the rocker switch located in the front grille to the "OFF" position.
2. Remove the ice bucket and place a towel in the lower front area of the ice maker to absorb the defrost water.
3. After defrosting is completed replace the ice bucket and press the rocker switch to the "ON" position.

Defrosting Instructions 15AF
1. Disconnect the power cord and set the temperature control to the off position. (See page 8).
2. Remove the contents from the freezer.
3. Place pans of hot water in the freezer if you wish to speed up defrosting.
4. When defrosting is complete wipe out the interior and replace the contents.
5. Connect power cord to outlet.
6. Set the temperature control to the desired level.

⚠ WARNING

Do not use an ice pick, knife, or any type of sharp object to remove the ice. Doing so may puncture the units refrigerant system and damage it beyond repair. You may speed up defrosting by filling the ice bucket with hot water and placing it back into position.

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Before You Call for Service

If the unit appears to be malfunctioning, read through this manual first. If the problem persists, check the troubleshooting guide below. Locate the problem in the guide and refer to the cause and its remedy before calling for service. The problem may be something very simple that can be solved without a service call. Some remedies listed in the troubleshooting guide are very complex. Consulting or contracting a qualified service technician may be necessary.

⚠ WARNING

Electrocution Hazard - Never attempt to repair or perform maintenance on the unit until the main electrical power has been disconnected.

Problem	Possible Cause	Remedy
Unit operates but does not produce any ice.	• The unit has just been started and it has been less than 24 hours.	• Typical ice production is 8 pounds per day. Allow for the freezer section to reach temperature and the ice maker to cycle and accumulate ice.
	• Water supply is not turned on.	• Turn on water supply to the unit.
	• Inadequate water pressure to unit.	• Water pressure to the unit must be at a minimum of 20 psi.
	• The ice maker shut off arm is in the uppermost position.	• When the ice maker shut off arm is in the uppermost position, the ice maker is off. Flip the shut off arm down to turn on the ice maker.
	• Freezer section has not reached temperature.	• Allow the freezer section to reach temperature.
	• Thermostat control set too warm.	• Turn the temperature control clockwise to allow the unit to run colder. Allow 24 hours before readjusting the temperature control.
	• Condenser fan air flow is restricted.	• Make certain the grille in front of the unit is free and open for air circulation. Clean grille as required.
	• Room and/or water temperature is too warm.	• Move the unit to an area where ambient temperature is below 90°F. The unit should not be placed next to a heat source such as an oven. Check for cold water connection.
Small ice cubes.	• Water input may require adjustment.	• Due to differing water pressures, the ice maker water input may require adjustment. See Figure 8 on page 7 for water adjustment screw location.
Ice cubes are sticking together.	• Ice consumption is low.	• Use the ice in the bin frequently. Ice will stick together if left in insulated bin over long periods of time.
	• Room temperature is too warm.	• Move the unit to an area that is below 90°F.

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TROUBLESHOOTING YOUR ICE MACHINE OR FREEZER

Problem	Possible Cause	Remedy
Unit too warm or too cold inside.	• Control set too warm or cold. • Airflow to front grille blocked. • Excessive usage or prolonged door openings. • Door gasket not sealing properly.	• Adjust temperature colder or warmer as required. Allow 24 hours for temperature to stabilize. • Airflow must not be obstructed to front grille. See “clearances” on page 3. • Allow temperature to stabilize for at least 24 hours. • Adjust or replace door gasket.
Noise or Vibration.	• Unit not level. • Water line tubing vibration.	• Level unit, see “Leveling Legs” on page 3. • Adjust the tubing as necessary to eliminate unwanted vibrations.
Unit will not run.	• Unit turned off. • Power cord not plugged in. • No power at outlet.	• Turn unit on. See page 7 or 8. • Plug in power cord. • Check house circuit.
Moisture collects on outside surface of cabinet.	• Hot and humid conditions.	• Extremely hot and humid conditions can cause condensation on outside of the cabinet. As humidity and/or temperature decreases, the condensation will disappear.
Moisture collects on inside of the unit.	• To many door openings. • Prolonged door openings. • Hot and humid conditions.	• Limit the amount of door openings. • Limit the amount of time with the door open. • Extreme hot and humid conditions. Move unit to a controlled environment.

