

# **OPERATION/MAINTENANCE MANUAL**



**CUSTOM FABRICATORS OF FOODSERVICE EQUIPMENT** 

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# **Table of Contents**

3 5 6
5 6
6
0
ð
8
8
1
2
3
4
5
0

## **INSPECTION**

Upon receipt, the crate should be inspected for visual damage. Any damage should be reported immediately to the carrier.

## **SAFETY PRECAUTIONS**

This manual includes safety and operating instructions for Frost Top (FT) series system. LTI recommends reading all safety precautions and statements to ensure safe operation before installing and operating. Below are the precautions that are explained in more detail. Please read carefully.



#### DANGER

Danger warns of imminent hazard which will result in serious injury or death.

# WARNING

Warning indicates the presence of a potential hazard or unsafe practice that will or can cause severe personal injury or death.



#### CAUTION

Caution indicates the presence of a hazard or unsafe practice that will or can cause minor or moderate personal injury if the caution is ignored.

#### NOTICE:

Used to note information that is important but not hazard-related.

#### WARNING ELECTRIC SHOCK HAZARD

- Unit must be installed by a qualified electrician. Installation must conform to all local electrical codes. In the absence of local codes, use the latest version of the National Electrical Code.
- Unit should be safely and adequately grounded in accordance to local codes, or in the absence of local codes, the most up to date version of the National Electrical Code ANSI/NFPA70, to protect the user from electrical shock.
- The unit requires a grounded system and a dedicated circuit.
- The unit must be serviced by qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.
- Control panel must be mounted on a vertical surface/wall and installed in the vertical position. Mounting control panel in the horizontal position may result in collection of liquids and lead to electrical shock.
- Turn OFF power, unplug power cord/turn off power at circuit breaker, and allow unit to cool if needed to before performing any cleaning, adjustments, or maintenance.
- Do not use flammable cleaning solutions to clean this unit.

#### NOTICE:

- Units are voltage specific. Refer to specifications label for electrical requirements before installation.
- Use non-abrasive cleaners and cloths only. Abrasive cleaners and cloths could scratch finish of unit, marring its appearance and making it susceptible to soil accumulation.
- Do not use steel wool for cleaning.
- Do not use harsh chemicals such as bleach, cleaners containing bleach, or oven cleaners to clean this unit.

#### **MODEL NOMENCLATURE :**

Example:  $\underline{SPC} - \underline{FT} - \underline{MF} - \underline{25} - \underline{36} - \underline{RBS} - \underline{50}$ A B C D E F G

- A COUNTER STYLE SPC – SPECLINE SIM – SIMPLICITY
- **B** FT = FROST TOP
- **C** BODY STYLE
  - MF- MOLDED FIBERGLASS FP – FIBERGLASS PANEL LP – LAMINATE PLASTIC LSS – LAMINATE OVER STAINLESS SS – STAINLESS STEEL
- D WIDTH OF FROST TOP AREA 20 – STANDARD 20"
  - 12 SLIM 12"
- **E** LENGTH OF FROST TOP AREA

F – SUFFIX to indicate another refrigerated section in addition to the MX cold well.
 GFTTxx = glass frost top tier, followed by nominal length in inches
 QSGTTxx = Quick-switch glass top tier, followed by nominal length in inches
 RBS = refrigerated base single
 RBD = refrigerated base double
 SFTxx = stainless steel frost top tier, followed by nominal length in inches

 $\mathbf{G}$  – COUNTER LENGTH

SPC LENGTHS SPECIFIED BY ORDER SIM LENGTHS = 50, 60

## **INSTALLATION INSTRUCTIONS**

**LTI FT Series** are self-contained units designed for short term display and of food and desserts. The units are designed to help maintain product temp for short periods of time and are dependent upon the ambient temperature in which they are installed and product temperature when it is placed in the unit. Products should be carefully monitored and rotated as necessary to meet local health requirements.

When installed adequate air flow must be provided to ensure proper operation. Thru air flow is required but if not, exhaust fans should be used to ensure adequate heat exhaust. Connect the unit into the proper grounded electrical service. Refer to unit's electrical data tag for correct electrical service requirements and refrigeration information. The unit is now ready for operation.

Refer to figures for dimensions and overall details.





