

INSTALLATION MANUAL FOR TRUE HORIZONTAL AIR CURTAIN MODELS



THAC-48

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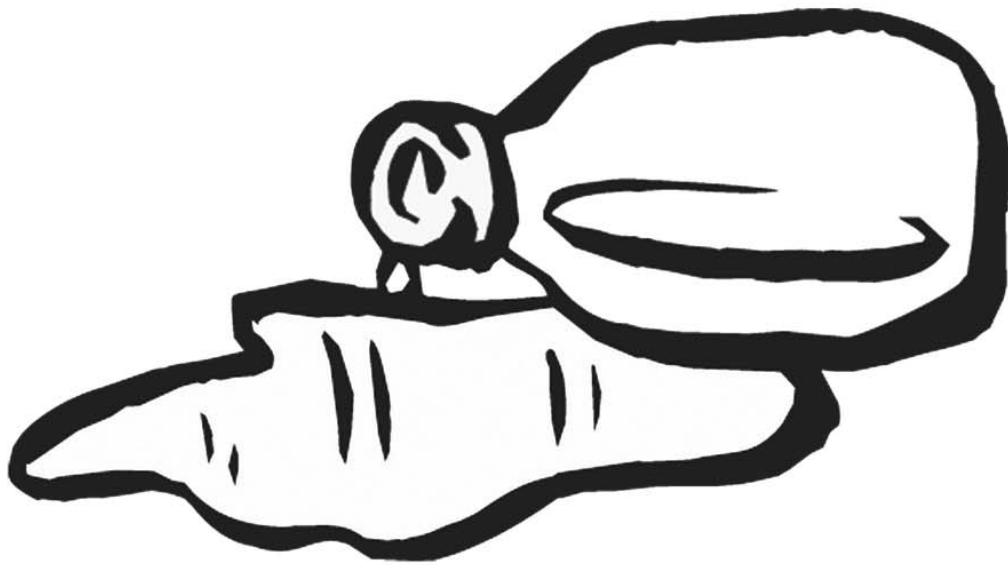
*Spanish & French versions included.

CONGRATULATIONS!

You have just purchased the finest commercial refrigeration available. You can expect many years of trouble-free operation.

THAC (TRUE HORIZONTAL AIR CURTAIN MODELS)

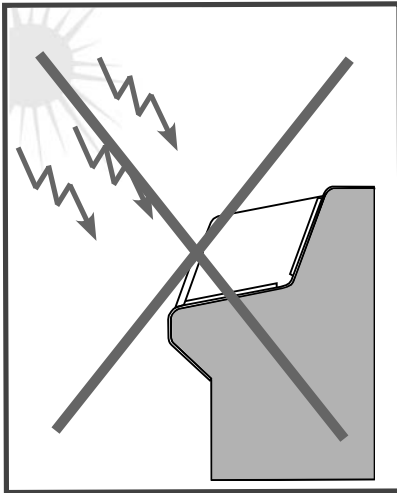
**NOTICE TO
CUSTOMER:**



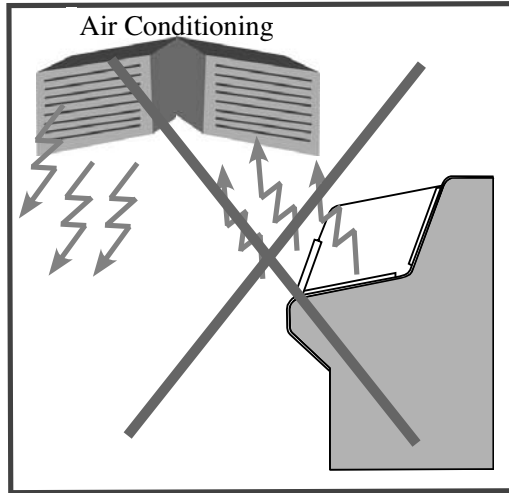
**Loss Or Spoilage of
Products In Your True
Air Curtain Refrigerator
Is NOT Covered By
Warranty.**

True Manufacturing Company, Inc.

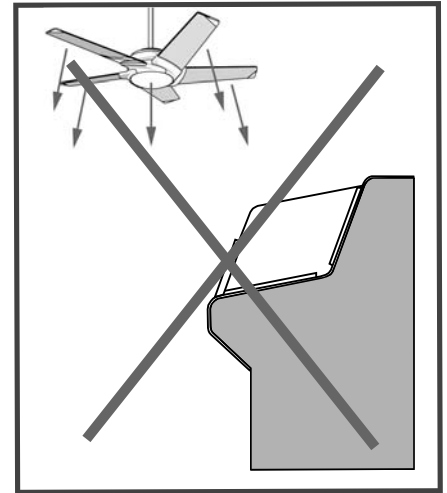
THAC (True Horizontal Air Curtain) Recommended Operating Conditions



