



OWNER'S MANUAL



TU SERIES FULL-SIZE UNDERCOUNTER REFRIGERATORS

*Please Note: This manual is intended for use with the above referenced equipment manufactured after December 2024. To obtain a copy of the correct Owner's Manual to support the same products manufactured prior to this date, please contact Traulsen Service at (800) 825-8220.

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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

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 the right interior compartment on all standard full-size undercounter models.

READING THE SERIAL TAG

- Serial = The permanent ID# of your Traulsen unit
- Model = The model # of your Traulsen unit
- 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

Traulsen		ITW Food Equipment Group, LLC North American Refrigeration 4401 Blue Mound Rd. Ft. Worth, TX 76106 800-825-8220	
MODEL: MODELO: MODELE:	TU048QC		
SERIAL NUMBER:	25B02342		
SCAN FOR SERVICE INFO			
REFRIGERANT / REFRIGÉRANTE / RÉFRIGÉRANT			
SYS1 (REFM):	R-290	5.00 OZ	141.73 g
Hi Press. (PRESH):		450.00 psi	3,102.64 kPa
Lo Press. (PRESL):		200.00 psi	1,378.95 kPa
SYS2 (REFA):	N/A		
Hi Press. (PRESH):			
Lo Press. (PRESL):			
Input Power (ELIN) - FOR INDOOR USE ONLY			
Voltage	Hertz	Phase	Total Amps
115 ~	60	1	11.80
Device/Part Number: TU048QC-64		Device/Part Notes:	
 		 	
COMPONENTS / COMPOSANTS / COMPONENTES			
	1	2	MAX OVER CURRENT PROTECTION (A):
COMP AMPS:			MIN CIRCUIT IN AMPS:
COND FAN AMPS:			DOME LIGHT WATTS:
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

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

You should carefully inspect your Traulsen unit for damage during delivery. If damage is detected, you should save all the crating materials and make note on the carrier's Bill of Landing describing the damage. 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. There is a five (5) day limit to file freight damage with the carrier. Under no condition may a damaged unit be returned to Traulsen without first obtaining written permission (return authorization). You may contact Hobart/Traulsen customer care at 800-333-7447 to request a return.

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 or cold. Allow enough clearance between the unit and the side wall in order to make use of the stay-open door feature (self-closing feature operates up to 90°). The door(s) must be able to open a minimum of 90° to make use of the maximum clear door width.

III. b) PACKAGING

Your Traulsen unit is shipped from the factory bolted to a sturdy wooden pallet in stretch wrapped material and wood 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 application peel, remove and discard the covering from all surfaces.

III. b) PACKAGING CONT'D

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

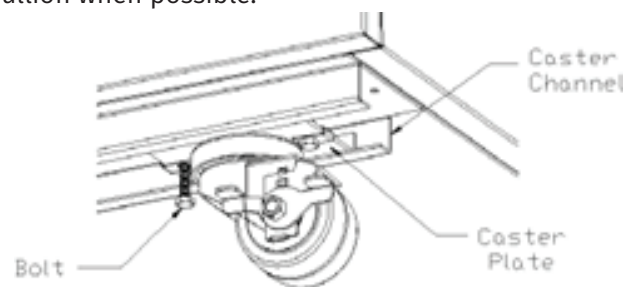
NOTE: Traulsen does not recommend laying the unit on its front, side or back. If you must, please allow the unit to remain in an upright position for 24 hours before plugging it in so that the compressor oils and refrigerant may settle.

III. c) ADJUSTING THE CASTERS

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

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

NOTE: Traulsen recommends positioning casters under the mullion when possible.



