



OWNER'S MANUAL



Instructions for Installation, Operation, & Maintenance of all C Series Reach-In Refrigerators & Freezers*

*Please Note: This manual is intended for use with the above referenced equipment manufactured after February 1, 2026.

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Hours of Operation: Monday - Friday 7:30 a.m. - 4:30 p.m. (CST)



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I. THE SERIAL TAG

I. a - SERIAL TAG & LOCATION

The serial tag is a permanently affixed label 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 upper right interior compartment on all reach-in refrigerator and freezer models.

I. b - READING THE SERIAL TAG

- Model = The model # of your Traulsen unit
- (S/N) Serial Number = The permanent ID# of your Traulsen unit
- Refrigerant SYS1 = System 1 Refrigerant type used and refrigerant charge
- Design Pressure = System 1 High and Low Pressure
- Refrigerant SYS2 = System 2 Refrigerant type used and refrigerant charge
- Design Pressure = System 2 High and Low Pressure
- Volts = Voltage
- Hz = Cycle
- PH = Phase
- Total Current = Maximum amp draw
- Min Circuit Amps = Minimum circuit ampacity
- Lights = Light wattage
- Agency Labels = Designates agency listings
- Components = Component Ratings

Traulsen		ITW Food Equipment Group, LLC North American Refrigeration 4401 Blue Mound Rd. Ft. Worth, TX 76106 800-825-8220	
MODEL: MODELO: MODELE:	CLBM-49F-FS		
SERIAL NUMBER:	26A		SCAN FOR SERVICE INFO
REFRIGERANT / REFRIGÉRANTE / RÉFRIGÉRANT			
SYS1 (REFM):	R-290	4.20 OZ	119.05 g
Hi Press. (PRESH):		400.00 psi	2,757.90 kPa
Lo Press. (PRESL):		200.00 psi	1,378.95 kPa
SYS2 (REFA):	NA		
Hi Press. (PRESH):			
Lo Press. (PRESL):			
Input Power (ELIN) - FOR INDOOR USE ONLY			
Voltage	Hertz	Phase	Total Amps
115 ~	60	1	11.50
Device/Part Number: CLBM-49F-FS-LR		Device/Part Notes:	
   			
COMPONENTS / COMPOSANTS / COMPONENTES			
	1	2	MAX OVER CURRENT PROTECTION (A):
COMP AMPS:			MIN CIRCUIT IN AMPS:
COND FAN AMPS:			DOOR LIGHT WATTS: 4
EVAP FAN AMPS:			DISPLAY LIGHT WATTS:
CONTROL AMPS:			DOOR HEATER WATTS:
DEF HEATER WATTS:			B/TMCE HTR WATTS:
370-60297-00 REV. D 01/15/2024			

II. RECEIPT INSPECTION

II. a - 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. All interior fittings have been carefully secured and the casters/legs are boxed and strapped inside to prevent damage. Door keys will be attached to electric cord with nylon strip.

You should carefully inspect your unit for damage upon delivery. If damage is detected, you should save all the crating materials and make note on the carrier's Bill of Lading describing this. A freight claim should be filed immediately. If damage is subsequently noted during or immediately after installation, contact the respective carrier and file a freight claim. Under no condition may a damaged unit be returned to Traulsen without first obtaining written permission (return authorization). You may contact Traulsen customer care at (800) 333-7447 and select option 2 to request a return.

SYSTEMS USING REFRIGERANT R-290 (PROPANE)

Traulsen has selected propane as the refrigerant for many of their products. In addition to its low global warming potential and impact on the environment, propane is an ideal refrigerant. It is a flammable refrigerant, however, which is why you will see a "flammable refrigerant" sticker on applicable products. Traulsen products using propane as the refrigerant are UL approved and are safe to use in accordance with this Owner's Manual and general industry practices for commercial cooking environments. Please check with local codes or regulations for any restrictions to products using hydrocarbon refrigerants.

III. INSTALLATION

III. a - LOCATION

Select a proper location for your unit, away from extreme heat and allow proper clearance for air circulation. Allow enough clearance between the unit and the side wall in order to make use of the door stay open feature at 110° (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 available.

III. b - PACKAGING

All units are shipped from the factory bolted to a sturdy wooden pallet and packaged in a durable hexacomb cardboard panels.

Most exterior stainless steel and aluminum 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.

III. INSTALLATION (continued)

If possible, we suggest that the cabinet remain bolted to the pallet during all transportation to the point of final installation. To remove the wooden pallet, 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: DO NOT LAY THE UNIT ON ITS SIDE DURING TRANSPORTATION OR INSTALLATION.

III. c - INSTALLING LEGS OR CASTERS

A set of four (4) 4" high casters are supplied standard for all Reach-In units. These are shipped from the factory packed inside a cardboard box which is strapped inside the cabinet to the lower shelf.

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

The "Stem" casters are installed by threading them firmly into the cabinet bottom at each corner (see figure 1). For leveling, turn the casters counterclockwise to raise it, clockwise to lower it. Level the unit from front to back as well as side to side in this manner. The caster bolts are tightened using a 1/2" socket wrench.

Legs & 6" casters are available in lieu of 4" casters as an optional accessory kit for the same models. These are shipped inside a separate cardboard box containing four (4) casters/legs.

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. 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.

