



# Owner's Guide

## GENERAL PURPOSE UNDERCOUNTER REFRIGERATORS AND FREEZERS ABT-UCFS-220M, ABT-UCFS-320M, ABT-UCFS-0420W, ABT-UCFS-0504W OWNER'S INSTRUCTIONS

This manual describes how to operate and care for your appliance to get the best, most efficient, performance.

### READ THIS BOOK!

#### Note to Customer:

This merchandise was carefully packed and thoroughly inspected before leaving our plant. Responsibility for its safe delivery was assumed by the carrier upon acceptance of the shipment. As directed on the side of your packing carton, claims for loss or damage sustained in transit must be made on the carrier as follows:

- A.) **Visible Loss, Damage, Shortage External Evidence of Loss or Damage:** This type of damage must be noted on the freight bill and acknowledged by the carrier's agent (driver) at time of delivery. Make sure you get a signed copy. Send a written request for an inspection to the carrier.
- B.) **Concealed Damage:** This type of damage may not be discovered until the unit is being unpacked. When concealed damage is discovered, stop unpacking immediately and contact the carrier immediately to report the claim and request an inspection. This should be done as soon as possible and, in any case, must be done within 15 days of receiving the merchandise. If at all possible, do not move the item and save all packaging material for carrier's inspection.
- C.) **FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN THE CARRIER REFUSING TO HONOR YOUR COMPANY'S CLAIM. UNDER NO CIRCUMSTANCES SHOULD THE MERCHANDISE BE RETURNED TO THE MANUFACTURER. NO RETURNS WILL BE ACCEPTED WITHOUT PRIOR AUTHORIZATION.**

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**Warranty:**  
Two-Year Parts and Labor  
5 Years Compressor Parts

**Revision Date**  
08/03/2012

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**BEFORE CALLING THE MANUFACTURER’S TECHNICAL SUPPORT DEPARTMENT**, please have the unit’s model and serial number ready as well as the problem description. The model and serial number is located on the serial tag which can be found on the interior left upper wall of the unit.

For convenience, you may want to record the following information here for easy access in the future.

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

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

Date of delivery: \_\_\_\_\_

## RECEIVING

Your unit was built, packaged, and inspected with extreme care. We shipped it to you using carriers we trust with a proven track record of careful handling, good customer service, and on time delivery. Unfortunately, regardless of all of these efforts sometimes accidents happen and occasionally those accidents result in shipping damage. When the carrier picked up the merchandise from us, they assumed responsibility for its condition en route to you. Thus, any claims for shipping damage must be filed with the carrier. Like anybody else, carriers don't like to pay out on insurance claims, so their claims procedures and requirements are very restrictive. You should consult the carrier's website for their specific claims procedures. You should also know that time is of the essence.

There are two general types of shipping damage. The first is **visible damage**. This type of damage includes visible loss, damage, shortage or any external evidence of loss or damage that is visible at time of delivery. **This type of damage must be noted in detail on your delivery receipt. Make sure the driver signs and dates the delivery receipt, acknowledging the damage.** This has to happen at the time of delivery or it won't happen at all. Keep a copy for your records and send another to the carrier's damage claims department along with a formal request for an inspection report. Follow up with a phone call. Their contact information can be found on the carrier's web site.

The second type of shipping damage is **concealed damage**. This type of damage will probably not be apparent at time of delivery and may not be discovered until unpacking and inspecting the unit. Remember, time is of the essence here. You should unpack and inspect the unit as soon as possible. Each day that passes reduces the likelihood that the carrier will pay the claim. **As soon as the concealed damage is discovered, stop unpacking and retain all packing materials. Contact the carrier by phone to report the claim.** Note the date and time and person you spoke with. Get a claim number. Follow up with a written letter referencing the claim number and including a formal request for an inspection. Again, consult the carrier's website for specific claim instructions and follow them precisely.

