

## CONGRATULATIONS!

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

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## UNDERCOUNTERS WORKTOPS SANDWICH/SALAD PIZZA PREP & FOOD PREP



TWT-67D-2



TPP-67



TSSU-48-10-HC



TFP-72-30M-D-2



## INSTALLATION MANUAL

## REFRIGERATED FOOD PREP



## NOTICE TO CUSTOMER

**Loss or spoilage of products in your refrigerator/freezer is not covered by warranty. In addition to following recommended installation procedures you must run the refrigerator/freezer 24 hours prior to usage.**



## SAFETY INFORMATION

How to Maintain Your True Refrigerator 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.

**TO LOCATE REFRIGERANT TYPE, SEE SERIAL LABEL INSIDE CABINET.** This cabinet may contain fluorinated greenhouse gas covered by the Kyoto Protocol (please refer to cabinet's inner label for type and volume, GWP of I 34a= 1,300. R404a= 3,800).

### FOR HYDROCARBON REFRIGERATION ONLY (R-290) SEE BELOW:

- **DANGER** - Risk of fire or explosion. Flammable refrigerant used. Do not use mechanical devices to defrost refrigerator. Do not puncture refrigerant tubing.
- **DANGER** - Risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.
- **CAUTION** - Risk of fire or explosion. Flammable refrigerant used. Consult repair manual/owner's guide before attempting to service this product. All safety precautions must be followed.
- **CAUTION** - Risk of fire or explosion. Dispose of properly in accordance with federal or local regulations. Flammable refrigerant used.
- **CAUTION** - Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully. Flammable refrigerant used.
- **CAUTION** - Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.

## 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 freezer 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. Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

- Keep fingers out of the "pinch point" areas; clearances between the doors and between the doors and cabinet are necessarily small; be careful closing doors when children are in the area.
- Unplug the refrigerator before cleaning and making repairs.
- Setting temperature controls to the 0 position does not remove power to the light circuit, perimeter heaters, or evaporator fans.

**NOTE:** We strongly recommend that any servicing be preformed by a qualified technician.

**DANGER!****RISK OF CHILD  
ENTRAPMENT****PROPER DISPOSAL OF THE REFRIGERATOR**

Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous... even if they will sit 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.
- Leave the shelves in place so that children may not easily climb inside.

**APPLIANCE DISPOSAL**

When recycling appliance please make sure that the refrigerants are handled according to local and national codes, requirements and regulations.

**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 refrigerator that has been connected to an extension cord.

**REPLACEMENT PARTS**

- Component parts shall be replaced with like components.
- Servicing shall be done by authorized service personnel, to minimize the risk of possible ignition due to incorrect parts or improper service.
- Lamps must be replaced by identical lamps only.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

**WARNING!****HOW TO CONNECT ELECTRICITY**

**DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE GROUND PRONG FROM THE POWER CORD. FOR PERSONAL SAFETY, THIS APPLIANCE MUST BE PROPERLY GROUNDED.**

The power cord from this appliance is equipped with a grounding plug which minimizes the possibility of electric shock hazard.

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 wall outlet.

The refrigerator 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.

If supply power cord is damaged it should be replaced with original equipment manufacture parts. To avoid hazard this should be done by a qualified service technician.

**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.

The incoming power source to the cabinet including any adapters used must have the adequate power available and must be properly grounded. Only adapters listed with UL should be used.

**NORTH AMERICA USE ONLY!**

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.

**NOTE:** International plug configurations vary by voltage and country.



# INSTALLATION

## OWNERSHIP

To ensure that your unit works properly from the first day, it must be installed properly. We highly recommend a trained refrigeration 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.

## UNCRATING

### TOOLS REQUIRED

- Adjustable Wrench
- Phillips Screwdriver
- Level

The following procedure is recommended for uncrating the unit:

- Remove the outer packaging, (cardboard and bubbles or styrofoam corners and clear plastic). Inspect for concealed damage. Again, immediately file a claim with the freight carrier if there is damage.
- Move your unit as close to the final location as possible before removing the wooden skid.
- Remove door bracket on swinging glass door models (see image I-2). Do not throw the bracket or blocks away. For future cabinet movement the bracket and blocks will need to be installed so the glass door does not receive any damage. (See image for bracket and shipping block removal)

**NOTE: KEYS FOR COOLERS WITH DOOR LOCKS ARE LOCATED IN WARRANTY PACKETS.**

## ELECTRIC INSTALLATION & SAFETY INFORMATION

- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- Lamps must be replaced by identical lamps only.
- Appliance tested according to the climate classes 5 and 7 temperature and relative humidity.

### ELECTRICAL INSTRUCTIONS

- 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.
- All units are equipped with a service cord, and must be powered at proper operating voltage at all times. Refer to cabinet data plate for this voltage.

**TRUE RECOMMENDS THAT A SOLE USE CIRCUIT BE DEDICATED FOR THE UNIT.**

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

**WARNING:** Power supply cord ground should not be removed!

**WARNING:** Do not use electrical appliances inside the food storage compartments of the appliances unless they are of the type recommended by the manufacturer.

**NOTE:** To reference wiring diagram, remove front louvered grill, wiring diagram is positioned on the inside cabinet wall.





## WIRE GAUGE CHART

| 115 Volts | Distance In Feet To Center of Load |    |    |    |    |    |    |    |     |     |     |     |  |  |
|-----------|------------------------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|--|--|
| 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  | 14  |  |  |
| 4         | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 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  | 14  |  |  |
| 7         | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 8         | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 9         | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 10        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 12        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 14        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 16        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 18        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 20        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 25        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 30        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 35        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 40        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 45        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 50        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |

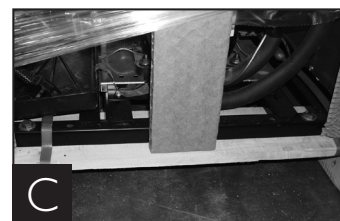
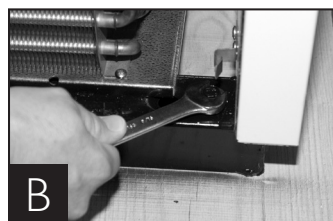
| 230 Volts | Distance In Feet To Center of Load |    |    |    |    |    |    |    |     |     |     |     |  |  |
|-----------|------------------------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|--|--|
| Amps      | 20                                 | 30 | 40 | 50 | 60 | 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  | 14  |  |  |
| 7         | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 8         | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 9         | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 10        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 12        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 14        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 16        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 18        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 20        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 25        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 30        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 35        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 40        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 50        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 60        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 70        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 80        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 90        | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |
| 100       | 14                                 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14  | 14  | 14  | 14  |  |  |

## LOCATING

- Remove louver from the front of cabinet (see page 11 for louver grill removal / reinstallation) and backguard (if applicable) from rear of cabinet.
- Skid bolts are located in each of 4 corners inside cabinet bottom. See photo A.
- Remove skid bolts. See photo B.
- Cut straps if applicable. See photo C.
- Carefully lift cabinet off of skid.
- Appliance tested according to the climate classes 5 and 7 for temperature and relative humidity.



Removing skid from bottom of cabinet.



## LEVELING

- Set unit in its final location. Be sure there is adequate ventilation in your room. Under extreme heat conditions, (100°F+, 38°C+), you may want to install an exhaust fan.

### WARNING: WARRANTY IS VOID IF VENTILATION IS INSUFFICIENT.

- 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.
- The cooler should be leveled front to back and side to side with a level.
- Ensure that the drain hose or hoses are positioned in the pan.
- Free plug and cord from inside the lower rear of the cooler (do not plug in).
- The unit should be placed close enough to the electrical supply so that extension cords are never used.

**NOTE:** If the cabinet has a center leveling screw, castor, or leg, make sure it is adjusted properly so it makes full contact with the floor after the cabinet has been leveled.

**WARNING: CABINET WARRANTIES ARE VOID IF OEM POWER CORD IS TAMPERED WITH. TRUE WILL NOT WARRANTY ANY UNITS THAT ARE CONNECTED TO AN EXTENSION CORD.**

## INSTALLATION OF CASTORS OR OPTIONAL LEGS

Important Safeguard for installation of leg/castor: Images 1-5 demonstrate procedure.

### SECURING CASTORS AND LEGS

To obtain maximum strength and stability of the unit, it is important that you make sure each castor is secure. Optional legs are hand-tightened securely against the lower rail assembly see image 4-5. The bearing race on the castor or the top edge of the leg must make firm contact with the rail.

### LEVELING SHIMS

Four leveling shims have been provided for leveling castored units positioned on uneven floors. Shims must be positioned between rail end and bearing race.

- Turn the bearing race counter-clockwise until the cabinet is level. Level front to back and side to side. (diagonally)
- Install the desired number of shims, making sure the slot of the shim is in contact with the threaded stem of the castor. See image 2.
- If more than one shim is used, turn the slot at a 90° angle so they are not in line.
- Turn the bearing race clockwise to tighten and secure the castor by tightening the anchoring bolt with a 3/4 inch open-end wrench or the tool provided. See image 3.

**CAUTION: TO AVOID DAMAGE TO LOWER RAIL ASSEMBLY, SLOWLY RAISE UNIT TO UPRIGHT POSITION.**

**NOTE: OPEN HOLES LOCATED ON THE CROSS MEMBERS OF THE FRAME RAIL SHOULD BE PLUGGED BEFORE UNIT IS IN USE.**



1 Thread castor into the underside of cabinet frame rail.



2 For leveling, insert the shim between castor and frame rail.



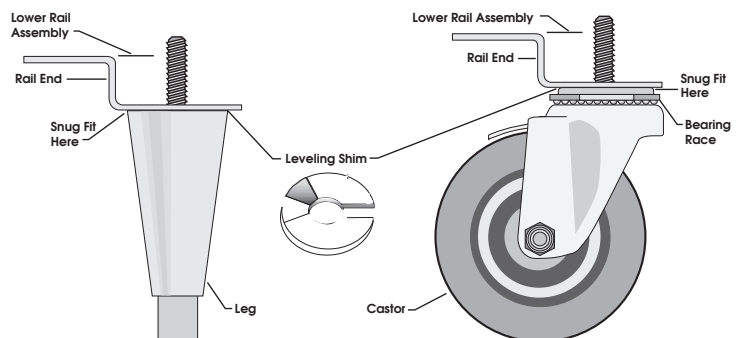
3 Use the tool provided to tighten the castor into place.