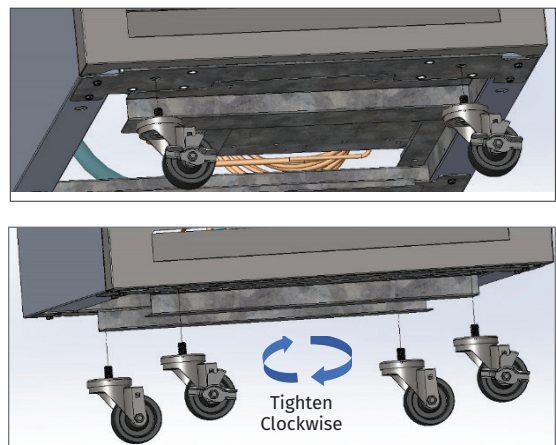


Fig. 1

III. INSTALLATION (continued)

III. c - INSTALLING LEGS OR CASTERS (cont'd)

Please note that the units are not designed to be moved while on legs. If the unit requires moving, a pallet jack or fork- lift should be used to prevent damage.

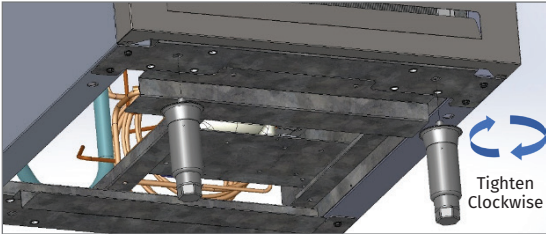
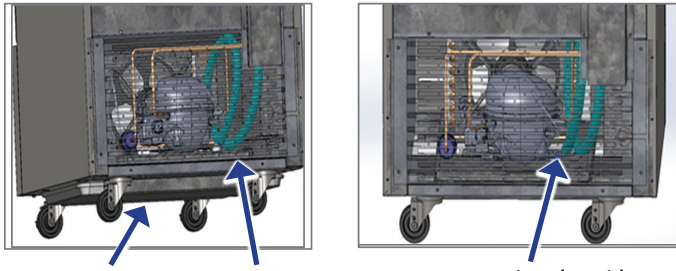


Fig. 2

III. d - INSTALLING DRAIN PAN

C Series uprights are shipped with the condensate pan (full-size sheet pan) wrapped up and stored inside the unit. Remove the condensate pan (full-size sheet pan) and slide it on the rails underneath the cabinet. Cabinet is shipped with the drain tube attached to the top as shown below. Ensure that the open end is routed to the drain pan.



Condensate pan sits on rails under the unit

Routed Drain Tubing

Fig. 3

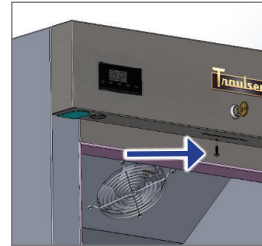
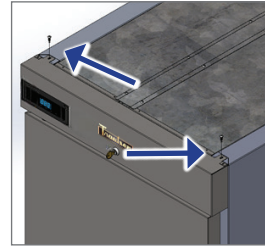
NOTE: DRAIN PAN IS DESIGNED TO HOLD AND EVAPORATE DEFROST CONDENSATE FROM THE CABINET. HOWEVER, DUE TO OTHER OPERATIONS LIKE FLOOR CLEANING WITH WATER JETS/SPRAYS, IT MAY GET FULL AND OVERFLOW. IN THOSE CASES, DRAIN PAN CAN BE SLIDED OUT AND EMPTIED TO PREVENT SLIP HAZARD.

III. e - SHELVES

The unit is supplied with shelves to be installed on shelf pins. Check all shelf pins to assure they are firmly in place as they may have come loose during shipping. See section V.f for adjusting the shelves.

III. f - REMOVING DOORS & HARDWARE

In order to fit through narrow (less than 33.5") doorways, it may be necessary to remove the door(s), access panels and/or hinges. A Philip screwdriver may be required. First, unlock and open door to its open feature position about 110° and remove the screw holding each access panel (see figures 4 & 5).



Remove Screws

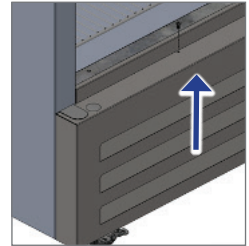
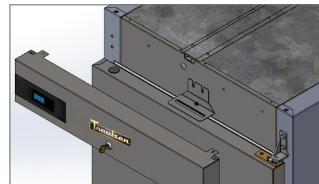


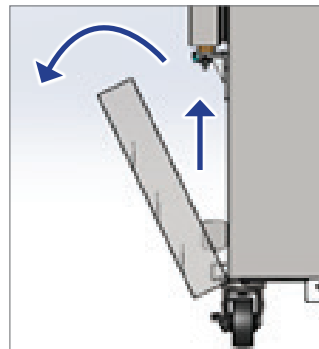
Fig. 4

After removing the screws, the top panel can be removed to access hinge hardware. Set the top panel on top of the unit as it will have wiring still attached to the control display. The bottom panel can be taken off to access hinge hardware. The bottom panel of full door configuration can be set aside. The bottom panel has wiring attached to the door switch. If needed, the wiring connectors can be disconnected so louver can be set aside.

After removing the panels, the hinge hardware can be accessed.



Remove panel to access hinge hardware.



NOTE: Top/bottom louvers contain door switch for controlling interior lighting. Special care should be taken to prevent damaging the wiring during removal.