III. d) CORD & PLUG

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

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

III. e) POWER SUPPLY

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

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

VI. DOORS & DRAWERS

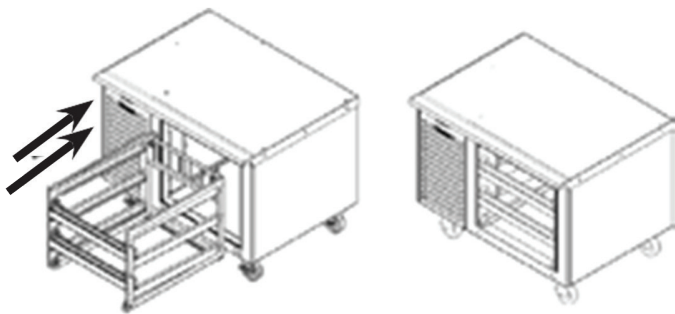
Your Traulsen full-size undercounter model door(s) are field re-hingeable. If re-hinging is required, please contact our in-house service department at 800-825-8220 for instruction.

VI. a) REMOVING THE DOOR/INSTALLING DRAWER(S)

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

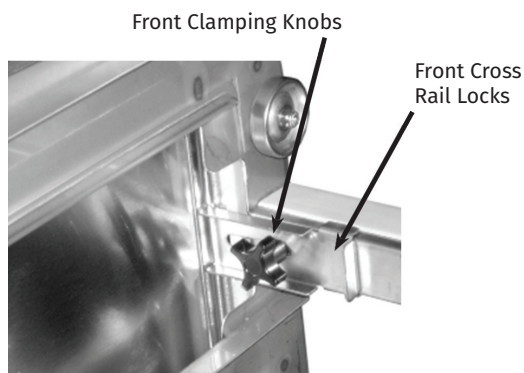
The door(s) on the refrigerator models can easily be converted to drawers in the field. To begin the process, open the door to its maximum position. Support the non-hinged end of the door so minimum movement occurs. When the bolts from the lower hinge plate are removed, remove the lower hinge plate and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

NOTE: THE LOWER HINGE PLATE IS UNDER SPRING TENSION.



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

NOTE: Repeat process for multiple drawer inserts.



VI. a) REMOVING THE DOOR/INSTALLING DRAWER(S) CONT'D

Back Clamping Knobs



VII. MICROPROCESSOR CONTROL

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

VII. 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.

VII. 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.

VII. 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.

VII. c) INITIATING A DEFROST CONT'D

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

VII. 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.

VII. e) TECHNICAL DATA

Power supply

100-240Vac ±10%, 50/60Hz, 3W

Relay output max loads (240Vac)

VII. e) TECHNICAL DATA CONT'D

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				

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.

PAR	RANGE	DESCRIPTION
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".
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.

PAR	RANGE	DESCRIPTION
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.
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 DIx=DOR and the digital input is on, an alarm is generated after ADO minutes STP : when DIx=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. DIx : lights activated/deactivated following the DIx state.

