R & A Series Reach-In & Roll-In Refrigerators
R & A Series Pass-Thru & Roll-Thru Refrigerators
R & A Series Reach-In & Roll-In Freezers
R & A Series Reach-In Refrigerator/Freezers
R & A Series Reach-In & Roll-In Hot Food Cabinets
R & A Series Pass-Thru & Roll-Thru Hot Food Cabinets

This Traulsen unit is built to our highest quality standards. We build our refrigerators, freezers and heated cabinets 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, however, call us on our toll free number, 800-825-8220 between 7:30 am and 4:30 pm CST, Monday thru Friday. 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:		

### **TABLE OF CONTENTS**

I. THE SERIAL TAG			
II. RECEIPT INSPECTION			Page 8
III. INSTALLATION			Page 9
a-Location			Page 10
b-Packaging			Page 10
c-Installing Legs			Page 11
d-Shelf Pins			Page 11
e-Roll-In Model Iı			Page 12
f-Attaching Doub			Page 12
g-Installing The C			Page 13
h-Remote Installa			Page 13
i-Cord & Plug			Page 14
j-Power Supply			Page 15
k-Wiring Diagram			Page 15
I-Clearance			Page 16
IV. OPERATION			Page 17
a-Refrigerators			Page 18
b-Freezers			Page 18
c-Hot Food Cabir			Page 19
V. CARE & MAINTENANC			Page 19
a-Cleaning The (			Page 20
b-Hinge Replace	ı aye o	a-mort ood onks - talling the officer a on	Page 20
c-Replacing The Gaskets	Page 6	v-Hot Food Units - Temperature Adjustment	Page 20
d-Cleaning The Exterior	Page 6	VIII. TROUBLE SHOOTING GUIDE	Page 21
e-Cleaning The Interior	Page 6	XI. SPARE PARTS LIST	Page 22
f-Adjusting The Shelves	Page 6	XII. STAINLESS STEEL OVERVIEW	Page 23
g-Replacing The Light Bulb	Page 7	XIII. CARE OF STAINLESS STEEL	Page 23-24
VI. OTHER		XIV. CORROSION REMEDIES	Page 24
a-Service Information	Page 7	XV. WARRANTY INFORMATION	Page 25
b-Spare Parts	Page 7	XVI. INDEX	Page 26
c-Warranty Registration	Page 7		



SERIAL MODEL
VOLTS Hz PH

TOTAL CURRENT AMPS
MINIMUM CIRCUIT AMPS
MAXIMUM OVERCURRENT PROTECTION AMPS
LIGHTS WATTS
HEATERS AMPS

REFRIGERANT TYPE OZ
DESIGN PRESSURE HIGH LOW

REFRIGERANT TYPE OZ DESIGN PRESSURE HIGH LOW

370-60294-00 REV (A)



### I. THE SERIAL TAG

The serial tag is a permanently affixed sticker on which is recorded vital electrical and refrigeration data about your Traulsen product, as well as the model and serial number. This tag is located in the upper right interior compartment on all reach-in/pass-thru and roll-in/roll-thru refrigerator, freezer and dual-temp models. For hot food models, this tag is located on the top of the unit behind the louvers to protect it from the heat.

### **READING THE SERIAL TAG**

- Serial = The permanent ID# of your Traulsen
- Model = The model # of your Traulsen
- Volts = Voltage
- Hz = Cycle
- PH = Phase
- Total Current = Maximum amp draw
- Minimum Circuit = Minimum circuit ampacity
- Lights = Light wattage
- Heaters = Heater amperage (Hot Food units only)
- Refrigerant = Refrigerant type used
- Design Pressure = High & low side operating pressures and refrigerant charge
- Agency Labels = Designates agency listings

### II. RECEIPT INSPECTION

# III. INSTALLATION (continued)

All Traulsen and are free care has bee against dama carefully sec strapped ins attached to t protected by You should damage duri should save the carrier's E should be file noted during the respectiv condition ma without firs authorization

instructions, in their ssemble and remove e diagonal or upper ould cause personal

.

open the doors and that holds the two

ill now be loose and ly permit the ceiling

while supporting the s not fall (see figure ace, the remaining brace - then discard. on of the unit.

### III. a - LOCATION:

Select a proper location for your Traulsen 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  $120^{\circ}$  (self-closing feature operates up to  $90^{\circ}$ ). The door(s) must be able to open a minimum of  $90^{\circ}$  in order to make use of the maximum clear door width available.

### III. b - PACKAGING:

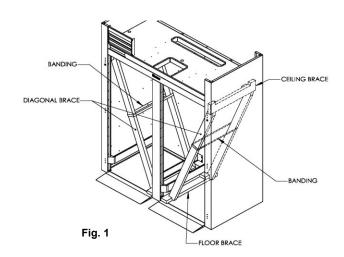
All Traulsen units are shipped from the factory bolted to a sturdy wooden pallet and packaged in a durable cardboard container. The carton is attached to the wooden skid with the use of large staples. These should first be removed to avoid scratching the unit when lifting off the crate.

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 service, 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 3/4" 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 down on its front, side or back. However, if you must please be certain to allow the unit to remain in an upright position afterwards for 24 hours before plugging it in so that the compressor oils and refrigerant may settle.

Roll-Thru models also include special interior wood bracing, intended to protect the cabinet during shipment. This bracing should under no circumstances be removed prior to the unit being installed in its final location.



### III. c - INSTALLING LEGS OR CASTERS:

6" high stainless steel legs are supplied standard for all Traulsen reach-in and pass-thru units. Casters in lieu of legs are available as an optional accessory for the same models. These are shipped from the factory packed inside a cardboard box which is strapped to one of the shelves. Remove the nylon strap and open the box, it should contain either four (4) legs or four (4) casters and sixteen (16) bolts.