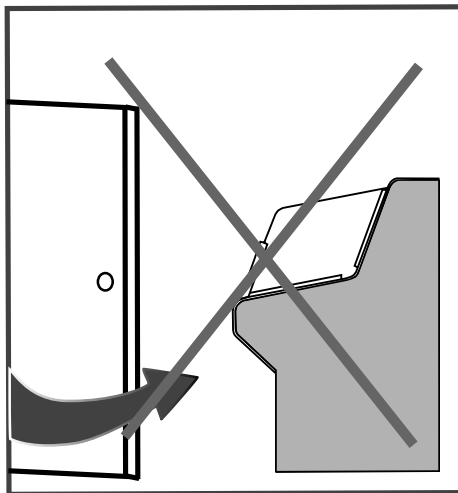
- Units should not be installed in direct sunlight.



- Units should not be installed near HVAC vents.



- Units should not be installed near fans.

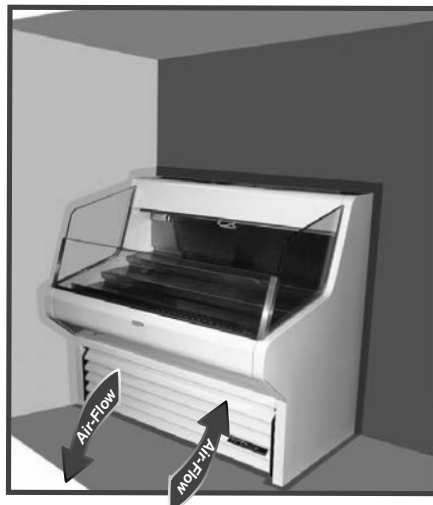


- Units should not be installed near doorways.



- Level cabinet front to back and side to side.

- Check for proper clearance for air flow in front of the unit.



- Operating environment not to exceed 75°F (23°C) and 55% humidity.

SAFETY INFORMATION

How to Maintain Your Unit to Receive the Most Efficient and Successful Operation

You have selected one of the finest commercial refrigeration units made. It is manufactured under strict quality controls with only the best quality materials available. Your TRUE cooler, when properly maintained, will give you many years of trouble-free service.

WARNING!

Use this appliance for its intended purpose as described in this Owner Manual.

This cabinet contains fluorinated greenhouse gas covered by the Kyoto Protocol (please refer to cabinet's inner label for type and volume, GWP of 134a= 1,300. R404a= 3,800).

SAFETY PRECAUTIONS

When using electrical appliances, basic safety precautions should be followed, including the following:

- This refrigerator must be properly installed and located in accordance with the Installation Instructions before it is used.
- Do not allow children to climb, stand or hang on the shelves in the refrigerator. They could damage the refrigerator and seriously injure themselves.
- Do not touch the cold surfaces in the refrigerated compartment when hands are damp or wet. Skin may stick to these extremely cold surfaces.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Keep fingers out of the "pinch point" areas; clearances between the doors and cabinet are necessarily small; be careful closing doors when children are in the area.

NOTE: We strongly recommend that any servicing be performed by a qualified individual.

- Unplug the refrigerator before cleaning and making repairs.
- Setting temperature controls to the 0 position does not remove power to the light circuit or evaporator fans.

SAFETY INFORMATION

DANGER!
RISK OF CHILD ENTRAPMENT

PROPER DISPOSAL OF THE REFRIGERATOR

Child entrapment and suffocation are not problems of the past. Junked or abandoned display cases are still dangerous... even if they will sit for “just a few days.” If you are getting rid of your old display case, please follow the instructions below to help prevent accidents.

Before You Throw Away Your Old Refrigerator or Freezer:

- Take off the doors.
- Leave the shelves in place so that children may not easily climb inside.

Refrigerant Disposal

Your old refrigerator may have a cooling system that uses “Ozone Depleting ” chemicals. If you are throwing away your old refrigerator, make sure the refrigerant is removed for proper disposal by a qualified service technician. If you intentionally release any refrigerants you can be subject to fines and imprisonment under provisions of the environmental regulations.

USE OF EXTENSION CORDS

NEVER USE AN EXTENSION CORD! TRUE will not warranty any display case that has been connected to an extension cord.

SAFETY INFORMATION

WARNING!**HOW TO CONNECT ELECTRICITY**

Do not, under any circumstances, cut or remove the third (ground) prong from the power cord. For personal safety, this appliance must be properly grounded.

The power cord of this appliance is equipped with a 3-prong (grounding) plug which mates with a standard 3-prong (grounding) wall outlet to minimize the possibility of electric shock hazard from this appliance.

Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded.

If the outlet is a standard 2-prong outlet, it is your personal responsibility and obligation to have it replaced with the properly grounded 3-prong wall outlet.