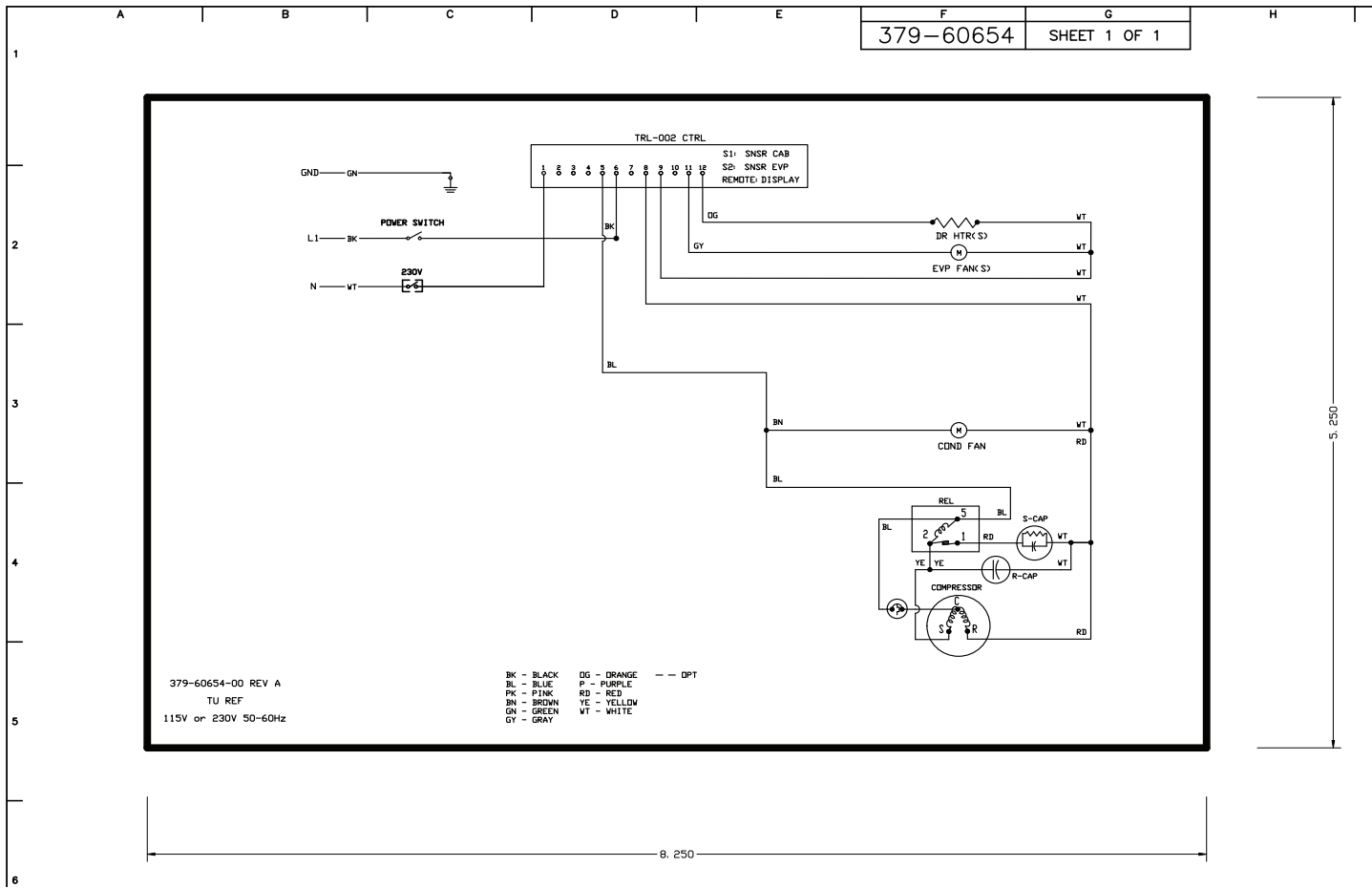
PAR	RANGE	DESCRIPTION
LSA	OPN; CLS	Light activation (only with LSM=ECO or LSM=Dlx). OPN : lights on with Dlx open or ECO mode deactivated. CLS : lights on with Dlx closed or ECO mode activated.
OT1	0...600 sec	Activation time of OA1
OT2	0...600 sec	Pause between OA1 activation
OA1	NON; LGT; 0-1; 2CU; 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.
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.

VII. f) COMPONENTS & WIRING DIAGRAM



Indications:

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



VIII. 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 drawers closing properly? b. Dirty condenser or filter. Clean properly. c. Evaporator coil iced. Needs to defrost. See instructions for setting a manual defrost cycle in section VII. c)
3. Food compartment is too warm.	a. Check drawers(s) and gasket(s) for proper seal b. Perhaps a large quantity of warm food has recently been added or the drawers were 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 VII. 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 VII. b)
5. Condensation on the exterior surface.	a. Check drawer 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.

IX. SERVICE/WARRANTY INFORMATION

IX. 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.

IX. a) SERVICE INFORMATION CONT'D

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.