WARNING: THE CABINET MUST BE BLOCKED AND STABLE BEFORE INSTALLING LEGS OR CASTERS.

To install the legs or casters, first raise and block the reach-in a minimum of 7" from the floor. For installing legs, thread the legs into the threaded holes on the bottom of the cabinet (see figure 2). Be certain that all legs are tightly secured (legs and casters should be tightened to 300 inch/pounds, max). When the unit is set in its final position, it is important for proper operation that the unit be level. The legs are adjustable for this purpose, turn the bottom of the leg counterclockwise to raise it, clockwise to lower it. Level the unit from front to back as well as side to side in this manner, using a level placed in the bottom of the -2- cabinet.

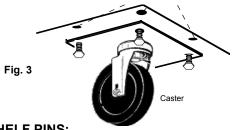
### III. INSTALLATION (continued)

### III. c - INSTALLING L



RAI

Please note that Tra moved while on leg pallet jack or forklift For installing casters require the use of f firmly to the cabinet 3). The caster bolts wrench.



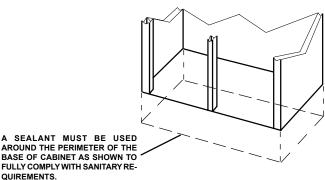
### III. d - SHELF PINS:

The unit is supplied with shelves and shelf pins installed. Check all shelf pins to assure they are tightened down as they may have come loose during shipping. Rotate the pins clockwise until they are secured against the side of the cabinet.

### III. e - ROLL-IN MODEL INSTALLATION:

Roll-In cabinets set on the floor require the floor area to be flat and level. In addition, after the cabinet is set in place, sealant should be used around the perimeter of the base to comply with National Sanitation Foundation requirements (see figure 4). After sealing the unit, the enclosed ramp should then be installed.

### SEALING BASE OF ROLL-IN MODELS



A RECOMMENDED SEALANT IS DOW CORNING SILASTIC RTV #732

Fig. 4

A stainless steel threshold ramp(s) is included to

nt'd):
ped in brown
inside the
e two thumb
ottom door
ocated along
(s) on top of
abs on each
s previously
so should be

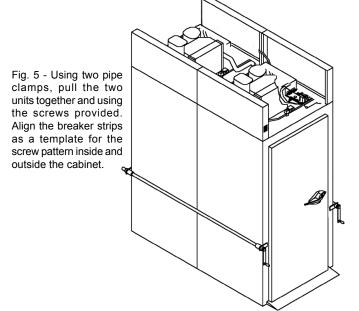
oll-in models make them nents of the

### TOGETHER:

pped as two hed together ace the front

and rear capinets in close proximity to each other being careful to align the drain from the front of the rear unit to the drain of the front unit. It will be necessary to level both units together at this time.

Next, using two pipe clamps, pull the units together (see figure 5). Install the covers over the gap formed between the units From inside the cabinets, using the screws provided, install the breaker strips using the strip as a template.



### III. g - INSTALLING THE CONDENSATE EVAPORATOR:

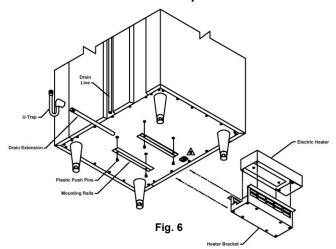
A condensate evaporator is normally supplied on all self-contained models (remote models require provision of either a floor drain or an optional electric condensate evaporator). On those models supplied with a top-mounted evaporator coil compartment, the condensate evaporator is also secured to the top of the cabinet. Check that the condensate pan is properly located underneath the drain tube.

### III. INSTALLATION (continued)

III. g - INSTAI NOTE: Som temperature bottom-mou is shipped in interior, and (see instruevaporator).

After the ca casters attac electric cond on the exteri Then, using tach the mot flange is to be Next, place t enclosed spr placed on the mounting rai heater on on

the cabinet exterior pottom towards the front (see figure 6). Screw the "U-Trap" on to the drain line located on the rear of the cabinet and then screw the drain extension into the "U-Trap."



NOTE: The use of the "U-TRAP" supplied is required. Failure to use this component may allow cold air to migrate down the drain line, resulting in condensation on the rear of the cabinet.

A remote model is normally supplied configured for condensate to be run to a floor drain unless purchased with a condensate evaporator. The installer is responsible for making the required extension to the floor drain in accordance with good practice and local regulations.

#### III. h - REMOTE INSTALLATION:

Remote models are supplied without compressors, solenoid valves, etc. The correct voltage, amp listing and refrigerant are listed on the units serial tag. It is the responsibility of the installer to specify and supply the correct size compressor(s) based upon this information and on-site requirements. Refrigerant line installation

nt'd):

good practice and good practic

pplied with a cord & ed at the top of the For your safety and th a cord and plug unding plug on the lelectrical outlet with NOTE: Do not under the round grounding ension cord.

checked prior to per voltage for the to the serial tag to

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 overcurrent protector in circuit (see amperage requirements on the unit's serial tag).

### III. k - WIRING DIAGRAM:

Refer to the wiring diagram for any service work performed on the unit. Should you require one, please contact Traulsen Service at (800) 825-8220, and provide the model and serial number of the unit involved.

### III. I - CLEARANCE:

In order to assure optimum performance, the condensing unit of your Traulsen unit MUST have an adequate supply of air for cooling purposes. Therefore, the operating location must either have a minimum of 12" clearance overhead of the condensing unit or allow for unrestricted air flow at the back of the unit. Clearance of at least 12" above is required in order to perform certain maintenance tasks.