The unit should always be plugged into its own individual electrical circuit, which has a voltage rating that matches the rating plate.

This provides the best performance and also prevents overloading building wiring circuits which could cause a fire hazard from overheated wires.

Never unplug your refrigerator by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.

Repair or replace immediately all power cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length or at either end.

When removing the refrigerator away from the wall, be careful not to roll over or damage the power cord.

USE OF ADAPTER PLUGS

NEVER USE AN ADAPTER PLUG! Because of potential safety hazards under certain conditions, we strongly recommend against the use of an adapter plug.

NEMA plugs

TRUE uses these types of plugs. If you do not have the right outlet have a certified electrician install the correct power source.



115/60/1
NEMA-5-15R

INSTALLATION / OPERATION INSTRUCTIONS

INSTALLATION / OPERATION INSTRUCTIONS

OWNERSHIP

To insure that your unit works properly from the first day, it must be installed properly. We highly recommend a trained mechanic and electrician install your True equipment. The cost of a professional installation is money well spent.

Before you start to install your True unit, carefully inspect it for freight damage. If damage is discovered, immediately file a claim with the delivery freight carrier.

True is not responsible for damage incurred during shipment.

REQUIRED TOOLS

- Adjustable Wrench
- Phillips Head Screwdriver
- Level

UNCRATING

Step 1

The following procedure is recommended for uncrating the unit:

- A.** Remove the outer packaging by pulling tri-wall nails from skid. Remove (4) cardboard corner pads and dust cover.
- B.** Inspect for concealed damage. Again, immediately file a claim with the freight carrier if there is damage.

- C.** Move your unit as close to the final location as possible before removing the wooden skid.

LOCATING

Step 2

- A.** Place packing material behind cabinet as a cushion. Carefully lay the unit on its back to remove skid.

When lifting unit remember to leave the cabinet upright for 24 hours before plugging into power source.

- B.** Remove skid by unscrewing all base rail anchor brackets. Place skid to the side.
- C.** Carefully lift cabinet upright.

Installation Tips

- Place cabinet in an area that will not have any air drafts.
- Excessive airflow around cabinet can effect interior cabinet airflow (air-curtain).
- No HVAC supply or return air vents pushing air into or pulling air out of cabinet.
- No doorways.
- No ceiling fans.
- Do not place into direct sunlight.

NOTE:

Do not place THAC unit in an area that will obstruct air flow through the front louver grill.

- Maximum ambient condition 75 degrees and 55% Relative Humidity.

Removing skid from bottom of cabinet.



INSTALLATION / OPERATION INSTRUCTIONS

INSTALLATION OF LEGS AND CASTORS

Step 3

Leg Levelers:

If the cabinet is not level use an open-end wrench and turn adjustable tips on legs until cooler is level. (See image 1).

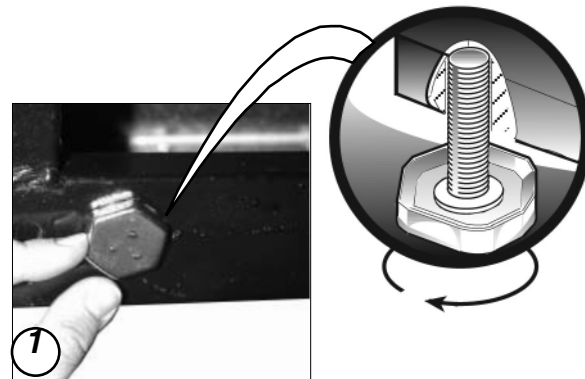
Castor Installation: (Kit Contents)

- 2 - Castor mounting bracket
- 2 - Castor, 2-1/2" diameter wheel with 3/8" - 16 x 1-1/2" threaded stem without brake
- 2 - Castor, 2-1/2" diameter wheel with 3/8" - 16 x 1-1/2" threaded stem with brake
- 4 - Washer, flat, 3/8" I.D. x 1" O.D.
- 4 - Washer, split lock, 3/8" I.D.
- 4 - Nut, hex, 3/8" - 16

(See image 2).

CAUTION

To avoid damage to lower rail assembly, slowly raise unit to upright position after installing castors.



Leg levelers in the bottom of the cabinet can be backed out for leveling.

LEVELING

Step 4

A. Set unit in its final location. Be sure there is adequate ventilation in your room.

Warranty is void if ventilation is insufficient.

B. Proper leveling of your True cooler is critical to operating success (for non-mobile models). Effective condensate removal and door operation will be effected by leveling.

C. The cooler should be leveled inside the cabinet front to back and side to side with a level.

D. Ensure that the drain hose or hoses are positioned in the pan.

E. Free plug and cord from inside the lower rear of the cooler (do not plug in).

F. The unit should be placed close enough to the electrical supply so that extension cords are never used.

Warning

Compressor warranties are void if the unit is more than 8ft. (2.4m) from plug-in connection. TRUE will not warranty any units that are connected to an extension cord.