4 Thread leg into cabinet bottom frame rail.



5 The end of the leg is adjustable for easy leveling.

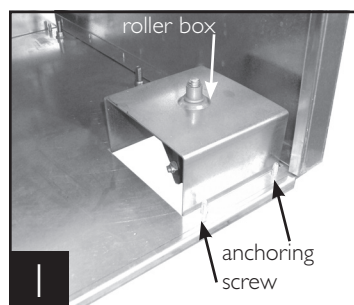
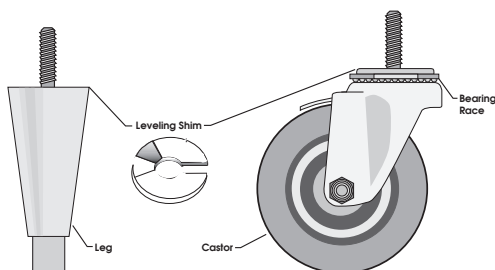


## INSTALLATION OF CASTORS OR OPTIONAL LEGS (TFP MODELS ONLY)

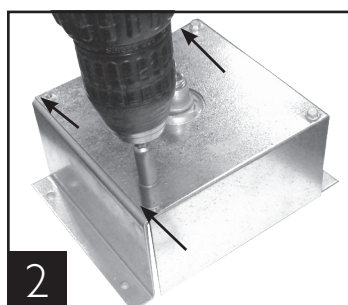
### ADJUSTING CASTORS FOR PROPER LEVELING

Level unit. If unit is not level shims are required. Follow these instructions to install shims.

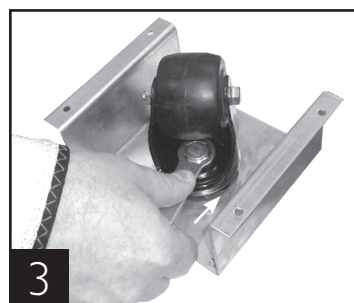
- Remove front and rear grill depending upon which castor needs adjusting. Locate the castor box.
- Lay unit on it's back. Use soft packing material and be careful not to scratch the unit. Remove pans and lid and place them to the side before laying unit on it's back.
- Each unit has one castor box different from the others. This box is totally enclosed. Remove this castor box from bottom of unit. Back out four screws anchoring the box. You will need a 1/4" hex head nut driver to disassemble this castor box.
- Loosen castor with tool provided.
- Install the desired number of shims, making sure the slot of the shim is in contact with the threaded stem of the castor. If more than one shim is used, turn the slot at a 90° angle so they are not in line.
- After adjusting castor reassemble and reinstall castor box. Then carefully upright unit and reinstall pans and lid. Angle so they are not in line.



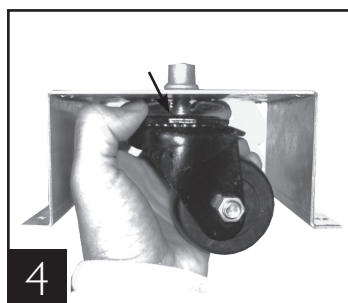
Locate castor box



One castor box on each unit is fully enclosed.



Loosen castor.



Install shims.

## SEALING CABINET TO FLOOR

**STEP 1 - Position Cabinet** - Allow one inch between the wall and rear of the refrigerator to assure proper ventilation. For freezers 3 inches between the wall and rear of the cabinet will assure proper ventilation.

**STEP 2 - Level Cabinet** - Cabinet should be level, side to side and front to back. Place a carpenter's level in the interior floor in four places:

- Position level in the inside floor of the unit near the doors. (Level should be parallel to cabinet front). Level cabinet.
- Position level at the inside rear of cabinet. (Again level should be placed parallel to cabinet back).
- Perform similar procedures to steps A & B by placing the level on inside floor (left and right sides - parallel to the depth of the cooler). Level cabinet.

**STEP 3** - Draw an outline on the base on the floor.

**STEP 4** - Raise and block the front side of the cabinet.

**STEP 5** - Apply a bead of "NSF Approved Sealant", (see list below), to floor on half inch inside the outline drawn. The bead must be heavy enough to seal the entire cabinet surface when it is down on the sealant.

**STEP 6** - Raise and block the rear of the cabinet

**STEP 7** - Apply sealant on floor as outlined in Step 5 on other three sides.

**STEP 8** - Examine to see that cabinet is sealed to floor around entire perimeter.

**NOTE:** Asphalt floors are very susceptible to chemical attack. A layer of tape on the floor prior to applying the sealant will protect the floor.

### NSF APPROVED SEALANTS:

1. Minnesota Mining #ECU800 Caulk
2. Minnesota Mining #ECU2185 Caulk
3. Minnesota Mining #ECU1055 Bead
4. Minnesota Mining #ECU1202 Bead
5. Armstrong Cork - Rubber Caulk
6. Products Research Co. #5000 Rubber Caulk
7. G.E. Silicone Sealer
8. Dow Corning Silicone Sealer

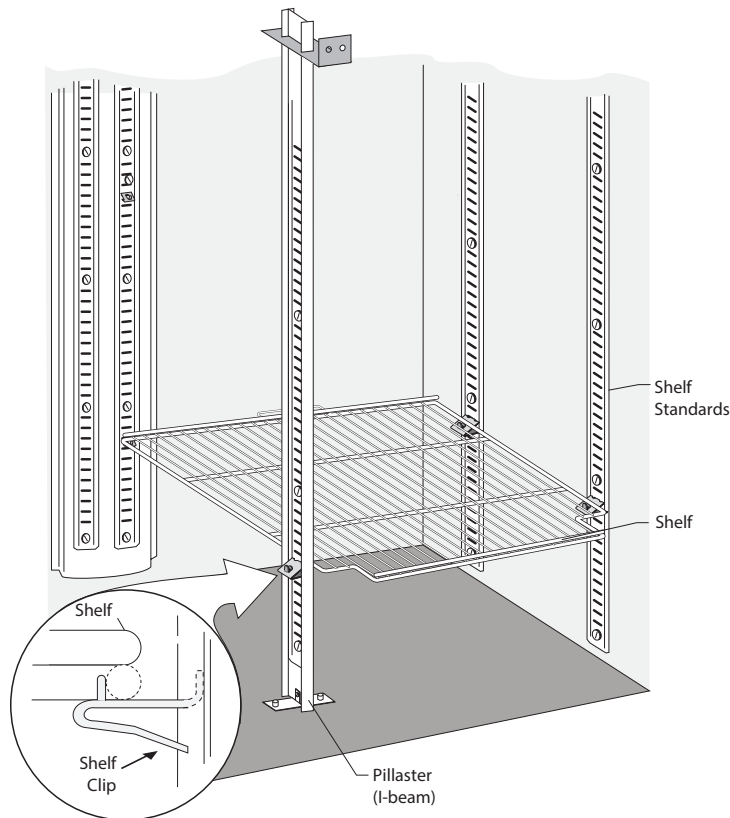
# SETUP

## STANDARD ACCESSORIES

### SHELVING INSTALLATION / OPERATION

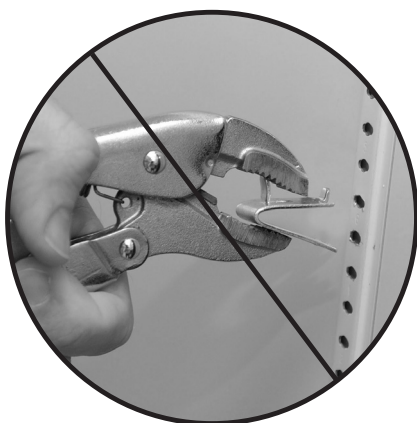
#### SHELF INSTALLATION:

- Hook shelf clips onto shelf standards.
- Position all four shelf clips equal in distance from the floor for flat shelves.
- Lower front of gravity feed TrueTrac organizers to enable proper feed.
- Place shelves on shelf clips making sure all corners are seated properly.



#### WARNING!

Do not use pliers or any crimping tools when installing shelf clips. Altering shelf clips in any way can lead to shelving instability.



#### SHELF INSTALLATION:

For Proper Shelf Clip Installation Please Read The Following Instructions.

##### STEP 1

Install the top tab of the shelf clip into the proper hole. Push up on the bottom of the clip. (See image 1).

##### STEP 2

Bottom tab of the shelf clip will fit tightly. You may need to squeeze or twist the bottom of the shelf clip to install. (See image 2 & 3).

##### STEP 3

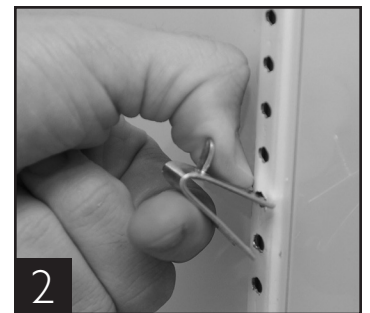
After installation, the shelf clip will fit snug into the shelf standard. The shelf clip should not be loose or able to wiggle out of the shelf standard.

#### SHELF INSTALLATION TIPS

- Install all the shelf clips before installing the shelves.
- Start at the bottom in terms of shelf installation and work your way up.
- Always lay the back of each shelf down on the rear clips before the front.



1 Installing top tab of shelf clip



2 Installing bottom of the shelf clip



3 You may need to squeeze or twist the bottom of the shelf clip to install



4 Shelf clip installation complete



## DRAWER REMOVAL & INSTALLATION

Depending on the version and model of the cabinet, one of the following drawer configurations will be standard.

### DRAWER SET 1

#### REMOVAL

Open drawer completely. Roller clips will be in the down position. Images 1 & 2.

While holding the sides of the drawer; use your finger to rotate the clips upward. Image 3.

