



TRCB-36-HC



TRCB-52-HC



TRCB-82-HC

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**INSTALLATION MANUAL**

**TRCB**

Original Instructions

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\*975534\*

# THANK YOU

## FOR YOUR PURCHASE

### Congratulations!

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

### Table of Contents

#### Safety Information

|                                           |   |
|-------------------------------------------|---|
| Safety Precautions & Proper Disposal..... | 3 |
| Cabinet Disposal Warning.....             | 3 |

#### Prior to Installation

|                            |   |
|----------------------------|---|
| Ownership .....            | 4 |
| Cabinet Specification..... | 4 |
| Cabinet Location .....     | 4 |
| Notice to Customer .....   | 4 |
| Clearances.....            | 4 |
| Wire Gauge Chart.....      | 5 |
| Wire Advisement .....      | 5 |

#### Installation

|                                       |   |
|---------------------------------------|---|
| Uncrating.....                        | 6 |
| Cabinet Location .....                | 7 |
| Leveling Legs & Castors .....         | 7 |
| Leveling.....                         | 8 |
| Sealing the Cabinet to the Floor..... | 8 |
| Electrical Safety .....               | 9 |

#### Cabinet Setup

|                                      |    |
|--------------------------------------|----|
| Drawer Removal and Installation..... | 10 |
|--------------------------------------|----|

#### Cabinet Operation

|                                    |    |
|------------------------------------|----|
| Startup.....                       | 12 |
| Temperature Control Location ..... | 12 |
| Sequence of Operation .....        | 13 |

#### Maintenance, Care, and Cleaning

|                                      |    |
|--------------------------------------|----|
| Condenser Coil Cleaning.....         | 14 |
| Stainless Steel Care & Cleaning..... | 16 |

#### Cabinet Adjustments, Servicing & Component Replacement

|                                        |    |
|----------------------------------------|----|
| Servicing & Replacing Components ..... | 17 |
|----------------------------------------|----|

#### Warranty

|                |    |
|----------------|----|
| Warranty ..... | 18 |
|----------------|----|

## 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 Installation Manual.

### Refrigerant Safety & Warning Information

See the serial label inside the cabinet for the units refrigeration type. For Hydrocarbon Refrigeration (R290 only), see below:



**DANGER** – Risk of fire or explosion. Flammable refrigerant used. **DO NOT** use mechanical devices to defrost refrigerator. **DO NOT** puncture refrigerant tubing; follow handling instructions carefully. To be repaired only by trained service personnel.



**DANGER** – 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. Dispose of properly in accordance with local and federal regulations. Follow all safety precautions.

**CAUTION** – Keep all ventilation openings clear of obstruction in the appliance enclosure or in the structure housing the appliance.

### Basic Safety & Warning Precautions

- Take care during operation, maintenance or repairs to avoid cuts or pinching from any part/component of the cabinet.
- Units may pose a tipping hazard while uncrating, during installation, or when moving the unit.
- Ensure the unit is properly installed and located in accordance with the Installation Instructions before use.
- This appliance is not to be used, cleaned or maintained by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction.
- **DO NOT** allow children to play with the appliance or climb, stand, or hang on the unit's shelves to prevent damage to the refrigerator and personal injury.
- **DO NOT** touch the cold surfaces in the freezer compartment when hands are damp or wet. Skin may stick to these extremely cold surfaces.
- Unplug the refrigerator before cleaning and making repairs.
- Setting temperature controls to the 0 position or powering off an electronic control may not remove power from all components (e.g., light circuits, perimeter heaters, and evaporator fans).
- **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 cabinet are necessarily small; be careful closing doors when children are in the area.
- **DO NOT** use electrical appliances inside the food storage compartments of the units unless the appliances are of the type recommended by the manufacturer.

**NOTE:** All servicing must be performed by a qualified technician.

### Cabinet Disposal Warning

## DANGER! RISK OF CHILD ENTRAPMENT



### Proper Disposal of the Cabinet

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 throwing away your old refrigerator or freezer:

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

**DANGER** – Risk of fire or explosion. Flammable insulation and/or refrigerant used. Dispose of all in accordance with local and federal regulations. Follow all safety precautions.



## Prior to 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.

### Cabinet Specification

This appliance is rated for the storage and/or display of prepackaged or bottled food product.

### Cabinet Location

- Appliance tested for IEC to ISO Climate Class 5 [104°F (40°C) temperature, 40% relative humidity].
- For proper operation, ambient temperatures shall not be less than 60°F (15.5°C) and no greater than 104°F (40°C).
- Appliance is not suitable for outdoor use.
- Appliance is not suitable for an area where a pressure washer or hose may be used.
- Ensure the location will provide adequate clearances and sufficient airflow for the cabinet.
- Ensure the power supply for the cabinet matches the cabinet specification sheet or cabinet data plate and is within the rated voltage (+/-5%). Also, that the amp rating of the circuit is correct and that it is properly grounded.
- The cabinet should always be plugged into its own individual dedicated electrical circuit. The use of adapter plugs and extension cords is prohibited.

### 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 for 24 hours prior to usage to verify its proper operation.



#### CLEARANCES

|      | TOP              | SIDES        | BACK         |
|------|------------------|--------------|--------------|
| TRCB | 1" Open (25.4mm) | 1" (25.4 mm) | 1" (25.4 mm) |

**WARNING** – Warranty is void if ventilation is insufficient.

## Cooking Equipment Weight Limits

Chef Base cabinet tops are designed to support countertop cooking equipment. See cooking equipment weight limits in the table below.

- Install countertop cooking equipment with their manufacturer-supplied legs.
- Minimum 4" (101.6 mm) clearance between TRCB's top and the bottoms of cooking equipment heating elements. Failure to provide clearance voids manufacturer warranty.
- For optimum performance, TRUE recommends installing a heat shield (not supplied by TRUE).

