

Quality Refrigeration OWNER'S MANUAL

Instructions for the installation, operation and maintenance of Traulsen: TU Series Full-Size Undercounter Refrigerators TU044HT, TU072HT & TU100HT TU Series Full-Size Undercounter Freezers TU044LT & TU072LT



This Traulsen unit is built to our highest quality standards. We build our refrigerators and freezers this way as a matter of pride. This philosophy has made Traulsen the leader in commercial refrigeration since 1938. We thank you for your choice and confidence in Traulsen equipment and we know you will receive many years of utility from this equipment.

All Traulsen units are placed on a permanent record file with the service department. In the event of any future questions you may have, please refer to the model and serial number found on the name tag affixed to the unit. Should you need service, call us on our toll free number, 800-825-8220 between 7:30 am - 4:30 pm CST, Monday thru Friday. You may also log onto www. traulsen.com for further information. It is our pleasure to help and assist you in every possible way.

INSTALLER COMPLETE THE FOLLOWING INFORMATION PRIOR TO UNIT INSTALLATION

INITIAL START DATE:

_____ SERIAL NO.

MODEL TYPE:

COMPANY/INDIVIDUAL NAME:

INSTALLER:

FORM NUMBER TR35745 REV. 10/12

P/N 375-60297-00

TABLE OF CONTENTS

Page 8 Page 9

Page 9 Page 10

Page 10 Page 10 Page 11 Page 12

Page 12 Page 13 Page 14

Page 15 Page 15 Page 16

Page 16 Page 17 Page 18

Page 19 Page 19 Page 19 Page 20 Page 21

I. THE SERIAL TAG	Page 1	e-Enter The Service Access
II. RECEIPT INSPECTION	Page 2	f-Service Parameters
III. INSTALLATION		g-Adjusting Thermostat Set Point High
a-Location	Page 2	h-Adjusting Thermostat Set Point Low
b-Packaging	Page 2	i-Changing The Temperature Scale
c-Adjusting the Casters	Page 2	j-Setting The 24-Hour Clock
d-Cord & Plug	Page 2	k-Setting The Date
e-Power Supply	Page 2	l-Setting Daylight Savings Time
IV. OPERATION		m-Starting A Manual Defrost
a-Refrigerators	Page 3	n-Setting Defrost Lockouts
b-Freezers	Page 3	o-Adjusting The Drawer Perimeter Heaters
V. CARE & MAINTENANCE		p-Adjusting The Room Temperature Offset
a-Cleaning The Condenser/Filter	Page 3	q-Setting The Audible Alarm Style
b-Replacing The Gaskets	Page 4	r-Viewing Sensor Temperatures
c-Cleaning The Cabinet Surface	Page 4	VIII. WIRING DIAGRAM
VI. DOOR(S) & REFRIGERATOR DRAWER(S)		IX. TROUBLE SHOOTING GUIDE
a-Door Re-hinging	Page 4	X. SERVICE ASSISTANCE
b-Removing The Door And Installing Ref Drawers	Page 4	a-Service Information
VII. MICROPROCESSOR CONTROL		b-Spare Parts Information
a-Control Features	Page 5	c-Warranty Registration
b-Alarm Explanations	Page 6	XI. WARRANTIES
c-Control Panel Diagram	Page 7	XII. SERVICE PARTS LIST

	naulse	1	I. THE SERIAL TAG	
FORT WORTH, TX.			The serial tag is a permanently affixed label on which	
SERIAL VOLTS	MODEL Hz	PH	your Traulsen product, as well as the model and serial number. This tag is located in the right interior compart- ment on all standard full-size undercounter models.	
TOTAL CURRENT MINIMUM CIRCUIT MAXIMUM OVERCUR	AMPS AMPS RENT PROTECTION	AMPS	READING THE SERIAL TAG	
LIGHTS HEATERS	WATTS AMPS		 Serial = The permanent ID# of your Traulsen unit Model = The model # of your Traulsen unit 	
REFRIGERANT DESIGN PRESSURE	TYPE HIGH	OZ LOW	 Volts = Voltage Hz = Cycle PH = Phase 	
REFRIGERANT DESIGN PRESSURE	TYPE HIGH 370-60294-00 REV (A)	OZ LOW	 Total Current = Maximum amp draw Minimum Circuit = Minimum circuit ampacity Lights = Light wattage Heaters = Heater amperage (Hot Food units only) 	
	NSF.		 Refrigerant = Refrigerant type used Design Pressure = High & low side operating pressures and refrigerant charge Agency Labels = Designates agency listings 	

II. RECEIPT INSPECTION

All Traulsen products are factory tested for performance and are free from defects when shipped. The utmost care has been taken in crating this product to protect against damage in transit.