G. Remove two Phillips screws from the bottom front louver grill. These screws can be kept in a safe place for future relocation. (See images below for location).



INSTALLATION / OPERATION INSTRUCTIONS

OPTIONAL (SEALING CABINET TO FLOOR)

It may be necessary to seal the True Horizontal Air Curtain unit to the floor for local sanitary codes or if the customer so desires. TRUE recommends either of the following methods.

- A. Using a vinyl cove base trim as produced by *Armstrong, Johnson, or Kentile* (available at floor covering suppliers) or
Using mastics available at hardware stores.
- B. When applying the cove base trim, thoroughly clean both the cabinet and floor of dirt and grease. Apply a recommended contact cement

to the cove base trim. After cove base trim has dried, fill in cracks and joints with a caulking material.

- C. When applying a mastic, thoroughly clean both the cabinet and floor of dirt and grease. Draw an outline of the cabinet on the floor. Raise and block the front side of the cabinet. Apply a bead of mastic to the floor 1/2" (1.3 cm) inside the outline drawn. Lower the cabinet. Raise and block the rear side of the cabinet. Apply the bead of mastic, lower the cabinet.

ELECTRICAL INSTRUCTIONS

Step 5

- A. Before your new unit is connected to a power supply, check the incoming voltage with a voltmeter. If anything less than 100% of the rated voltage for operation is noted, correct immediately.
- B. All units are equipped with a 8 ft. (2.4m) service cord, and must be powered at proper operating voltage at all times. Refer to cabinet data plate for this voltage.

True requires that a sole circuit be dedicated for the unit. Failure to do so voids warranty.

WARNING

Compressor warranties are void if compressor burns out due to low voltage.

WARNING

Power supply cord ground should not be removed!

NOTE

To reference wiring diagram - Remove lower rear grill. Wiring diagram is positioned on the inside cabinet wall.

INSTALLATION / OPERATION INSTRUCTIONS

CONDUCTORS AND CIRCUITS

Wire Gauge for 2% Voltage Drop in Supply Circuits.

| 115 Volt | | <i>Distance In Feet To Center of Load</i> | | | | | | | | | | |
|----------|----|---|----|----|----|----|----|----|-----|-----|-----|-----|
| Amps | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 |
| 2 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 3 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 |
| 4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 |
| 5 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 |
| 6 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 |
| 7 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 | 8 |
| 8 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 |
| 9 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 |
| 10 | 14 | 14 | 14 | 12 | 12 | 10 | 10 | 10 | 10 | 8 | 8 | 8 |
| 12 | 14 | 14 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 6 |
| 14 | 14 | 14 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 6 | 6 | 6 |
| 16 | 14 | 12 | 12 | 10 | 10 | 8 | 8 | 8 | 8 | 6 | 6 | 6 |
| 18 | 14 | 12 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 5 |
| 20 | 14 | 12 | 10 | 10 | 8 | 8 | 8 | 6 | 6 | 6 | 5 | 5 |
| 25 | 12 | 10 | 10 | 8 | 8 | 6 | 6 | 6 | 6 | 5 | 4 | 4 |
| 30 | 12 | 10 | 8 | 8 | 6 | 6 | 6 | 6 | 5 | 4 | 4 | 3 |
| 35 | 10 | 10 | 8 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 2 |
| 40 | 10 | 8 | 8 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 2 | 2 |
| 45 | 10 | 8 | 6 | 6 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 1 |
| 50 | 10 | 8 | 6 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 1 | 1 |

Wire Gauge for 2% Voltage Drop in Supply Circuits.

| 230 Volt | | <i>Distance In Feet To Center of Load</i> | | | | | | | | | | |
|----------|----|---|----|----|----|----|----|----|-----|-----|-----|-----|
| Amps | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 |
| 5 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 6 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 |
| 7 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 |
| 8 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 |
| 9 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 |
| 10 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 |
| 12 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 |
| 14 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 | 8 |
| 16 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 |
| 18 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 |
| 20 | 14 | 14 | 14 | 12 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 |
| 25 | 14 | 14 | 12 | 12 | 10 | 10 | 10 | 10 | 8 | 8 | 6 | 6 |
| 30 | 14 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 6 | 6 | 6 |
| 35 | 14 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 6 | 6 | 5 |
| 40 | 14 | 12 | 10 | 10 | 8 | 8 | 8 | 6 | 6 | 6 | 5 | 5 |
| 50 | 12 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 5 | 4 | 4 |
| 60 | 12 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 5 | 4 | 4 | 3 |
| 70 | 10 | 10 | 8 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 2 | 2 |
| 80 | 10 | 8 | 8 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 2 | 2 |
| 90 | 10 | 8 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | 1 | 1 |
| 100 | 10 | 8 | 6 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 1 | 1 |

INSTALLATION / OPERATION INSTRUCTIONS

STARTUP

Step 6

- A. The compressor is ready to operate. Plug in the unit.
- B. Excessive tampering with the temperature control could lead to service difficulties. Should it ever become necessary to replace temperature control, be sure it is ordered from your True dealer or recommended service agent.