Fig. 5

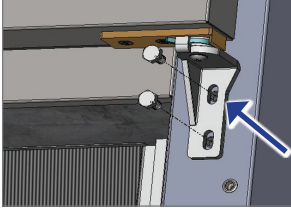
NOTE: ALWAYS SUPPORT THE DOOR WEIGHT OPPOSITE THE HINGE SIDE WHEN REMOVING TO PREVENT INJURY OR DAMAGE TO THE DOOR.

III. INSTALLATION (continued)

III. f - REMOVING DOORS & HARDWARE (cont'd)

To remove door, two bolts on bottom hinge brackets need to be removed. Then remove two bolts on top hinge bracket. The door can then be lifted from the unit. Note: Hinge brackets are under spring tension. Carefully move the door just far enough to allow the bracket to unwind.

Remove the top & bottom hinge brackets from the unit. Remember to support the door weight opposite the hinge side.



The bottom hinge plate bolts can be removed.

Fig. 6



First, ensure the door weight opposite the hinge side is supported. The top hinge bracket bolts can be removed.

Fig. 7

To re-install the door, top and/or bottom louvers, and hinges, please reverse the appropriate sections of the preceding procedure.

III. g - DOOR REMOVAL FOR HALF DOOR UNITS

To begin, remove top/bottom panels, then open the door to its open feature position about 110°. For top door, remove two bolts on the top hinge bracket. The door can then be lifted up from the center hinge hardware. The plastic bushing will remain in the top door.

For bottom door: support the bottom door weight opposite the hinge side so minimum movement occurs when the bolts from the lower hinge plate are removed. Remove two bolts on the bottom hinge bracket. The door can then be moved down from the center hinge hardware. The plastic bushing will remain in the bottom door. Once top/bottom doors removed, two screws can then be removed on the center hinge.

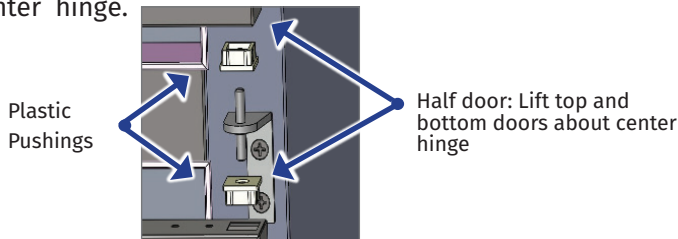


Fig. 8

Note that hinge brackets are under spring tension. Carefully move the door just far enough to allow the bracket to unwind.

II. h - CORD & PLUG

All C Series reach-in models are supplied with a cord & plug attached. It is shipped coiled and secured by a nylon strip to the back cover. For your safety and protection, all units supplied with a cord and plug include a special three-prong grounding plug on the service cord. Select only a dedicated electrical outlet with grounding plug 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. i - 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). 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).

III. j - WIRING DIAGRAM

Refer to the wiring diagram located on the exterior back of the cabinet 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. k - INSTALLING OPTIONAL INTERIOR KITS

In addition to their standard interiors, C Series models also offer the option for additional shelves or tray slides. If ordered, these are shipped as kits along with the unit, packaged in a separate cardboard box which contains all the necessary parts and hardware for on-site installation.

To install additional shelves, install the included pins on the pre-cut holes where required. Secure the shelves to the pins using nylon tie-wraps.

Installation of optional tray slides varies with each cabinet, and with each type of tray slide ordered. To install optional tray slides, follow the directions packaged inside the kit carton.

Both refrigerators and freezers do not require manual

IV. OPERATION

defrosting. However, manual defrost option is available on the control, if required.

IV. a - OPERATION DISPLAY INDICATORS

During normal operation, the display shows either the temperature measured or one of the following indications:

dEF	Defrost in progress
oFF	Controller in stand-by
cL	Condenser clean warning
do	Door open alarm
E1	Probe T1 failure
E2	Probe T2 failure
E3	Probe T3 failure

IV. b - REFRIGERATORS

An off-cycle defrost happens every 6 hours for a maximum length of 30 minutes to melt any frost which may accumulate on the coil during the operation. During the Off-Cycle defrost, the compressor is off but the evaporator fans are turned on. The digital control will read “dEF” (see figure 10) during the defrost. When the temperature sensor affixed to the coil senses 44°F, the coil is fully defrosted and the compressor operation is resumed.

IV. c - FREEZERS

The coil requires a periodic defrosting for proper operation. This is accomplished by an automatic, time activated, temperature/time terminated, defrost program. The controller is preset at the factory for defrost cycles, approximately every 5 hours period.

The evaporator fan(s) cycle off with each door opening. The evaporator fan(s) will cycle on and off (during the compressor off cycle. During the compressor on cycle the evaporator fan(s) will run continuously. At the start of a freezer defrost cycle, both the compressor and evaporator fans are off. The digital control will read “dEF” (see figure 9).



Fig. 9

IV. c - FREEZERS (cont'd)

The electric heater (attached to the coil) is energized. When the temperature sensor affixed to the coil senses 44°F, the coil is fully defrosted and the compressor operation is resumed, defrost heaters are automatically turned off. The evaporator coil fans are delayed from starting at the termination of a defrost cycle. Fan operation is automatically resumed, after a short time or temp delay (whichever comes first). After completion, the total refrigeration system operation is then resumed. During 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.

IV. d - LIGHT SWITCHES

Some C Series models include a door switch mounted in the top, bottom, or both louvers depending on door configuration, which automatically activates the interior light when the door is opened. When the door is closed, the lights are automatically turned off. Some models' lights are always illuminated whether the doors are open or not.