You should carefully inspect your unit for damage during delivery. If damage is detected, you should save all the crating materials and make note on the carrier's Bill Of Lading describing the damage. A freight claim should be filed immediately. If damage is subsequently noted during or immediately after installation, contact our customer care team to file a freight claim. There is a fifteen (15) day limit to file freight damage with the carrier. Under no condition may a damaged unit be returned to Traulsen without first obtaining written permission (return authorization). You may contact Hobart/Traulsen **customer care at 800-333-7447** to request a return or file a claim.

III. INSTALLATION

III. a - LOCATION:

Select a proper location for your unit, away from extreme heat or cold. Allow enough clearance between the unit and the side wall in order to make use of the door stay open feature at 120° (self-closing feature operates up to 90°). The door(s) must be able to open a minimum of 90° in order to make use of the maximum clear door width.

III. b - PACKAGING:

Your Traulsen unit is shipped from the factory bolted to a sturdy wooden pallet in stretch wrapped material.

Most exterior stainless steel surfaces have a protective vinyl covering to prevent scratching during manufacturing, shipping and installation. After the unit is installed in place of application peel, remove and discard the covering from all surfaces.

To remove the wooden pallet, first if at all possible, we suggest that the cabinet remain bolted to the pallet during all transportation to the point of final installation. The bolts can then be removed with a 1/2" socket wrench. Avoid laying the unit on its front, side or back for removal of the pallet.

NOTE: Traulsen does not recommend laying the unit on its front, side or back. If you must, please allow the unit to remain in an upright position for 24 hours before plugging it in so that the compressor oils and refrigerant may settle.

III. INSTALLATION (continued)

III. c - INSTALLING/ADJUSTING LEGS OR CASTERS:

To install legs or casters, slide leg or caster into the caster channel from the side of the unit without the refrigeration system.

To adjust the legs or casters, loosen the two bolts and move leg or caster to desired location, spacing between leg or caster not to exceed 48 inches. Leg or caster on each end of the unit can not exceed 8 inches from the end of the cabinet.

NOTE: Traulsen recommends to position legs or casters under the mullion when possible.



III. d - <u>CORD & PLUG</u>:

All self-contained models are shipped standard with a NEMA 5-15P plug and 9 foot cord . Select only a dedicated electrical outlet for power source.

NOTE: Do not under any circumstances, cut or remove the round grounding prong from the plug, or use an extension cord.

III. e - POWER SUPPLY:

The supply voltage should be checked prior to connection to be certain that proper voltage for the cabinet wiring is available (refer to the serial tag to determine correct unit voltage, see page 1). Make connections in accordance with local electrical codes. Use qualified electricians.

Use of a separate, dedicated circuit is required. Size wiring to handle indicated load and provide necessary over current protector in circuit (see amperage requirements on the unit's serial tag).

IV. OPERATION

IV. a - REFRIGERATORS:

Both refrigerators and Freezers do not require manual defrosting. During normal operation, a refrigerator continuously circulates above freezing cabinet air through the coil. A compressor "OFF" cycle occurs every 2 1/2 Hours for 20 minutes to melt any frost which may accumulate on the coil during the compressor "ON" cycle. The control will read "dEF" and the green water drop will be illuminated. With standard holding refrigerators, high relative humidity is also maintained to prevent dehydration of stored product.



IV. b - FREEZERS:

During normal operation, a freezer continuously circulates below freezing cabinet air through the coil. The coil requires a periodic defrosting for proper operation. This is accomplished by an automatic, time activated, temperature/time terminated, defrost program, utilizing hot gas from the refrigeration system. The controller is preset at the factory for six equally spaced defrost cycles within each 24-hour period.

At the start of a freezer defrost cycle, the compressor, condenser fan and evaporator fan shut off. The hot gas relay will be energized, this will energize the hot gas solenoid valve thru the normally open contacts and the condenser fan circuit will be de-energized thru the (normally closed contacts), and the compressor will restart. When the evaporator coil sensor reaches 40° F the coil is fully defrosted or if the maximum time of defrost duration (20 minutes) is reached (which ever comes first) then the defrost hot gas relay is de-energized. The condenser fan restarts and the hot gas solenoid valve closes, The compressor system returns to the cooling mode. Total refrigeration system operation is then resumed (green snowflake icon goes out) and the display will show def for an additional 10 minutes then return to reading the inside cabinet temperature. The evaporator fan(s) are delayed from starting at the termination of the defrost cycle and will automatically resume by time or temp delay (5 minutes or 30° F coil sensor temperature, whichever comes first).

IV. b - FREEZERS (continued):

During freezer defrost operation, heat is confined to the coil enclosure to prevent any significant rise in temperature within the food zone. The fan delay control function upon termination of a defrost cycle is two-fold. First, to prevent blowing warm air into the food storage area. Second, to prevent any condensation on the defrost coil from being blown into the food storage area.

The microprocessor control is set from the factory to terminated defrost at 20 minutes in the event of sensor failure. This setting should never be tampered with, without first consulting Traulsen's Technical Service department.