NOTE

If the unit is disconnected or shut off, wait five minutes before starting again.

RECOMMENDATION

Before loading product we recommend you run your True unit empty for two to three days. This allows you to be sure electrical wiring and installation are correct and no shipping damage has occurred. Remember, our factory warranty does not cover product loss!

REPLACEMENT PARTS

TRUE maintains a record of the cabinet serial number for your unit. If at any time during the life of your display case, a part is needed, you may obtain this part by furnishing the model number and serial number to the company from whom you purchased the cabinet. Call Toll-Free: (800)-424-TRUE (Direct to Parts Department). (800)-325-6152 (U.S.A. & Canada only) or call: (636)-240-2400.

Serial Number



REMOTE UNITS (This section applies to remotes only!)

- Remote cabinets must be ordered as remote. We do not recommend converting a standard self contained to remote system.
- All remote cabinets must be hard wired.
- Remote cabinets are not available with castors.
- All remote cabinets come standard using 404A refrigerant.
- All remote units come standard with expansion valve, liquid line solenoid, heated condensate pan, and defrost timer when applicable.
- Contact True Technical Service for BTU requirements.
- No wiring necessary between cabinet and condensing unit.
- All remote condensing units purchased from True are 208/230 volts single phase.

If you have any questions regarding this section, please call True at 1 (800) 325-6152.

INSTALLATION / OPERATION INSTRUCTIONS

THAC DIGITAL TEMPERATURE CONTROL OPERATION

Digital Temperature Control Commands



Use of LED

Each LED function is described in the following table.

| LED | MODE | Function |
|-----|----------|--|
| | ON | The compressor is running |
| | FLASHING | - Programming Phase (flashing with LED) - Anti-short cycle delay enabled |
| | ON | The fan is running |
| | FLASHING | Programming Phase (flashing with LED) |
| | ON | The defrost is enabled |

KEY COMBINATIONS

- + To lock & unlock the keyboard.
- + To enter the programming mode.
- + To exit the programming mode.

HOW TO SEE THE MINIMUM TEMPERATURE:



1. Press and release the key.
2. The "Lo" message will be displayed followed by the minimum temperature recorded.
3. By pressing the key or waiting for 5 seconds the normal display will

be restored.

HOW TO SEE THE MAXIMUM TEMPERATURE:



1. Press and release the key.
2. The "Hi" message will be displayed followed by the maximum temperature recorded.
3. By pressing the key or waiting for 5s the normal display will be restored.

HOW TO RESET THE MAXIMUM AND MINIMUM TEMPERATURE RECORDED:

To reset the stored temperature, when maximum or minimum temperature is displayed:

1. Press SET key until "rST" label starts blinking.

HOW TO SEE AND MODIFY THE SET POINT:



1. Push and immediately release the SET key; the display will show the Set point value;
2. The SET LED start blinking;
3. To change the Set value push the or arrows within 10 seconds.
4. To memorize the new set point value push the SET key again or wait 10 seconds.

TO START A MANUAL DEFROST:



1. Push the Defrost key for more than 2 seconds and a manual defrost will start.

HOW TO LOCK THE KEYBOARD:



1. Keep the and keys pressed together for more than 3 seconds.



2. The "POF" message will be displayed and the keyboard is locked. At this point it is only possible to view the set point and the MAXIMUM OR MINIMUM temperatures stored.

1. TO UNLOCK THE KEYBOARD:

- Keep the and keys pressed together for more than 3 seconds.
2. The "PON" message will be displayed and the keyboard is unlocked.

MAINTENANCE, CARE & CLEANING

CLEANING THE CONDENSER COIL

When using electrical appliances, basic safety precautions should be followed, including the following

TOOLS REQUIRED:

- Phillips screwdriver
- Stiff bristle brush
- Adjustable wrench
- Vacuum

Step 1

Disconnect power to unit.

Step 2

Take off front lower grill assembly by swing grill up and remove frame hooks from pivot pins at top of louver.

Step 3

Clean off accumulated dirt from condensing coil with a stiff bristle brush.

Step 4

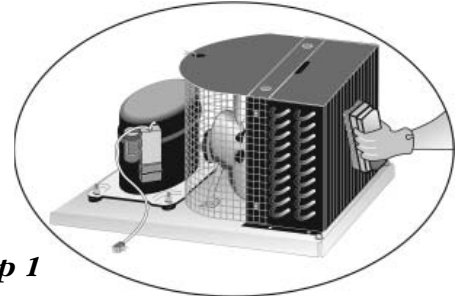
After brushing condenser coil vacuum dirt from coil, and interior floor.