### IV. OPERATION

IV. a - <u>REFRIGERAT(</u>
Both refrigerators a defrosting. During continuosly circulate the coil. A compress melt any frost which r compressor "ON" cyc this occurs. With standhumidity is also maint product.

### IV. b - FREEZERS:

During normal operation below freezing cabinet periodic defrosting for by an automatic, time a defrost program. The equally spaced defrost

At the start of a freeze and evaporator fans are

read "dEF" (see figure *t*). The electric neater (attached to the coil) is energized. When a temperature device affixed to the coil senses 70°F (models with electric defrost), the coil is fully defrosted and the compressor operation is resumed, defrost heaters are automatically turned off. The coil fans are delayed from starting at the termination of a defrost cycle. Fan operation is automatically resumed, or they can also be started by a time or temp delay (whichever comes first). In case of temp delay, it uses the same coil sensor and starts at 32°F. The total refrigeration system operation is then resumed.





Fig. 7

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 controls 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 INTELA-TRAUL® control is set from the factory to terminate defrost at 20 minutes in the event of a sensor failure. This setting should never be tampered with, without first consulting the factory.

ned by the the ON/OFF can bet set to en 120 - 180°

factory with Follow the

all hot food and secured this vent is

CE

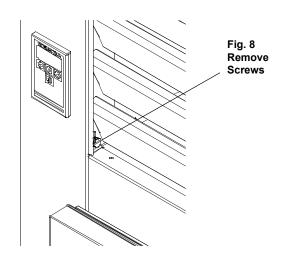
SUPPLY THE UNIT

### V. a - CLEANING THE CONDENSER:

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

The condensing unit requires regularly scheduled cleaning to keep the finned condenser clean of lint and dust accumulation. The INTELA-TRAUL control will notify you through a "CLN-FIL" message when cleaning is necessary (see page 8). Keeping the condenser clean allows the cabinet to operate more efficiently and use less energy.

To clean the condenser, first disconnect electrical power to the cabinet and lift up the front louver assembly. To lift this, remove the two screws located on both sides at the bottom of the louver assembly (see figure 8).



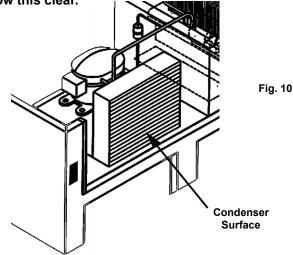
# V. CARE & MAINTENANCE (cont'd)

V. a - <u>CLEAN</u> Once the scr upwards all condenser (s

ed, grasp it firmly by ttempting to install a jasket itself must be our corners first by ith a block of wood). Ited, work your way by gently hitting with itely seated in place cement).

F Lift-Up Lo Asser

Vacuum or b condenser c..., .... system parts (see figure 10). If significant dirt is clogging the condenser fins, use compressed air to blow this clear.

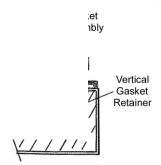


Lower louver assembly and replace the screws to hold it in place.

### V. b - HINGE REPLACEMENT:

Both the door and hinge can be easily removed from the cabinet. To remove the door, remove the plug at the bottom of the top hinge. Inside the hinge there is a small screw which secures the door in place. Remove this with a flat head screwdriver and the door can then be lifted off the hinge. To remove the door portion of the hinge from the door, lift off the hinge cover and then remove the three Phillips head screws which secure the hinge in place on the door. To remove the cabinet portion of the hinge, remove the three Phillips head screws which hold it in place. On solid door units, the top hinge(s) contains a microswitch for controlling the interior lighting.

To reassemble the hinge reverse the previous procedure.



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

#### V. d - CLEANING THE EXTERIOR:

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, 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 spills, use baking soda and water (mixed to a 1 TBSP baking soda to 1 pint water ratio).

### V. e - <u>CLEANING THE INTERIOR</u>:

For cleaning both stainless steel and anodized aluminum interiors, the use of baking soda as described in section "V. d" is recommended. Use on breaker strips as well as door gaskets. All interior fittings are removable without tools to facilitate cleaning.

### V. f - ADJUSTING THE SHELVES:

For shelves mounted on pins, first select the desired location and remove the white plastic covers in the interior back and sides by rotating them counterclockwise. Remove the shelf pins by rotating them counter-clockwise. Install the pins in the desired location by rotating clockwise. Make sure the pin is securely tightened down. Do not over tighten. Slide the shelf into its new position, and replace the white plastic covers into the holes vacated by the shelf pins.

# V. CARE & MAINTENANCE (cont'd)

### **VI. OTHER**

V. g - REPLACING TI All Traulsen R & A incandecent lighti lighting was ordere models for which standard).

The bulb is a 115 verefrigerator lamp. It cabinet at the center, cover on refrigerator Heated units (RHF//are equipped with a shatterproof becaus plastic light cover.

To replace the bulb, equipped). This car together on both sid light bulb, then squ together and replace

e following:

1?

nit is still not authorized of authorized our Traulsen so obtain the Contact page

our in-house

4401 Blue Mound Road Fort Worth, TX 76106 (800) 825-8220

Traulsen reserves the right to change specifications or discontinue models without notice.

### VI. b - SPARE PARTS:

Spare or replacement parts may be obtained through a parts supplier or one of our authorized service agents. A complete list of authorized service agents accompanies this manual and is also posted on our company's official website @ www.traulsen.com.

### VI. c - WARRANTY REGISTRATION:

For your convenience, the warranties on your new Traulsen unit may be registered with us by one of two methods. Completing the enclosed warranty card (shipped with the unit).

# VII. The INTELA-TRAUL® Control System

Your new Tra art electronic and provides for use and position, see 9 thru 20 for

### VII. a - INTEL 1- Internal Ti

### Eliminate

- Defrost (
- Must be
- · Will auto



### 3- Parameter

• See "Cı

4- Defrost Lo ls only).