**AS STATED ABOVE, THE CARRIER IS YOUR SOLE SOURCE FOR SATISFACTION OF A DAMAGE CLAIM. UNDER NO CIRCUMSTANCES SHOULD THE MERCHANDISE BE RETURNED TO THE MANUFACTURER. NO RETURNS WILL BE ACCEPTED WITHOUT PRIOR AUTHORIZATION.**

## INSTALLATION

### UNCRATING

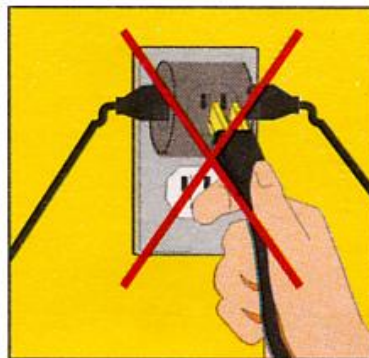
Move the unit as close to the final location as possible before unpacking. Remove from the box and the styrofoam base. The location should be as close as possible to the power outlet so an extension cord is not needed. This unit requires a **minimum of 4 inches of air flow space in back and 3 inches on the sides and top.** Do not store material on the top of this unit.

### LEVELING

You can level your unit with the screw-type adjustable leveling legs on the front corners of the unit. Turn counterclockwise to raise the corner; turn clockwise to lower it. Leveling legs are required in front only. Unit may have a slight tilt from front to back after legs are installed. This is acceptable and is recommended on this unit.

### POWER SOURCE

The supply circuit to this cabinet must conform to all National and Local Electrical Codes. Consult the cabinet Serial-Data plate for voltage, cycle, phase, and amp requirements before making connection. **VOLTAGE SHOULD NOT VARY MORE THAN 5% FROM SERIAL PLATE RATINGS.** A separate circuit is recommended to prevent possible loss of product due to over-loading or failure of other equipment on the same circuit. **PROTECT THE CIRCUIT WITH A 20 AMP DELAY-TYPE FUSE OR CIRCUIT BREAKER.** Do not use an extension cord. Be sure your unit is properly grounded. Use the 3-prong plug provided into a 3-prong grounded outlet. (Only this method complies with national electrical codes, local codes and ordinances.) Unless the above grounding method is followed, you are not protected against severe or lethal shock in the event of a short circuit of an electrical component or wiring of the unit.



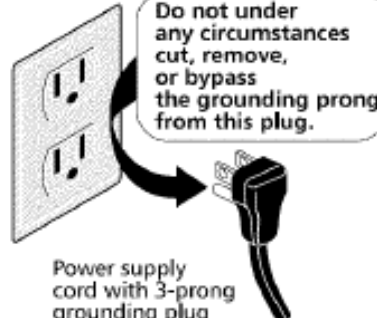
**Never plug in more than one unit per electrical outlet.**

**⚠ WARNING** Avoid fire hazard or electric shock. Do not use an extension cord or an adapter plug. Do not remove any prong from power cord.

Grounding type wall receptacle

Do not under any circumstances cut, remove, or bypass the grounding prong from this plug.

Power supply cord with 3-prong grounding plug



## STARTING

There are no compressor shipping bolts to loosen or valves to open. All that is necessary after the unit has been properly leveled is to plug the service cord into an electrical outlet. When starting this new appliance, allow the cabinet to operate a minimum of eight hours or until it has started cycling normally before placing product in the cabinet. The motor compressor may start and stop several times when the unit is first started or after defrosting, especially if the weather is very hot. This is only normal functioning of the motor overload protector. The motor compressor will cycle normally as soon as the excess heat has been removed.

## TEMPERATURE CONTROL

### **NOTE:**

**The control is preset at the factory to provide the desired air and product temperatures inside of the unit and requires no further adjustment. Please contact the manufacturer's Technical Support Department before making any adjustments to determine if adjustment is necessary and, if so, to make sure it is performed properly.**

This unit has a manual thermostat which controls the compressor. On the ABT-UCFS-0420W, it is located on the front of the freezer above the door. On the other models, it is located inside the compartment. Turning the thermostat towards the higher numbers or "COLDER" arrow will make the unit colder. Turning the thermostat towards the lower numbers or "WARMER" arrow will make the unit warmer. Turning the thermostat to the off or 0 position will turn the unit off.

## **NORMAL OPERATION**

After the unit is properly installed and power is applied, it will take some time before the system is cooled down to temperature and cycling normally. You should wait 8 hours on the first startup before beginning to add product to the unit. This ensures that the unit is installed and operating properly before being put into service. On subsequent startups (after cleanings, for example), this wait time can be reduced to about 3 hours. After this wait time, the unit should be cycling in the desired temperature band. The temperature control was calibrated before leaving the factory, so no adjustment should be necessary.