IX. 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.

Traulsen		4401 Glenview Rd. Ft. Worth, TX 76105 800-825-8220	
MODEL	107220007-100		
S/N	10000000		
REFRIGERANT / REFRIGERANTS / REFRIGERANT			
REFRIGERANT	R-134a	Net WT	2.00 Lb (0.91 kg)
Net Press. (PSI/Bar)	100psi	1.45 MPa (21.0 MPa)	
Net Press. (PSI/Bar)	250psi	1.72 MPa (24.8 MPa)	
Net Press. (PSI/Bar)	400psi	2.76 MPa (39.8 MPa)	
Net Press. (PSI/Bar)	550psi	3.79 MPa (54.5 MPa)	
Net Press. (PSI/Bar)	700psi	4.83 MPa (68.5 MPa)	
Net Press. (PSI/Bar)	850psi	5.87 MPa (84.5 MPa)	
Net Press. (PSI/Bar)	1000psi	6.90 MPa (96.0 MPa)	
Net Press. (PSI/Bar)	1150psi	7.94 MPa (109.5 MPa)	
Net Press. (PSI/Bar)	1300psi	8.97 MPa (128.5 MPa)	
Net Press. (PSI/Bar)	1450psi	10.0 MPa (140.5 MPa)	
Net Press. (PSI/Bar)	1600psi	11.0 MPa (155.5 MPa)	
Net Press. (PSI/Bar)	1750psi	12.0 MPa (170.5 MPa)	
Net Press. (PSI/Bar)	1900psi	13.0 MPa (185.5 MPa)	
Net Press. (PSI/Bar)	2050psi	14.0 MPa (199.5 MPa)	
Net Press. (PSI/Bar)	2200psi	15.0 MPa (213.5 MPa)	
Net Press. (PSI/Bar)	2350psi	16.0 MPa (227.5 MPa)	
Net Press. (PSI/Bar)	2500psi	17.0 MPa (241.5 MPa)	
Net Press. (PSI/Bar)	2650psi	18.0 MPa (255.5 MPa)	
Net Press. (PSI/Bar)	2800psi	19.0 MPa (269.5 MPa)	
Net Press. (PSI/Bar)	2950psi	20.0 MPa (283.5 MPa)	
Net Press. (PSI/Bar)	3100psi	21.0 MPa (297.5 MPa)	
Net Press. (PSI/Bar)	3250psi	22.0 MPa (311.5 MPa)	
Net Press. (PSI/Bar)	3400psi	23.0 MPa (325.5 MPa)	
Net Press. (PSI/Bar)	3550psi	24.0 MPa (339.5 MPa)	
Net Press. (PSI/Bar)	3700psi	25.0 MPa (353.5 MPa)	
Net Press. (PSI/Bar)	3850psi	26.0 MPa (367.5 MPa)	
Net Press. (PSI/Bar)	4000psi	27.0 MPa (381.5 MPa)	
Net Press. (PSI/Bar)	4150psi	28.0 MPa (395.5 MPa)	
Net Press. (PSI/Bar)	4300psi	29.0 MPa (409.5 MPa)	
Net Press. (PSI/Bar)	4450psi	30.0 MPa (423.5 MPa)	
Net Press. (PSI/Bar)	4600psi	31.0 MPa (437.5 MPa)	
Net Press. (PSI/Bar)	4750psi	32.0 MPa (451.5 MPa)	
Net Press. (PSI/Bar)	4900psi	33.0 MPa (465.5 MPa)	
Net Press. (PSI/Bar)	5050psi	34.0 MPa (479.5 MPa)	
Net Press. (PSI/Bar)	5200psi	35.0 MPa (493.5 MPa)	
Net Press. (PSI/Bar)	5350psi	36.0 MPa (507.5 MPa)	
Net Press. (PSI/Bar)	5500psi	37.0 MPa (521.5 MPa)	
Net Press. (PSI/Bar)	5650psi	38.0 MPa (535.5 MPa)	
Net Press. (PSI/Bar)	5800psi	39.0 MPa (549.5 MPa)	
Net Press. (PSI/Bar)	5950psi	40.0 MPa (563.5 MPa)	
Net Press. (PSI/Bar)	6100psi	41.0 MPa (577.5 MPa)	