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If Service is Required:

- If the product is within the first year warranty period please call AGA MARVEL Customer Service at 800.223.3900 for directions on how to obtain warranty coverage in your area.
- If the product is outside the first year warranty period, AGA MARVEL Customer Service can provide recommendations of service centers in your area. A listing of authorized service centers is also available at www.marvelscientific.com under the service and support section.

- In all correspondence regarding service, be sure to give the model number, serial number, and proof of purchase.
- Try to have information or description of nature of the problem, how long the unit has been running, the room temperature, and any additional information that may be helpful in quickly solving the problem.
- Fill in pertinent information below regarding your product for future reference.

For Your Records	
Date of Purchase	
Dealer's name	
Dealer's Address	
Dealer's City	
Dealer's State	
Dealer's Zip Code	
Appliance Serial Number	
Appliance Model Number	
Date Warranty Card Sent (Must be within 10 days of purchase).	

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COMMERCIAL PRODUCT WARRANTY

Entire Product - One Year Parts and Labor Warranty
AGA MARVEL warrants to the original purchaser that it will supply all necessary parts and labor to repair or replace in the end user's establishment, any component which is found by an authorized representative of AGA MARVEL to be defective in materials or workmanship, subject to the conditions and exclusions stated below, for a period of one year from the date of purchase by the end user.

Refrigeration System - Additional Second Through Fifth Year Parts Only Warrranty
During the four years following expiration of the one year limited warranty, AGA MARVEL warrants to the original purchaser that it will supply replacement parts for the hermetically sealed refrigeration system which consists of the compressor, evaporator, condenser, drier, and connecting tubing that are found to be defective in workmanship or materials. Other parts, labor costs, and freight charges are the responsibility of the end user.

If AGA MARVEL is unable to repair or replace the defective product or component, AGA MARVEL shall issue a credit to the buyer for all or part of the purchase price, as AGA MARVEL shall determine. The repair, replacement or payment in the manner described above shall be the sole and exclusive remedy of buyer for a breach of this warranty.

Buyer must give written notice of any alleged defect in the product to AGA MARVEL within 30 days after discovery of the defect by buyer. If notice is not given within such period, any claim for breach of warranty shall be conclusively deemed to have been waived, and AGA MARVEL shall not be liable under these warranties. AGA MARVEL or its agents shall be entitled to examine the product. AGA MARVEL shall have the option of requiring the return of the defective component, transportation prepaid, to establish the claim. The acceptance by AGA MARVEL of any component returned shall not be deemed an admission that the product is defective or in breach of any warranty and, if AGA MARVEL determines that the product is not defective, the component shall be reshipped to the buyer at the buyer's expense. No component will be returned to AGA MARVEL without its prior consent.

The above warranties do not cover:

- Shipping costs of replacement parts or returned defective parts.
- Customer education or instructions on how to use the refrigerator/freezer.
- Any content loss, or incidental or consequential damage or loss due to product failure.
- Removal or installation.

Nor do the above warranties cover failure of this product or its components due to:

- Transportation, damage sustained in transit or subsequent damages.
- Use in hostile environments or use for storage of contents hostile to the product.
- Improper installation, misuse, abuse, accident or alteration, use on wiring not conforming to electrical codes, low voltages, failure to provide necessary maintenance, or other unreasonable use.
- Parts or service not supplied or designated by AGA MARVEL.

The above warranties also do not apply if:

- The original bill of sale, deliver date, or serial number cannot be verified.
- The refrigeration equipment is not in the possession of the original end use purchaser.

The warranties set forth herein are the only warranties extended by AGA MARVEL and are in lieu of all warranties, express, implied, statutory or otherwise. In particular, AGA MARVEL makes no warranty of merchantability or fitness for a particular purpose.

AGA MARVEL's liability for any defect in the product shall not exceed the purchase price of the product. **AGA MARVEL shall have no liability for consequential damages of any kind whatsoever, including, but not limited to, personal injury, property damage, lost profits or other economic injury due to any defect in the product.**

No person, firm, or corporation is authorized to modify, expand or extend these warranties, to waive any of the limitations or exclusions, or to make any other warranty or assume any other obligation for AGA MARVEL These warranties apply only to products used in any of the fifty states of the United States and the District of Columbia.

To obtain performance of this warranty, report any defects to:

AGA MARVEL
P.O. Box 400
Greenville MI 48838-0400
Phone: 616.754.5601
Toll-Free: 800.223.3900

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All specifications and product designs subject to change without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions, replacements or compensation for previously purchased products.

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