Step 5

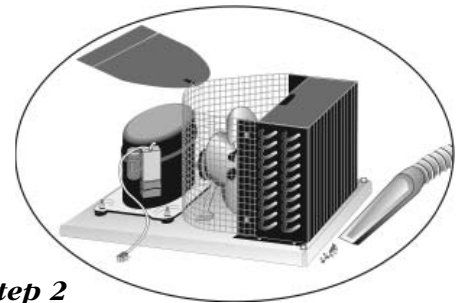
Replace grill assembly.

Step 6

Connect unit to power and check to see if condensing unit is running.



Step 1



Step 2



All **True** THAC Models are manufactured with Reversing Condenser Fan Motors. This kind of fan motor allows less dust and dirt to accumulate onto the condenser coil. This reduces the required cleaning time of the condenser coil and allows for less expensive operating costs.

MAINTENANCE, CARE & CLEANING

IMPORTANT WARRANTY INFORMATION

Condensers accumulate dirt and require cleaning every 30 days. Dirty condensers result in compressor failure, product loss, and lost sales... which are not covered by warranty.

If you keep the Condenser clean you will minimize your service expense and lower your electrical costs. The Condenser requires scheduled cleaning every thirty days or as needed.

Air is pulled through the Condenser continuously, along with dust, lint, grease, etc.

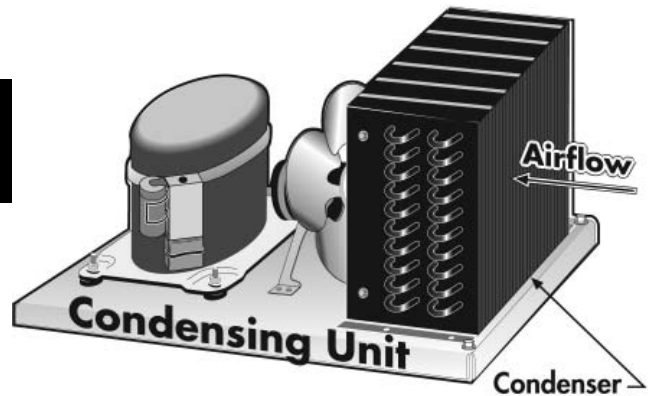
A dirty Condenser can result in NON-WARRANTED part & Compressor Failures, Product Loss, and Lost Sales.

Proper cleaning involves removing dust from the Condenser. By using a soft brush, or vacuuming the Condenser with a shop vac, or using CO₂, nitrogen, or pressurized air.

If you cannot remove the dirt adequately, please call your refrigeration service company.

The Condenser looks like a group of vertical fins. You need to be able to see through the condenser for the unit to function at maximum capacity. Do not place filter material in front of condensing coil. This material blocks air-flow to the coil similar to having a dirty coil.

THE CLEANING OF THE CONDENSER IS NOT COVERED BY THE WARRANTY!



HOW TO CLEAN THE CONDENSER:

- 1. Disconnect the electrical power to the unit.**
- 2. Remove the louvered grill.**
- 3. Vacuum or brush the dirt, lint, or debris from the finned condenser coil.**
- 4. If you have a significant dirt build up you can blow out the condenser with compressed air. (CAUTION MUST BE USED to avoid eye injury. Eye protection is recommended.)**
- 5. When finished be sure to replace the louvered grill. The grill protects the condenser.**
- 6. Reconnect the electrical power to the unit.**

If you have any questions, please call True Manufacturing at 636-240-2400 or 800-325-6152 and ask for the Service Department. Service Department Availability Monday-Friday 7:30 a.m. to 5:30 p.m. and Saturday 7:45 a.m. to 11:45 a.m. CST.

MAINTENANCE, CARE & CLEANING

STAINLESS STEEL EQUIPMENT CARE AND CLEANING

CAUTION: Do not use any steel wool, abrasive or chlorine based products to clean stainless steel surfaces.

• **Stainless Steel Opponents**

There are three basic things which can break down your stainless steel's passivity layer and allow corrosion to rear its ugly head.

- 1) Scratches from wire brushes, scrapers, and steel pads are just a few examples of items that can be abrasive to stainless steel's surface.
- 2) Deposits left on your stainless steel can leave spots. You may have hard or soft water depending on what part of the country you live in. Hard water can leave spots. Hard water that is heated can leave deposits if left to sit too long. These deposits can cause the passive layer to break down and rust your stainless steel. All deposits left from food prep or service should be removed as soon as possible.
- 3) Chlorides are present in table salt, food, and water. Household and industrial cleaners are the worst type of chlorides to use.