 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- Data Storage - The control comes equipped with 72 hours worth of data storage capability including:

- · Records cabinet air temperatures every 6 minutes, needed to document "Due Diligence" in accordance with HAACP standards.
- · Records alarm events.
- Records diagnostic test of each sensor every 24 hours.
- Records failed security attempts.
- Records door open cycles.
- Records defrost cycles (refrigerator and freezer models only).

Note: The 24-hour clock and the date must be set for the above information to be recorded at the correct time and date.

6- Communication Ability - An RS485 port port is available as a means of retrieving information from the stored data.

### 7- Anti-Condensate Door Perimeter Heater Control (refrigerator and freezer models only)

"No-Sweat" feature is an energy savings system that allows the customer to set the percent on time for the door heater as needed for the prevailing ambient conditions. It is used to prevent condensation from forming around the perimeter of the

### 8- Alarms (See the following pages for explanations)

- · High Cabinet Air Temperature
- Low Cabinet Air Temperature
- · Loss Of Power
- Sensor Failure

- System Leak (refrigerator, freezer & dual-temp models only)\*
- Door Open\*\*
- Clean Condenser (refrigerator and freezer models only)\*
  - \* Not Available On Remote Models
  - \*\* Not Available On Fire-Rated Or Sliding Glass Door Models



SET 🛆 **(0)** FREEZER











REFRIGERATOR

HI/LO-TEMPERATURE **ALARMS** 

**DOOR OPEN** ALARM

**POWER LOSS** ALARM

**CLEAN CONDENSER** NOTIFICATION

and burst or a audible alarm



y will read HI nit. The limit is off the audible splay until the elow the limit vice message

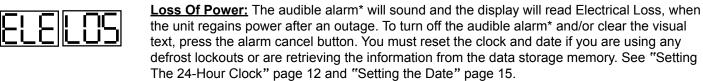


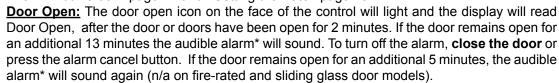
y will read **Lo** it. The limit is off the audible splay until the bove the limit

within 5 minutes, the audible alarm\* will sound again and an additional Call Service message will display.

### **POSSIBLE CAUSES (for Refrigerator & Freezer Models):**

- No product in unit.
- · Failed sensors.





**System Leak:** The audible alarm\* will sound and the display will read Call Service, when the control detects a leak in the refrigeration system. To turn off the audible alarm\*, press the alarm cancel button. The visual alarm text will remain until a service technician has repaired the unit. If the condition remains for 24 hours, the audible alarm\* will sound again.

### **POSSIBLE CAUSES:**

- · Low refrigerant charge.
- Discharge sensor has failed low.

**CONDENSERCLEAN™:** The audible alarm\* will sound and the display will read Clean Filter, when the operating pressures and temperatures exceed a safe operating range. As the load on the condenser decreases, the alarm will turn off by itself. As the pressures on the condenser continues to rise, the audible alarm\* will stay on for longer periods of time. To turn off the audible alarm\*, press the alarm cancel button. The visual alarm text will remain until the filter/condenser has been cleaned. If the condition remains for 24 hours, the audible alarm\* will sound again and visual display will read Call Service.

#### **POSSIBLE CAUSES:**

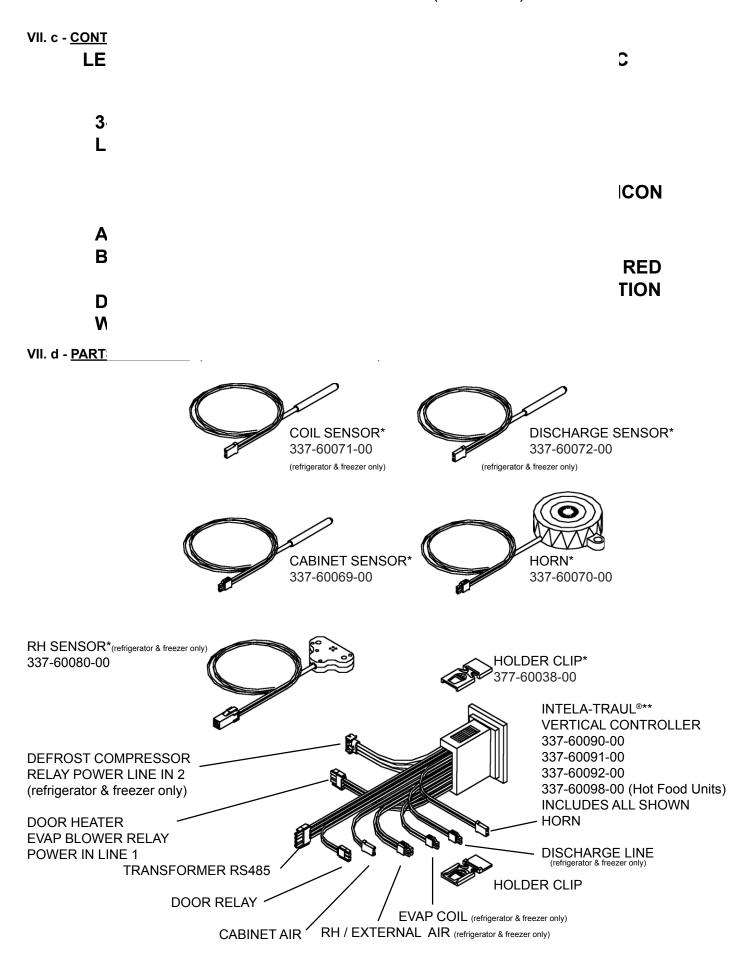
- Inadequate air flow through condenser unit.
- Discharge sensor has failed high.