SPECLINE/SIMPLICITY FROST TOP UNITS										
Model #	Unit Length L	FT WIDTH	FT Length L'	18X26 SHEET PAN CAPACITY	Com p.	Volts/ Phase	Amps (120V)	NEMA Plug		
SPC-FT-X-18-26-X-36	36 3/8"	18"	26″	1	1/3	120V/1	7.0	5-15		
SPC-FT-X-25-36-X-50	50 3/8"	25 3/16"	36″	2	1/3	120V/1	7.0	5-15		
SPC-FT-X-18-52-X-60	60 3/8"	18″	52″	2	1/3	120V/1	7.0	5-15		
SPC-FT-X-25-54-X-60	60 3/8"	25 3/16"	54″	3	1/3	120V/1	7.0	5-15		
SPC-FT-X-25-54-X-66	66 3/8"	25 3/16"	54″	3	1/3	120V/1	7.0	5-15		
SPC-FT-X-25-54-X-74	74 3/8"	25 3/16"	54″	3	1/3	120V/1	7.0	5-15		
SPC-FT-X-18-52-X-74	74 3/8"	18″	52″	2	1/3	120V/1	7.0	5-15		
SPC-FT-X-25-72-X-84	84 3/8"	25 3/16"	72″	4	1/3	120V/1	7.0	5-15		
SPC-FT-X-18-78-X-84	84 3/8"	18"	72″	3	1/3	120V/1	7.0	5-15		
SPC-FT-X-25-90-X-96	96 3/8"	25 3/16"	90″	5	1/3	120V/1	7.0	5-15		
SPC-FT-X-18-78-X-96	96 3/8"	18″	78″	3	1/3	120V/1	7.0	5-15		

#### \*\*\* WARNING \*\*\*

# To prevent any electrical accidents, this equipment should be installed and serviced by <u>qualified maintenance personnel only</u> per national electrical code standards.

Various options may be purchased with this equipment. When these options are provided the electrical circuits may be separately fused with **class "G" fuses**. If fuses must be replaced **replace with the same type and amperage fuse.** 

## **OPERATING INSTRUCTIONS**

#### START UP

The refrigeration system supplied with these systems are of the hermetic type. Refrigerant is metered by expansion valves which are located in the compressor housing of frost top (FT) unit. Each refrigeration system is self-contained and has been leak tested, charged with refrigerant, and operated to ensure the proper operation and setting of the controls.

Energize the unit by attaching the plug to an appropriate electrical supply (115 vac, 60 hz, single phase, 12 amp) and turning on the service switch located in the compressor compartment.

Prep the unit for use by allowing the unit to run approximately one (1) hour before displaying product.

#### **OPERATION**

The system temperature is controlled by the pressure control which is located inside the compressor housing. The TXV metering device controls the flow of refrigerant to the evaporator of the unit.

The low pressure control (physically located in the front of the compressor compartment) is used to cycle off the compressor. The low pressure control should not be adjusted from the factory settings. Adjustment of this control may cause performance problems with the unit.

Factory Settings for Frost Top (FT) Units:

- Cut-In 40psi
- Cut-Out 15psi
- Differential 25

For instructions on setting Pressure Controls see illustrations provided.

# DIGITAL PRESSURE CONTROLLER



- **SET** To display target set point, in programming mode it selects a parameter or confirm an operation.
- **START** (RESTART) It depends on the rSC parameter; with rSC=rSt it allows a manual restart and ad "dead band reset"; with rSC=nP only the dead band reset is allowed.
- **(UP)** To see the condenser temperature for 5sec; in programming mode it browses the parameter codes or increases the displayed value.
- (DOWN)- To see the dLt temperature; in programming mode it browses the parameter codes or decrease the displayed value.
- (SERVICE)- To enter the service menu.
- (ALARM MENU)- To enter the Alarm menu.

#### How to Modify Set Point:

- 1. Press and hold down the **SET** key unit PSI begins to blink. Display will show **Cin**.
- 2. Press and release the **SET** key to display its value.
- 3. Use the **UP** or **DOWN** to change the value.
- 4. Push and immediately release the **SET** key: the display will show **Cou**.
- 5. Press and release the **SET** key to display its value.
- 6. Use the **UP** or **DOWN** to change the value.
- 7. Press the **SET** key save and to return to the suction pressure display press the **SET** + **Up** arrow at the same time.