V. CARE & MAINTENANCE

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

V. a - CLEANING THE CONDENSER

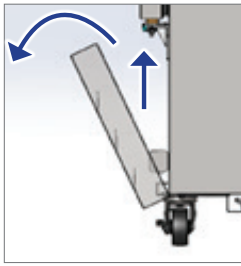
The most important thing you can do to ensure a long, reliable service life for your unit is to regularly clean the condenser coil.

The condensing unit requires regularly scheduled cleaning to keep the finned condenser clean of lint and dust accumulation. 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. Next, remove the front lower louver panel by removing the single screw from inside the door opening and gently pulling it towards front (refer to previous figures 4 and 5).

NOTE: DOOR SWITCH WIRING MAY BE PRESENT AND ATTACHED TO THE LOUVER.

V. a - CLEANING THE CONDENSER (cont'd)

V. CARE AND MAINTENANCE (continued)



Remove single screw, slide it up & tilt the top panel out to take off to clean the condenser coil & reverse the process to re-install.

Fig. 10

Vacuum or brush any dirt, lint or dust from the finned condenser coil, the compressor and other cooling system parts. If significant dirt is clogging the condenser fins, use compressed air to blow this clear. Care should be taken not to bend any of the condenser fins, as this will reduce performance and compressor life. Reverse the process to install louver assembly back in place.

SYSTEMS USING REFRIGERANT R-290 (PROPANE)

Remove any ignition source (arc, flame, heat) before cleaning the condenser coil. If the condenser coil is inadvertently damaged during cleaning to the point of causing a refrigerant leak, immediately ventilate the area and call for service.

V. b - HINGE REPLACEMENT

To replace the hinge, the upper and lower panels need to be removed from the face of the unit. The hinges can be removed as described in section III.f for door installation. Refer to section III.f for instructions to remove, install, and adjust torque on doors when replacing a hinge. Please refer service manual or contact service support for detailed instructions on hinge replacement

V. c - REPLACING THE GASKETS

To replace the gasket, grasp it firmly by one corner and pull it out. Before attempting to install a new gasket, both the unit and gasket 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 11 for proper gasket placement).

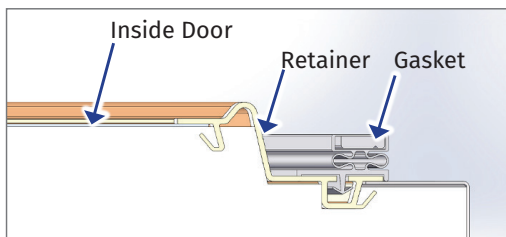


Fig. 11

V. d - CLEANING THE EXTERIOR

Exterior anodized aluminum 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 cleaners containing chlorine, this may promote corrosion of the stainless-steel door.

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 - CLEANING THE INTERIOR

For cleaning the interior, use baking soda with warm water, and a soft cloth. Apply with a dampened cloth and wipe in the direction of the metal grain. Use on breaker strips as well as door and drawer gaskets.

V. f - ADJUSTING THE SHELVES

Shelves and pins are shipped with the unit. First, select the desired location and remove the white plastic covers in the interior back and/or interior sides by rotating them. Install pins in the new desired location (turn clockwise to tighten). Make sure the pins are securely tightened. Slide the shelf on the pins as shown below & secure it to the pins using nylon tie-wraps. Replace the white plastic covers in the open holes from where the pins were removed.

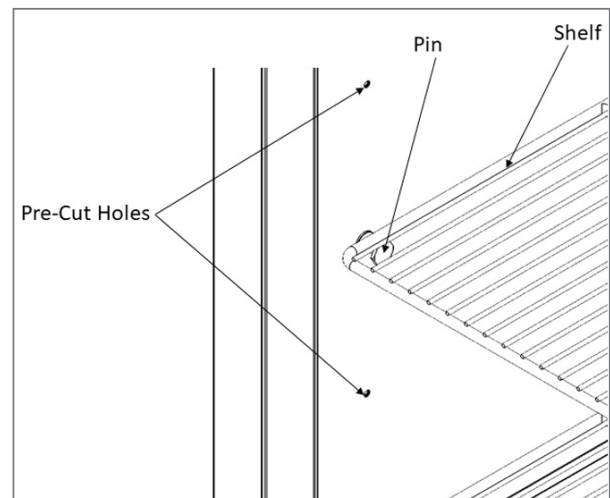


Fig. 12

VI. CONTROL BASICS

Your new Refrigerator or Freezer is equipped with a digital control, which precisely regulates operation. It is supplied from the factory completely ready for use.



VI. a - INFORMATION MENU

The information available in this menu is:

t1	Instant probe 1 temperature
t2	* Instant probe 2 temperature
cnd**	Compressor working weeks

* displayed only if enabled (see Configuration Parameters)

** displayed only if ACC > 0

Access to menu and information displayed:

- Press and immediately release button **i**.
- With button **▼** or **▲** select the data to be displayed.
- Press button **i** to display value.
- To exit from the menu, press button **✕** or wait for 10 seconds.

Initiate Stand-By:

Keeping the button **⏻** pressed for 3 seconds allows the controller to be put on a standby or output control to be resumed (with SB=YES only).

Locking the Keypad:

The keypad lock avoids undesired, potentially dangerous operations, which might be attempted when the controller is operating in a public place. In the INFO menu, set parameter LOC = YES to inhibit all functions of the buttons. To resume normal operation of keypad, adjust setting so that LOC = NO.