V. a - CLEANING THE CONDENSER/FILTER:

The most important thing you can do to insure a long, reliable service life for your Traulsen is to regularly clean the condenser coil and or filter if provided.

The microprocessor control will notify you through a "CLN-FIL" message when the condensing temperature of the refrigerator reaches 140 degrees F or greater. If the condensing temperature reaches 160 degrees F the compressor will automatically turn off. When the temperature drops below 140 degrees F the compressor will restart and when the temperature drops below 120 degrees F the alarm will reset.

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY BEFORE CLEANING ANY PARTS OF THE UNIT.

To clean the condenser/filter, first disconnect electrical power to the cabinet and remove the front louver assembly. To do so, place hands under the louver panel and pull out and up to get louver panel off bracket of the unit. See diagram below.



Proceed to vacuum or brush any dirt, lint or dust from the finned condenser coil/filter, the compressor and other cooling system parts. If significant dirt is clogging the condenser fins or filter, use compressed air to blow this clear. To replace the louver assembly reverse the process.

V. CARE & MAINTENANCE-(continued)

V. b - REPLACING THE GASKETS:

To remove the gasket to be replaced, grasp it firmly by one corner and pull it out. Before attempting to install a new gasket, both the unit and the gasket itself must be at room temperature. Insert the four corners first by using a rubber mallet (or hammer with a block of wood). After the corners are properly inserted, work your way towards the center from both ends by gently hitting with a mallet until the gasket is completely seated in place (see figure below for proper gasket placement).

NOTE: The gasket may appear too large, but if it is installed as indicated above it will slip into place.



V. c - CLEANING THE CABINET SURFACES:

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY BEFORE CLEANING ANY PARTS OF THE UNIT.

Exterior stainless steel should be cleaned with warm water, mild soap and a soft cloth. Apply with a dampened cloth and wipe in the direction of the metal grain.

Avoid the use of strong detergents and gritty, abrasive cleaners as they may tend to mar and scratch the surface. Do NOT use cleansers containing chlorine, such as bleach, this may promote corrosion of the stainless steel.

Care should also be taken to avoid splashing the unit with water, containing chlorinated cleansers, when mopping the floor around the unit.

For stubborn odor or spills, use baking soda and water (mixed to a 1 tbsp baking soda to 1 pint water ratio).

A stainless steel polish is recommended for shining of unit.

VI. DOOR(S) & REFRIGERATOR DRAWER(S)

Your Traulsen full-size undercounter model door(s) are field re-hingeable. If re-hinging is required, please contact our inhouse service department at 800-825-8220 for instruction.

VI. DOOR(S) & REFRIGERATOR DRAWER(S)-(continued)

VI. a - <u>REMOVING THE DOOR AND INSTALLING</u> <u>REF DRAWERS:</u>

Doors are supplied standard on all TU Series Full-Size Undercounter models. However, we have engineered our refrigerator models (only) with a drop-in feature that allows you to easily convert door(s) into two 6" deep drawers or three 4" deep drawers.

The door(s) on the refrigerator models (only) can easily be converted to drawers in the field. To begin the process, open the door to its maximum position. Support the nonhinged end of the door so minimum movement occurs. When the bolts from the lower hinge plate are removed, remove the lower hinge plate and then the door from the top hinge bracket plate and then the door from the top hinge bracket. The hinge plate pin and plastic bushing will remain in the top hinge plate.

NOTE: The lower hinge plate is under spring tension.

Once the door(s) have been removed, Insert drawer frame as shown below.



Once the drawer frame has been inserted, the drawer frame module can be installed by tightening the black front and back clamping knobs (2 of each) located on the cross rail locks and liner locks. Slide the front cross rail locks towards the center of the drawer frame module and allow the liner locks to drop down from the top of the liner. Insert the door frame module push towards the back of the unit. The entire frame assembly is now installed and ready for use.

NOTE: Repeat process for multiple drawer(s) inserts.



VII. MICROPROCESSOR CONTROL

Your new refrigerator or freezer cabinet is equipped with a state-of-the-art microprocessor control, which precisely regulates operation and provides alarms when problems occur. It is supplied from the factory completely ready for use and requires no adjustments, but without the audible alarms activated. See pages 6 thru 16 for more information.



MICROPROCESSOR CONTROL

VII. a - CONTROL FEATURES:

1- Internal Time Clock

- Eliminates external defrost time clock.
- Defrost cycle can be quickly adjusted to suit individual location and use.
- Must be set at power-up. (See page 11, "Setting the 24-Hour Clock")
- Will automatically update for Daylight Savings Time.

2- Water Resistant Housing - The face of the control is water resistant to provide for protection during cleaning.

3- Parameter/Service Levels

• See "Customer / Service Parameters" on Page 9.