#### MECHANICAL PRESSURE CONTROL



## **CLEANING INSTRUCTIONS**

To maintain the performance and finish of the unit clean the unit daily. Make sure to use cleaning supplies and cleaners designed for cleaning stainless-steel surfaces.

#### Stainless steel:

Use soft cloths, microfiber, sponges, or plastic scouring pads. Avoid using scrapers wire brushes, steel wool or anything that might scratch the surface. Always clean stainless-steel parallel with the "grain". Use cleaners that contain alkaline, alkaline chlorinated, or non-chloride chemicals.

#### CONDENSER COIL

**WARNING:** Always disconnect power before inspecting or cleaning condenser coil. Never use high-pressure water to clean condenser coil as water can damage electrical components located near the condenser coil.

The condenser coil requires adequate cleaning to maintain proper operation which is recommend every 90 days. If debris is more prevalent the condenser coil should be cleaned every 30 days. <u>Neglecting the condenser coil cleaning procedures will void any warranties associated with the condensing unit or cost to replace the compressor</u>

### **PREVENTATIVE MAINTENANCE**

To ensure that your equipment will continue to operate properly follow these simple steps.

- The unit should be cleaned thoroughly every day. Excess food spillage left can cause damage to the unit. Where applicable clean unit daily.
- Make sure condensing unit has adequate air flow to prevent overheating. Thru air flow is required but if not, exhaust fans should be used to ensure adequate heat exhaust. Properly shrouding condenser inlet air flow is recommended to provide fresh air across condenser.
- Make sure that the condenser is kept clean of dust and dirt and if filter is provided change every 30-90 days. Failure to do this will cause compressor to overheat and may cause compressor failure and will VOID ANY FACTORY WARRANTY on compressor.