VI. b - ADJUSTING CABINET SETPOINT

Setpoint display and modification:

- Press button **i** for at least a half second to display the setpoint value.
- While keeping the **i** button pressed, use button **▼** or **▲** to set the desired value (adjustment is within the minimum SPL and the maximum SPH limit).
- When button **i** is released, the new value is stored.

VI. c - INITIATING A DEFROST

Automatic defrost:

Defrost starts automatically as soon as the time set with parameter DFT has elapsed.

- **Timed defrost:** With DFM = TIM defrosts take place at regular intervals when the timer reaches the value of DFT. For example, with DFM = TIM and DFT = 36, a defrost will take place every 6 hours.
- **Optimized defrost:** With DFM = FRO the timer is only increased when the conditions occur for frost to form on the evaporator, until the time set with parameter DFT is matched. If the evaporator works at 0°F, defrost frequency depends on the thermal load and climatic conditions. With setpoints much lower than 0°F, defrost frequency mainly depends on the refrigerator operating time.
- **Defrost time count backup:** At the power-up, if DFB = YES, the defrost timer resumes the time count from where it was left off before the power interruption. Vice versa, with DFB = NO, the time count re-starts from 0. In stand-by, the accumulated time count is frozen.

Manual or remote defrost start:

It's possible to manually start a defrost, by pressing button **⏻** for 2 seconds.

Defrost type. Once defrost has started, Compressor and Defrost outputs are controlled according to parameter DTY. If FID = YES, the evaporator fans are active during defrost.

Defrost termination. The actual defrost duration is influenced by a series of parameters.

- **Time termination:** T2 = NO and T3 different from 2EU: the evaporator temperature is not monitored and defrost will last as long as time DTO.
- **Temperature monitoring of one evaporator:** T2 = YES and T3 different from 2EU. In this case, if the sensor T2 measures the temperature DLI before the time DTO elapses, defrost will be terminated in advance.

Resuming thermostatic cycle:

When defrost is over, if DRN is greater than 0, all outputs will remain off for DRN minutes, in order for the ice to melt completely and the resulting water to drain. Moreover, if probe T2 is active (T2 = YES), the fans will re-start when the evaporator gets to a temperature lower than FDD; Vice versa, if probe T2 is not active (T2 = NO) or after defrost has come to an end, such condition does not occur by end of the time FTO, after FTO minutes have elapsed the fans will be switched on anyway.

VI. CONTROL BASICS (continued)

Caution: if DFM = NON or C-H = HEA all defrost functions are inhibited; if DFT = 0, automatic defrost functions are excluded.

VI. d - CONFIGURATION PARAMETERS

Parameter Configuration:

- To get access to the parameter configuration menu, press button  and  for 5 seconds.
- With button  or  select the parameter to be modified.
- Press button  to display the value.
- By keeping button  pressed, use button  or  to set the desired value.
- When button  is released, the newly programmed value is stored and the following parameter is displayed.
- To exit from the setup, press button  or wait for 30 seconds.

VI. e - TECHNICAL DATA

Power supply

100-240Vac $\pm 10\%$, 50/60Hz, 3W

Relay output max loads (240Vac)

INPUTS:				
Input Type		Terminal	Rating	
Power Supply		L – N	100-240 Vac, 50/60 Hz, Max. 5 W	
Digital Inputs		DI1, DI2	SELV 5 V, less than 15 W	
Probe		T1, T2	SELV 5 V, less than 15 W	
COMMUNICATION:				
Type/Function		Terminal	Rating	
Display		Remote (J5)	SELV 5 V, less than 15 W	
RS485		DATA (J6)	SELV 5 V, less than 15 W	
OUTPUTS(+):				
Output Terminals	Load Controlled	Switching Device and Schematic Ref	Electrical Ratings	Declaration
3 – 4	Compressor	RL1	Motor load 12 FLA 72 LRA, 240 Vac, 100k cycles	Type 1.B
			Resistive load 16 A, 240 Vac, 100k cycles	
7 – 8	Defrost Heater	RL2	Motor load 4 FLA 4 LRA, 240 Vac, 30k cycles	Type 1.B
			Resistive load 12 A, 240 Vac, 100k cycles	
9 – 12	Evaporator Fan	SSR1	Motor load (Declared specific load) 2.6 A, 240 Vac	--
10 – 11	Lights	SSR2	Inductive load 1.3 A, 240 Vac	--
Max. ampacity on the common terminal: 20 A				