8 steps that can help prevent rust on stainless steel:

1. Using the correct cleaning tools

Use non-abrasive tools when cleaning your stainless steel products. The stainless steel's passive layer will not be harmed by soft cloths and plastic scouring pads. Step 2 tells you how to find the polishing marks.

2. Cleaning along the polish lines

Polishing lines or "grain" are visible on some stainless steels. Always scrub parallel to visible lines on some stainless steels. Use a plastic scouring pad or soft cloth when you cannot see the grain.

3. Use alkaline, alkaline chlorinated or non-chloride containing cleaners

While many traditional cleaners are loaded with chlorides, the industry is providing an ever increasing choice of non-chloride cleaners. If you are not sure of your cleaner's chloride content contact your cleaner supplier. If they tell you that your present cleaner contains chlorides, ask if they have an alternative. Avoid cleaners containing quaternary salts as they can attack stainless steel, causing pitting and rusting.

4. Water Treatment

To reduce deposits, soften the hard water when possible. Installation of certain filters can remove corrosive and distasteful elements. Salts in a properly maintained water softener can be to your advantage. Contact a treatment specialist if you are not sure of the proper water treatment.

5. Maintaining the cleanliness of your food equipment

Use cleaners at recommended strength (alkaline, alkaline chlorinated or non-chloride). Avoid build-up of hard stains by cleaning frequently. When boiling water with your stainless steel equipment, the single most likely cause of damage is chlorides in the water. Heating any cleaners containing chlorides will have the same damaging effects.

6. Rinse

When using chlorinated cleaners you must rinse and wipe dry immediately. It is better to wipe standing cleaning agents and water as soon as possible. Allow the stainless steel equipment to air dry. Oxygen helps maintain the passivity film on stainless steel.

7. Hydrochloric acid (muriatic acid) should never be used on stainless steel

8. Regularly restore/passivate stainless steel

MAINTENANCE, CARE & CLEANING

STAINLESS STEEL EQUIPMENT CARE AND CLEANING

Recommended cleaners for certain situations / environments of stainless steel

- A) Soap, ammonia and detergent medallion applied with a cloth or sponge can be used for routine cleaning.
- B) Arcal 20, Lac-O-Nu Ecoshine applied provides barrier film for fingerprints and smears.
- C) Cameo, Talc, Zud First Impression is applied by rubbing in the direction of the polished lines for stubborn stains and discoloring.
- D) Easy-off and De-Grease It oven aid are excellent for removals on all finishes for grease-fatty acids, blood and burnt-on foods.
- E) Any good commercial detergent can be applied with a sponge or cloth to remove grease and oil.
- F) Benefit, Super Sheen, Sheila Shine are good for restoration / passivation.

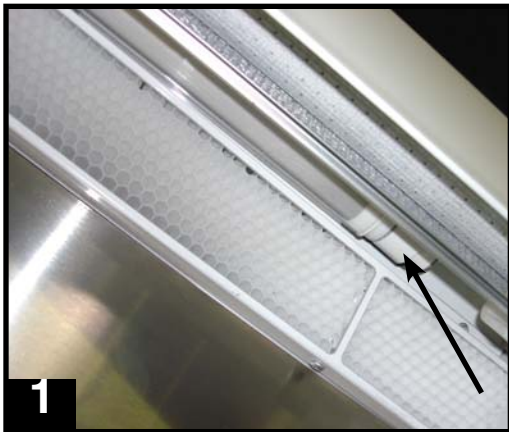
NOTE:
The use of stainless steel cleaners or other such solvents is not recommended on plastic parts. Warm soap and water will suffice.

LIGHT BULB REPLACEMENT

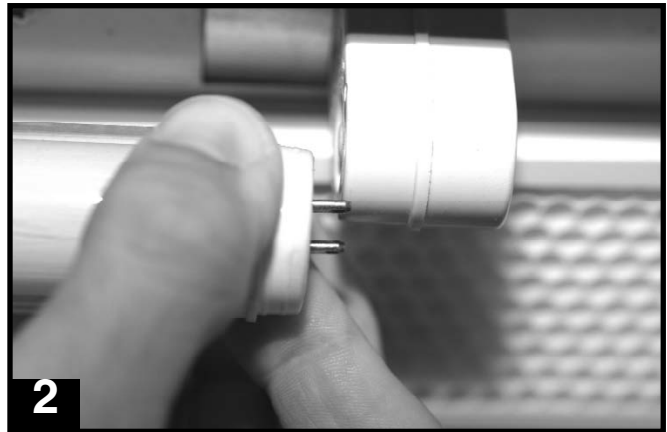
WARNING: Disconnect power to cabinet before replacing light bulbs.