# TROUBLESHOOTING

COMPLIANT         PROBLEM         SOLUTION           COMPRESSOR WILL NOT START         LINES DISCONNECTED / SWITCH OPEN         CLOSE START ON DISCONNECT SWITCH           FUSE REMOVED OR BLOWN         REPLACE FUSE           CONTROL STUCK IN OPEN POSITION         REPAIR OR REPLACE CONTROL           CONTROL OFF DUE TO COLD LOCATION         RELOCATE CONTROL           LOW VOLTAGE TO UNIT         CALL POWER SUPPLIER           STARTING CAPACITOR DEFECTIVE         REPLACE CAPACITOR           RELAY FAILING TO CLOSE         REPLACE RELAY
COMPRESSOR WILL NOT START       LINES DISCONNECTED / SWITCH OPEN       CLOSE START ON DISCONNECT SWITCH         FUSE REMOVED OR BLOWN       REPLACE FUSE         CONTROL STUCK IN OPEN POSITION       REPAIR OR REPLACE CONTROL         CONTROL OFF DUE TO COLD LOCATION       RELOCATE CONTROL         LOW VOLTAGE TO UNIT       CALL POWER SUPPLIER         STARTING CAPACITOR DEFECTIVE       REPLACE CAPACITOR         RELAY FAILING TO CLOSE       REPLACE RELAY
FUSE REMOVED OR BLOWN       REPLACE FUSE         CONTROL STUCK IN OPEN POSITION       REPAIR OR REPLACE CONTROL         CONTROL OFF DUE TO COLD LOCATION       RELOCATE CONTROL         LOW VOLTAGE TO UNIT       CALL POWER SUPPLIER         STARTING CAPACITOR DEFECTIVE       REPLACE CAPACITOR         RELAY FAILING TO CLOSE       REPLACE RELAY
COMPRESSOR WILL NOT START       CONTROL STUCK IN OPEN POSITION       REPAIR OR REPLACE CONTROL         CONTROL OFF DUE TO COLD LOCATION       RELOCATE CONTROL         LOW VOLTAGE TO UNIT       CALL POWER SUPPLIER         STARTING CAPACITOR DEFECTIVE       REPLACE CAPACITOR         RELAY FAILING TO CLOSE       REPLACE RELAY
CONTROL OFF DUE TO COLD LOCATION       RELOCATE CONTROL         Image: Control of the second seco
LOW VOLTAGE TO UNIT     CALL POWER SUPPLIER       STARTING CAPACITOR DEFECTIVE     REPLACE CAPACITOR       RELAY FAILING TO CLOSE     REPLACE RELAY
LOW VOLTAGE TO UNIT     CALL POWER SUPPLIER       STARTING CAPACITOR DEFECTIVE     REPLACE CAPACITOR       RELAY FAILING TO CLOSE     REPLACE RELAY
STARTING CAPACITOR DEFECTIVE REPLACE CAPACITOR RELAY FAILING TO CLOSE REPLACE RELAY
RELAY FAILING TO CLOSE REPLACE RELAY
COMPRESSOR WILL NOT START, HUNS COMPRESSOR MOTOR HAS A WINDING REPLACE COMPRESSOR
OPEN OR SHORTED
INTERNAL MECHANICAL TROUBLE IN REPLACE COMPRESSOR
COMPRESSOR
LOW VOLTAGE TO UNIT CALL POWER SUPPLIER
OVERLOAD PROTECTOR DEFECTIVE CHECK CURRENT, REPLACE PROTECTOR
RUN CAPACTIOR DEFECTIVE REPLACE CAPACITOR
EXCESSIVED DISCHARGE PRESSURE CHECK VENTILATION, RESTRICTIONS IN
COMPRESSOR STARTS AND RUNS, BUT COOLING MEDIUM, RESTRICTIONS IN
BROTECTOR REFRIGERANT SYSTEM
COMPRESSOR TOO HOT, RETURN GAS CHECK REFRIGRANT CHARGE (FIX LEAK IF
HOT NECESSARY)
COMPRESSOR MOTOR HAS A WINDING REPLACE COMPRESSOR
SHORTED
OVERLOAD PROTECTOR CHECK CURRENT, REPLACE PROTECTOR
THERMOSTAT DIFFERENTIAL SET TO CLSE, WIDEN
UNIT RUNS OKAY, BUT SHORT CYCLE ON HIGH PRESSURE CUT OUT DUE TO: REDUCE REFRIGERANT CHARGE, PURGE.
INSUFFICIENT AIR, OVERCHARGE, OR AIR CHECK AIR SUPPLY TO CONDENSER,
IN SYSTEM REDUCE REFRIGERANT CHARGE, PURGE
SHORTAGE OF REFRIGERANT FIX LEAK, ADD CHARGE
CONTROL CONTACTS STUCK OR CLEAN CONTACTS, OR REPLACE CONTROL
FROZEN/CLOSED
REFRIGERANT OR AIR CONDITIONED DETERMINE FAULT AND CORRECT
UNIT OPERATES LONG OR SPACE HAS EXCESSIVE LOAD OR POOR
CONTINUOUSLY
EVAPORATOR COIL ICED DEFROST
RESTRICTION IN REFRIGERANT SYSTEM DETERMINE LOCATION AND REMOVE
DIRTY CONDENSER CLEAN CONDENSER
FILTER DIRTY CLEAN OR REPLACE
RELAY CONTACTS NOT OPENING CLEAN CONTACTS OR REPLACE IF
START CAPACITOR OPEN
TO LOW VOLTAGE, INIPROPER RELAY
EXCESSIVE SHORT CYCLE DETERMINE REASON FOR SHORT CYCLE
EXCESSIVE SHORT CYCLE         DETERMINE REASON FOR SHORT CYCLE           RUN CAPACITOR OPEN, SHORTED OR         IMPROPER CAPACITOR         DETERMINE CORRECT SIZE AND REPLACE           BLOWN         EXCESSIVE WILLING (100%) OF DATED         CALL DOW/OF CURPLICE