Net Press. (PSI/Bar)	6250psi	42.0 MPa (591.5 MPa)	
Net Press. (PSI/Bar)	6400psi	43.0 MPa (605.5 MPa)	
Net Press. (PSI/Bar)	6550psi	44.0 MPa (619.5 MPa)	
Net Press. (PSI/Bar)	6700psi	45.0 MPa (633.5 MPa)	
Net Press. (PSI/Bar)	6850psi	46.0 MPa (647.5 MPa)	
Net Press. (PSI/Bar)	7000psi	47.0 MPa (661.5 MPa)	
Net Press. (PSI/Bar)	7150psi	48.0 MPa (675.5 MPa)	
Net Press. (PSI/Bar)	7300psi	49.0 MPa (689.5 MPa)	
Net Press. (PSI/Bar)	7450psi	50.0 MPa (703.5 MPa)	
Net Press. (PSI/Bar)	7600psi	51.0 MPa (717.5 MPa)	
Net Press. (PSI/Bar)	7750psi	52.0 MPa (731.5 MPa)	
Net Press. (PSI/Bar)	7900psi	53.0 MPa (745.5 MPa)	
Net Press. (PSI/Bar)	8050psi	54.0 MPa (759.5 MPa)	
Net Press. (PSI/Bar)	8200psi	55.0 MPa (773.5 MPa)	
Net Press. (PSI/Bar)	8350psi	56.0 MPa (787.5 MPa)	
Net Press. (PSI/Bar)	8500psi	57.0 MPa (801.5 MPa)	
Net Press. (PSI/Bar)	8650psi	58.0 MPa (815.5 MPa)	
Net Press. (PSI/Bar)	8800psi	59.0 MPa (829.5 MPa)	
Net Press. (PSI/Bar)	8950psi	60.0 MPa (843.5 MPa)	
Net Press. (PSI/Bar)	9100psi	61.0 MPa (857.5 MPa)	
Net Press. (PSI/Bar)	9250psi	62.0 MPa (871.5 MPa)	
Net Press. (PSI/Bar)	9400psi	63.0 MPa (885.5 MPa)	
Net Press. (PSI/Bar)	9550psi	64.0 MPa (899.5 MPa)	
Net Press. (PSI/Bar)	9700psi	65.0 MPa (913.5 MPa)	
Net Press. (PSI/Bar)	9850psi	66.0 MPa (927.5 MPa)	
Net Press. (PSI/Bar)	10000psi	67.0 MPa (941.5 MPa)	
Net Press. (PSI/Bar)	10150psi	68.0 MPa (955.5 MPa)	
Net Press. (PSI/Bar)	10300psi	69.0 MPa (969.5 MPa)	
Net Press. (PSI/Bar)	10450psi	70.0 MPa (983.5 MPa)	
Net Press. (PSI/Bar)	10600psi	71.0 MPa (997.5 MPa)	
Net Press. (PSI/Bar)	10750psi	72.0 MPa (1011.5 MPa)	
Net Press. (PSI/Bar)	10900psi	73.0 MPa (1025.5 MPa)	
Net Press. (PSI/Bar)	11050psi	74.0 MPa (1039.5 MPa)	
Net Press. (PSI/Bar)	11200psi	75.0 MPa (1053.5 MPa)	
Net Press. (PSI/Bar)	11350psi	76.0 MPa (1067.5 MPa)	
Net Press. (PSI/Bar)	11500psi	77.0 MPa (1081.5 MPa)	
Net Press. (PSI/Bar)	11650psi	78.0 MPa (1095.5 MPa)	
Net Press. (PSI/Bar)	11800psi	79.0 MPa (1109.5 MPa)	
Net Press. (PSI/Bar)	11950psi	80.0 MPa (1123.5 MPa)	
Net Press. (PSI/Bar)	12100psi	81.0 MPa (1137.5 MPa)	
Net Press. (PSI/Bar)	12250psi	82.0 MPa (1151.5 MPa)	
Net Press. (PSI/Bar)	12400psi	83.0 MPa (1165.5 MPa)	
Net Press. (PSI/Bar)	12550psi	84.0 MPa (1179.5 MPa)	
Net Press. (PSI/Bar)	12700psi	85.0 MPa (1193.5 MPa)	
Net Press. (PSI/Bar)	12850psi	86.0 MPa (1207.5 MPa)	