4- Defrost Lockouts - See "Setting Defrost Lockouts" on page 14.

Customers can set up to 4 different defrost lockout periods. The lockout prevents the unit from going into a defrost cycle during peak kitchen use. Note: The 24-hour clock must be set for this feature to operate correctly.

5- **Communication Ability** - A NAFEM Data Protocol (NDP) compliant RS-485 serial communications port is available to interface with data collection software (by others). All microprocessor control equipped models are capable of communicating within a NAFEM Data Protocol network if provided with an optional Gateway Hub (available from Traulsen). The actual communications software is available from a number of third party software vendors.

6- Anti-Condensate Door Perimeter Heater Control

The "No-Sweat" feature is an energy savings system that allows the customer to adjust the percent of time for the door/ drawer heater to be "On" as needed for the prevailing ambient conditions (from 0 - 100% of the time each day). It is used to prevent condensation from forming around the perimeter of the drawers. The factory default setting is 100%. Adjust this set point down to a point just before condensation forms to save energy.

7- Alarms (See the following pages for explanations)

- High Cabinet Air Temperature
- Low Cabinet Air Temperature
- Loss Of Power
- Sensor Failure
- Clean Condenser

8- Display Features

- 3-Digit LED Display
- Defrost in Progress Icon
- Fahrenheit or Celsius Temperature Scale In Use

VII. b - ALARM EXPLANATIONS:

*NOTE: Explanation of alarms assume the audible alarm style is set at a 3-second burst or a continuous audible alarm. References to the audible alarm do not apply if the audible alarm style is set to OFF (Refer to page 16 for setting the audible alarm style).

High Cabinet Air Temperature: The audible alarm will sound and the display will read HI CAb when the temperature inside the cabinet rises above a pre-programmed limit. The limit is determined by the type of unit being operated (i.e.: refrigerator/freezer). To turn off the audible alarm, press the alarm cancel button. The visual alarm text will continue to display until the cabinet air temperature falls below the limit. If the temperature does not fall below the limit within 5 minutes, the audible alarm* will sound again and an additional Call Service message will display.

POSSIBLE CAUSES:

- Doors open for extended periods of time.
- Large amounts of hot product placed inside the cabinet.
- Condenser coil dirty.
- Cooling Compressor Failure. Call Service.
- Refrigeration Problems.



Low Cabinet Air Temperature: The audible alarm will sound and the display will read Lo Cab when the temperature inside the cabinet falls below a pre-programmed limit. The limit is determined by the type of unit being operated (i.e.: refrigerator/ freezer). To turn off the audible alarm, press the alarm cancel button. The visual alarm text will continue to display until the cabinet air temperature rises above the limit. If the temperature does not rise above the limit within 5 minutes, the audible alarm will sound again and an additional Call Service message will display.

POSSIBLE CAUSES:

- No product in unit.
 - Failed sensors.
 - Stuck Evaporator Relay.



Loss Of Power: The audible alarm will sound and the display will read ELE LOS, when the unit regains power after an outage. To turn off the audible alarm and/or clear the visual text, press the alarm cancel button.



Condenser Clean: The audible alarm will sound and the display will read "Clean Filter" when discharge temperatures exceeds 140 degrees. As the load on the condenser decreases, the alarm will turn off by itself. As the temperature on the condenser continue to rise, the audible alarm will return until the problem has been eliminated.



NOTE: If discharge temperature rises above 160°F the compressor & condenser fan motor will be switched off until the discharge temp falls below 140°F

Sensor Failures:

The audible alarm will sound and the display will read CAB SEN, COL SEN or DIS SEN when that particular sensor has failed to operate. To turn off the audible alarm, press the alarm cancel function of the sensor, the audible alarm will sound again in either 5 minutes or 24 hours. **Note: Test sensor in ice water.**

VII. c - <u>CONTROL PANEL DIAGRAM</u>:



VII. d - <u>NOTES TO THE USER</u>:

You only have 20-30 seconds between button pushes. If you take longer than 30 seconds, the controller will revert back to displaying the cabinet temperature. If you enter the wrong security code, the controller will revert back to displaying the cabinet temperature. You can exit the parameters at any time by pressing the alarm cancel button or by waiting 20-30 seconds.



You are now in the **SERVICE PARAMETERS.**

VII. f - <u>SERVICE PARAMETERS:</u>

Listed below are the available parameters in the order they appear, using the down arrow key on the controller. You can

use either the up or down arrow keys to scroll through the options.



VII. g - ADJUSTING THERMOSTAT SET POINT HIGH:

This parameter sets the high point of the desired cabinet temperature range. Typically, freezers will range from -3° F to 0° F (-19° C to -18° C) and refrigerators will range from 36° F to 40° F (2° C to 4° C) for this parameter setting. This parameter is preset at the factory and does not have to be adjusted unless the customer chooses to do so. Note: Set Point Low and Set Point High cannot be set to the same temperature. There must be at least 1-2 degree difference between the two settings.