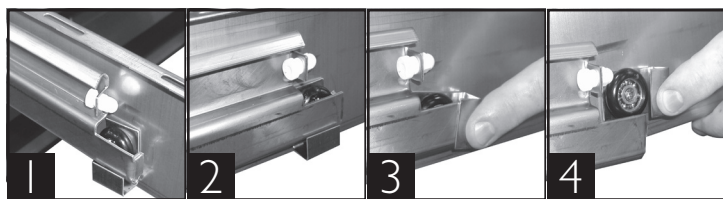
Lift drawer and remove from channel. Image 4.

#### INSTALLATION

Lower rear rollers into channel slots.

With the roller clips in the upward position, lower front rollers into channel.

Make sure roller clips are in the down position.



### DRAWER SET 2

#### REMOVAL

Slide out drawer and locate white drawer retainer.

Push white drawer retainer towards drawer front panel.

Pull up on the white drawer retainer and disengage from drawer. Image 5.

Pull out and remove drawers.

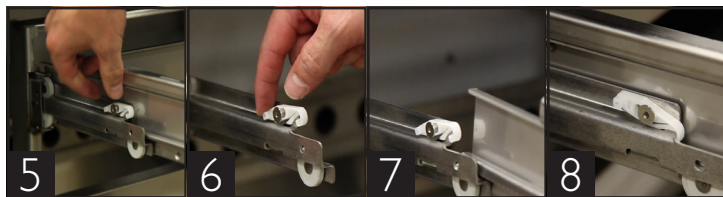
#### INSTALLATION

Verify white drawer retainer is in the up position. Image 6.

Insert drawer onto drawer slide and push into position. Image 7.

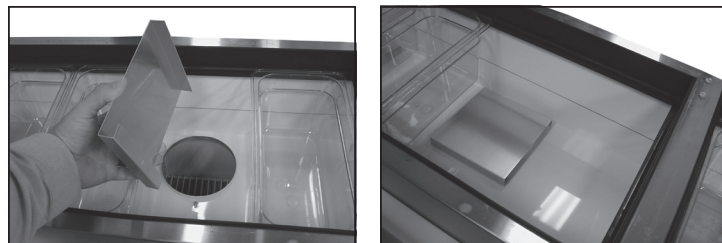
Secure drawer to slide by pushing down on the white drawer retainer and pushing back to lock. Image 8.

Verify drawer operation.



## AIR-FLOW THROUGHOUT CABINET (TPP Models Only)

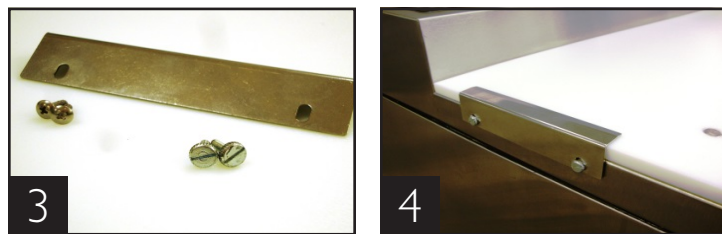
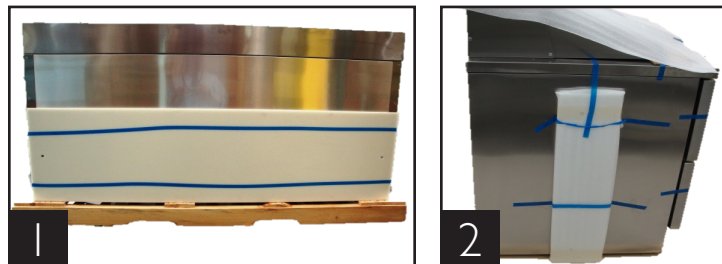
**WARNING:** Removal of baffles in condiment pan area will adversely affect refrigeration performance. Please leave the baffles in the correct location. (See images)



Correct baffle location.

## INSTALLING CUTTING BOARD ON MODEL TPP AND TFP

- Locate and remove the cutting board from the back or side of cabinet. (see images 1 and 2)
- Locate brackets and mounting hardware. (see image 3)
- Place the cutting board on countertop.
- Position one bracket on the cutting board and align hole in bracket with pre-installed Rivnut in the side of the countertop.
- Secure bracket to countertop with included hardware. (see image 4)
- Repeat install for bracket on opposite side.



## LIGHT SWITCH LOCATION:

Light switch location depends upon the TUC & TWT glass door models. Most models will have the light switch located inside the unit above the door. Most instances the switch is located next to the light on the ceiling.

## TPP REAR BUMPER INSTALLATION

### KIT CONTENTS

- Bumpers (2)
- Screws (2)

### TOOLS REQUIRED

- Phillips Screwdriver

### STEP 1

After removing cardboard crate, locate and remove bag of shelf clips and bumpers that are secured to the box containing the castors.

### STEP 2

Remove the cutting board from the back of the TPP.

### STEP 3

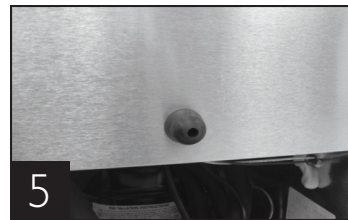
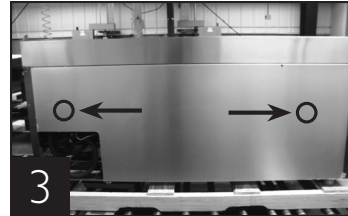
Locate both pre-drilled holes in the back outer wall.

### STEP 4

Remove 2 screws and 2 bumpers from the bag.

### STEP 5

Install bumpers and screws with Phillips screwdriver.



## OPERATION

### STARTUP

- The compressor is ready to operate. Plug in the cooler.
- Temperature controls are factory-set to give refrigerators an approximate temperature of 35°F (1.6°C) and freezers an approximate temperature of -10°F (-23.3°C). Allow unit to function several hours, completely cooling cabinet before changing the control setting.  
Temperature Control Location and Settings.
  - Electronic temperature control is located on rear of unit or behind access grill.
  - LAE temperature control is located on the front of cabinet countertop or in/behind louvered grill.
  - Mechanical temperature control is located inside of unit.

See website for adjustments, sequence of operation, and more information.
- Excessive tampering with the 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.

- Good air flow in your TRUE unit is critical. Be careful to load product so that it neither presses against the back wall, nor comes within four inches of the evaporator housing. Refrigerated air off the coil must circulate down the back wall.

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

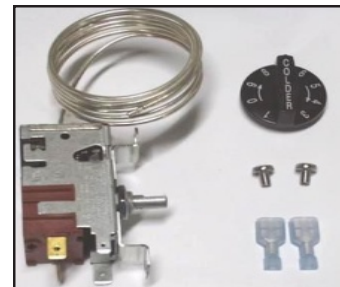
**RECOMMENDATION** - Before loading product we recommend you run your TRUE unit empty for two to three days. This allows you to be sure electrical wiring and installation are correct and no shipping damage has occurred. Remember, our factory warranty does not cover product loss!



# MECHANICAL TEMPERATURE CONTROLS

## COIL SENSING

An evaporator coil sensing temperature control ensures that the evaporator coil will remain clear of frost and ice by not allowing the compressor to restart until the coil temperature is above the freezing temperature. This is considered an **off cycle defrost**.



## MECHANICAL TEMPERATURE CONTROL GENERAL SEQUENCE OF OPERATION

### MECHANICAL CONTROL REFRIGERATOR GENERAL SEQUENCE OF OPERATION

1. Cabinet is plugged in.
  - a. Interior lights will illuminate on Glass Door Models only. If lights do not come on verify the light switch is in the "ON" position. Solid door cabinets may or may not have lights that may be controlled by the door switch.
2. The compressor and evaporator fans will start if the temperature control is calling for cooling. (If the compressor does not start, verify that the temperature control is not in the "OFF" or "0" position.)
3. The temperature control may cycle the compressor and evaporator fan(s) on and off together.
  - a. The temperature control is sensing the evaporator coil temperature.
  - b. The temperature control should be set on the #4 or #5.
  - c. The warmest setting is #1, the coldest is #9, and #0 is the off position.
  - d. The thermometer is designed to read and display a cabinet temperature not a product temperature. The thermometer may reflect the refrigeration cycle swings of up and down temperatures. The most accurate temperature on a cabinet's operation is to verify the product temperature.
4. There is not a defrost timer as the temperature control will initiate the off-cycle defrost during each refrigeration cycle.
  - a. At this time, the compressor will and the evaporator fan(s) may turn off. Defrost heaters are not installed on refrigerators and therefore will not be energized.
  - b. After the evaporator coil temperature has been reached, as determined by the temperature control, the compressor will restart.
5. There may be a timer located on the condensing unit base. This timer is not used for a defrost event. The timer will change the rotation of the reversing condenser fan motor.

## WHEN TO MAKE AN ADJUSTMENT TO A MECHANICAL TEMPERATURE CONTROL

We advise to make a mechanical temperature control adjustment only for a high altitude location.



## HOW TO ADJUST A MECHANICAL TEMPERATURE CONTROL

### OPERATION INSTRUCTIONS:

#### REQUIRED TOOLS:

- Jewelers Screw Driver (Small Screw Driver)

### GE CONTROL INSTRUCTIONS:

The scale to the right may be used as a guide for measuring degrees of rotation required for altitude correction. See Figure 1. The arrows indicate direction of screw rotation. Turn calibration screw clockwise to obtain warmer operating temperatures.

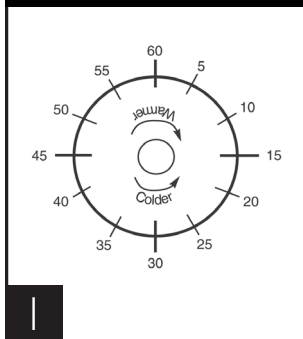
**NOTE:** Each 1/4 turn of the calibration screw is equal to approximately 2 degrees F. Do not make more than 3/4 turn. After making adjustment, measure temperature during three cycles before adjusting again.