### Cooking Equipment Weight Limits

| MODEL                           | MAXIMUM WEIGHT   |
|---------------------------------|------------------|
| TRCB-36/48/52/52-60             | 717 lb (326 kg)  |
| TRCB-72/79/79-86/82/82-84/82-86 | 1084 lb (492 kg) |
| TRCB-96                         | 1434 lb (651 kg) |
| TRCB-110                        | 2000 lb (908 kg) |

### Wire Gauge Chart

| 115<br>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   | 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    |  |

| 230<br>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   | 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

## Uncrating

### Required Tools

Required tools include (but may not be limited to) the following:

- 9/16 Socket Wrench
- Phillips screwdriver
- Level

### Procedure

1. Remove the outer packaging (cardboard and bubble wrap or Styrofoam corner and clear plastic). See fig. 1.
2. Inspect the unit for concealed damage.
3. Remove the wooden skid. Set the skid aside.

**NOTE:** Move the unit as close as possible to the final location before removing the wooden skid.

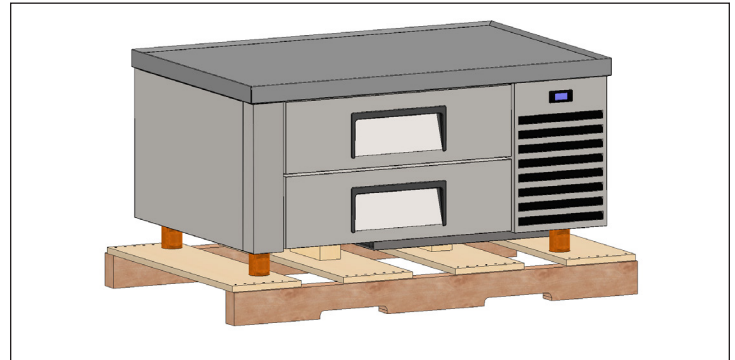
- a. Position packing material behind the appliance to protect the appliance.
  - b. Carefully lay the unit on its back
  - c. With an adjustable wrench, remove all shipping bolts securing the wood skid to the bottom of the appliance. See fig. 2.
4. If leveling legs or castors **will not be used**, carefully lift the appliance upright and position the unit in its final installation location.

If leveling legs or castors will be used, proceed to leveling leg or castor installation instructions.

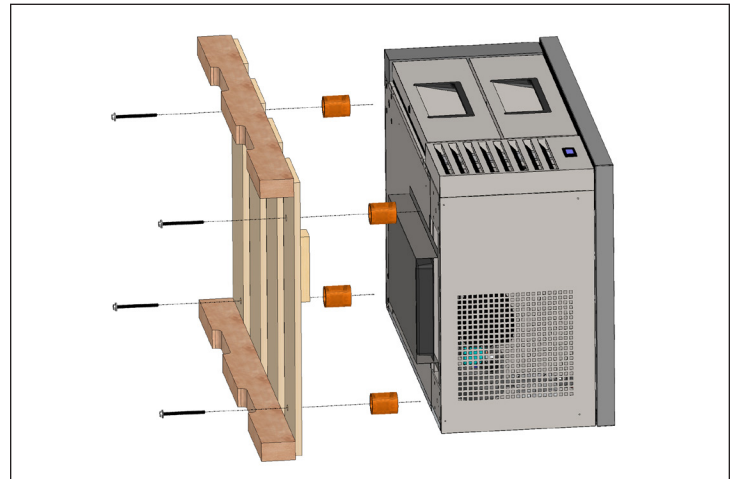
**NOTE: DO NOT** lift the unit by the countertops, doors, drawers, or grills.

**NOTE:** Be sure to leave the unit upright twice the time it was laying down (up to 4 hours) before restoring power. If this time exceeds 4 hours, let the unit stand upright for 24 hours before powering the unit.

**NOTE:** Keys for cabinet with door locks are located in the warranty packet.



**Fig. 1.** Remove the exterior packaging.



**Fig. 2.** Remove the shipping bolts.



**WARNING** – Units may pose a tipping hazard while uncrating, during installation, or when moving the unit.

## Installation (cont.)

### Cabinet Location

1. Ensure that the drain hose or hoses are positioned in the pan.
2. Free the plug and cord from inside the lower rear of the cooler (DO NOT plug in).
3. Place the unit close enough to the electrical supply so that the extension cords are never used.

### 6" Leveling Leg & Castor Installation

Leveling legs are provided to assist with leveling the cabinet. Adjustable legs will provide 6" (152 mm) of clearance under the cabinet. Castors provide cabinet mobility.

**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.

### Required Tools

Required tools include (but may not be limited to) the following:

- 9/16 Socket Wrench

### 6" Leveling Leg Installation

1. Access the unit's bottom.
2. Locate the mounting plate anchor points on the unit's bottom.
3. Install the mounting plate. See fig. 1.
4. Thread the leveling legs into the mounting plate. See fig. 1.
5. Verify the unit is level.
6. If the unit is not level, gently lift and support the low end of the unit. With an adjustable wrench, adjust the bottom stem of the leveling leg as needed to level the unit. See fig. 2.

**NOTE:** DO NOT lift the unit by the countertops, doors, drawers, or grills.

**NOTE:** Be sure to leave the unit upright twice the time it was laying down (up to 4 hours) before restoring power. If this time exceeds 4 hours, let the unit stand upright for 24 hours before powering the unit.

### Castor Installation

1. Locate the castor anchor points on the underside of the cabinet.
2. With an adjustable wrench and the provided hardware, install the castors.