Net Press. (PSI/Bar)	13000psi	87.0 MPa (1221.5 MPa)	
Net Press. (PSI/Bar)	13150psi	88.0 MPa (1235.5 MPa)	
Net Press. (PSI/Bar)	13300psi	89.0 MPa (1249.5 MPa)	
Net Press. (PSI/Bar)	13450psi	90.0 MPa (1263.5 MPa)	
Net Press. (PSI/Bar)	13600psi	91.0 MPa (1277.5 MPa)	
Net Press. (PSI/Bar)	13750psi	92.0 MPa (1291.5 MPa)	
Net Press. (PSI/Bar)	13900psi	93.0 MPa (1305.5 MPa)	
Net Press. (PSI/Bar)	14050psi	94.0 MPa (1319.5 MPa)	
Net Press. (PSI/Bar)	14200psi	95.0 MPa (1333.5 MPa)	
Net Press. (PSI/Bar)	14350psi	96.0 MPa (1347.5 MPa)	
Net Press. (PSI/Bar)	14500psi	97.0 MPa (1361.5 MPa)	
Net Press. (PSI/Bar)	14650psi	98.0 MPa (1375.5 MPa)	
Net Press. (PSI/Bar)	14800psi	99.0 MPa (1389.5 MPa)	
Net Press. (PSI/Bar)	14950psi	100.0 MPa (1403.5 MPa)	
Net Press. (PSI/Bar)	15100psi	101.0 MPa (1417.5 MPa)	
Net Press. (PSI/Bar)	15250psi	102.0 MPa (1431.5 MPa)	
Net Press. (PSI/Bar)	15400psi	103.0 MPa (1445.5 MPa)	
Net Press. (PSI/Bar)	15550psi	104.0 MPa (1459.5 MPa)	
Net Press. (PSI/Bar)	15700psi	105.0 MPa (1473.5 MPa)	
Net Press. (PSI/Bar)	15850psi	106.0 MPa (1487.5 MPa)	
Net Press. (PSI/Bar)	16000psi	107.0 MPa (1501.5 MPa)	
Net Press. (PSI/Bar)	16150psi	108.0 MPa (1515.5 MPa)	
Net Press. (PSI/Bar)	16300psi	109.0 MPa (1529.5 MPa)	
Net Press. (PSI/Bar)	16450psi	110.0 MPa (1543.5 MPa)	
Net Press. (PSI/Bar)	16600psi	111.0 MPa (1557.5 MPa)	
Net Press. (PSI/Bar)	16750psi	112.0 MPa (1571.5 MPa)	
Net Press. (PSI/Bar)	16900psi	113.0 MPa (1585.5 MPa)	
Net Press. (PSI/Bar)	17050psi	114.0 MPa (1599.5 MPa)	
Net Press. (PSI/Bar)	17200psi	115.0 MPa (1613.5 MPa)	
Net Press. (PSI/Bar)	17350psi	116.0 MPa (1627.5 MPa)	
Net Press. (PSI/Bar)	17500psi	117.0 MPa (1641.5 MPa)	
Net Press. (PSI/Bar)	17650psi	118.0 MPa (1655.5 MPa)	
Net Press. (PSI/Bar)	17800psi	119.0 MPa (1669.5 MPa)	
Net Press. (PSI/Bar)	17950psi	120.0 MPa (1683.5 MPa)	
Net Press. (PSI/Bar)	18100psi	121.0 MPa (1697.5 MPa)	
Net Press. (PSI/Bar)	18250psi	122.0 MPa (1711.5 MPa)	
Net Press. (PSI/Bar)	18400psi	123.0 MPa (1725.5 MPa)	
Net Press. (PSI/Bar)	18550psi	124.0 MPa (1739.5 MPa)	
Net Press. (PSI/Bar)	18700psi	125.0 MPa (1753.5 MPa)	
Net Press. (PSI/Bar)	18850psi	126.0 MPa (1767.5 MPa)	
Net Press. (PSI/Bar)	19000psi	127.0 MPa (1781.5 MPa)	
Net Press. (PSI/Bar)	19150psi	128.0 MPa (1795.5 MPa)	
Net Press. (PSI/Bar)	19300psi	129.0 MPa (1809.5 MPa)	