-9-

Follow the instructions to enter the customer access code on page 8. When the control



VII. h - ADJUSTING THERMOSTAT SET POINT LOW:

This parameter sets the low point of the desired cabinet temperature range. Typically, freezers will range from -6° F to -4° F (-21° C to -20° C) and refrigerators will range from 32° F to 34° F (0° C to 1° C) for this parameter setting. This parameter is preset at the factory and does not have to be adjusted unless the customer chooses to do so. Note: Set Point Low and Set Point High cannot be set to the same temperature. There will be at least 1-2 degree difference between the two settings.

Follow the instructions to enter the service access code on page 8. When the control



VII. j - SETTING THE 24-HOUR CLOCK:

The internal time clock must be set in order for the data storage memory to correctly log events and to allow any defrost lockout to occur at the correct time of day. If the clock is not set, the control assumes the time is 12 am at the time power is supplied to the unit. The hours on a 24-hour time clock read the following way:

H01 = 1:00 a.m.	H07 = 7:00 a.m.	H13 = 1:00 p.m.	H19 = 7:00 p.m.
H02 = 2:00 a.m.	H08 = 8:00 a.m.	H14 = 2:00 p.m.	H20 = 8:00 p.m.
H03 = 3:00 a.m.	H09 = 9:00 a.m.	H15 = 3:00 p.m.	H21 = 9:00 p.m.
H04 = 4:00 a.m.	H10 = 10:00 a.m.	H16 = 4:00 p.m.	H22 = 10:00 p.m.
H05 = 5:00 a.m.	H11 = 11:00 a.m.	H17 = 5:00 p.m.	H23 = 11:00 p.m
H06 = 6:00 a.m.	H12 = 12:00 p.m.	H18 = 6:00 p.m.	H24 = 12:00 a.m.

Follow the instructions to enter the customer access code on page 8. When the control



VII. k - SETTING THE DATE:

The date must be set in order for the data storage memory to correctly log events. Follow the instructions to enter the service access code on page 8. When the control displays Thermostat Set Point High, press the down arrow Date. Press the set button SET . The display will show until the control display reads key (year). The right two numbers will be flashing. Press the arrow keys to set the year. When the correct year is displayed, press the set button . The display will show (month). The right two numto set the month. When the correct month is displayed, press bers will be flashing. Use the arrow keys (day). The right two numbers will be flashing. Press the arrow SET The display will show the set button to set the day. When the correct day is displayed, press the set button keys . The display will then Date. You can use the up or down arrow keys to scroll to the next parameter, press the read alarm cancel button to exit

VII. I - SETTING DAYLIGHT SAVINGS TIME:

This parameter is preset at the factory to automatically adjust the 24-hour clock for Daylight Savings Time. Follow the in-

structions to enter the customer access code on page 8. When the control displays Thermostat Set Point High,
press the down arrow key 💭 until the display reads 📕 Daylight Savings Time. Press the set button
. The display will show difference of the two series of two series
For "YES" press the set button (SET), for "NO" press the up or down arrow key (C) (C). The display will read
Daylight Savings Time (no). Press the set button SET. The display will read Daylight Savings
Time. You can press the up or down arrow keys volume to scroll to the next parameter or press the alarm cancel
button to exit

VII. m - STARTING A MANUAL DEFROST CYCLE:

This parameter allows a service technician to start a defrost cycle at any time. This parameter will override any lock-

out settings. Follow the instructions to enter the customer access code on page 8. When the control displays

Thermostat Set High, press the down arrow key

until the control display reads

Scal Start

NOTE: Traulsen refrigerator units also have an off-cycle defrost, at which time the control will read defrost is temperature terminated and can last from 3 - 20 minutes (dEF will be displayed for 20-37 minutes time).

VII. n - SETTING THE DEFROST LOCKOUTS:

The defrost lockout parameters allow the customer to prevent the unit from going into a defrost cycle for two hours during a set time frame. Customers can set up to four defrost lockout parameters. They are all programmed the same way. The parameters will be set for the time the lockout is to start. The controller automatically calculates 2 hours from that setting. The options are similar to the 24-hour clock settings and are in 30-minute increments. Each of the lockout parameters covers 6 hours of the 24-hour clock. Note: The 24-hour clock must be set for this feature to operate at the correct time of day. See "Setting the 24-Hour Clock" on page 11.