Loading the units will again cause temperature to rise as the warmer product is introduced into the compartment. If a large amount of product is to be introduced, it is a good idea to do it in stages, allowing several hours between stages to allow temperature to stabilize again before introducing additional warm product. This will minimize the temperature transient while loading. Other tips for successful loading include:

- Leave about 2-3 inches of free space along the back and sides of the unit to allow for proper air flow and, therefore, more even cooling of the product.
- When loading the top shelf, avoid blocking the evaporator fan(s) (if installed). There should be at least 4 inches of clearance below the fan(s) to allow proper air flow.
- Do not overload the unit. Maximum suggested load is about 75% of the chamber capacity. Additionally, the load should be distributed evenly from top to bottom and side to side for best results.
- Minimize the time the door is open. On top of letting the cold air out, you are also letting warm, moist air in which can result in more condensation and/or frost in the unit.

Remember that the units are calibrated to the desired temperature band before leaving the factory. We also do extensive testing to ensure that these temperatures will result in product temperatures in the desired band. There should be no need to adjust the temperature control on these units, but if it is necessary, they can be adjusted using the manual thermostat on the inside of the unit.

**It is STRONGLY RECOMMENDED that you contact the manufacturer's Technical Support Department prior to performing any temperature adjustments to ensure the adjustment is necessary and, if so, it is performed correctly.**

## QUICK TROUBLESHOOTING GUIDE

Check these items before calling for service

PROBLEM:	POSSIBLE CAUSE / SOLUTIONS:
Unit does not run	<ul style="list-style-type: none"> <li>• Electrical circuit is not 110-120V 60Hz.</li> <li>• The power cord is not plugged in.</li> <li>• No power at electrical outlet. Check to make sure breaker is not tripped or fuse is not blown. Additionally, make sure unit is not plugged into a Ground Fault Circuit Interrupter (GFCI) type of outlet.</li> </ul>
Unit does not maintain at the proper temperature	<ul style="list-style-type: none"> <li>• Check the room temperature. We recommend the refrigerator or freezer should be placed in the air conditioned room between 65°F to 85°F. If the room temp is too warm, the refrigerator or freezer may not be able to maintain the interior temp at proper range.</li> <li>• Door is not closed properly.</li> <li>• Amount of stored product is overloaded.</li> <li>• Product replacements are pushed against rear wall or interrupted the proper refrigerator air circulation. For the proper air circulation, place the products evenly on each shelf. Do not push against the refrigerator's rear or side walls.</li> <li>• Evaporator is blocked by frost or ice. Remove the products, unplug the refrigerator or freezer power, and allow the unit to defrost. If the problem still exists, call for service.</li> <li>• 3<sup>rd</sup> party thermometer is placed incorrectly. For proper temperature monitoring, the thermometer should be place in the middle of refrigerator.</li> </ul>
Appliance runs too long	<ul style="list-style-type: none"> <li>• Prolong door openings.</li> <li>• Control set too cold.</li> <li>• Room temperature is high which will make the unit work harder to keep cool.</li> </ul>
Temperature of external wall surface is warm	<ul style="list-style-type: none"> <li>• The exterior walls can be as much as 30 degrees warmer than room temperature due to the embedded condenser coils. This is normal when the unit is operating.</li> </ul>

PROBLEM:	POSSIBLE CAUSE / SOLUTIONS:
Compressor noises	<ul style="list-style-type: none"> <li>Compressor may be overheated. Please check the room temp and ensure the range is within 65°F to 85°F. If the problem still exists, call for service.</li> </ul>
Moisture collects inside	<ul style="list-style-type: none"> <li>Door gasket is not sealing properly. Check for debris, cracks, and items passing through door at the gasket.</li> <li>The refrigerator or freezer is facing a doorway or is underneath of air conditioning vent. Relocate the unit or redirect air vent.</li> <li>Too many door openings. Minimize time door is open.</li> <li>Hot, humid weather increases condensation.</li> <li>Make sure there is a water trap (U-shaped loop) in the drain tube near the compressor. This will “trap” a small amount of water in the loop and prevent air from entering the chamber through the tube.</li> </ul>
Moisture collects on outside surface	<ul style="list-style-type: none"> <li>Hot, humid weather increases condensation.</li> <li>As humidity decreases, moisture will disappear.</li> </ul>
Odor inside the unit	<ul style="list-style-type: none"> <li>Interior needs to be cleaned. See section on maintenance and cleaning in this manual.</li> <li>Make sure product containers are tightly sealed to prevent leakage</li> </ul>
Door will not close	<ul style="list-style-type: none"> <li>The unit is not level. Refer to the Leveling section at the beginning of this manual</li> <li>Check for dirt and debris or items passing through the door seal.</li> </ul>

**MOISTURE DURING THE SUMMER MONTHS**

The amount of moisture, condensation, or high humidity related issues increase during the summer and, in most cases, will self-resolve when the weather cools down. Please note a refrigeration system will NOT generate moisture or water but simply condenses the moisture that is already in the chamber. Keeping the unit in an air conditioned, low humidity space will resolve many issues.