Net Press. (PSI/Bar)	19450psi	130.0 MPa (1823.5 MPa)	
Net Press. (PSI/Bar)	19600psi	131.0 MPa (1837.5 MPa)	
Net Press. (PSI/Bar)	19750psi	132.0 MPa (1851.5 MPa)	
Net Press. (PSI/Bar)	19900psi	133.0 MPa (1865.5 MPa)	
Net Press. (PSI/Bar)	20050psi	134.0 MPa (1879.5 MPa)	
Net Press. (PSI/Bar)	20200psi	135.0 MPa (1893.5 MPa)	
Net Press. (PSI/Bar)	20350psi	136.0 MPa (1907.5 MPa)	
Net Press. (PSI/Bar)	20500psi	137.0 MPa (1921.5 MPa)	
Net Press. (PSI/Bar)	20650psi	138.0 MPa (1935.5 MPa)	
Net Press. (PSI/Bar)	20800psi	139.0 MPa (1949.5 MPa)	
Net Press. (PSI/Bar)	20950psi	140.0 MPa (1963.5 MPa)	
Net Press. (PSI/Bar)	21100psi	141.0 MPa (1977.5 MPa)	
Net Press. (PSI/Bar)	21250psi	142.0 MPa (1991.5 MPa)	
Net Press. (PSI/Bar)	21400psi	143.0 MPa (2005.5 MPa)	
Net Press. (PSI/Bar)	21550psi	144.0 MPa (2019.5 MPa)	
Net Press. (PSI/Bar)	21700psi	145.0 MPa (2033.5 MPa)	
Net Press. (PSI/Bar)	21850psi	146.0 MPa (2047.5 MPa)	
Net Press. (PSI/Bar)	22000psi	147.0 MPa (2061.5 MPa)	
Net Press. (PSI/Bar)	22150psi	148.0 MPa (2075.5 MPa)	
Net Press. (PSI/Bar)	22300psi	149.0 MPa (2089.5 MPa)	
Net Press. (PSI/Bar)	22450psi	150.0 MPa (2103.5 MPa)	
Net Press. (PSI/Bar)	22600psi	151.0 MPa (2117.5 MPa)	
Net Press. (PSI/Bar)	22750psi	152.0 MPa (2131.5 MPa)	
Net Press. (PSI/Bar)	22900psi	153.0 MPa (2145.5 MPa)	
Net Press. (PSI/Bar)	23050psi	154.0 MPa (2159.5 MPa)	
Net Press. (PSI/Bar)	23200psi	155.0 MPa (2173.5 MPa)	
Net Press. (PSI/Bar)	23350psi	156.0 MPa (2187.5 MPa)	
Net Press. (PSI/Bar)	23500psi	157.0 MPa (2201.5 MPa)	
Net Press. (PSI/Bar)	23650psi	158.0 MPa (2215.5 MPa)	
Net Press. (PSI/Bar)	23800psi	159.0 MPa (2229.5 MPa)	
Net Press. (PSI/Bar)	23950psi	160.0 MPa (2243.5 MPa)	
Net Press. (PSI/Bar)	24100psi	161.0 MPa (2257.5 MPa)	
Net Press. (PSI/Bar)	24250psi	162.0 MPa (2271.5 MPa)	
Net Press. (PSI/Bar)	24400psi	163.0 MPa (2285.5 MPa)	
Net Press. (PSI/Bar)	24550psi	164.0 MPa (2299.5 MPa)	
Net Press. (PSI/Bar)	24700psi	165.0 MPa (2313.5 MPa)	
Net Press. (PSI/Bar)	24850psi	166.0 MPa (2327.5 MPa)	
Net Press. (PSI/Bar)	25000psi	167.0 MPa (2341.5 MPa)	
Net Press. (PSI/Bar)	25150psi	168.0 MPa (2355.5 MPa)	
Net Press. (PSI/Bar)	25300psi	169.0 MPa (2369.5 MPa)	
Net Press. (PSI/Bar)	25450psi	170.0 MPa (2383.5 MPa)	
Net Press. (PSI/Bar)	25600psi	171.0 MPa (2397.5 MPa)	
Net Press. (PSI/Bar)	25750psi	172.0 MPa (2411.5 MPa)	