**NOTE:** Only adjust the screw (small flathead) on the face of the control (next to the cam). See Figure 3. Follow the Altitude Correction Table to the right.

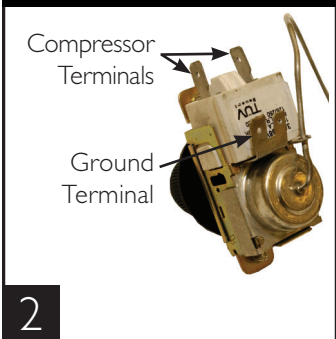
**ALTITUDE CORRECTION TABLE:  
CALIBRATION SCREW ADJUSTS  
BOTH CUT-IN AND CUT-OUT**

| Altitude (Feet) | Clockwise Turns |
|-----------------|-----------------|
| 2000            | 7/60            |
| 3000            | 11/60           |
| 4000            | 15/60           |
| 5000            | 19/60           |
| 6000            | 23/60           |
| 7000            | 27/60           |
| 8000            | 30/60           |
| 9000            | 34/60           |
| 10,000          | 37/60           |

Scale Guide for Measuring

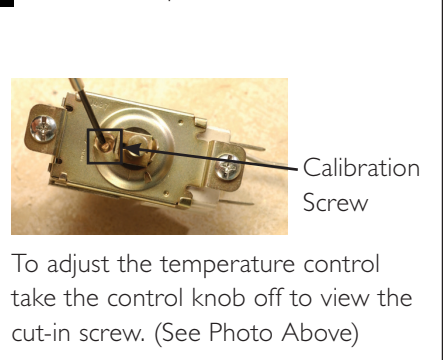
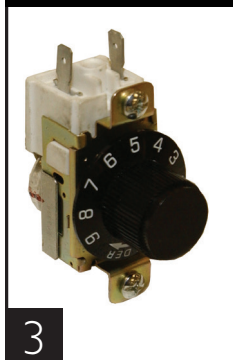


Back of Temperature Control



Altitude Correction

Front of Temperature Control



To adjust the temperature control take the control knob off to view the cut-in screw. (See Photo Above)

## INSTALLATION INSTRUCTIONS DANFOSS TEMPERATURE CONTROL ADJUSTMENT FOR HIGH ALTITUDE APPLICATIONS:

#### REQUIRED TOOLS:

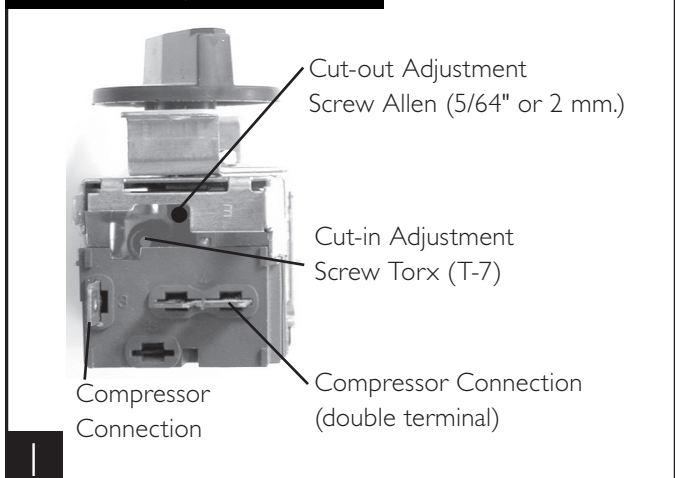
- Allen Wrench (5/64")
- Torx Screw (T-7)

#### TERMS:

**Cut-out** - Temperature sensed by the controller that shuts the compressor off.

**Cut-in** - Temperature sensed by the controller that turns the compressor on.

Bottom of Temperature Control



**INSTRUCTIONS: DANFOSS TEMPERATURE CONTROL ADJUSTMENT FOR HIGH ALTITUDE APPLICATIONS**

**STEP 1** - Unplug cooler.

**STEP 2** - Remove the screws that secure the temperature control to the inset box.

**STEP 3** - To make these adjustments it may be necessary to remove the temperature control from the housing.

**NOTE:** You may have to remove the wires attached to the control. Take note as to which wire is on which spade terminal.

**STEP 4** - Pull out gently from cabinet.

**NOTE:** Mechanical temperature controllers are affected when functioning at high altitude. The cut-in and cut-out temperatures will be colder than when the controller functions closer to sea level.

**STEP 5** - For high elevation installations, it may be necessary to “warm-up” the set points. To make the adjustment, insert the appropriate tool in each adjustment screw and turn 1/4 of a revolution clockwise (to the right). This procedure will adjust both the cut-in and cut-out about 2°F warmer.

**STEP 6** - Make sure to reconnect the wires to the proper spade terminal when reinstalling.

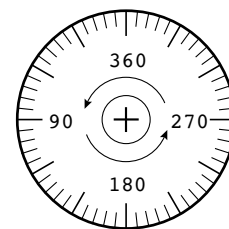
**INSTALLATION INSTRUCTIONS  
TEMPERATURE CONTROL ALTITUDE ADJUSTMENT:****REQUIRED TOOLS:**

- Allen Wrench (5/64")
- Torx Screw (T-7)

The scale to the right may be used as a guide for measuring degrees of rotation required for altitude correction. The arrows indicate direction of screw rotation. See Figure 1.

**IMPORTANT:** Upright models ordered with “High Altitude” temperature controls are pre-calibrated and do not require adjustment.

Scale Guide for Measuring

**INSTRUCTIONS: CUTLER HAMMER TEMPERATURE CONTROL ALTITUDE ADJUSTMENT**

**STEP 1** - Unplug cooler.

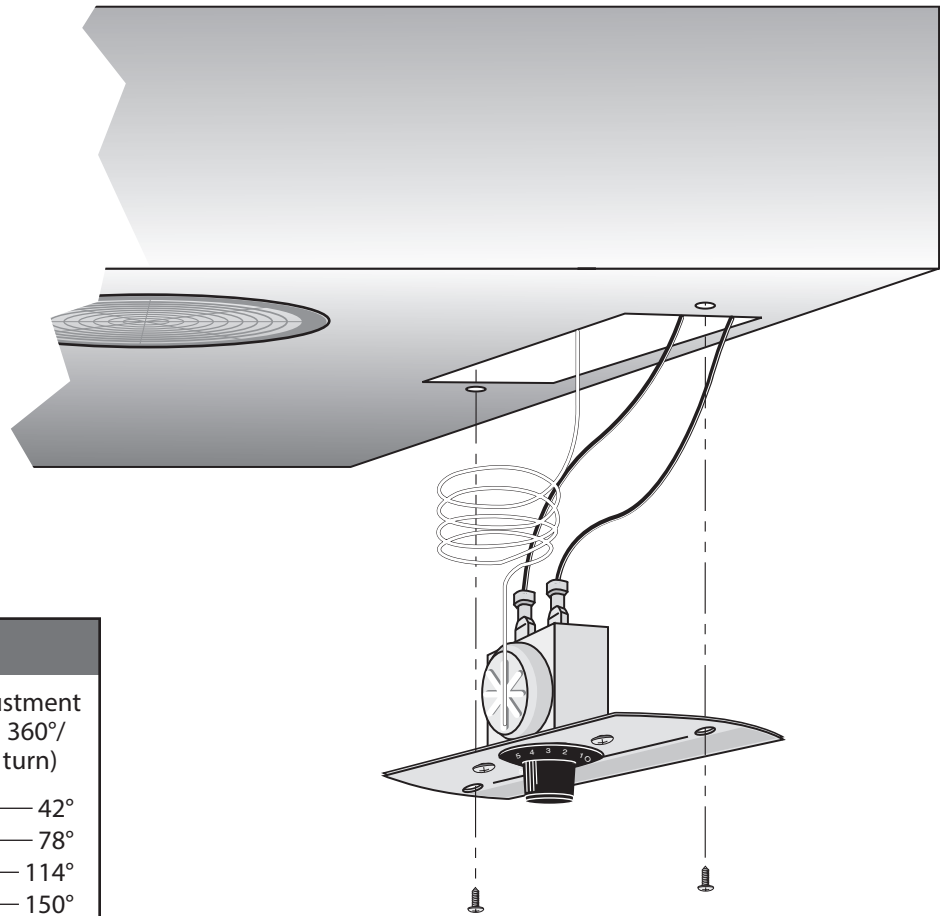
**STEP 2** - Turn the temperature control to the “9” position.

**STEP 3** - Remove the screws that secure the mounting plate to the evaporator top. See Figure 2.

**STEP 4** - Pull control down gently from housing.

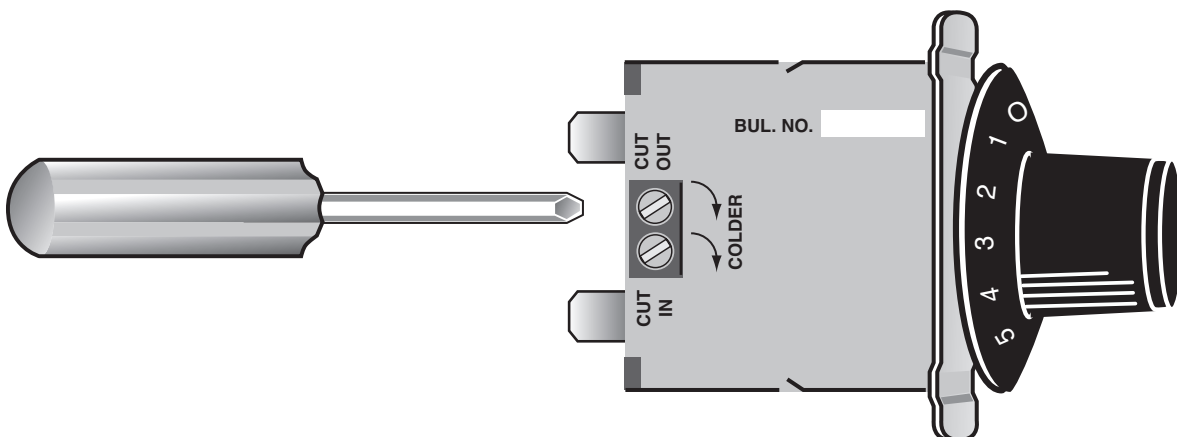
**STEP 5** - Turn screws counterclockwise (CCW).