<u>Sensor Failures:</u> The audible alarm\* will sound and the display will read Sensor Failure Call Service, when any of the unit sensors fail to operate. To turn off the audible alarm\*, press the alarm cancel button. The visual alarm text will remain until the sensor has been replaced. Depending on the function of the sensor, the audible alarm\* will sound again in either 5 minutes or 24 hours.

\*Not available on remote models.







<sup>\*=</sup> Can be ordered seperately

<sup>\*\*=</sup>Requires unit Model No. & S/N to place order.

# VII. e - NOTES TO THE You only have 20-30 states as the applications.

displaying the cabinet cabinet temperature. seconds.

revert back to displaying the waiting 20-30

### VII. f - ENTER THE C

Use the security c

Press the set butto

Press the set butto

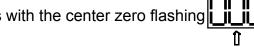
The display will sh

Press the set button SET



Ц

The display will show three zeros with the center zero flashing



Press the down arrow key



to sequence through F, E, d, C, b, A, 9, 8, 7,...etc.

When you reach A press set



The display will show zero, A, zero with the right zero flashing



Press the up arrow key



to sequence through 1, 2, 3, 4, 5, 6, 7, 8, 9, A, b,...etc.

When you reach 1 press set SET



The display will read



Thermostat Set Point High.

You are now in the CUSTOMER / SERVICE PARAMETERS.

VII. g - <u>Cl</u>	<u>US</u> 1			
Listed be	elo			ı arrow key on the
controlle	r. Y			S.
SPH	TI			
SPL	Т			
SCL	Te			
885	A			ion Factor*
	Ti			fset
<u> </u>	Date (month - day - year)*	EL	Evaporator Coil Sens	or
92	Daylight Savings *	dL	Discharge Line Senso	or
dL l	Defrost Lockout 1	58	Start Manual Defrost	

\*Available on Hot Food units.

### VII. h - ADJUSTING THE 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 will be at least 1-2 degree difference between the two settings.

Follow the instructions to enter the customer access code on page 11. When the control

display reads Thermostat Set Point High. Press the set button

Use the arrow keys 🔂 🖎 to adjust the temperature to your desired setting.

When the display shows the temperature you want press the set button SET



The display will then read Thermostat Set Point High.

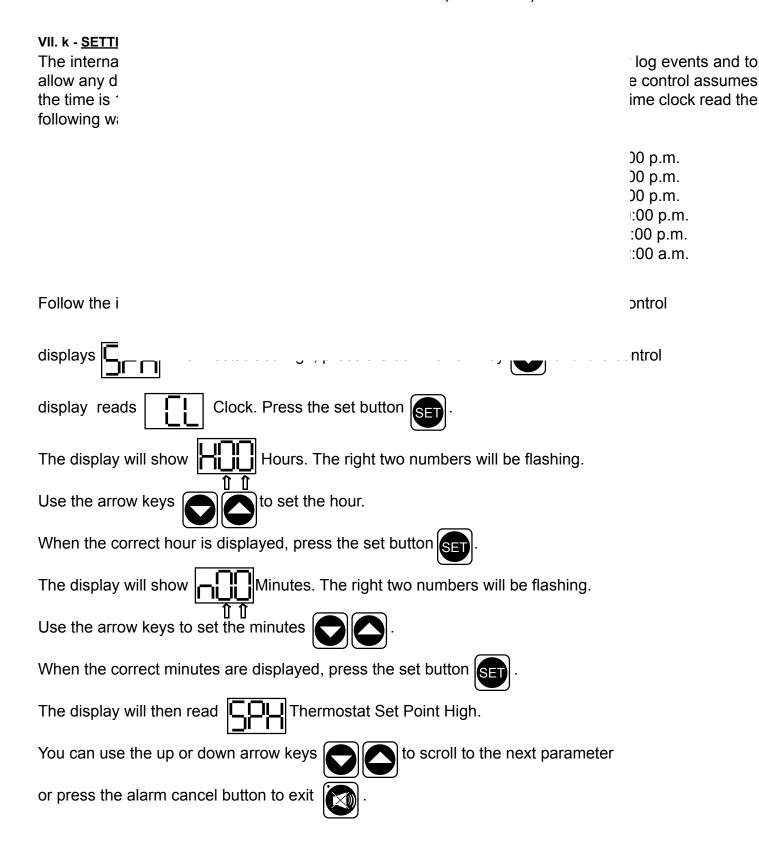
You can use the up or down arrow keys to scroll to the next parameter



or press the alarm cancel button to exit



VII. i - ADJUSTING T This parameter set from -6° F to -4° F parameter setting. customer chooses ture. There will be	's will range ° C) for this I unless the ne tempera-
Follow the instruct	
displays CPP -	
display reads 5	
Use the arrow key	
When the display	
The display will then read Thermostat Set Point High.	
You can use the up or down arrow keys to scroll to the next parameter	
or press the alarm cancel button to exit	
VII. j - CHANGING THE TEMPERATURE SCALE:	
The temperature scale determines if the temperature displayed will be in degrees	
Fahrenheit or degrees Celsius.	
Follow the instructions to enter the customer access code on page 11. When the control	
displays Thermostat Set High, press the down arrow key until the control	
display reads Temperature Scale. Press the set button .	
The display will start with the current setting either for degrees Fahrenheit	
or for degrees Celsius. Use the arrow keys to toggle between the opti	ions.
When the display shows the scale you want press the set button SET.	
The display will then read Thermostat Set Point High.	
You can use the up or down arrow keys to scroll to the next parameter	
or press the alarm cancel button to exit .	