Other things you should check:

1. Location of the refrigerator (See Quick Troubleshooting Guide above)
2. Door sealing and frequency of door opening event (See Quick Troubleshooting Guide above)
3. Make sure there is a water trap (U-shaped loop) in the drain tube near the end. This will “trap” a small amount of water in the loop and prevent air from entering the chamber through the tube.

**BEFORE CALLING THE MANUFACTURER’S TECHNICAL SUPPORT DEPARTMENT**, please have the unit’s model and serial number ready as well as the problem description. The model and serial number is located on the serial tag which can be found on the interior left upper wall of the unit.



## MAINTENANCE AND CLEANING

These units require very little maintenance. They should be cleaned periodically to keep them running efficiently. Use the cleaning agents and suggestions in the table below for best results.

The freezers should be defrosted and cleaned whenever ¼ to ½ inch of frost has accumulated inside the unit or if the unit will not maintain proper temperature. Use the procedures in the Defrosting section below.

### CLEANING

PART	CLEANING AGENTS	TIPS AND PRECAUTIONS
Interior and Door Liners	Soap and water Baking soda and water	Use 2 tablespoons of baking soda in 1 quart of warm water Be sure to wring excess water out of sponge or cloth before cleaning around controls, light bulb or any electrical parts.
Glass Doors (if applicable)	Soap and water	Clean the glass with a mild detergent and water on a soft cloth or sponge. Rinse with water and wipe dry
Door Gaskets	Soap and water	Wipe gaskets and their seating surfaces with a clean soft cloth
Shelves	Soap and water	Do not wash removable shelves in dishwasher
Exterior and Handles	Soap and water Non Abrasive Glass Cleaner	Do not use commercial household cleaners, ammonia, or alcohol to clean handles Use a soft cloth to clean smooth handles Do not use a dry cloth to clean smooth handles

### DEFROSTING (for Freezers only)

It is important to defrost and clean the unit when ¼ to ½ inch of frost has accumulated inside the unit or around the evaporator coils or when the unit will not maintain proper temperature. When defrosting becomes necessary, turn the unit off by disconnecting it from the power source. **DO NOT ADJUST THE THERMOSTAT.** Remove the product and leave the door open while defrosting the evaporator. The frost should melt and drain through the drain tube to the drain pan under the unit. Place towels in the bottom of the unit as necessary to help absorb the melted frost. Once the unit is defrosted, clean it using the cleaning suggestions in the table above. Wipe away any excess water and return the unit to service per the “Normal Operation” section of this manual.

## PRODUCT WARRANTY INFORMATION

### HORIZON SCIENTIFIC, INC. PRODUCT WARRANTY

Horizon Scientific, Inc. warrants to the original purchaser every new Horizon Scientific, Inc. refrigerated unit, the cabinet and all parts thereof, to be free from defects in material or workmanship, when such unit is installed, used, and maintained in accordance with provided instructions, for a period of two (2) years. The warranty period starts two weeks from the date of shipment from Horizon Scientific, Inc. This two week period allows ample shipping time so that the warranty will go into effect at approximately the same time your equipment is delivered. Unless subject to prior written agreement with Horizon Scientific, Inc., this warranty does not allow for any warranty start deferment greater than two weeks from date of shipment due to a delayed installation and/or start-up. By purchasing any product from Horizon Scientific, Inc., you and any entity for which you are purchasing acknowledge and agree to each and every provision contained herein, and all other Notices and Terms provided to Purchaser by Horizon Scientific, Inc., which are hereby incorporated.

Under this warranty, Horizon Scientific, Inc., through its authorized service organizations, will repair, or at its option, replace any part found to contain a manufacturing defect in material or workmanship without charge to the owner for parts and service labor. Replacement or repaired parts will be warranted for only the unexpired portion of the original warranty. Horizon Scientific, Inc. will not assume any shipping or cartage costs for parts under warranty. These costs shall be paid by the customer.