**STEP 6** - Reassemble to cooler housing and return the temperature control to the “5” position.



## CHART

| Height  | CCW Adjustment<br>(based on 360°/<br>complete turn) |
|---------|-----------------------------------------------------|
| 2000'   | 42°                                                 |
| 3000'   | 78°                                                 |
| 4000'   | 114°                                                |
| 5000'   | 150°                                                |
| 6000'   | 186°                                                |
| 7000'   | 222°                                                |
| 8000'   | 258°                                                |
| 9000'   | 294°                                                |
| 10,000' | 330°                                                |



# ELECTRONIC TEMPERATURE CONTROLS

## LAE ELECTRONIC TEMPERATURE CONTROL GENERAL SEQUENCE OF OPERATION

t1 = supply air / return air\* (thermostat)

\* STA, STG, STM, STR Models.

t2 = coil / copper line (defrost)

t3 = return air / supply air\* (display)

t3 probe is not installed and / or activated in all applications  
with t3 is not installed and / or activated, the display probe is t1.



## LAE ELECTRONIC CONTROL GENERAL SEQUENCE OF OPERATION

- I. Cabinet is plugged in.
  - a. Display will illuminate.
  - b. Interior light will illuminate on Glass Door Models only. Solid door cabinet lights are controlled by the door switch.
2. After the LAE control preprogrammed time delay of up to 6 minutes, the compressor and evaporator fan(s) will start if the control is calling for cooling.
  - a. Control or condensor fans may be already pre-programmed from the factory so at the start of every compressor cycle or during a defrost cycle, the condenser fan(s) will reverse for 30 seconds to blow dirt off the condensing coil.
3. The LAE control will cycle the compressor but may also cycle evaporator fan(s) on and off determined by the Set-Point and Differential temperatures.
  - a. The Set-Point is the adjustable preprogrammed temperature which shuts off the compressor and evaporator fan(s). This is not the programmed cabinet temperature.
  - b. The Differential is the non adjustable preprogrammed temperature that is added to the Set-Point temperature that will restart the compressor and evaporator fan(s).
  - c. The LAE control is designed to read and display a cabinet temperature not a product temperature. This cabinet temperature may reflect the refrigeration cycle of the Set-Point and it's Differential. The most accurate temperature on a cabinets operation is to verify the product temperature.

**Example: If the Set-Point is -9°F/-23°C and the Differential is 10°F/5°C**  
**(Set-Point) -9°F + 10 (Differential) = 1°F**

Or

**(Set-Point) -23°C + 5 (Differential) = -18°C**  
**The compressor and evaporator fan(s) will cycle off -9°F/-23°C and back on at 1°F/-18°C**

4. The LAE control may be preprogrammed to initiate defrost by interval or at specific times of day.
  - a. At this time the "dEF" will appear on the display and compressor will turn off until a preprogrammed temperature or duration is reached. During this time for freezers only, evaporator fan(s) will also turn off and the coil heater and drain tube heaters will also be energized. Some cabinets may also change the rotation of the reversing condenser fan motor.
  - b. After the preprogrammed temperature or duration for defrost has been reached there may be a short delay for both the compressor and evaporator fans to restart. At this time "dEF" may still appear on the display for a short time.



## HOW TO DIAGNOSE AN LAE ELECTRONIC CONTROL

Indicator lights for Refrigeration/Heating Mode, Fan Operation, Defrost Mode.

| LAE Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LAE Control Icons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>The diagram shows the LAE control panel with a digital display showing '88.8'. To the left of the display is a bell icon (Alarm). To the right are three icons: a snowflake (Compressor Running), a fan (Evaporator Fan Running), and a snowflake with a diagonal line (Cabinet in Defrost). Below the display is a 'II°' icon. At the bottom are four buttons: 'i' (Info/Set Point), a snowflake with a downward arrow (Manual Defrost/Down), an 'M' with an upward arrow (Manual Activation/Up), and an 'X' with a power symbol (Stand-By).</p> | <ul style="list-style-type: none"> <li> Compressor Running</li> <li> Evaporator Fan Running</li> <li> Cabinet in Defrost</li> <li> Activation of 2nd Parameter Set</li> <li> Alarm</li> </ul> |
| <p>Info / Set Point Button</p> <p>Manual Defrost / Down Button</p> <p>Manual Activation Up Button</p> <p>Stand-By Button</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## USING THE LAE ELECTRONIC CONTROL

### LOCKING AND UNLOCKING THE LAE CONTROLLER:

**WHY:** Locking of control is necessary to prevent changes to program that may affect cabinet operation.

#### HOW TO LOCK AND UNLOCK LAE CONTROLLER:

**STEP 1** - To change lock setting press and release the Info button . "tl" will appear. See image 1.

**STEP 2** - Press the Down button  until "Loc" appears. See image 2.

**STEP 3** - While pressing and holding the Info button  press the Up  or Down  button to change the lock settings. If "no" appears, the controller is unlocked. If "yes" appears, the controller is locked. See images 3 and 4.

**STEP 4** - Once the lock setting has been set correctly release the info button . Wait 5 seconds for the display to show temperature. See image 5.



Image 3: If "no" appears on screen, the controller is unlocked.



Image 4: If "yes" appears on screen, the controller is locked.



## LAE Control



Info / Set Point  
Button



Manual Defrost /  
Down Button



Manual Activation  
Up Button



Stand-By  
Button

## HOW TO TURN OFF THE LAE ELECTRONIC CONTROL:

May need to unlock control.

**WHY:** Turning off the control will deactivate all electrical components.

**CAUTION:** Turning off the control will not shut off power to the cabinet. Cabinet must be unplugged prior to any repair.

### HOW TO TURN OFF THE LAE ELECTRONIC CONTROL:

**STEP 1** - To turn off control, press and hold the Stand-by button  until "OFF" appears. Release Stand-by button. See Image 2.

**STEP 2** - To turn on control, repeat prior steps and a temperature will appear.



## TURNING THE GLASS DOOR MODEL LIGHTS ON AND OFF:

May need to unlock control.

**WHY:** Light may be controlled by LAE Controller or interior light switch.

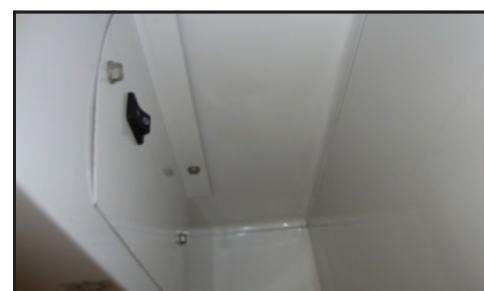


ON Position

### HOW TO TURN THE GLASS DOOR MODEL LIGHT ON AND OFF:

**STEP 1** - To control interior / sign lights by the LAE Controller, press and release the Manual Activation button .

**STEP 2** - To control interior / sign lights by the interior door switch, depress the rocker switch to the "ON" position. Light switch is located on inside top right of the ceiling.



(Solid Door model lights are controlled by a door switch)

## LAE Control



Info / Set Point  
Button



Manual Defrost /  
Down Button



Manual Activation  
Up Button



Stand-By  
Button

## CHANGING THE "SET POINT":

May need to unlock control.

**WHY:** The set point is the temperature at which the compressor will shut off.

**NOTE:** The "set point" *IS NOT* the cabinet holding temperature.

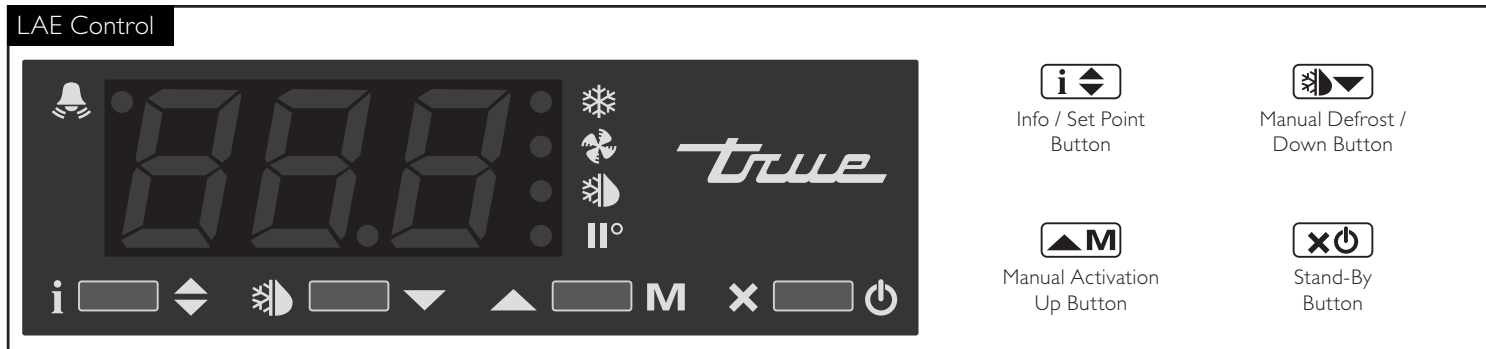
### HOW TO CHANGE THE "SET POINT":

**STEP 1** - To see the set point, press and hold the Info button . See image 1.

**STEP 2** - While still holding the Info button , press the Up  or Down  button to change the "set point".

**STEP 3** - Once the "set point" has been set correctly release the Info button . The display will show temperature. See image 2.



**INITIATE A MANUAL DEFROST:**

May need to unlock control.

**WHY:** A one time additional defrost may be necessary to clear accumulated frost / ice from evaporator coil.

**HOW TO INITIATE A MANUAL DEFROST:**

*The method to initiate a manual defrost is determined by the Defrost Mode Parameter "DTM" preprogrammed in the controller.*

**REGULAR TIME DEFROST (TIM)**

If controller is preprogrammed for "TIM", press and release the Manual Defrost button  until "dEF" appears.