Sample:	dL I	<u>8</u> .2	dL3	╝╴┨
	OFF 020 = 2:00 a.m. 023 = 2:30 a.m. 030 = 3:00 a.m. 033 = 3:30 a.m. 040 = 4:00 a.m. 043 = 4:30 a.m. 050 = 5:00 a.m. 053 = 5:30 a.m. 060 = 6:00 a.m. 063 = 6:30 a.m. 070 = 7:00 a.m. 073 = 7:30 a.m. 080 = 8:00 a.m.	OFF 080 = 8:00 a.m. 083 = 8:30 a.m. 090 = 9:00 a.m. 093 = 9:30 a.m. 100 = 10:00 a.m. 103 = 10:30 a.m. 110 = 11:00 a.m. 113 = 11:30 a.m. 120 = 12:00 p.m. 123 = 12:30 p.m. 130 = 1:00 p.m. 133 = 1:30 p.m. 140 = 2:00 p.m.	OFF 140 = 2:00 p.m. 143 = 2:30 p.m. 150 = 3:00 p.m. 153 = 3:30 p.m. 160 = 4:00 p.m. 163 = 4:30 p.m. 170 = 5:00 p.m. 173 = 5:30 p.m. 180 = 6:00 p.m. 183 = 6:30 p.m. 190 = 7:00 p.m. 193 = 7:30 p.m. 200 = 8:00 p.m.	OFF 200 = 8:00 p.m. 203 = 8:30 p.m. 210 = 9:00 p.m. 213 = 9:30 p.m. 220 = 10:00 p.m. 230 = 11:00 p.m. 230 = 11:30 p.m. $240^* = 12:00 \text{ a.m.}$ $240^* = 12:30 \text{ a.m.}$ 010 = 1:00 a.m. 013 = 1:30 a.m. 020 = 2:00 a.m.
			D	EIIULES IIUL AVAIIAULE.

A lockout can not be programmed to start at 12:00 am or 12:30 am due to conflicts with other internal programs. The defrost lockouts can not be programmed to run back-to-back. For example, if dL1 is set to 080, then a defrost cycle would be locked out from 8:00 am to 10:00 am. Because of the dL1 setting the dL2 parameter would not let the user choose a lockout start time before 10:30 am. All lockouts are preset at the factory to OFF.

Follow the instructions to enter the customer access code on page 9. When the control

VII. o - ADJUSTING THE DRAWER PERIMETER HEATERS:

This parameter allows the customer to turn ON and OFF the anti-condensate door/drawer perimeter heaters. This parameter is set to the highest setting (100) at the factory so that the door/drawer heaters stay on continuously. If you choose to have the door/drawer heaters cycle on and off, lower this parameter to approximately 30. If condensation forms around the door/drawers, increase the parameter until condensation stops. The exact setting will vary depending on ambient conditions.

VII. p - ADJUSTING THE ROOM TEMPERATURE OFFSET:

The room temperature offset parameter allows a service technician or end user the ability to have the display show a temperature that is within three degrees of the actual temperature being read by the cabinet air sensor. This allows for continuity of reading between different temperature reading devices. (i.e.: thermistor vs. thermocouple vs. handheld thermometer) This parameter is preset at the factory to "-2.5°F".

Follow the instructions to enter the customer access code on page 8. When the control displays
Thermostat Set High, press the down arrow key until the control display reads
Room Temperature Offset. Press the set button SET. Use the arrow keys 💟 💭 to adjust the offset to your
desired setting. When the display shows the offset you want press the set button (SET). The display will then read
Room Temperature Offset. You can use the up or down arrow keys to scroll to the next param-
eter or press the alarm cancel button to

VII. q - SETTING THE AUDIBLE ALARM STYLE:

These parameters will allow the customer to turn on/off the audible alarm feature on the INTELA-TRAUL° control. The audible alarm is preset from the factory to OFF. The customer can choose between an audible alarm that sounds for 3 seconds then automatically turns off, or a continuous audible alarm that must be manually acknowledged. Regardless of this feature's setting, visual alarm text will display when conditions warrant.

To adjust this setting, follow the instructions to enter the customer access code on page 8. When the control displays

VII. r - VIEWING SENSOR TEMPERATURES:

These parameters allow a service technician or customer to view the temperature of all sensors within the unit. The temperatures cannot be adjusted.

Follow the instructions to enter the customer access code on page 8. When the control displays Thermostat Set Point

to exit.

-16-

VIII. WIRING DIAGRAM

Note: Refer to the wiring diagram below (applies to refrigerators and freezers units) for any service work performed by a qualified technician.

IX. TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE SOLUTION
1. Condensing unit fails to start.	a. Check if cord & plug has been disconnected. b. Clean Condenser
2. Condensing unit operates for prolonged periods or continuously.	 a. Are doors closed properly? b. Dirty condenser or filter. Clean properly. c. Evaporator coils iced. Needs to defrost. See instructions for setting a manual defrost cycle p. 13.
3. Food Compartment is too warm. (NOTE: Compressor may be cycling ON/OFF frequently)	 a. Check door(s) and gasket(s) for proper seal. b. Check if a large quantity of warm food was recently added or the door was kept open for a long period of time. c. Microprocessor Control setting is too high. Readjust per instructions on p. 9 and 10. d. Clean Condenser
4. Food Compartment is too cold.	 a. Check if a large quantity of very cold or frozen food has recently been added. Allow adequate time for the cabinet to recover its normal operating temperature. b. Adjust the microprocessor control to warmer setting. Readjust per instruction on p. 9 and 10.
5. Condensation on exterior surface.	 a. Check door(s) alignment and gaskets for proper seal. b. Condensation on the exterior surface of the unit is perfectly normal during periods of high humidity. c. Check perimeter heat setting and increase setting if <100 (see section VII).
6. Compressor hums & does not start.	a. Call for service.