# VII. I - <u>SETTING THE</u>

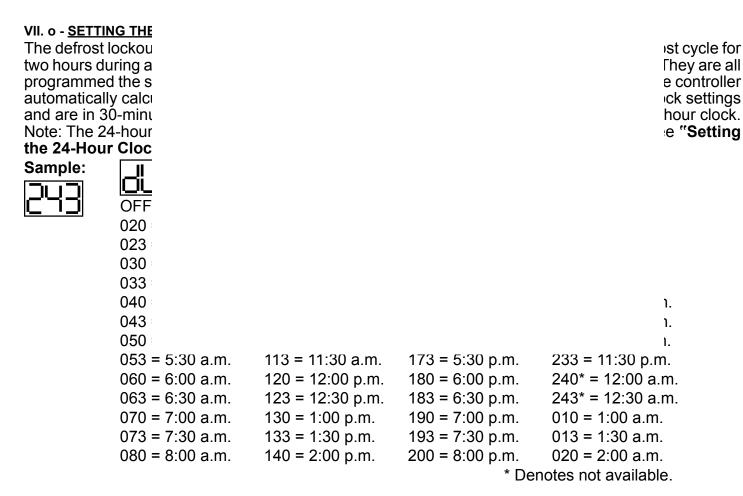
VII. 1 - <u>SETTING THE</u>	
The date must be	the instruc-
tions to enter the c	hermostat
Set Point High, pre	e. Press
the set button SEI	flashing.
Press the arrow ke	s the set
button SET . The	ing. Use
the arrow keys	:he set
button Fig. The display will show (day). The right two numbers will be flash	ning. Press
the arrow keys to set the day. When the correct day is displayed, press the	set button
The display will then read Thermostat Set Point High. You can use the	up or down
arrow keys to scroll to the next parameter, press the alarm cancel button to ex	cit .
VII. m - <u>SETTING DAYLIGHT SAVINGS TIME</u> :	
This parameter is preset at the factory to automatically adjust the 24-hour clock for Daylig	ght Savings
Time. Follow the instructions to enter the customer access code on page 11. When the	control
displace Thermostat Set Point High, press the down arrow key until the dis	splay reads
Daylight Savings Time. Press the set button . The display will show	니 Day-
light Savings Time (Yes, automatically adjust for Daylight Savings Time). For "YES," pr	ess the set
button for "NO" press the up or down arrow key. The display will read	d d
Daylight Savings Time (no). Press the set button . The display will read	Thermostat
Set Point High. You can press the the up or down arrow keys to scroll to the	next param-
eter or press the alarm cancel button to exit	

MIL TO OTA D'	
VII. n - STAR	aaramatar
This param	parameter
will override	
Follow the i	ntrol
displays	ntrol
display read	
Press the s	
The display	
Press eithe	
The display will show \( \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
Press the set button SET.	
The display will then read Thermostat Set Point High.	
You can use the up or down arrow keys to scroll to the next parameter	
or press the alarm cancel button to exit .	
Reach-In/Roll-In Models	
The defrost icon will be lit,  and the display will read  when the unit is  in defrost.	

**NOTE:** Traulsen refrigerator units also have an off-cycle defrost once an hour, at which time the control will read . This defrost is temperature terminated and can last from 3 - 10 minutes (dEF will be displayed for 22-27 minutes).

**DEFROST ICON** 

FREEZER



A lockout cannot be programmed to start at 12:00 a.m. or 12:30 a.m. due to conflicts with other internal programs. The defrost lockouts cannot 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 a.m. to 10:00 a.m. Because of the dL1 setting the dL2 parameter would not let the user choose a lockout start time before 10:30 a.m. All lockouts are preset at the factory to OFF.

Follow the instructions to enter the customer access code on page 11. When the control

displays Thermostat Set High, press the down arrow key until the control the control display reads or Press the set button The display will show of Off. Press the arrow keys to set the start time.

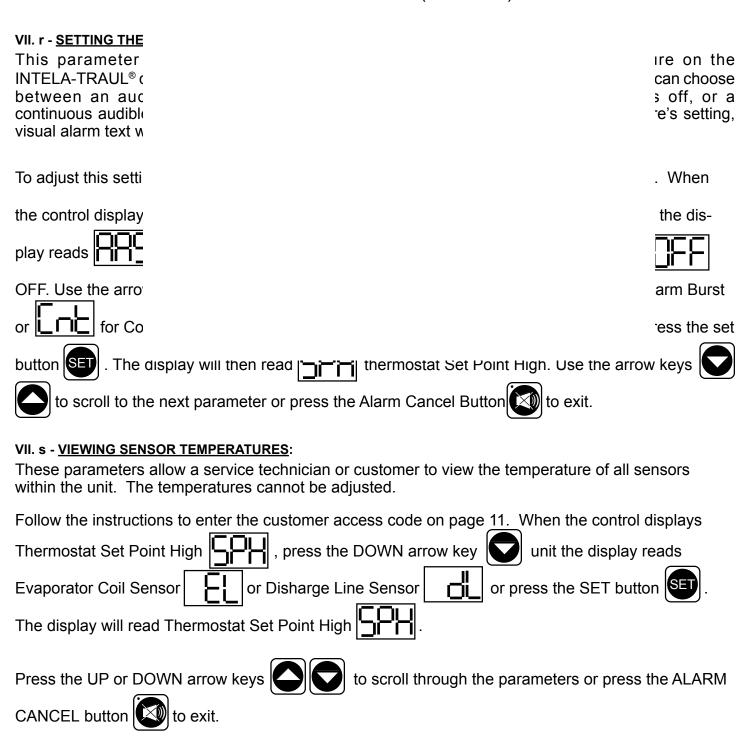
When the correct time is displayed, press the set button Fig.

The display will then read Thermostat Set Point High.