VI. CONTROL BASICS (continued)

PAR	RANGE	DESCRIPTION
SPL	-58..SPH	Minimum limit for SP setting.
SPH	SPL...180°	Maximum limit for SP setting.
SP	SPL... SPH	Setpoint (value to be maintained in the room).
C-H	REF; HEA	Refrigerating (REF) or Heating (HEA) control mode.
HY0	1...10°	Thermostat OFF -> ON differential.
HY1	0...10°	Thermostat ON -> OFF differential.
CRT	0...30min	Compressor rest time. The output is switched on again after CRT minutes have elapsed since the previous switchover. We recommend to set CRT=03 with HY0<2.0°.
CT1	0...30min	Compressor/Heater output run when probe T1 is faulty. With CT1=0 the output will always remain OFF.
CT2	0...30min	Compressor/Heater output stop when probe T1 is faulty. With CT2=0 and CT1>0 the output will always be ON. Example: CT1=4, CT2= 6: In case of probe T1 failure, the compressor will cycle 4 minutes ON and 6 minutes OFF.
DFM	NON; TIM; FRO CRN	Defrost start mode NON : defrost function is disabled (the following parameter will be FCM). TIM : regular time defrost. FRO : the defrost time count is only increased when the conditions occur for frost to form on the evaporator (optimized time increase). CRN : defrost is based off of compressor run time (time is based off of DAT).
DFT	0...250	Time interval among defrosts in x10 minutes. When this time has elapsed since the last defrost, a new defrost cycle is started. Each number is multiplied by 10 minutes. 0-250 indicates 0-2500 minutes.
DAT	0...100hrs	Frost accumulation timeout.
DFB	NO/YES	Defrost timer backup. With DFB=YES, after a power interruption, the timer resumes the count from where it was left off with ±30 min. approximation. With DFB=NO, after a power interruption, the defrost timer will re-start to count from zero.
DLI	-58...180°	Defrost end temperature.
DMD	0...30min	Minimum defrost duration.
DTO	1...120min	Maximum defrost duration.
DTY	OFF; ELE; GAS	Defrost type OFF: off cycle defrost (Compressor and Heater OFF). ELE: electric defrost (Compressor OFF and Heater ON). GAS: hot gas defrost (Compressor and Heater ON).
DSO	OFF; LO; HI	Defrost start optimization OFF : no optimization. LO : defrost waits until the compressor cut-out. HI : defrost waits until the compressor cut-in.
SOD	0...30 min	Start optimization delay.
DPD	0...240sec	Evaporator pump down. At the beginning of defrost, defrost outputs (determined by DTY) are OFF for DPD seconds.
DRN	0...30min	Pause after defrost (evaporator drain down time).
DDM	RT; LT; SP; DEF	Defrost display mode. During defrost the display will show: RT: the real temperature; LT : the last temperature before defrost; SP : the current setpoint value; DEF : "dEF".

VI. CONTROL BASICS (continued)

PAR	RANGE	DESCRIPTION
DDY	0...60min	Display delay. The display shows the information selected with parameter DDM during defrost and for DDY minutes after defrost termination.
FID	NO/YES	Fans active during defrost.
FDD	-58...180°	Evaporator fan re-start temperature after defrost.
FTO	0...120min	Maximum evaporator fan stop after defrost.
FCM	NON; TMP; TIM	Fan mode during thermostatic control. NON : The fans remain ON all the time; TMP : Temperature-based control. The fans are ON when the compressor is ON. When the compressor is turned OFF, the fans remain ON as long as the temperature difference $T_e - T_a$ is greater than FDT. The fans are turned ON again with FDH differential. (T_e = Evaporator temperature, T_a = Air temperature); TIM : Timed-based control. The fans are ON when the compressor is ON. When the compressor is OFF, the fans switch ON and OFF according to parameters FT1, FT2, FT3
FDT	-12...0°	Evaporator-Air temperature difference for the fans to turn OFF after the compressor has stopped.
FDH	1...12°	Temperature differential for fan re-start.
		Example: FDT = -1, FDH=3. In this case, after the compressor has stopped, the fans are OFF when $T_e > T_a - 1$ (FDT), whereas the fans are ON when $T_e < T_a - 4$ (FDT-FDH).
FT1	0...180sec	Fan stop delay after compressor/heater stop. See Fig. 2
FT2	0...180	Timed fan stop in x10 seconds. With FT2=0 the fans remain on all the time.
FT3	0...180	Timed fan run in x10 seconds. With FT3=0, and FT2 > 0, the fans remain off all the time.
ATM	NON; ABS; REL	Alarm threshold management. NON : all temperature alarms are inhibited (the following parameter will be ACC). ABS : the values programmed in ALA and AHA represent the real alarm thresholds. REL : the alarm threshold is obtained by the sum of setpoint, thermostat differential and ALR/AHR.
ALA	-58... 180°	Low temperature alarm threshold.
AHA	-58... 180°	High temperature alarm threshold.
ALR	-12... 0°	Low temperature alarm differential. With ALR=0 the low temperature alarm is excluded.
AHR	0... 12°	High temperature alarm differential. With AHR=0 the high temperature alarm is excluded.
ATI	T1; T2; T3	Probe used for temperature alarm detection.
ATD	0... 120 min	Delay before alarm temperature warning.
ACC	0...52 weeks	Condenser periodic cleaning. When the compressor operation time, expressed in weeks, matches the ACC value programmed, "CL" flashes in the display. With ACC=0 the condenser cleaning warning is disabled and CND disappears from Info Menu.
IISM	NON; MAN; ECO; DI	Switchover mode to second parameter set NON : inhibition to use the second parameter group (the following parameter will be SB). MAN : button switches the two parameter groups over. ECO : automatic switchover to the second parameter group, when ECO conditions are detected. DI : switchover to the second parameter group when DIx input is on.
IISL	-58... IISH	Minimum limit for IISP setting.
IISH	IISL... 180°	Maximum limit for IISP setting.
IISP	IISL... IISH	Setpoint in mode 2.
IIH0	1... 10°	Thermostat OFF->ON differential in mode 2.
IIH1	0... 10°	Thermostat ON->OFF differential in mode 2.
IIDF	0...250	Time interval among defrosts in mode 2 in x10 minutes.
IIFC	NON; TMP; TIM	Fan control in mode 2. See FCM.