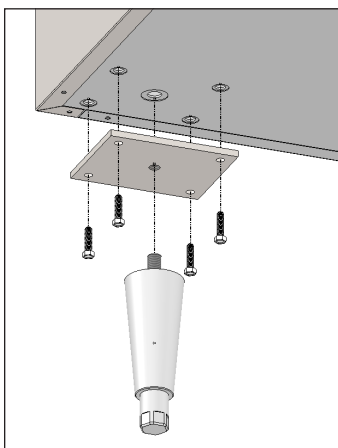
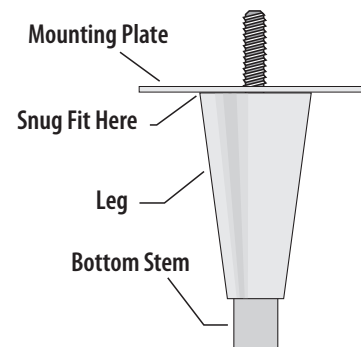
**NOTE:** DO NOT overtighten the bolts.

3. Verify the level of the cabinet. If the cabinet is not level, with a 6" (152.4 mm) block, prop up the low end of the unit. Then, add castor shims.

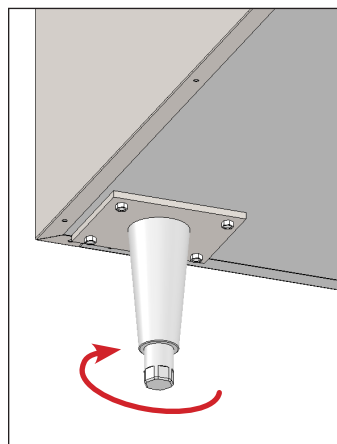
**NOTE:** DO NOT push the block more than 5" (127 mm) under the unit.

**NOTE:** Install shims in pairs and ensure the shims contact the castor mounting bolts.

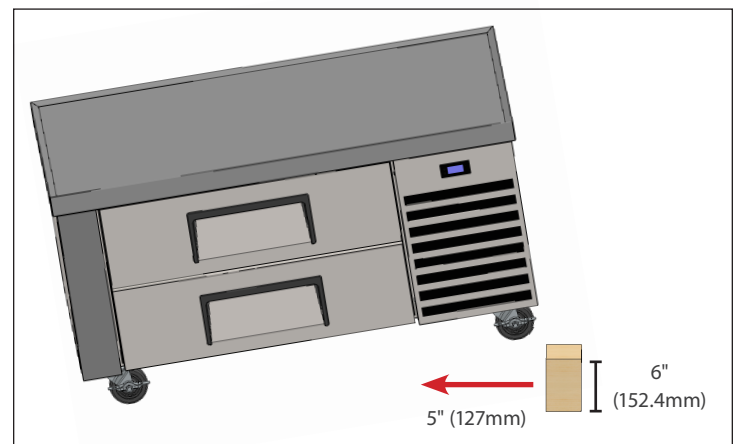
- a. Loosen the castor bolts to create space between the mounting plate and the bottom of the cabinet. See fig. 4a.
- b. Position the castor shims and tighten the castor bolts. See figs. 4b and 4c.
- c. Lower the cabinet and verify it is level. Repeat the process until the cabinet is level.



**Fig. 1.** Install the mounting plate and leveling leg.



**Fig. 2.** Turn the bottom stem to level the cabinet.



**Fig. 3.** DO NOT push the block more than 5" (127 mm) under the unit.

## Installation (cont.)

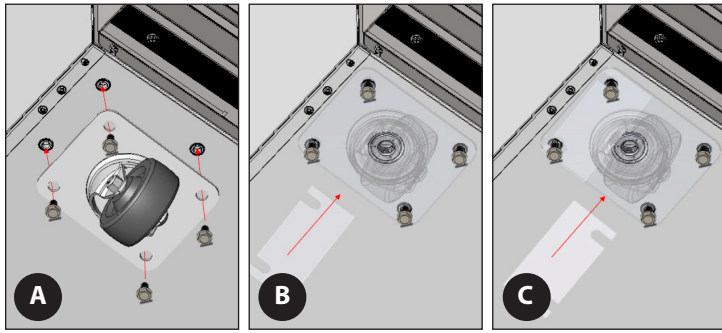
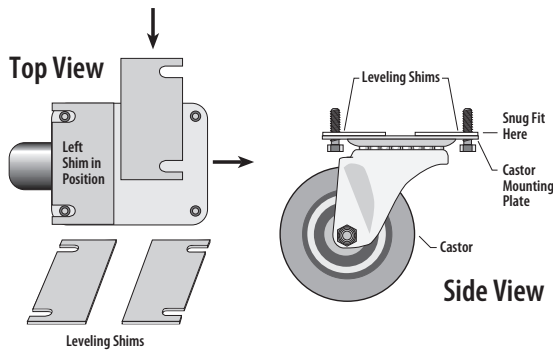


Fig. 4. Install castor shims in pairs.



### Leveling

Proper leveling of your TRUE cooler is critical to operating success (for non-mobile models). Leveling impacts effective condensate removal and door operation.

#### Procedure

Level the unit front-to-back and side-to-side.

1. Position the level on the inside floor of the unit near the doors (the level should be parallel to cabinet front). Level the cabinet.
2. Position the level at the inside rear of cabinet (again, the level should be placed parallel to cabinet back). Level the cabinet.
3. Perform procedures similar to steps 1 and 2 by placing the level on inside floor (left and right side, parallel to the depth of the cooler). Level the cabinet.

**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.

### Sealing the Cabinet to the Floor

Asphalt floors are susceptible to chemical attack. A layer of tape may be placed on the floor prior to applying the sealant to protect the floor.