You can press the up or down arrow keys To scroll to the next parameter

or press the alarm cancel button to exit

VII. p - ADJU This param perimeter heaters. This param rs stay on continuously. If you approximately 30. If condensa 1 stops. The exact setting will ' ndercounter models. Follow the i introl displays lay reads DewPoint C adjust the fa nt press the set button SE can use the up or to scroll to the next parameter or press the alarm cancel button to exit VII. q - 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 "0" or no offset. Follow the instructions to enter the customer access code on page 11. 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 offset to your desired setting. When the display shows the offset you want press the set button SET Thermostat Set Point High. You can use the up or down arrow The display will then read to scroll to the next parameter or press the alarm cancel button to exit



e delivered
eads
aus
P I
e display
scroll to

### VII. u - HOT F

VII 4 HOTE

After the temperature has been set, the customer can continuously turn the unit OFF and then back ON to the same temperature. To turn the unit ON /OFF press the alarm cancel button (please note that this feature is not available on versions of the control manufactured prior to September 2000), or if an alarm warning condition is present, use the alternative ON/OFF activation method.

To turn the unit ON/OFF using the alternative method, press both arrows the set temperature will remain in memory.



### VII. u - HOT FOOD UNITS, TEMPERATURE ADJUSTMENT:

Press the **SET** button and the **UP ARROW** button at the same time. The display will flash the current temperature setting or **OFF** (if the unit is turned off). Use the **UP** or **DOWN ARROW** buttons to adjust your desired temperature setting (temperature range is 120° thru 180° F, and OFF) then press the **SET** button **SET**. The display will go back to reading cabinet temperature. If **OFF** is selected, the display will then read **OFF**. **NOTE**: If you wish to change the set temperature at anytime follow this procedure.

These models also include a "One-Time Temperature Setting Adjustment" feature. Upon start-up, the unit will warm-up to the last temperature you had set for it, unless changed.

# **VIII. TROUBLE SHOOTING GUIDE**

FIND YOU		
1. Condensing		.  -
2. Condensinç prolonged per		e
3. Food compa		
	c.	to recover its normal operating temperature. INTELA-TRAUL® setting too high, readjust per instructions on page 12.
4. Food compartment is too cold.	a. b.	Perhaps 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.  Adjust the INTELA-TRAUL® to a warmer setting, see page 13.
5. Condensation on the exterior surface.	a. b.	Check door alignment and gaskets for proper seal. Condensation on the exterior surface of the unit is perfectly normal during periods of high humidity. However, to alleviate the condition, adjust the INTELA-TRAUL® "Dewpoint Compensation Factor," see page 18.
6. Compressor hums but does not start.	a.	Call for service.

# **XI. SPARE PARTS LIST**

Bulb, Flı			models
Bulb, Inc			ht models
Bulb Co			ent light models
Caster, (			
Caster, 4			
Caster, 4			
Caster E			
Door Ha			S
Door Lo			s door model
Hinge C			
Hinge C			
Hinge, S			
Hinge A:			
Hinge A:			
Key, Ma			
Leg, 4" High Adjustable	344-29558-00	Replacement or optional leg	
Leg, 6" High Adjustable	344-13168-01	Replacement leg	
Shelf Pin	344-24759-00	Replacement shelf pin	
Shelf Clip	344-08982-00	Replacement shelf clip for pilasters	
Tray Slide, #4 Chrome Rod Type	340-04842-00	Tray slide for rim support of 18" x 26"	pan
Tray Slide, Universal	719-07805-00	Tray slide for 18" x 26", 14" x 18" or	12" x 20" pan
Tray Slide, #1	719-20236-00	Tray slide for 18" x 26" or 14" x 18"	pan

### XII. STAINLESS STEEL OVERVIEW

XII. a - INTRODUCTION
All Traulsen R & A
Temp and Heated Ca
a high quality 430
exterior finish (fron
finish on these same
using 300 series sta
used for A-Series).

The stainless steel fir retain its appearanc lifetime. However, so appearance. The for guideline on proper as well as some sug which has been mai conditions or improj

### XII. b - STAINLESS S The process by w appearance is a resu

a composite of metals combined in a specific industrial process. Stainless steel contains a high percentage of chromium, the addition of which provides both its appearance, and a microscopic surface layer protecting the steel underneath from corrosion. This external layer acts as a barrier, preventing typical oxidation of the steel. Remove this barrier, and the environment will eventually corrode the metal, marring its appearance.

### XII. c - <u>UNDERSTANDING THE CAUSES OF CORROSION</u>: Corrosion to stainless steel can only be caused in one of four specific ways:

### 1) ABRASION

Abrasion can be caused during routine cleaning of the metal, either by use of an abrasive cleanser, or use of an abrasive device, such as a metal scouring pad. Abrasion can also be caused by contact with other hard surfaces, such as nearby equipment, walls or tools. Special care should be taken to position your unit properly to prevent accidental dents and scratches.

#### 2) WATER

Water everywhere contains various deposits, or solids, which as the water drys or evaporates, can leave spots behind. The spots may eventually cause corrosion if not removed.

- 3) CHEMICALS OR WATER CONTAINING CHLORIDES Chlorides, such as found in water or many cleaning materials are especially corrosive to stainless steel. Daily janitorial duties, such a floor mopping, can splash water containing chlorinated cleansers against the front and sides of a Traulsen refrigeration product, resulting in corrosion. Avoid use of these on or around a Traulsen refrigeration product if at all possible.
- 4) PROLONGED CONTACT WITH FOOD PRODUCT Many food products, such as milk and carbonated sodas, contain acids which may damage the protective layer of stainless steel. All food and beverage spills

CORROSION: ssible stains

### **STEEL**

do much to refrigeration use of either or cleaning

nowever care done in the e metals are olid state the lines. Use of posite of the ARALLEL" to

There are several types of tools which should <u>NEVER</u> <u>BE USED</u> when cleaning stainless steel, these include:

- WIRE BRUSHES
- METAL SCOURING PADS
- SANDPAPER
- SCRAPERS & PUTTY KNIVES

Use of any of these tools will result in scratches or removal of the stainless steel's protective layer, which will eventually lead to corrosion and rust.