VI. CONTROL BASICS (continued)

PAR	RANGE	DESCRIPTION
ECS	1...5	Controller sensitivity for the automatic switchover from Group I to Group II (1=minimum, 5=maximum).
ECS	1...5	Controller sensitivity for the automatic switchover.
EPT	0...240 min	Eco pull-down time. Only with IISM=ECO. Group I parameters are used in regulation for at least EPT minutes. See Fig.3
SB	NO/YES	Stand-by button enabling.
DSM	NON; ALR; STP	Door switch input mode: NON : door switch inhibited ALR : when Dlx=DOR and the digital input is on, an alarm is generated after ADO minutes STP : when Dlx=DOR and the digital input is on, in addition to the alarm, the fans are immediately stopped and the compressor is stopped after CSD minutes.
DAD	0...30 min	Delay before door open alarm warning.
CSD	0...30 min	Compressor/heater stop delay after door has been opened.
D10	NON; DOR; ALR; IISM; RDS	DI1 digital input operation NON : digital input 1 not active. DOR : door input. ALR : when the input is on, an alarm is generated (if AHM=STP, the compressor is stopped and the defrosts are suspended). IISM : when the input is on, the controller will use group 2 parameters. RDS : when the input is on, a defrost is started (remote control).
D1A	OPN; CLS.	DI1 digital input activation. OPN : on open CLS : on close
D20	See D10	DI2 digital input operation. See D10.
D2A	OPN; CLS.	DI2 digital input activation. OPN : on open CLS : on close
PSL	-58...158	Minimum setpoint adjusted via potentiometer.
PSR	0...15	Range of setpoint adjusted via potentiometer.
LSM	NON; MAN; ECO; DI1; DI2; DI3.	Light control mode NON : light output not controlled. MAN : light output controlled through button (if OAx=LGT). ECO : lights activated/deactivated following the ECO state. Dlx : lights activated/deactivated following the Dlx state.
LSA	OPN; CLS	Light activation (only with LSM=ECO or LSM=Dlx). OPN : lights on with Dlx open or ECO mode deactivated. CLS : lights on with Dlx closed or ECO mode activated.
OT1	0...600 sec	Activation time of OA1
OT2	0...600 sec	Pause between OA1 activation
OA1	NON; LGT; 0-1; 2CU; 2EU; ALO; ALC	AUX 1 output operation NON : output disabled (always off). LGT : output enabled for light control. 0-1 : the relay contacts follow the on/standby state of controller. 2CU : output programmed for the control of an auxiliary compressor. 2EU : output enabled for the control of the electrical defrost of a second evaporator. ALO : contacts open when an alarm condition occurs. ALC : contacts make when an alarm condition occurs.
2CD	0...120 sec	Auxiliary compressor start delay. If OAx=2CU the auxiliary output is switched on with a delay of 2CD seconds after the main compressor has cut-in. Both compressors are turned off at the same time.

VI. CONTROL BASICS (continued)

PAR	RANGE	DESCRIPTION
OS1	-12.5..12.5°	Probe T1 offset.
T2	NO/YES	Probe T2 enabling (evaporator).
OS2	-12.5..12.5°	Probe T2 offset.
T3	NON; DSP; CND; 2EU	Auxiliary probe T3 operation NON : probe T3 not fitted. DSP : temperature T3 to be displayed. CND : condenser temperature measurement. 2EU : second evaporator temperature measurement.
OS3	-12.5..12.5°	Probe 3 offset.
AHM	NON; ALR; STP;	Operation in case of high condenser alarm NON : high condenser alarm inhibited. ALR : in case of alarm, "HC" flashes in the display and the buzzer is switched on. STP : in addition to the alarm symbols displayed, the compressor is stopped and defrosts are suspended.
AHT	-50...110°	Condensation temperature alarm (referred to T3 probe).
TLD	1...30 min	Delay for minimum temperature (TLO) and maximum temperature (THI) logging.
TDS	T1; 1-2; T3	Selects the temperature probe to be displayed. T1 : probe T1 1-2 : the AVG-weighted average between T1 and T2 T3 : probe T3
AVG	0...100%	The relative weight of T2 on T1 (if TDS = 1-2) Example 1: T1 = -5°, T2 = -20°, AVG = 100%. The displayed temperature will be -20° (T1 has no effect) Example 2: T1 = -5°, T2 = -20°, AVG = 60%. The displayed temperature will be -14.
SCL	1°C; 2°C; °F	Readout scale. 1°C : measuring range -50...110°C (0.1°C resolution within -9.9 ÷ 19.9°C interval, 1°C outside) 2°C : measuring range -50 ... 110°C °F : measuring range -55 ... 180°F
SIM	0...100	Display slowdown.
ADR	1...255	TRL-002 address for PC communication.
NPR	0...1	Setup programmed.
STT	0...255	Setup traceability.