#### ADDITIONAL THREE YEAR COMPRESSOR WARRANTY

In addition to the two (2) year warranty stated above, Horizon Scientific, Inc. warrants its hermetically and semi-hermetically sealed compressors to be free from defects in both material and workmanship under normal use and service for a period of three (3) additional years from the end of the initial two (2) year warranty period, but not to exceed five (5) years after shipment from Horizon Scientific, Inc.

Compressors determined by Horizon Scientific, Inc. to have been defective within this extended time period will, at Horizon Scientific, Inc.'s option, be either repaired or replaced with a compressor or compressor parts of similar design and capacity.

The three (3) year extended compressor warranty applies only to hermetically and semi-hermetically sealed parts of the compressor and does not apply to any other parts or components, including, but not limited to, cabinet, paint finish, temperature control, refrigerant, metering device, driers, motor starting equipment, fan assembly or any other electrical components.

Horizon Scientific, Inc.'s sole obligation under this warranty is limited to either repair or replacement of parts, subject to the additional limitations below. This warranty neither assumes nor authorizes any person to assume obligations other than expressly covered by this warranty.

**NO CONSEQUENTIAL DAMAGES.** Horizon Scientific, Inc. is not responsible for economic loss; profit loss; or special, indirect or consequential damages, including without limitation, losses or damages arising from contents spoilage claims whether or not on account of refrigeration failure, electrical failure, power failure, or compressor failure. HORIZON SCIENTIFIC, INC.'S MAXIMUM CUMULATIVE LIABILITY RELATIVE TO ALL CLAIMS AND LIABILITIES, INCLUDING OBLIGATIONS UNDER ANY INDEMNITY, WHETHER

OR NOT INSURED, SHALL NOT EXCEED THE COST OF THE PRODUCT(S) GIVING RISE TO THE CLAIM OR LIABILITY.

**WARRANTY IS NOT TRANSFERABLE.** This warranty is not assignable and applies only in favor of the original purchaser/user to whom delivered. Any such assignment or transfer shall void the warranties herein made and shall void all warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose.

**NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** There are no other warranties, express, implied, or statutory, except the two (2) year warranty and the additional three (3) year compressor warranty as described above. These warranties are exclusive and in lieu of all other warranties, including implied warranty and merchantability or fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof, whether based on contract, warranty, tort (including negligence), strict liability, indemnity, or any other legal theory, and whether arising out of warranties, representations, instructions, installations, or non-conformities from any cause. Purchaser further acknowledges that the purchase price of the Product reflects these warranty terms and remedies.

**ALTERATION, NEGLIGENCE, ABUSE, MISUSE, ACCIDENT, DAMAGE DURING TRANSIT OR INSTALLATION, FIRE, FLOOD OR OTHER EXTERNAL CAUSES.**

Horizon Scientific, Inc. is not responsible for the repair or replacement of any parts that Horizon Scientific, Inc. determines have been subjected after the date of manufacture to alteration, neglect, abuse, misuse, accident, damage during transit or installation, fire, flood or other external causes. It does not apply to defects resulting from failure to properly install, operate or maintain the product in accordance with the printed instructions provided, or damage caused by the storage of any corrosive material that comes in contact with the interior or exterior portions of the cabinet, or the use of spark producing equipment or containers (such as galvanized or carbonized steel containers) that come in contact with any interior portion of the cabinet.

**OUTSIDE U.S./CANADA.** This warranty does not apply to, and Horizon Scientific, Inc. is not responsible for, any warranty claims made on products sold or used outside the United States and Canada.

**CHOICE OF LAW/VENUE.** The laws of the State of South Carolina shall govern the validity, interpretation and enforcement of this warranty, regardless of conflicts of law principles. Purchaser agrees that proper venue for any action to enforce the terms of this warranty shall be the Dorchester County District Courts, South Carolina. Purchaser submits the jurisdiction of such courts over the Purchaser and the subject matter of any such action. Any action for breach of these warranty provisions must be commenced within one (1) year after that cause of action has accrued.

**WARRANTY CLAIMS.** To obtain prompt warranty service, simply contact the manufacturer at 800-648-4041. Horizon Scientific, Inc.'s shipping records showing date of shipment shall be conclusive in establishing the warranty period. All claims should include: model number of the refrigerator, the serial number of the cabinet, proof of purchase, date of installation, and all pertinent information supporting the existence of the alleged defect. Any repairs must be authorized by Horizon in order for the warranty to be honored.