Net Press. (PSI/Bar)	25900psi	173.0 MPa (2425.5 MPa)	
Net Press. (PSI/Bar)	26050psi	174.0 MPa (2439.5 MPa)	
Net Press. (PSI/Bar)	26200psi	175.0 MPa (2453.5 MPa)	
Net Press. (PSI/Bar)	26350psi	176.0 MPa (2467.5 MPa)	
Net Press. (PSI/Bar)	26500psi	177.0 MPa (2481.5 MPa)	
Net Press. (PSI/Bar)	26650psi	178.0 MPa (2495.5 MPa)	
Net Press. (PSI/Bar)	26800psi	179.0 MPa (2509.5 MPa)	
Net Press. (PSI/Bar)	26950psi	180.0 MPa (2523.5 MPa)	
Net Press. (PSI/Bar)	27100psi	181.0 MPa (2537.5 MPa)	
Net Press. (PSI/Bar)	27250psi	182.0 MPa (2551.5 MPa)	
Net Press. (PSI/Bar)	27400psi	183.0 MPa (2565.5 MPa)	
Net Press. (PSI/Bar)	27550psi	184.0 MPa (2579.5 MPa)	
Net Press. (PSI/Bar)	27700psi	185.0 MPa (2593.5 MPa)	
Net Press. (PSI/Bar)	27850psi	186.0 MPa (2607.5 MPa)	
Net Press. (PSI/Bar)	28000psi	187.0 MPa (2621.5 MPa)	
Net Press. (PSI/Bar)	28150psi	188.0 MPa (2635.5 MPa)	
Net Press. (PSI/Bar)	28300psi	189.0 MPa (2649.5 MPa)	
Net Press. (PSI/Bar)	28450psi	190.0 MPa (2663.5 MPa)	
Net Press. (PSI/Bar)	28600psi	191.0 MPa (2677.5 MPa)	
Net Press. (PSI/Bar)	28750psi	192.0 MPa (2691.5 MPa)	
Net Press. (PSI/Bar)	28900psi	193.0 MPa (2705.5 MPa)	
Net Press. (PSI/Bar)	29050psi	194.0 MPa (2719.5 MPa)	
Net Press. (PSI/Bar)	29200psi	195.0 MPa (2733.5 MPa)	
Net Press. (PSI/Bar)	29350psi	196.0 MPa (2747.5 MPa)	
Net Press. (PSI/Bar)	29500psi	197.0 MPa (2761.5 MPa)	
Net Press. (PSI/Bar)	29650psi	198.0 MPa (2775.5 MPa)	
Net Press. (PSI/Bar)	29800psi	199.0 MPa (2789.5 MPa)	
Net Press. (PSI/Bar)	29950psi	200.0 MPa (2803.5 MPa)	
Net Press. (PSI/Bar)	30100psi	201.0 MPa (2817.5 MPa)	
Net Press. (PSI/Bar)	30250psi	202.0 MPa (2831.5 MPa)	
Net Press. (PSI/Bar)	30400psi	203.0 MPa (2845.5 MPa)	
Net Press. (PSI/Bar)	30550psi	204.0 MPa (2859.5 MPa)	
Net Press. (PSI/Bar)	30700psi	205.0 MPa (2873.5 MPa)	
Net Press. (PSI/Bar)	30850psi	206.0 MPa (2887.5 MPa)	
Net Press. (PSI/Bar)	31000psi	207.0 MPa (2901.5 MPa)	
Net Press. (PSI/Bar)	31150psi	208.0 MPa (2915.5 MPa)	
Net Press. (PSI/Bar)	31300psi	209.0 MPa (2929.5 MPa)	
Net Press. (PSI/Bar)	31450psi	210.0 MPa (2943.5 MPa)	
Net Press. (PSI/Bar)	31600psi	211.0 MPa (2957.5 MPa)	
Net Press. (PSI/Bar)	31750psi	212.0 MPa (2971.5 MPa)	
Net Press. (PSI/Bar)	31900psi	213.0 MPa (2985.5 MPa)	
Net Press. (PSI/Bar)	32050psi	214.0 MPa (2999.5 MPa)	

NOTES



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