VI. f - COMPONENTS AND WIRING DIAGRAM



Indications:

-  Thermostat output
-  Fan output
-  Defrost output
-  Activation of 2nd parameter set
-  Alarm
-  Manual activation / Increase button
-  Exit / Stand-by button

VII. TROUBLESHOOTING GUIDE

VII. a -TROUBLESHOOTING GUIDE

FIND YOUR PROBLEM HERE	REMEDY
1. Condensing unit fails to start.	a.Check if cord & plug has been disconnected. b.Check control temperature setting.
2. Condensing unit operates for prolonged periods or continuously.	a.Are doors closing properly? b.Dirty condenser or filter. Clean properly. c.Evaporator coil iced. Needs to defrost. See instructions for setting a manual defrost cycle on section VI.c.
3. Food compartment is too warm.	a.Check door(s) and gasket(s) for proper seal b.Perhaps a large quantity of warm food has recently been added or the door was kept open for a long period of time, in both cases, allow adequate time for the cabinet to recover its normal operating temperature. c.Control setting too high, readjust per instructions on section VI.b. d.Check that condensing coil is clean.
4. Food compartment is too cold.	a.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. b.Adjust the control to a warmer setting, see section VI.b.
5. Condensation on the exterior surface.	a.Check door alignment and gaskets for proper seal. b.Condensation on the exterior surface of the unit is perfectly normal during periods of high humidity.
6. Compressor hums but does not start.	a.Call for service.
7. No power to unit	a.Check if cord & plug has been disconnected. b.Check power supply breaker.

VIII. SERVICE/WARRANTY INFORMATION

VIII. a - SERVICE INFORMATION

Before calling for service, please check the following:

- ☐ Is the electrical cord plugged in?
- ☐ Is the fuse OK or circuit breaker on?
- ☐ Is the condenser coil clean?
- ☐ Is the power switch on?

If after checking the above items and the unit is still not operating properly, please contact an authorized Traulsen service agent:

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

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



This appliance is marked with the ISO 7010-W021 warning label to indicate the presence of **FLAMMABLE REFRIGERANTS**. Prior to beginning work on systems containing **FLAMMABLE REFRIGERANTS**, safety checks are necessary to ensure that the risk of ignition is minimized.

VENTILATED AREA

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

CABLING

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges, or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

DETECTION OF FLAMMABLE REFRIGERANTS

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for all refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of **FLAMMABLE REFRIGERANTS**, the sensitivity might not be adequate, or might need recalibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine can react with the refrigerant and corrode the copper pipe-work.

VIII. SERVICE/WARRANTY INFORMATION (continued)

NOTE: Examples of leak detection fluids are

- bubble method
- fluorescent method agents

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to the removal & evacuation section below.

REMOVAL & EVACUATION

When breaking into the refrigerant circuit to make repairs- or for any other purpose - conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:

- safely remove refrigerant following local and national regulations;
- purge the circuit with inert gas;
- evacuate
- purge with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen- free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems .

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and that ventilation is available.

VIII. b - SPARE PARTS INFORMATION

To purchase replacement parts or to speak to service support for Traulsen 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).

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

The image shows a Traulsen unit label with a QR code and various fields for identification. The label includes the Traulsen logo, a QR code, and fields for Model Number and Serial Number. Below these are sections for Refrigerant / Refrigerants, Input Power (kW), and a table for Component / Components. The label also includes a section for Spare Parts Information.

REFRIGERANT / REFRIGERANTS / REFRIGERANT	
REFRIGERANT	R-134a
REFRIGERANT	R-404A
REFRIGERANT	R-408A
REFRIGERANT	R-410A
REFRIGERANT	R-507

INPUT POWER (kW) - FOR PROVISION USE ONLY	
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INPUT POWER (kW)	85.5 (85.5 kW)
INPUT POWER (kW)	86.0 (86.0 kW)
INPUT POWER (kW)	86.5 (86.5 kW)
INPUT POWER (kW)	87.0 (87.0 kW)
INPUT POWER (kW)	87.5 (87.5 kW)
INPUT POWER (kW)	88.0 (88.0 kW)
INPUT POWER (kW)	88.5 (88.5 kW)
INPUT POWER (kW)	89.0 (89.0 kW)
INPUT POWER (kW)	89.5 (89.5 kW)
INPUT POWER (kW)	90.0 (90.0 kW)
INPUT POWER (kW)	90.5 (90.5 kW)
INPUT POWER (kW)	91.0 (91.0 kW)
INPUT POWER (kW)	91.5 (91.5 kW)
INPUT POWER (kW)	92.0 (92.0 kW)
INPUT POWER (kW)	92.5 (92.5 kW)
INPUT POWER (kW)	93.0 (93.0 kW)
INPUT POWER (kW)	93.5 (93.5 kW)
INPUT POWER (kW)	94.0 (94.0 kW)
INPUT POWER (kW)	94.5 (94.5 kW)
INPUT POWER (kW)	95.0 (95.0 kW)
INPUT POWER (kW)	95.5 (95.5 kW)
INPUT POWER (kW)	96.0 (96.0 kW)
INPUT POWER (kW)	96.5 (96.5 kW)
INPUT POWER (kW)	97.0 (97.0 kW)
INPUT POWER (kW)	97.5 (97.5 kW)
INPUT POWER (kW)	98.0 (98.0 kW)
INPUT POWER (kW)	98.5 (98.5 kW)
INPUT POWER (kW)	99.0 (99.0 kW)
INPUT POWER (kW)	99.5 (99.5 kW)
INPUT POWER (kW)	100.0 (100.0 kW)

Model Number
Serial Number

VIII. c - WARRANTY REGISTRATION:

The warranties for your new Traulsen unit may be registered with us by by completing warranty information online, via our website www.traulsen.com. Click on the Product Registration text at the footer of the home page. You may also register your product by calling us directly at 800-825-8220.

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4401 Blue Mound Road Fort Worth, Texas 76106 (USA)

Phone: 800.825.8220 | Service Fax: 817.740.6757 | E-mail: service@traulsen.com | Website: traulsen.com

Form Number: TR35899 | Part Number: 375-60364-00 (Rev. F) | Revision Date: 01/26

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