#### Procedure

1. Position the cabinet, allowing 3" (73 mm) between the wall and the rear of the cabinet to ensure proper ventilation.
2. Level the cabinet. The cabinet should be level side-to-side and front-to-back. To check that the cabinet is level, place a carpenter's level on the interior cabinet floor in four places:
  - a. Position the level on the inside floor of the cabinet, near the doors (the level should be placed parallel to the cabinet front). Level the cabinet.
  - b. Position the level at the inside rear of the cabinet (the level should be placed parallel to the cabinet back). Level the cabinet.
  - c. Perform procedures similar to a and b by placing the level on the left and right inside floor (level should be parallel to the cabinet sides). Level the cabinet.
3. Draw an outline of the cooler base on the floor.
4. Raise and block the front side of the cabinet.
5. Apply a bead of NSF-approved sealant (see list below) to the floor, 1/2" (13 mm) inside the front part of the outline drawn in step 4. The bead of sealant must be heavy enough to seal the entire cabinet surface when the cabinet is lowered on top of the sealant.
6. Raise and block the rear of the cabinet.
7. Apply sealant to the floor on the other three sides, as outlined in step 5.
8. Examine the the cabinet to ensure that it is sealed to the floor around the entire perimeter.

### NSF-Approved Sealants

- 3M #ECU800 Caulk
- 3M #ECU2185 Caulk
- 3M #ECU1055 Bead
- 3M #ECU1202 Bead
- Armstrong Cork – Rubber Caulk
- Products Research Co. #5000 Rubber Caulk
- G.E. Silicone Sealer
- Dow Corning Silicone Sealer

## Installation (cont.)



### Electrical Installation & Safety

#### Use of Adapter Plugs

**NEVER USE AN ADAPTER PLUG!** An adapter plug alters the original OEM plug configuration when connecting it to a power source.



TRUE will not warranty any refrigerator/freezer that has been connected to an adapter plug.

#### Use of Extension Cords

**NEVER USE AN EXTENSION CORD!** An extension cord is determined to be any component that adds length to the original OEM power cord when connecting it to a power source.



TRUE will not warranty any refrigerator/freezer that has been connected to an extension cord.

#### NEMA Plug Configurations 60 HZ USE ONLY!

TRUE uses these types of NEMA plugs shown. If you **DO NOT** have the proper outlet, have a licensed electrician verify and install the correct power source.



115/60/1  
NEMA-5-15R



115/208-230/1  
NEMA-14-20R



115/60/1  
NEMA-5-20R



208-230/60/1  
NEMA-6-15R

#### International (IEC) Plugs Only

International cabinets may be supplied with a power cord that will require installation. Install this cord before connecting the unit to a power source.

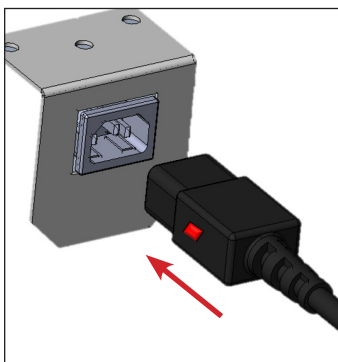
**NOTE:** International plug configurations will vary by country and voltage

#### Installation

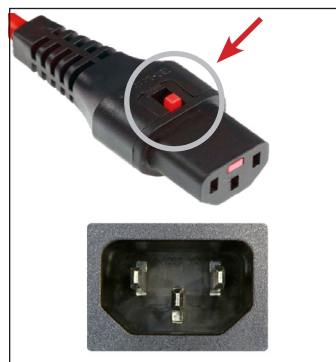
Fully seat the power cord into the cabinet receptacle until it locks in position. See fig. 1.

#### Removal

Depress the red button. See fig. 2.



**Fig. 1.** Fully insert the power cord into the receptacle.



**Fig. 2.** Push the red button to remove the plug.

#### How to Connect Electricity

- The power cord from this appliance is equipped with a grounding plug which minimizes the possibility of electric shock hazard.
- The wall outlet and circuit should be checked by a licensed 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.
- **DO NOT**, under any circumstances, cut or remove the ground prong from the power cord. For personal safety, this appliance must be properly grounded.
- Before your new unit is connected to a power supply, check the incoming voltage with a voltmeter. If the recorded voltage is less than the rated voltage for operation (+/-5%) and amp rating, correct immediately. Refer to cabinet data plate for this voltage requirement.
- The refrigerator/freezer should always be plugged into a dedicated electrical circuit. This provides the best performance and prevents building wiring circuits from being overloaded, which could cause a fire hazard from overheated wires.
- Never unplug your refrigerator/freezer by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.
- When moving the refrigerator/freezer, for any reason, be careful not to roll over or damage the power cord.
- Repair or replace immediately all power cords that have become frayed or otherwise damaged. **DO NOT** use a power cord that shows cracks or abrasion damage along its length or at either end.
- If the supply power cord is damaged, it should be replaced with original equipment manufacturer (OEM) components. To avoid hazard this should be done by a licensed service provider.

#### Cabinet Wiring Diagram

The cabinet's wiring diagram is in the exterior servicing compartment space of the cabinet.