EXCESSIVE SHORT CYCLE         DETERMINE REASON FOR SHORT CYCLE           RUN CAPACITOR OPEN, SHORTED OR         IMPROPER CAPACITOR         DETERMINE CORRECT SIZE AND REPLACE           BLOWN         EXCESSIVELY HIGH LINE (100% OF RATED- MAXY         CALL POWER SUPPLIER
EXCESSIVE SHORT CYCLE     DETERMINE REASON FOR SHORT CYCLE       RUN CAPACITOR OPEN, SHORTED OR     IMPROPER CAPACITOR     DETERMINE CORRECT SIZE AND REPLACE       BLOWN     EXCESSIVELY HIGH LINE (100% OF RATED- MAX)     CALL POWER SUPPLIER
EXCESSIVE SHORT CYCLE     DETERMINE REASON FOR SHORT CYCLE       RUN CAPACITOR OPEN, SHORTED OR     IMPROPER CAPACITOR     DETERMINE CORRECT SIZE AND REPLACE       BLOWN     EXCESSIVELY HIGH LINE (100% OF RATED- MAX)     CALL POWER SUPPLIER       SPACE TEMPERATURE TOO HIGH     CONTROL SETTING TO HIGH     RESET CONTROL       INADECULATE AIR CIRCULATE AIR CIRCULATION     IMPROVE AIR MOVEMENT
EXCESSIVE SHORT CYCLE     DETERMINE REASON FOR SHORT CYCLE       RUN CAPACITOR OPEN, SHORTED OR     IMPROPER CAPACITOR     DETERMINE CORRECT SIZE AND REPLACE       BLOWN     EXCESSIVELY HIGH LINE (100% OF RATED- MAX)     CALL POWER SUPPLIER       SPACE TEMPERATURE TOO HIGH     CONTROL SETTING TO HIGH     RESET CONTROL       INADEQUATE AIR CIRCULATION     IMPROVE AIR MOVEMENT
EXCESSIVE SHORT CYCLE     DETERMINE REASON FOR SHORT CYCLE       RUN CAPACITOR OPEN, SHORTED OR BLOWN     IMPROPER CAPACITOR     DETERMINE CORRECT SIZE AND REPLACE       EXCESSIVELY HIGH LINE (100% OF RATED- MAX)     CALL POWER SUPPLIER       SPACE TEMPERATURE TOO HIGH     CONTROL SETTING TO HIGH     RESET CONTROL       INADEQUATE AIR CIRCULATION     IMPROVE AIR MOVEMENT       EXPANSION VALVE STUCK     CLEAN VALVE OFF FOREIGN PARTICLES, DEDI ACE LE NECESSARY
EXCESSIVE SHORT CYCLE         DETERMINE REASON FOR SHORT CYCLE           RUN CAPACITOR OPEN, SHORTED OR BLOWN         IMPROPER CAPACITOR         DETERMINE CORRECT SIZE AND REPLACE           EXCESSIVELY HIGH LINE (100% OF RATED- MAX)         CALL POWER SUPPLIER           SPACE TEMPERATURE TOO HIGH         CONTROL SETTING TO HIGH         RESET CONTROL           INADEQUATE AIR CIRCULATION         IMPROVE AIR MOVEMENT         EXPANSION VALVE STUCK           SUCTION LINE FROSTED OR SWEATING         EVAPORATOR EAN NOT PLINNING         DETERMINE DEACONLAND CORRECT
EXCESSIVE SHORT CYCLE     DETERMINE REASON FOR SHORT CYCLE       RUN CAPACITOR OPEN, SHORTED OR BLOWN     IMPROPER CAPACITOR     DETERMINE CORRECT SIZE AND REPLACE       EXCESSIVELY HIGH LINE (100% OF RATED- MAX)     CALL POWER SUPPLIER       SPACE TEMPERATURE TOO HIGH     CONTROL SETTING TO HIGH     RESET CONTROL       INADEQUATE AIR CIRCULATION     IMPROVE AIR MOVEMENT     EXPANSION VALVE STUCK       SUCTION LINE FROSTED OR SWEATING     EXPANSION VALVE STUCK     CLEAN VALVE OFF FOREIGN PARTICLES, REPLACE IF NECESSARY       EVAPORATOR FAN NOT RUNNING     DETERMINE REASON AND CORRECT       OVER CHARGE OE REERIGERANT     CONPRECT CHARGE
Image: Control displaying "Fr 1" or "FO"       EXCESSIVE SHORT CYCLE       DETERMINE REASON FOR SHORT CYCLE         Image: Control displaying "Fr 1" or "FO"       EXCESSIVE SHORT CYCLE       DETERMINE CORRECT SIZE AND REPLACE         Image: Control displaying "Fr 1" or "FO"       EXCESSIVELY HIGH LINE (100% OF RATED- MAX)       CALL POWER SUPPLIER         SPACE TEMPERATURE TOO HIGH       RESET CONTROL       CONTROL SETTING TO HIGH       RESET CONTROL         SPACE TEMPERATURE TOO HIGH       INADEQUATE AIR CIRCULATION       IMPROVE AIR MOVEMENT         SUCTION LINE FROSTED OR SWEATING       EXPANSION VALVE STUCK       CLEAN VALVE OFF FOREIGN PARTICLES, REPLACE IF NECESSARY         EVAPORATOR FAN NOT RUNNING       DETERMINE REASON AND CORRECT         OVERCHARGE OF REFRIGERANT       CORRECT CHARGE