### XIII. b - <u>USING THE RIGHT CLEANSER</u>:

Avoid all cleaning products containing chloride ingredients. Use of a cleanser specifically designed for stainless steel is highly recommended. You may find yourself in a situation where you are uncertain if a particular cleaning product contains any chlorides. If unsure, its probably best to just assume that it does and avoid its use in cleaning a Traulsen refrigeration product.

Also to be avoided are cleaning products which contain "QUATERNARY SALTS." These salts can literally attack the stainless steel's protective layer, leading to corrosion and pitting of the steels surface.

After cleaning, it is important to always rinse the cleaned area thoroughly with cool, clean water (do not use hot water) and wipe completely dry using a paper towel or soft absorbent cloth.

Use of cleaning products designed for use on stainless steel, in conjunction with the proper tools, as outlined above will help retain the appearance of your Traulsen refrigeration product for years and years.

# XIII. CARE OF STAINLESS STEEL (cont'd)

XIII. c - CLEA To summar refrigeratio quidelines. DO use c stain not c DO use c as so DO clean DO scrut usinc DON'T use c conta

### XIII. d - <u>DEALI</u> In the daily rc

DON'T use a

whicl

Traulsen refrigeration product may occasionally come in contact with chlorinated cleaners, such as when being splashed during mopping. Stain and corrosion problems resulting from this can be avoided by prompt action to remove this cleanser. Rinse the affected area(s) thoroughly with cool, clean water (do not use hot water) and wipe completely dry using a paper towel or soft absorbent cloth.

XIII. e - <u>PROTECTING THE STAINLESS STEEL SURFACE</u>: Occasional use of a commercial stainless steel polish, such as "Sheila Shine," will help protect the surface of stainless steel. Follow the directions on the spray can for proper use.

### XIV. CORROSION REMEDIES

### XIV. a - DEALING WITH RUST AFTER THE FACT:

Although Traulsen strongly recommends proper care and cleaning of stainless steel finishes in order to avoid rust and corrosion before it occurs, we recognize that it may occur occasionally as a result of the causes described in section one of this booklet.

To remove small quantities of rust from the surface of stainless steel, it is far preferable to deal with this when it first becomes visible. When rust occurs, do not allow it to remain for any period of time, and remove it using the following method:

STEP ONE - Use a lightly abrasive compound (free of harmful chlorides), such as "Bon Ami," on a soft cloth, to remove the rust. Care must be taken to rub this on the area of rust only in the direction of the stainless steel's grain.

STEP TWO - Once the rust is removed, clean the affected area thoroughly with a stainless steel cleaner (see sections II. a & b).

### XIV. CORROSION REMEDIES

RTHE FACT (cont'd): ive polish, such as (see section II. e).

RUST SITUATIONS:

n were not dealt with can be remedied as

USE OF AN ACID
CTIVE GLOVES AND
RE PROCEEDING

combine water with 5 parts to 1 solution. he affected area with

no ancoted area with

wipe the same area nly to remove any

a light coat of "Zep

Restore" to the surface area. This will serve to preserve the metal and help prevent future rust from occuring.

STEP FIVE - Restore the remaining stainless steel surfaces to their original shine using "Zep Stainless Steel Polish."

Repeat steps one thru five if necessary for stubborn rust and corrosion areas.

### XIV. c - RESTORING THE PROTECTIVE LAYER:

There are several products available on the market today which can actually help restore the "PASSIVATION" of stainless steel. "PASSIVATION" refers to the protective qualities of the non-reactive surface layer of stainless steel which prevents oxidation. Contact your cleaning supplier for product recommendations and more information.

### XV. WARRANTY INFORMATION

TRAULSEN warra workmanship for including service additional four (4 installation, recha	ial and option, for an ver all
This warranty dos attempted repairs	·orism,
For Traulsen units the point of conne	unit to
THERE ARE NO TO, ANY IMPLIE	MITED TEND
BEYOND THE [	' FOR
CONSEQUENTIA	SALE,
OPERATION OR	T ANY
OBLIGATION OF STATED HEREIN	AN AS
TRAULSEN warr	t Food
Equipment manul	use for
a period of two (2),	Department of

Part(s) - Any TRAULSEN INTELA-TRAUL® 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 does not apply to food loss, and will not apply if said equipment is located outside The United States.

#### INTERNATIONAL COMMERCIAL WARRANTY

TRAULSEN 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 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.

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.

# XVI. INDEX

<b>A</b> Al Al			3 2
<u>B</u>			3 2 18
<u>c</u> c c c c c c c c c c c c c c c c c c			3 1 3, 6 3, 6 5
<u>D</u> D D D D			12 13 3
<u>E</u>			2
E			2
<b>G</b> Gaskets, Replacing The	6	Warranty Warranty, Registration Water Resistant Housing	25 7 8
<u>H</u> Hinge Replacement	6	Wiring Diagram	4
<u>I</u> Internal Time Clock INTELA-TRAUL	8 5, 8-20	Υ <u>z</u>	
<u>7</u>		<u> </u>	
<u>K</u>			
Legs, Installing The Light Bulb, Replacing The Light Cover Louver Assembly	2-3 7 7 5-6		
Manual Defrost Cycle	16		
<u>N</u>			
<u>o</u>			
Power Supply	4		