A copy of the wiring diagram may also be obtained at [www.truemfg.com/support/serial-number-lookup](http://www.truemfg.com/support/serial-number-lookup)

## Cabinet Setup

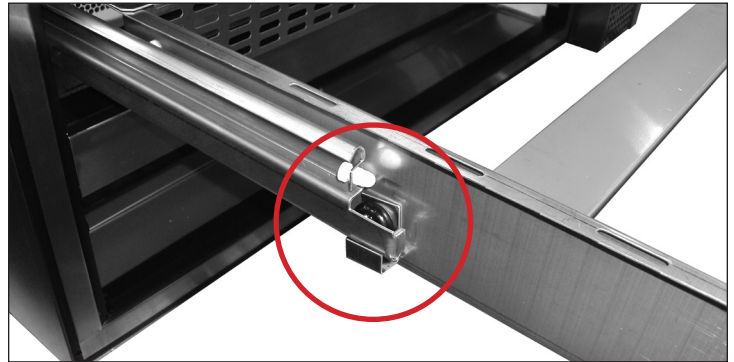
### Drawer Removal and Installation #1

#### Removal

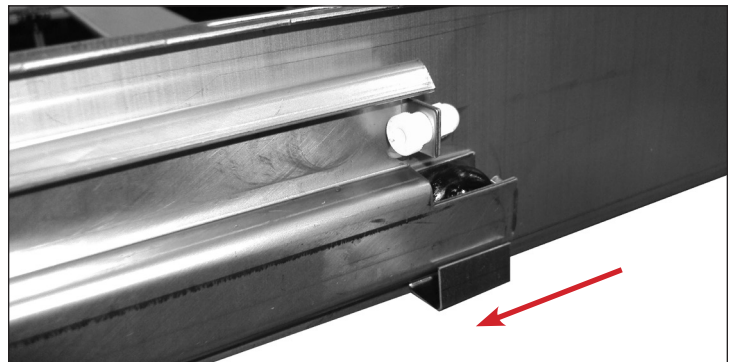
1. Completely open the drawer.
2. Locate the roller clips (in down position; see figs. 1 and 2).
3. While holding the sides of the drawer, rotate the roller clips upward. See fig. 3.
4. Lift the drawer from the channel slot.

#### Installation

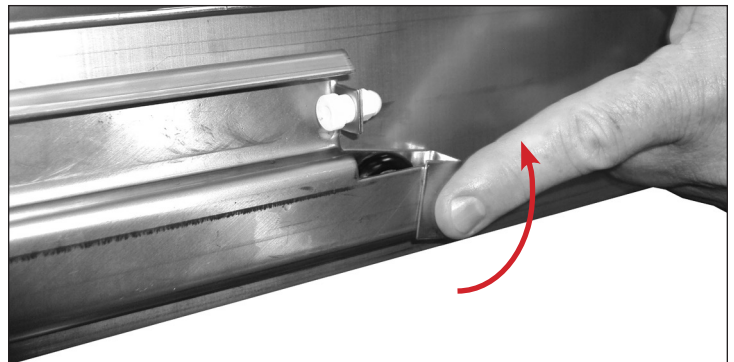
1. With the roller clips in the up position (see fig. 3), lower the drawer's rear rollers into the channel slots.
2. Push the drawer into position.
3. Rotate the roller clips to the down position. See figs. 1 and 2.



**Fig. 1.** Roller clip location.



**Fig. 2.** Roller clip in down position.



**Fig. 3.** Rotate the roller clip upward.



**Fig. 4.** Carefully lift the drawer from the channel slots.

## Cabinet Setup

### Drawer Removal and Installation #2

#### Removal

1. Slide the drawer out and locate the plastic drawer retainer. See fig. 1.
2. Push the plastic drawer retainer forward and raise the front end. See figs. 2a and 2b.
3. Remove the drawer.

#### Installation

1. With the plastic drawer retainer raised, align the drawer with the slide and push the drawer into position. See figs. 2b and 3.
2. Align the drawer with the drawer slide and push the drawer into position.
3. Press the plastic drawer retainer down and towards the back of the cabinet. See fig. 1.
4. Verify correct drawer operation.



**Fig. 1.** Drawer retainer location. Retainer is engaged.



**Fig. 2a.** Push the retainer forward.



**Fig. 2b.** Push the back of the retainer down.



**Fig. 3.** Align the drawer with the drawer slide.

## Cabinet Operation

### Startup

- The compressor is ready to operate when the unit is purchased. All you need to do is plug in the cooler.
- Excessive tampering with the control could lead to service difficulties. If replacing the temperature control is ever needed, be sure to order the replacement from your TRUE dealer or recommended service agent.
- Good air flow inside your TRUE unit is critical. Take care to prevent product from pressing against the sides or back wall and coming within 4" (101.6 mm) of the evaporator housing. Refrigerated air off the evaporator coil must circulate throughout the cabinet for even product temperatures.

**NOTE:** If the unit is disconnected or shut off, wait 5 minutes before restarting.

**RECOMMENDATION** – Before loading product, run your TRUE unit empty for 24 hours to verify proper operation. Remember, our factory warranty **DOES NOT** cover product loss!

### Temperature Control & Light Switch Location

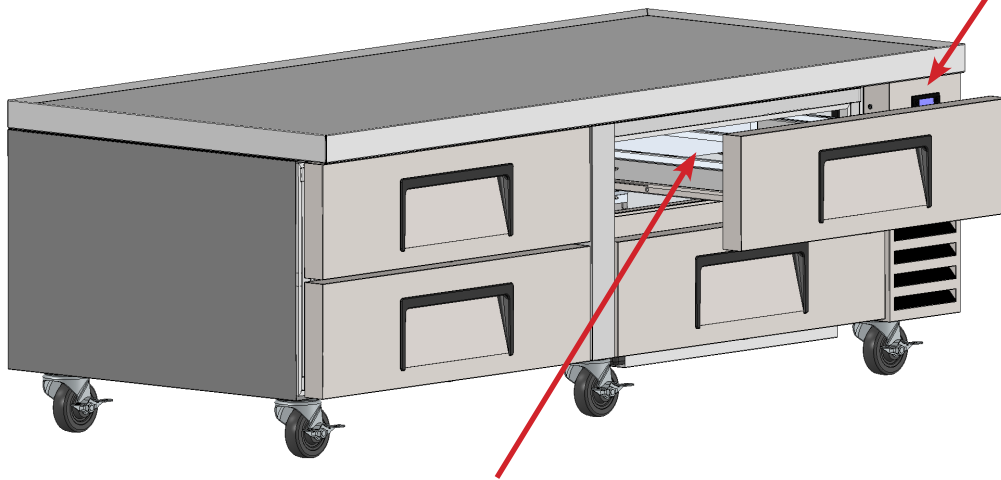
The light symbol  shows the approximate location of the light switch.