**REAL TIME CLOCK (RTC)**

If controller is preprogrammed for "RTC" press the and hold the Manual Defrost button  for 5 seconds until "dhI" appears. Release the Manual Defrost button  and then press and hold for an additional 5 seconds until "dEF" appears.

**NOTE:** Defrost will only terminate once a specific preset temperature or a preset time duration is reached.

## LAE Control



  
Info / Set Point  
Button

  
Manual Defrost /  
Down Button

  
Manual Activation  
Up Button

  
Stand-By  
Button

## CHANGING “DEFROST INTERVALS”:

May need to unlock control.

This can only be changed if defrost mode parameter “DFM” is set for “TIM”.

**WHY:** The defrost interval is the time duration between defrost cycles. The defrost interval time starts when the cabinet is supplied power or after a manual defrost.

### HOW TO CHANGE “DEFROST INTERVALS”:

**STEP 1** - To see the set point, press and hold the Info button  and the Stand-by button  at the same time.

**NOTE:** Depending on the version of control, one of three parameters will appear: “ScL” image 1a, “SPL” image 1b, “MdL” image 1c.

**STEP 2** - Push the Up button  until “dFt” appears. See image 2.

**STEP 3** - Press and hold the Info button  to see the defrost interval time. See image 3.

**STEP 4** - While pressing and holding the Info button , press the Up  or Down  button to change the defrost interval times (higher the number the less frequent the cabinet will defrost).

**STEP 5** - Once the defrost interval time has been changed, release the Info button .

**STEP 6** - Wait 30 seconds for the display to show temperature. See image 4.



## LAE Control



Info / Set Point  
Button



Manual Defrost /  
Down Button



Manual Activation  
Up Button



Stand-By  
Button

## HOW TO CHANGE DISPLAY READOUT FROM FAHRENHEIT TO CELSIUS:

May need to unlock control.

*This can only be changed with the LAE model BRL version of the control.*

**WHY:** Changing readout will assist with customer application.

### HOW TO CHANGE DISPLAY READOUT FROM FAHRENHEIT TO CELSIUS:

**STEP 1** - To change the display, press and hold the Info button  and the Stand-by button  at the same time. "Mdl" will appear. See image 1.

**STEP 2** - Push the Down button  until "ScL" appears. See image 2.

**STEP 3** - Press and hold the Info button  to see the "readout scale". See image 3.

**STEP 4** - While pressing and holding the Info button , press the up  or down  button to change the "readout scale". See image 4.

**STEP 5** - Once the "readout scale" has been changed, release the info button .

**STEP 6** - Wait 30 seconds for the display to show temperature. See image 5.





## LAE Control

Info / Set Point  
ButtonManual Defrost /  
Down ButtonManual Activation  
Up ButtonStand-By  
Button**DISPLAYING TEMPERATURE PROBES, T1, T2, T3:****WHY:** To display temperature probe readings in different locations of the cabinet.**HOW TO DISPLAY PROBE TEMPERATURES:****STEP 1** - To display T1 temperature, press and release the info button . "t1" will appear. See image 1.**STEP 2** - Press and hold the info button . This is the temperature of the T1 Probe. See image 2.**STEP 3** - By releasing the info button , "t2" will appear. Press and hold the info button  to display the temperature of the T2 probe.**STEP 4** - By releasing the info button  again, "t3" will appear. Press and hold the info button  to display the temperature of the T3 probe. (If probe T3 is not activated, "t3" will not appear of the display.)**DISPLAY CODES**

| DISPLAY |                                |     |                                      |
|---------|--------------------------------|-----|--------------------------------------|
| dEF     | Defrost in progress            | hi  | Room high temperature alarm          |
| oFF     | Controller in stand-by         | Lo  | Room low temperature alarm           |
| do      | Door open alarm                | E1  | Probe T1 failure                     |
| t1      | Instant Probe 1 temperature    | E2  | Probe T2 failure                     |
| t2      | Instant Probe 2 temperature    | E3  | Probe T3 failure                     |
| t3      | Instant Probe 3 temperature    | thi | Maximum probe 1 temperature recorded |
| n in    | Minutes of the Real Time Clock | tLo | Minimum probe 1 temperature recorded |
| hr      | Hours of the Real Time Clock   | Loc | Keypad state lock                    |

## LAE Controller Parameter Settings for Celsius

For every model / version of the LAE controller,

**ALL** parameters with a formula shown need to be

converted for Celsius applications.

### **EXCEPT MODEL: BR1**

EXAMPLE:

If current SPL is set for 20 degrees F,  
the formula is  $(X-32) / 1.8$

$$(20-32) / 1.8 = -6.7 \text{ Celsius}$$

| AR2-28 |                |      |                |
|--------|----------------|------|----------------|
| SCL    | 1C             | ADO  |                |
| SPL    | $(X-32) / 1.8$ | AHM  |                |
| SPH    | $(X-32) / 1.8$ | AHT  | $(X-32) / 1.8$ |
| SP     | $(X-32) / 1.8$ | ACC  |                |
| C-H    |                | IISM |                |
| HYS    | $(X) / 1.8$    | IISL | $(X-32) / 1.8$ |
| CRT    |                | IISH | $(X-32) / 1.8$ |
| CT1    |                | IISP | $(X-32) / 1.8$ |
| CT2    |                | IIHY | $(X) / 1.8$    |
| CSD    |                | IIFC |                |
| DFM    |                | IIDF |                |
| DFT    |                | SB   |                |
| DH1    |                | DS   |                |
| DH2    |                | DSM  |                |
| DH3    |                | DI2  |                |
| DH4    |                | STT  |                |
| DH5    |                | EDT  |                |
| DH6    |                | LSM  |                |
| DLI    | $(X-32) / 1.8$ | OA1  |                |
| DTO    |                | OA2  |                |
| DTY    |                | CD   |                |
| DPD    |                | INP  |                |
| DRN    |                | OS1  | $(X) / 1.8$    |
| DDM    |                | T2   |                |
| DDY    |                | OS2  | $(X) / 1.8$    |
| FID    |                | T3   |                |
| FDD    | $(X-32) / 1.8$ | OS3  | $(X) / 1.8$    |
| FTO    |                | TLD  |                |
| FCM    |                | TDS  |                |
| FDT    | $(X) / 1.8$    | AVG  |                |
| FDH    | $(X) / 1.8$    | SIM  |                |
| FT1    |                | ADR  |                |
| FT2    |                |      |                |
| FT3    |                |      |                |
| ATM    |                |      |                |
| ALA    | $(X-32) / 1.8$ |      |                |
| AHA    | $(X-32) / 1.8$ |      |                |
| ALR    | $(X) / 1.8$    |      |                |
| AHR    | $(X) / 1.8$    |      |                |
| ATI    |                |      |                |
| ATD    |                |      |                |

| BIT25 |                |      |                |
|-------|----------------|------|----------------|
| SPL   | $(X-32) / 1.8$ | ADO  |                |
| SPH   | $(X-32) / 1.8$ | AHM  |                |
| SP    | $(X-32) / 1.8$ | AHT  | $(X-32) / 1.8$ |
| HYS   | $(X) / 1.8$    | ACC  |                |
| CT1   |                | IISL | $(X-32) / 1.8$ |
| CT2   |                | IISH | $(X-32) / 1.8$ |
| CSD   |                | IISP | $(X-32) / 1.8$ |
| DFM   |                | IIHY | $(X) / 1.8$    |
| DFT   |                | IIFC |                |
| DFB   |                | IIDF |                |
| DLI   | $(X-32) / 1.8$ | SB   |                |
| DTO   |                | DI1  |                |
| DTY   |                | DI2  |                |
| DPD   |                | T3M  |                |
| DRN   |                | OS3  | $(X) / 1.8$    |
| DDM   |                | PSL  | $(X-32) / 1.8$ |
| DDY   |                | PSR  | $(X-32) / 1.8$ |
| FID   |                | POF  |                |
| FDD   | $(X-32) / 1.8$ | LSM  |                |
| FTO   |                | OA1  |                |
| FCM   |                | OA2  |                |
| FDT   | $(X) / 1.8$    | OS1  | $(X) / 1.8$    |
| FDH   | $(X) / 1.8$    | T2   |                |
| FT1   |                | OS2  | $(X) / 1.8$    |
| FT2   |                | TLD  |                |
| FT3   |                | SCL  | 1C             |
| ATM   |                | SIM  |                |
| ALA   | $(X-32) / 1.8$ | ADR  |                |
| AHA   | $(X-32) / 1.8$ |      |                |
| ALR   | $(X) / 1.8$    |      |                |
| AHR   | $(X) / 1.8$    |      |                |
| ATI   |                |      |                |
| ATD   |                |      |                |

| BIT25 Heating |                |     |                |
|---------------|----------------|-----|----------------|
| SPL           | $(X-32) / 1.8$ | ADO |                |
| SPH           | $(X-32) / 1.8$ | SB  |                |
| SP            | $(X-32) / 1.8$ | DI1 |                |
| CM            |                | DI2 |                |
| HYS           | $(X) / 1.8$    | PSL | $(X-32) / 1.8$ |
| TON           |                | PSR | $(X-32) / 1.8$ |
| TOF           |                | POF |                |
| PB            |                | DSM |                |
| IT            |                | LSM |                |
| DT            |                | OA1 |                |
| AR            |                | OA2 |                |
| CT            |                | OS1 | $(X) / 1.8$    |
| PF            |                | TLD |                |
| HSD           |                | SCL | 1C             |
| ATM           |                | SIM |                |
| ALA           | $(X-32) / 1.8$ | ADR |                |
| AHA           | $(X-32) / 1.8$ |     |                |
| ALR           | $(X) / 1.8$    |     |                |
| AHR           | $(X) / 1.8$    |     |                |
| ATD           |                |     |                |