Light Bulb Replacement:

- Hold firmly on the end of the light bulb and pull toward the center of the cabinet. The lampholders are spring activated so the bulb can easily be replaced. (See Image 1).
- When installing a new bulb make sure the prongs at the end of the bulb seat appropriately into the lampholder. (See Image 2).



Interior Light



Interior Lampholder



WARRANTY INFORMATION (U.S.A. & CANADA ONLY!)

ONE YEAR PARTS & LABOR WARRANTY

TRUE warrants to the original purchaser of every new TRUE refrigerated unit, the cabinet and all parts thereof, to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by TRUE and upon proper installation and start-up in accordance with the instruction packet supplied with each TRUE unit. TRUE's obligation under this warranty is limited to a period of one (1) year from the date of original installation or 15 months after shipment date from TRUE, whichever occurs first.

Any part covered under this warranty that are determined by TRUE to have been defective within one (1) year of original installation or fifteen (15) months after shipment date from manufacturer, whichever occurs first, is limited to the repair or replacement, including labor charges, of defective parts or assemblies. The labor warranty shall include standard straight time labor charges only and reasonable travel time, as determined by TRUE.

ADDITIONAL FOUR YEAR COMPRESSOR WARRANTY

In addition to the one (1) year warranty stated above, TRUE warrants its hermetically and semi-hermetically sealed compressor to be free from defects in both material and workmanship under normal and proper use and maintenance service for a period of four (4) additional years from the date of original installation but not to exceed five (5) years and three (3) months after shipment from the manufacturer.

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

The four (4) 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 component, etcetera.

404A/134A COMPRESSOR WARRANTY

The four year compressor warranty detailed above will be voided if the following procedure is not carefully adhered to:

- 1. This system contains R404A or R134A refrigerant and polyol ester lubricant. The polyol ester lubricant has rapid moisture absorbing qualities. If long exposure to the ambient conditions occur, the lubricant must be removed and replaced with new. For oil amounts and specifications please call True technical service department (800-325-6152). Failure to comply with recommended lubricant specification will void the compressor warranty.
2. Drier replacement is very important and must be changed when a system is opened for servicing. A drier using XH-7 desiccant or an exact replacement solid core drier must be used. The new drier must also be the same capacity as the drier being replaced.
3. Micron level vacuums must be achieved to insure low moisture levels in the system. 500 microns or lower must be obtained.

WARRANTY CLAIMS

All claims for labor or parts must be made directly through TRUE. All claims should include: model number of the unit, the serial number of the cabinet, proof of purchase, date of installation, and all pertinent information supporting the existence of the alleged defect.

In case of warranty compressor, the compressor model tag must be returned to TRUE along with above listed information. Any action or breach of these warranty provisions must be commenced within one (1) year after that cause of action has occurred.

WHAT IS NOT COVERED BY THIS WARRANTY

TRUE'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 those expressly covered by this warranty.

NO CONSEQUENTIAL DAMAGES. TRUE IS NOT RESPONSIBLE FOR ECONOMIC LOSS; PROFIT LOSS; OR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOSSES OR DAMAGES ARISING FROM FOOD OR PRODUCT SPOilage CLAIMS WHETHER OR NOT ON ACCOUNT OF REFRIGERATION FAILURE.

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.

IMPROPER USAGE. TRUE ASSUMES NO LIABILITY FOR PARTS OR LABOR COVERAGE FOR COMPONENT FAILURE OR OTHER DAMAGES RESULTING FROM IMPROPER USAGE OR INSTALLATION OR FAILURE TO CLEAN AND/OR MAINTAIN PRODUCT AS SET FORTH IN THE WARRANTY PACKET PROVIDED WITH THE UNIT.

RESIDENTIAL APPLICATIONS: True assumes no liability for parts or labor coverage for component failure or other damages resulting from installation in non-commercial or residential applications.

ALTERATION, NEGLIGENCE, ABUSE, MISUSE, ACCIDENT, DAMAGE DURING TRANSIT OR INSTALLATION, FIRE, FLOOD, ACTS OF GOD. TRUE is not responsible for the repair or replacement of any parts that TRUE determines have been subjected after the date of manufacture to alteration, neglect, abuse, misuse, accident, damage during transit or installation, fire, flood, or act of God.

IMPROPER ELECTRICAL CONNECTIONS. TRUE IS NOT RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF FAILED OR DAMAGED COMPONENTS RESULTING FROM ELECTRICAL POWER FAILURE, THE USE OF EXTENSION CORDS, LOW VOLTAGE, OR VOLTAGE DROPS TO THE UNIT.

NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE: THERE ARE NO OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, EXCEPT THE ONE (1) YEAR PARTS & LABOR WARRANTY AND THE ADDITIONAL FOUR (4) 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.

OUTSIDE U.S.: This warranty does not apply to, and TRUE is not responsible for, any warranty claims made on products sold or used outside the United States.