The electronic temperature control can act as a light switch. To control the light, press the up arrow  M.



*Electronic Temperature Control with Digital Display*  
On the front of grill.



*Mechanical Temperature Control*  
Inside top ceiling or right wall.



### FOR MORE INFORMATION

For more information regarding a cabinet's temperature control adjustment or general sequence of operation, please see our **Temperature Control Adjustment—Sequence of Operation Manual** in our resource library at <https://www.truemfg.com/Service-Manuals/Sequence-of-Operation> or follow the QR code.



## Cabinet Operation (cont.)

### General Sequence of Operation — Refrigerator and Freezer Cabinets

When the cabinet is plugged in...

- Interior lights will illuminate on glass door models (see previous page for light switch location).
- An electronic control with digital display will illuminate (if installed).
- There may be a short delay before the compressor and/or evaporator fan(s) start. This delay may be determined by time or by temperature, which could be the result of an initial defrost event that will last at least 6 minutes.
- The temperature control/thermostat may cycle the compressor and evaporator fan(s) on and off together. Every cabinet will require a defrost event to ensure the evaporator coil remains clear of frost and ice buildup. Defrost is initiated by a defrost timer or by the electronic control.

**EXCEPTION** – Models TSID, TDBD, TCGG, and TMW do not have an evaporator fan(s).

- The temperature control/thermostat senses either an evaporator coil temperature or air temperature, NOT product temperature.
- An analog thermometer, digital thermometer, or electronic control display may reflect the refrigeration cycle swings of up and down temperatures, NOT product temperature. **The most accurate method to determine a cabinet's operation is to verify the product temperature.**
- Refrigerators with mechanical temperature controls will defrost during every compressor off-cycle.
- Freezers with mechanical temperature controls will defrost by time initiation as determined by a defrost timer.

**EXCEPTION** – Models TFM, TDC, THDC and TMW require a manual defrost. The frequency of this manual defrost will depend on the cabinet's usage and ambient conditions.

- An electronic control with a digital display (if installed) will show **DEF** during defrost.

**NOTE:** The display may have a short delay before showing a temperature after a defrost event has expired and instead show **DEF** during a refrigeration cycle.

- Models with an analog or digital thermometer may show higher than normal temperatures during defrost.
- A refrigerator will use the evaporator fans to clear the coil during defrost.

**EXCEPTION** – Models TSID, TDBD, and TCGG do not have an evaporator fan(s).

- A freezer will use heaters to clear the evaporator coil during defrost.

**NOTE:** The evaporator coil heater and drain tube heater are only energized during defrost. Defrost is terminated when a specific evaporator coil temperature is reached or by a time duration.

## Maintenance, Care & Cleaning

**CAUTION** - Take care during operation, maintenance or repairs to avoid cuts or pinching from any cabinet part/component.

### Condenser Coil Cleaning

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



**WARNING** – Electrical shock or burn hazard. Unplug the unit or turn off the power supply before proceeding. **DO NOT** clean appliance with a pressure washer or hose.



**CAUTION** – Risk of eye injury. Eye protection is recommended.



**CAUTION** – Coil fins are sharp. Gloves are recommended.

### Required Tools

Required tools include (but may not be limited to) the following:

- Phillips Screwdriver
- Vacuum cleaner
- 3/8" nut driver
- Flashlight
- Stiff bristle brush
- Eye protection
- Tank of compressed air
- Gloves

### Procedure

1. Disconnect power to unit.
2. Remove the front louvered grill from the cabinet. See fig. 1.
3. With a stiff bristle brush, carefully clean accumulated dirt from the front condenser coil fins. See fig. 2.
4. With dirt removed from the surface of the coil, use a flashlight to verify that you can see through the coil and observe the condenser fan blade spinning. See fig. 3.

If the view is clear, reinstall louvered grill, connect unit to power and verify operation.

If the view is still blocked with dirt, proceed to the next step.

5. Remove the condenser base bolts. See fig. 4.
6. Remove the condenser coil brackets (if applicable).
7. Carefully slide the condensing unit out (tubing connections are flexible). See fig. 5. Gently blow compressed air or CO<sub>2</sub> through the coil until it is clean.
8. Carefully vacuum any dirt around and behind the condensing unit area.
9. Reinstall the coil brackets (if applicable). Then carefully slide the compressor assembly back into position and bolt it in place. See fig. 6.
10. Reinstall the louvered grill, connect power to the unit, and verify operation.