**DANFOSS ELECTRONIC TEMPERATURE CONTROL GENERAL SEQUENCE OF OPERATION**

control probe = return air

defrost probe = coil

**DANFOSS ELECTRONIC CONTROL REFRIGERATOR WITH DIGITAL DISPLAY  
GENERAL SEQUENCE OF OPERATION**

- I. Cabinet is plugged in.
  - a. Interior lights will illuminate on glass door models only. If the lights do not come on verify the light switch is in the "ON" position. Solid door cabinets may or may not have lights that may be controlled by the door switch.
  - b. Cabinet will start in a Defrost Cycle. The duration for defrost will be a minimum of 4 minutes and a maximum of 60 minutes.
  - c. The Danfoss Control Display will illuminate showing "deF".
2. The Danfoss control is preprogrammed to initiate defrost every 4 hours of compressor run time. If deemed necessary by the Danfoss control additional defrost may occur at unspecified times.
  - a. At this time the, evaporator fans will continue to run but the compressor will turn off. Some cabinets may also change the rotation of the reversing condenser fan motor.
  - b. Once a preprogrammed temperature of the evaporator coil is reached, the Defrost Cycle will terminate and the 2 minute delay will start.
  - c. After the 2 minute delay the compressor will restart.
  - d. The Danfoss Control Display will continue to show "deF" for an additional 30 minutes.
3. The Danfoss control will cycle the compressor and the evaporator fan(s) on and off determined by the Set-Point and Differential temperatures.
  - a. The Set-Point is the adjustable preprogrammed temperature which shuts off the compressor and evaporator fan(s). This is not the programmed cabinet temperature.
  - b. The Differential is the non adjustable preprogrammed temperature that is added to the Set-Point temperature that will start the compressor and evaporator fan(s).
  - c. The Danfoss control is designed to read and display a cabinet temperature not a product temperature. This cabinet temperature may reflect the refrigeration cycle of the Set-Point and its Differential. The most accurate temperature on a cabinets operation is to verify the product temperature.

**Example: If the Set-Point is 34°F/1.1°C and the Differential is 6°F/3.3°C**  
**(Set-Point) 34°F + 6 (Differential) = 40°F**

Or

**(Set-Point) 1.1°C + 3.3 (Differential) = 4.4°C**  
**The compressor will cycle off 34°F/1.1°C and back on at 40°F/4.4°C**

**DANFOSS ELECTRONIC CONTROL REFRIGERATOR WITHOUT DIGITAL DISPLAY  
GENERAL SEQUENCE OF OPERATION**

1. Cabinet is plugged in.
  - a. Interior lights will illuminate on glass door models only. If the lights do not come on verify the light switch is in the "ON" position. Solid door cabinets may or may not have lights that may be controlled by the door switch.
  - b. Cabinet will start in a Defrost Cycle. The duration for defrost will be a minimum of 4 minutes and a maximum of 60 minutes.
2. The Danfoss control is preprogrammed to initiate defrost every 4 hours of compressor run time. If deemed necessary by the Danfoss control additional defrost may occur at unspecified times.
  - a. At this time, the evaporator fans will continue to run but the compressor will turn off. Some cabinets may also change the rotation of the reversing condenser fan motor.
  - b. Once a preprogrammed temperature of the evaporator coil is reached, the Defrost Cycle will terminate and the 2 minute delay will start.
  - c. After the 2 minute delay the compressor will restart.
3. The Danfoss control will cycle the compressor and the evaporator fan(s) on and off together.
  - a. The temperature control is sensing the discharge air temperature.
  - b. The temperature control should be set on the #4 or #5.
  - c. The warmest setting is #1, the coldest is #9, and #0 is the off position.
  - d. The thermometer is designed to read and display a cabinet temperature not a product temperature. This cabinet temperature may reflect the refrigeration cycle determined by the temperature control. The most accurate temperature on a cabinets operation is to verify the product temperature.

# 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
- Air Tank or CO2 Tank
- Vacuum Cleaner

**STEP 1** - Disconnect power to unit.

**STEP 2** - Take off grill assembly located in one of three locations (see pictures 1-3).

**STEP 3** - Remove bolts anchoring compressor assembly to frame rails and carefully slide out. (Tube connections are flexible)

**STEP 4** - Clean off accumulated dirt from condensing coil with a stiff bristle brush.

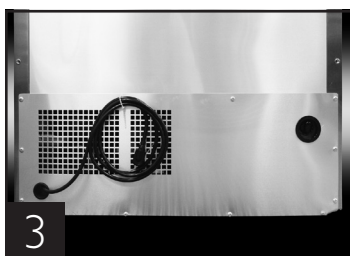
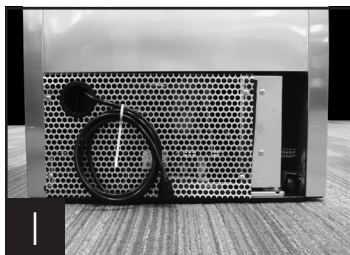
**STEP 5** - Lift cardboard cover above fan at plastic plugs and carefully clean condenser coil and fan blades.

**STEP 6** - After brushing condenser coil vacuum dirt from coil, and interior floor.

**STEP 7** - Replace cardboard cover: Carefully slide compressor assembly back into position and replace bolts.

**STEP 8** - Reinstall louver assembly onto unit with appropriate fasteners and clips. Tighten all screws.

**STEP 9** - Connect unit to power and check to see if condenser is running.



## 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 CO<sub>2</sub>, nitrogen, or pressurized air.

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

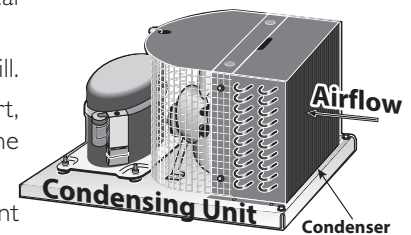
On most of the reach-in units the condenser is accessible in the rear of the unit. You must remove the cabinet grill to expose the Condenser.

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. Direct to Service Department 1 (855)372-1368. Service Department Availability Monday-Thursday 7:00 a.m. to 7:00 p.m., Friday 7:00 a.m. to 6:00 p.m. and Saturday 8:00 a.m. to 12:00 p.m. CST.

## 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.

### 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.

## 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 the recommended strength (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**

## GENERAL MAINTENANCE

### PERIODIC MAINTENANCE FOR LIDS

**NOTE:** Because lid pin screws are designed to be removable for cleaning, it is important these are checked periodically to assure they are tight.

#### STEP 1

Check to see if lid assembly screws are tight. See Images 1, 2, 3, and 4.

#### STEP 2

Use screwdriver to tighten screws into place.

#### STEP 3

Make sure that screws are secure.

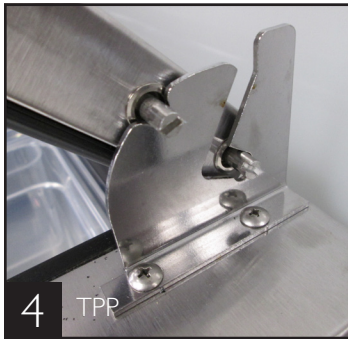
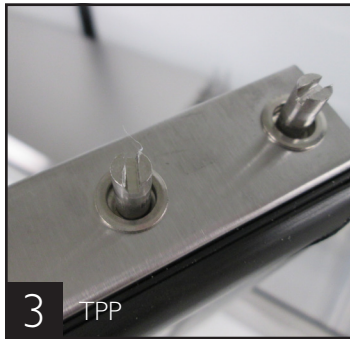
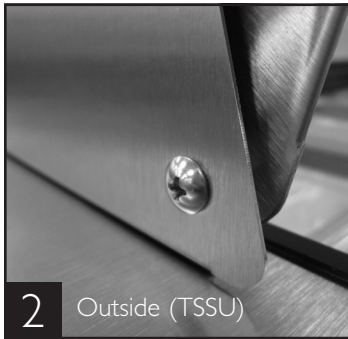
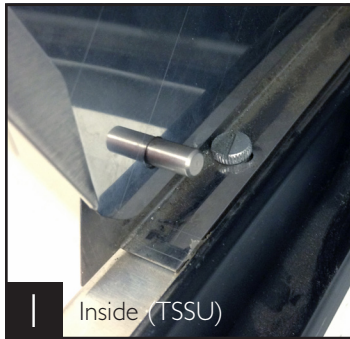
## COMPOSITE CUTTING BOARD MAINTENANCE

Please see comments from Supplier regarding composite cutting boards below.

**NOTE:** Composite Cutting Boards Manufactured From Richlite Material and Warping.

"To prevent warping on cutting boards manufactured from Richlite® material, simply turn the board over on a regular scheduled basis. Warping is caused by continued moisture and temperature differences on the top and bottom of the boards. By turning the board over, this will allow both sides of the board to receive the same exposure.

There is a chance that larger size boards may warp as a characteristic of the material."





**CHILLER HOSE (TSSU-27-12M-C MODELS ONLY)****KIT CONTENTS**

- Hose Cleaning Brush

**TOOLS REQUIRED**

- Slotted Screwdriver
- Needle Nose Pliers
- Hex-Head Nut Driver

**WARNING: POWER MUST BE DISCONNECTED BEFORE BEGINNING THIS PROCEDURE.**

- Remove the condiment pans. (Fig. 1)
- Remove the shelving from the unit. (Fig 2)
- Using needle-nosed pliers remove the right or left pilaster as needed. (This will provide clearance to pull right or left housing away from evaporator). (Fig. 3)
- Using a hex-head nut remover, remove right or left C-clamps as needed from chiller hose. (Remove clamps from both ends of the assembly). (Fig. 4)
- Back off four slotted thumb screws and remove evaporator housing. (Fig. 5)

**NOTE:** Note the proper position of the flexible tubing on top of evaporator. (See Fig. 6). Hose will need to be repositioned in the same area to ensure proper conditioned air circulation.

- Gently pull housing from the right or left side and work forward in order to access the flexible hose. (Fig.6)

**CAUTION:** Gloves are recommended to avoid contact with possible sharp edges.

- Rout the bottle brush through the rear of the flexible hose and push contents forward. (Fig. 7)
- Reverse the procedures as outlined above.

**NOTE:** Replace flexible hose in the original position as indicated in Fig. 6. Failure to replace properly will result in compromised unit operation.