X. SERVICE ASSISTANCE

X. a - <u>SERVICE INFORMATION</u>:

Before calling for service, please check the following:

Is the electrical cord plugged in?

Is the fuse OK or circuit breaker on?

Clean condenser coil

Is the power switch on?

Reset microprocessor control values to factory defaults.

If after checking the above items and the unit is still not operating properly, please contact an authorized Traulsen service agent. A complete list of authorized service agents was provided along with your Traulsen unit. If you cannot locate this, you may also obtain the name of a service agent from the Tech Service page of our website: www.traulsen.com. If service is not satisfactory, please contact our in-house service department at:

Traulsen & Co., Inc. 4401 Blue Mound Road Fort Worth, TX 76106 (800) 825-8220

Traulsen & Co., Inc. reserves the right to change specifications or discontinue models without notice.

X. b - SPARE PARTS INFORMATION:

To purchase replacement parts or to speak to service support for Traulsen and most Hobart Refrigeration units please contact our Ft. Worth facility by phone at 800-825-8220 or fax to 817-740-6748 (parts) or 817-740-6757 (service).

To source parts locally follow instructions below for nearest location:

- 1. Log onto www.traulsen.com
- 2. Select Service Directory (top of screen)
- 3. Select Locate Parts (left side of screen)
- 4. Click on State desired

To source service support locally follow instructions below for nearest authorized service agent:

- 1. Log onto www.traulsen.com
- 2. Select Service Directory (top of screen)
- 4. Click on State desired

Note: When calling for spare parts or service support, please make sure you have model and serial number of unit available.

X. c - WARRANTY REGISTRATION:

The warranties for your new Traulsen unit may be registered with us by contacting our Ft. Worth facility by phone at 800-825-8220 or you may register on line:

- 1. Log onto www.traulsen.com
- 2. Select Service Directory (top of screen)
- 3. Select Warranty Registration Form (left side of screen)
- 4. Fill out information requested
- 5. Select Submit to complete unit warranty registration

XI. WARRANTIES

STANDARD DOMESTIC WARRANTY

TRAULSEN & CO., INC. warrants new equipment to the original purchaser, when installed within the United States against defective material and workmanship for one (1) year from the date of original installation. Under this warranty, **TRAULSEN & CO.,** INC. will repair or replace, at its option, including service and labor, all parts found to be defective and subject to this warranty. The **compressor** part is warranted for an additional four (4) years. During this period **TRAULSEN & CO., INC.** will supply replacement compressor (s) if deemed defective, however, all installation, recharging and repair costs will remain the responsibility of the owner.

This warranty does not apply to damage resulting from fire, water, burglary, accident, abuse, misuse, transit, acts of God, terrorism, attempted repairs, improper installation by unauthorized persons, and will not apply to food loss.

For **Traulsen** units purchased with a remote feature, standard warranty will apply only to those components contained within the unit to the point of connection of the refrigeration lines leading to the remote compressor.

THERE ARE NO ORAL, STATUTORY OR IMPLIED WARRANTIES APPLICABLE TO **TRAULSEN**, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. TRAULSEN SHALL HAVE NO OBLIGATION OR LIABILITY FOR CONSEQUENTIAL OR SPECIAL DAMAGES, GROWING OUT OF OR WITH RESPECT TO THE EQUIPMENT OR ITS SALE, OPERATION OR USE, AND TRAULSEN NEITHER ASSUMES NOR AUTHORIZES ANYONE ELSE TO ASSUME FOR IT ANY OBLIGATION OR LIABILITY IN CONNECTION WITH THE EQUIPMENT OR ITS SALE, OPERATION OR USE, OPERATION OR USE OTHER THAN AS STATED HEREIN.

MICROPROCESSOR CONTROL WARRANTY

TRAULSEN, warrants to the original purchaser of the microprocessor control when installed as part of the Refrigeration/Hot Food Equipment manufactured and sold by **TRAULSEN**, to be free of defects in material and workmanship under normal service and use for a period of two (2) years from the date of installation. Under this warranty statement, **TRAULSEN** will repair or exchange at **TRAULSEN'S** discretion, F.O.B. factory, any part of said control, which proves to be defective. Inspection by the **TRAULSEN** Service Department of parts claimed defective shall be final in determining warranty status. The warranty is to include repair or exchange of any defective In-Warranty control or part (s) of said control for:

Part (s) – Any TRAULSEN microprocessor control supplied part (s) found to be defective.