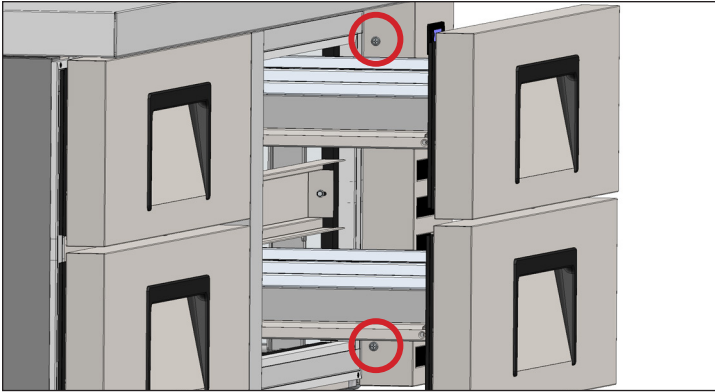
### Important Warranty Information

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

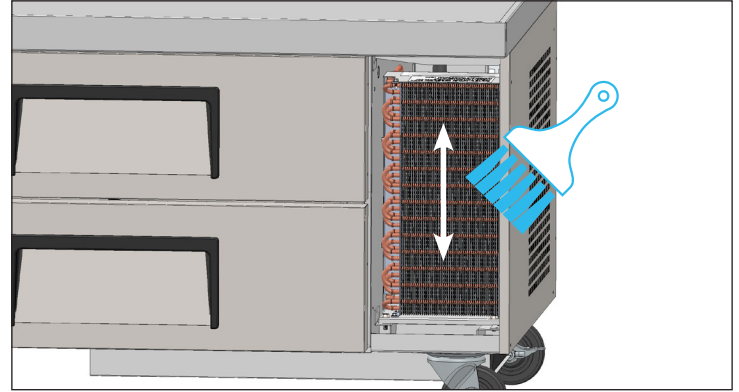
If you have any questions, please contact your local TRUE Manufacturing Service Department. See the front cover for locations and contact information.

- Condenser coils accumulate dirt and require cleaning every 30 days or as needed.
- A dirty condenser coil can result in non-warranted repairs and/or cabinet failure.
- Proper cleaning involves removing dust from the condenser by using a soft brush, vacuuming the condenser with a shop vac, or using CO<sub>2</sub>, nitrogen or pressurized air.
- Do not place any filter material in front of the condensing coil.
- On most units, the condenser is accessible by removing the cabinet's outer grill cover.
- If you cannot remove the dirt adequately, please contact your licensed refrigeration service provider.

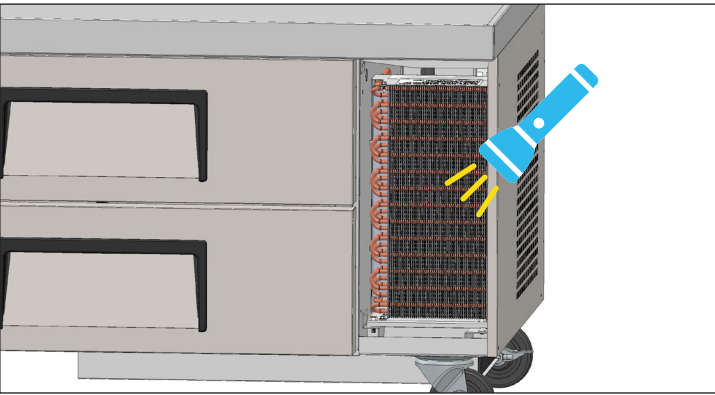
## Maintenance, Care & Cleaning (cont.)



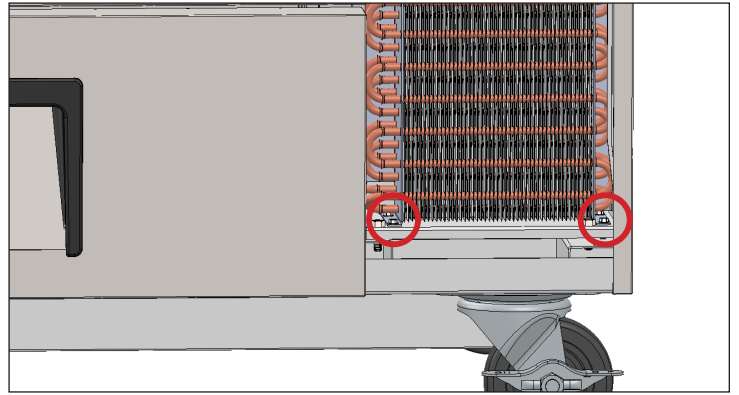
**Fig. 1.** Front louver grill screw locations.



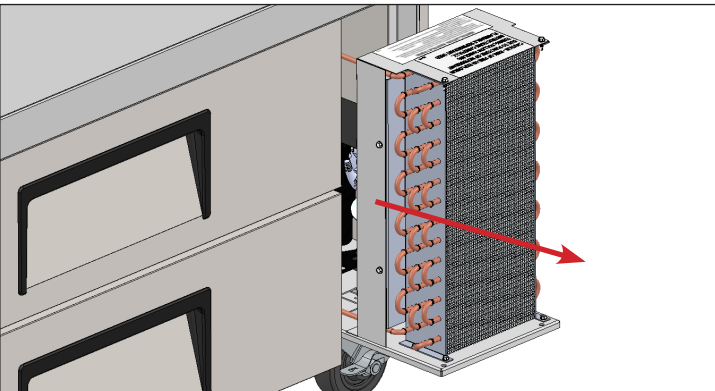
**Fig. 2.** Never brush across coil fins.



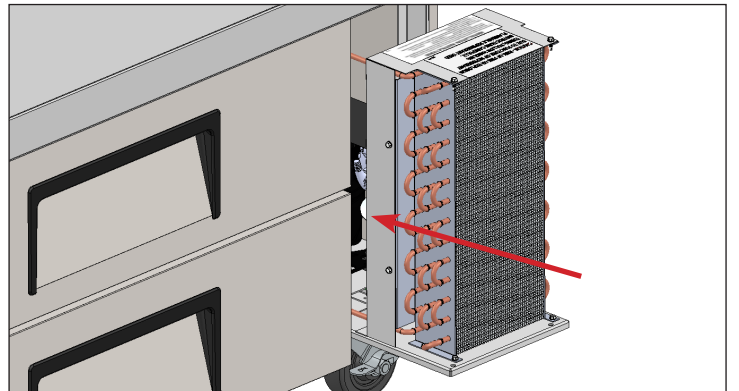
**Fig. 3.** Verify all blockages have been removed.