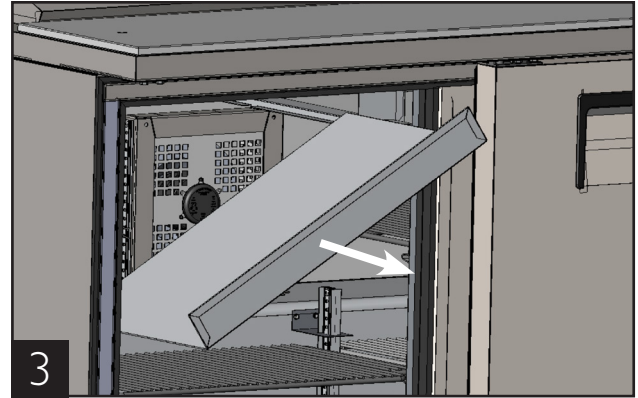


## REMOVAL AND INSTALL OF FALSE BOTTOM PANEL MODEL(S) - TSSU-HC

This advisement provides information pertaining to Mega units and non-Mega units. A Mega unit's nomenclature will include "M", for example TSSU-xx-xx-Mx-HC.

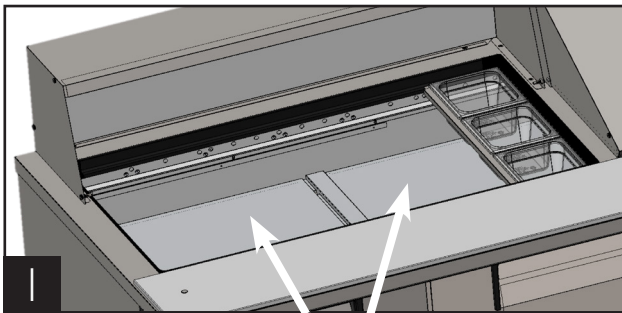
**NOTE: THE FALSE BOTTOM PANEL UNDER THE PRODUCT PANS ARE REMOVABLE FOR CLEANING. PANELS MUST BE INSTALLED FOR PROPER CABINET OPERATION AND PRODUCT TEMPERATURES.**

The drawings provided may show various components removed from the pictures. Not all components removed represent the actual repair/install process of advised parts.



### STEP 3 (NON-MEGA UNITS)

With product and shelf removed, tilt and pull the panel toward the front. See image 3.

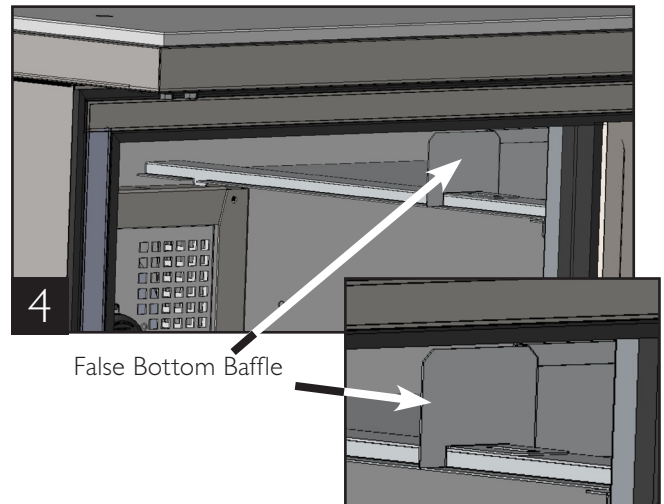


False Bottom Panels

### STEP 1

The number of panels installed will vary upon the model of cabinet. See image 1.

Not all components shown are used in all applications.

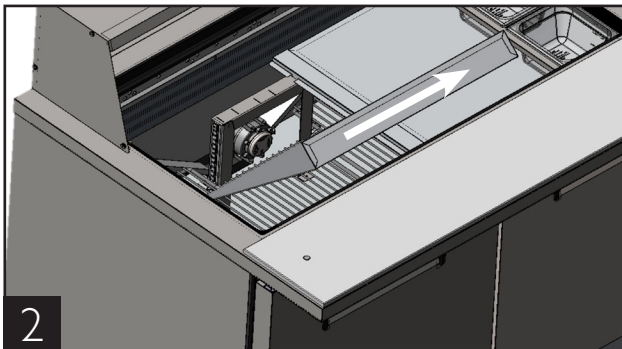


False Bottom Baffle

### STEP 4 (2 AND 3 DOOR NON-MEGA UNITS)

There is a front baffle that is designed to prevent the panel from moving. This baffle is slotted for adjustment and secured with a single screw. See image 4.

If the baffle is removed for cleaning, it must be reinstalled and adjusted when the panel is put in place.

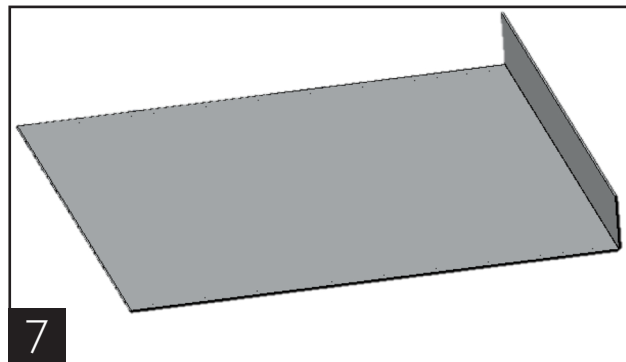
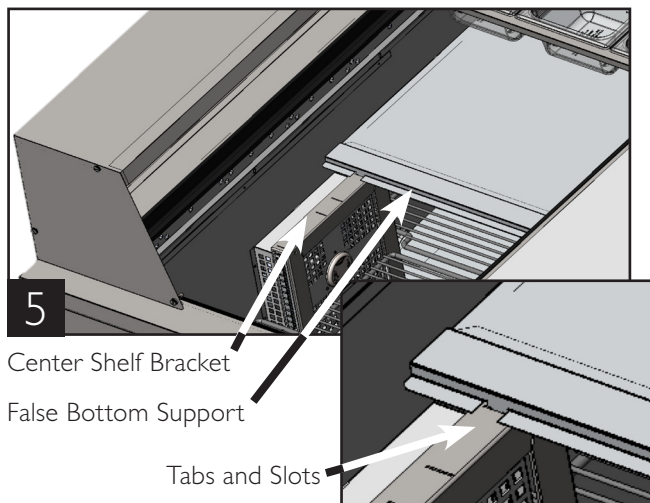


### STEP 2 (MEGA UNITS)

With the top product pans removed, tilt and lift the panel from the top. See image 2.

## CONTINUED

### REMOVAL AND INSTALL OF FALSE BOTTOM PANEL MODEL(S) - TSSU-HC

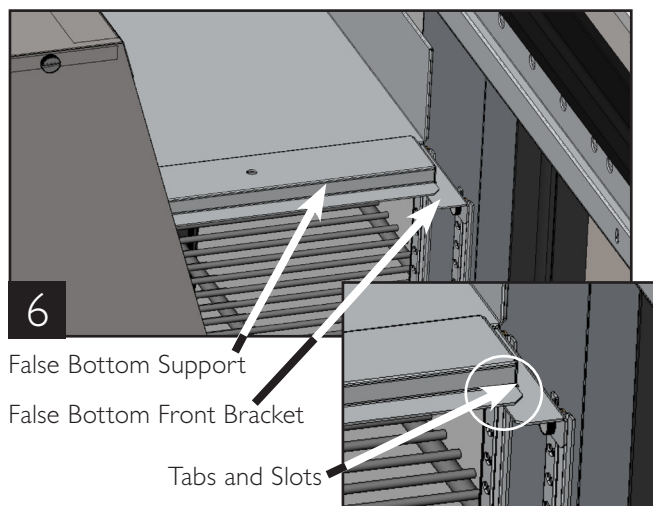


#### STEP 7 (ALL MEGA AND NON-MEGA UNITS)

When reinstalling the panel, ensure that the vertical bend is positioned up and towards the front of the cabinet. See image 7.

#### STEP 5 (2 AND 3 DOOR MEGA AND NON-MEGA UNITS)

When reinstalling the bottom support, ensure the rear tabs of the supports are seated into the correct slots in the top of the shelf bracket. See image 5.



#### STEP 6 (2 AND 3 DOOR MEGA AND NON-MEGA UNITS)

When installing the bottom support, ensure the front tab of the support is seated in the slot of the front bracket. See image 6.



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

**THIS WARRANTY ONLY APPLIES TO UNITS SHIPPED FROM TRUE'S MANUFACTURING FACILITIES AFTER SEPTEMBER 1, 2015.**

## **THREE-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 three (3) years from the date of original installation or 39 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 three (3) years of original installation or thirty-nine (39) 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.

Warranty does not cover standard wear parts which include door gaskets, incandescent bulbs or fluorescent bulbs. Warranty also does not cover issues caused by improper installation or lack of basic preventative maintenance which includes regular cleaning of condenser coils.

## **ADDITIONAL TWO-YEAR COMPRESSOR WARRANTY**

In addition to the Three (3) 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 two (2) 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 two (2) 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/HYDROCARBON COMPRESSOR WARRANTY**

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

1. This system contains R404A, R134A, or R290 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 (855-372-1368). 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. An OEM exact replacement should 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.

**RELOCATION OF CABINET FOR REPAIR.** True is not responsible for the cost to move a cabinet for any reason from its position of operation on the customer's premises to make a warranty repair.

**NON OEM PARTS.** Use of non OEM parts without manufacturer's approval will void cabinet warranty.

**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 INCORRECT SUPPLY VOLTAGE, THE USE OF EXTENSION CORDS, LOW VOLTAGE, OR UNSTABLE SUPPLY VOLTAGE.

**NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE:** THERE ARE NO OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, EXCEPT THE THREE (3) YEAR PARTS & LABOR WARRANTY AND THE ADDITIONAL TWO (2) 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. AND CANADA:** 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 and Canada. This warranty only applies to units shipped from True's manufacturing facilities after September 1, 2015.