Labor – The labor charges from a TRAULSEN Certified Service Agent to effect the repair or exchange of the defective part(s).

"Defective Part Return" – All claimed defective part(s) must be returned to **TRAULSEN** for defect validation within 30 days from the date of the repair. Failure to return all claimed defective part(s) to **TRAULSEN** will invalidate the warranty claim, this warranty statement, and forfeit payment for those repairs effected.

This warranty does not apply to damage resulting from fire, water, burglary, accident, abuse, misuse, transit, acts of God, terrorism, attempted repairs, improper installation by unauthorized persons, and will not apply to food loss, and will not apply if said equipment is located outside The United States.

INTERNATIONAL COMMERCIAL WARRANTY

(for Canadian warranties see domestic US warranty)

TRAULSEN & CO., INC. warrants to the original purchaser the Refrigeration Equipment manufactured and sold by it to be free from defects in material and workmanship under normal use and service for a period of one (1) year from date of shipment. Under this warranty, TRAULSEN & CO., INC. will reimburse the purchaser for the replacement of any part of said equipment (excluding dryers & refrigerant gas) which then proves to be defective. This warranty does not apply to damage resulting from fire, water, burglary, accident, abuse, misuse, transit, acts of God, terrorism, attempted repairs, improper installation by unauthorized persons, and will not apply to food loss.

TRAULSEN'S standard warranty does not apply to Export Sales. Rather, for a period of one (1) year from date of original installation not to exceed Fifteen (15) months from date of shipment from factory, TRAULSEN:

will replace, F.O.B. factory, any defective parts normally subject to warranty.

will not cover the cost of packing, freight or labor such costs being the sole responsibility of the dealer/end user.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED AND CONSTITUTES TRAULSEN'S FULL OBLIGATION AND LIABILITY. WARRANTIES NOT AVAILABLE ON REMOTE MODELS.

XII. SERVICE PARTS LIST

NOTE: Part numbers listed are for standard products as currently manufactured. For products manufactured as other than standard, please contact the factory.

ITEM	DESCRIPTION	PART NUMBER
CASTER	ALL MODELS	
	6" ADJUSTABLE CASTER NO LOCK	SER-60538-00
	6" ADJUSTABLE CASTER WITH LOCK	SER-60538-01
LEG	ALL MODELS	
	6" LEG	SER-60542-00
DOOR	ALL MODELS	
	DOOR ASSEMBLY, HINGED LEFT	200-60593-00
	DOOR ASSEMBLY, HINGED RIGHT	200-60593-01
	DOOR GASKET	341-60197-00
REF DRAWER	2 DRAWER 6" DEEP PAN	
	DRAWER ASSEMBLY	550-10108-00
	DRAWER FACE ASSEMBLY	550-10114-00
	DRAWER FRAME ASSEMBLY	550-10104-00
	DRAWER FRAME INSERT	SER-60539-00
	DRAWER GASKET	341-60176-07
	DRAWER ROLLER	344-60155-00
REF DRAWER	3 DRAWER 4" DEEP PAN	
	DRAWER ASSEMBLY	550-10098-00
	DRAWER FACE ASSEMBLY	550-10099-00
	DRAWER FRAME ASEMBLY	550-10104-00
	DRAWER FRAME INSERT	SER-60541-00
	DRAWER GASKET	341-60176-06
	DRAWER ROLLER	344-60155-00
SHELF	MODEL TU044	
	SHELF, CHROME, 1 SECTION	340-60230-01
SHELF	MODEL TU072 & TU100	
	SHELF, CHROME 2 & 3 SECTION, LH	340-60231-02
	SHELF, CHROME 2 & 3 SECTION, RH	340-60231-03
SHELF	MODEL TU100 (CENTER SHELF)	
	SHELF, CHROME, 3 SECTION, CENTER	340-60232-01
LOUVER	ALL MODELS	
	LOUVER PANEL	500-70081-00
MICROPROCESSOR	ALL MODELS	
	MICROPROCESSOR CONTROL HEAD	337-60403-00
	MICROPROCESSOR CABINET TEMPERATURE SENSOR	337-60405-01
	MICROPROCESSOR COIL TEMPERATURE SENSOR	337-60406-01
	MICROPROCESSOR LIQUID LINE TEMPERATURE SENSOR	337-60407-01
	MICROPROCESSOR RELAY MODULE	337-60317-00

NOTES:

HOURS OF OPERATION: Monday thru Friday 7:30 am - 4:30 pm CST

Traulsen 4401 Blue Mound Road Fort Worth, TX 76106 Phone (800) 825-8220 Fax (817) 740-6757 Website: www.traulsen.com

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