**Fig. 4.** Condenser base bolt locations.



**Fig. 5.** Carefully slide the condensing unit out.



**Fig. 6.** Carefully slide the condensing unit back into position and reinstall the bolts.

## Maintenance, Care & Cleaning (cont.)

### Stainless Steel Care & 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 form.

- Scratches from wire brushes, scrapers, steel pads, and other items that can be abrasive to stainless steel's surface.
- 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.
- Chlorides which are present in table salt, food and water, as well as in household and industrial cleaners. These are the worst type of chlorides to use on stainless steel.

### Stainless Steel Cleaning and Restoration

**DO NOT** use stainless steel cleaners or similar solvents to clean plastic or powder-coated parts. Instead, use warm soapy water.

- For routine cleaning and removal of grease and oil, apply white vinegar, ammonia, or any good commercial detergent\* with a soft cloth or sponge.
  - Stainless steel polish (e.g., Zep® Stainless Steel Polish, Weiman® Stainless Steel Cleaner & Polish, Nyco® Stainless Steel Cleaner & Polish, or Ecolab® Ecoshine®) and olive oil can act as a barrier against fingerprints and smears.
  - Degreasers\* (e.g., Easy-Off® Specialty Kitchen Degreaser or Simple Green® Industrial Cleaner & Degreaser) are excellent for removal of grease, fatty acids, blood and burnt-on foods on all surfaces.
- \***DO NOT** use detergents or degreasers with chlorides or phosphates.
- For restoration/passivation or removing stubborn stains and discoloration, Brillo® Cameo®, Zud® Cleanser, Ecolab® Specifax™ First Impression® Metal Polish, Sheila Shine, or talc can be applied by rubbing in the direction of the polish lines.

**NOTE:** The use of proprietary names is intended for example only and does not constitute or imply an endorsement. Omission of proprietary cleansers from this list does not imply inadequacy.

### 8 Tips to Help Prevent Rust on Stainless Steel

#### Maintain the Cleanliness of Your Equipment

Avoid build-up of hard stains by cleaning frequently. Use cleaners at the recommended strength (alkaline chlorinated or non-chloride).

#### Use 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.

#### Clean Along Polishing Lines

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

#### Use Alkaline, Alkaline-Chlorinated or Non-Chloride 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.

#### 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.

#### Never Use Hydrochloric Acid (Muriatic Acid) on Stainless Steel

Even diluted, hydrochloric acid can cause corrosion, pitting and stress corrosion cracking of stainless steel.

#### Water Treatment

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

#### Regularly Restore & Passivate Stainless Steel

Stainless steel gets its stainless properties from the protective chromium oxides on its surface. If these oxides are removed by scouring, or by reaction with harmful chemicals, then the iron in the steel is exposed and can begin to oxidize, or rust. Passivation is a chemical process that removes free iron and other contaminants from the surface of stainless steel, allowing the protective chromium oxides to re-form.

## Cabinet Adjustments, Servicing, & Component Replacement

**NOTE:** Any cabinet adjustments are to be made **AFTER** the cabinet has been verified level and properly supported.

### Servicing & Replacing Components

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- Replace component parts with original equipment manufacturer (OEM) components.
- Have a licensed service provider service your unit to minimize the risk of possible ignition due to incorrect parts or improper service and to ensure the operator's health and safety.
- Unplug the refrigerator/freezer before cleaning or making any repairs. Setting temperature controls to the 0 position or powering off an electronic control may not remove power from all components (e.g., light circuits, perimeter heaters, and evaporator fans).

#### FOR MORE INFORMATION

For additional maintenance instruction, please visit the media center at

[www.truemfg.com](http://www.truemfg.com)

# USA FOODSERVICE & CANADA WARRANTY STATEMENT

## FIVE-YEAR HYDROCARBON PARTS & LABOR WARRANTY & THREE YEARS HFC 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 five (5) years for hydrocarbon (HC) units and three (3) years for HFC units from the date of the original installation. Any warranty coverage is dependent on the purchase date of the cabinet being within 39 months of the original ship date from TRUE.

Any part covered under this warranty that is determined by TRUE to have been defective within this time frame, 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 HYDROCARBON COMPRESSOR WARRANTY

In addition to the five (5) year warranty stated above, TRUE warrants its hermetically and semi-hermetically sealed Hydrocarbon (HC) 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, part only for compressor defects only. Our HFC compressors will have the three (3) years parts & labor detailed above and an additional two (2) years for a compressor part only for compressor defects warranty.

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

The compressor component 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 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 ensure 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, a picture of the compressor model tag must be returned to TRUE along with above listed information. For warranty claim information, visit [www.truemfg.com/Support/Warranty-Support](http://www.truemfg.com/Support/Warranty-Support). Any action for breach of these warranty provisions must be commenced within three (3) months of the defect giving rise to the breach.

True reserves the right to request any failed part covered under warranty to be returned.

## 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 FIVE (5) YEAR HYDROCARBON (HC) and THREE (3) YEAR HFC PARTS & LABOR WARRANTY AND THE TOTAL (5) YEAR HFC COMPRESSOR PART ONLY FOR COMPRESSOR DEFECTS AND THE ADDITIONAL TWO (2) YEAR HC COMPRESSOR PART ONLY FOR COMPRESSOR DEFECTS 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 November 1, 2021 for US Foodservice & Canada.

## ENVIRONMENTAL ATTRIBUTES

Any and all environmental attributes, including environmental offset credit rights, with respect to TRUE® refrigeration units manufactured after September 1, 2015, shall remain the property of True Manufacturing Co., Inc. and are not transferred.

**This warranty only applies to units shipped from True's manufacturing facilities after November 1, 2021 for US Foodservice & Canada.**

MS • 5/2022

NOTES





[www.truemfg.com](http://www.truemfg.com)