# **REPLACEMENT PARTS**

ITEM NO.	DESCRIPTION	STOCK NO.	MFG NO.	MANUFACTURER
1	CONDENSING UNIT	311937	AE2420-AA1BXM (BOM-2E294-1)	TECUMSEH
1A	CONDENSING UNIT	311935	AE2415Z-AA1ASC (BOM-32F328-59S)	TECUMSEH
2	COMPRESSOR AE2420Z-DS1B	311982	AE1322E-679-J7	TECUMSEH
2A	COMPRESSOR AE2415- AA1A	311983	BM AE1157E-679-J7	TECUMSEH
4	PRESSURE CONTROL	280610	012-4834-000	RANCO
5	DIGITAL PRESSURE CONTROL	311938	TECUMSEH P/N-900-11968	DIXELL
6	FILTER DRIER	282310	C-052-S-T-HH	SPORLAN
7	SIGHT GLASS	282400	SA-12S	SPORLAN
8	ACCUMULATOR	281700	3616	REFRIG. RESEARCH
8A	ACCUMULATOR		102-10034	TECUMSEH
9	TXV-507	282572	Y1017-FP-1/6ZP	SPORLAN
9A	TXV-449	282586	EFD-1/5-ZP 2SX4 ODF 30	SPORLAN
10	LIQUID LINE SOLENOID	281610	E3S120W	SPORLAN
12	ROCKER SWITCH 2PL- 20A/277V	335912	TIGK721-6S-BL-NBL- 20A/277V	CARLING

#### DIAGRAMS





# CONDENSING UNIT / PRESSURE CONTROL BOX



#### CONDENSING UNIT / MECHANICAL PRESSURE CONTROL BOX PRESSURE INTROL INDENSING UNIT START CAPACITOR START CAPACITOR RELAY HIGH PRESSURE SWITCH D-Ó LOW PRESSURE D-SWITCH 0 CONDENSER START FAN\_MOTOR OVERLOAD PROTECTOR AC GROUND BLACK GROUND WHITE BLACK



18



### WARRANTY

Effective date July 1<sup>st</sup>, 2020

The LTI parts and labor warranty for all products is (1) year for all products (some product families have total of two-year parts and labor); The warranty period commences with the date of installation, or six (6) months from date of shipment from the factory, whichever is sooner. Refrigeration compressors come standard with a 5-year compressor warranty. The warranty covers all products used in United State and Canada. All labor and parts expense after the expiration of the warranty shall be the responsibility of the owner.

The QuickSwitch Family, TempestAir and ThermalWell families all include a 2yr parts and labor warranty.

K-12 warranty is 2 years parts and labor on ALL equipment.

All warranty labor is to be pre-authorized by the factory. To request warranty please go to <u>https://lowtempind.com/resources/warranty/</u> or call 888-584-2722 for pre-authorization and ask for the warranty department.

The warranty includes travel time to portal, not to exceed 100 miles round trip, or two hours total travel time. The warranty requires that all labor must be performed during regular work hours. Overtime premiums will be charged to the owner or must be pre-approved prior to the service call. The warranty does not apply to any equipment or component parts which have been subjected to shipping damage, improper voltage, improper installation, alteration, abuse, or misuse. The warranty does not cover routine maintenance activities, any failure that results from lack of, or improper equipment maintenance activities. The warranty does not cover any loss of business profits, any loss of food, or other products, or damage to property due to electrical, gas or mechanical malfunction or to any incidental or consequential damages of Purchaser or any third party. Damage due to floods, fire or other acts of God also are not covered.

Due to the custom nature of the products returns are not allowed. All inquiries concerning this warranty must be directed to LTI.

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