SO-LOW
ENVIRONMENTAL EQUIPMENT COMPANY

ETL LISTED US
Intertek

ULTRA LOW FREEZER

VSC85 / VSU85

INSTRUCTIONS

USER MANUAL

WARNING: READ BEFORE CONTINUING	
To reduce the risk of fire, electric shock or injury to persons using this freezer, read all instructions and follow basic safety precautions before using the unit, including the following:	
⚡	Do not modify the plug provided with the freezer. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.
⚠	Do not position equipment so it is difficult to disconnect from the power supply. freezer must be at least 6” away from any wall or object on any side.
⚠	While under warranty, do not attempt to repair or replace any part of the freezer for servicing without first contacting the So-Low Service Department.
SAVE THESE INSTRUCTIONS	

So-Low Environmental Equipment Company
10310 Spartan Drive
Cincinnati, OH 45215-1221
Tel: 513-772-9410
http://www.so-low.com

For customer service:
Email: sales@so-low.com

For parts replacement:
Email: parts@so-low.com

For technical support:
Email: service@so-low.com

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SYMBOLS AND STARTING INSTRUCTIONS

Explanation

MEANING OF ILLUSTRATED SYMBOLS

ILLUSTRATED SYMBOLS

Various symbols are used in this safety manual in order to use the unit without danger of injury and damage of the unit. Be sure that you understand the warnings and cautions in this manual before operating the unit.



CAUTION

BLACK WITH YELLOW BACKGROUND
LIGHTNING BOLT
CAUTION, RISK OF ELECTRICAL SHOCK



WARNING

BLACK WITH YELLOW BACKGROUND
EXCLAMATION POINT
CAUTION, REFER TO ACCOMPANYING DOCUMENTS

STARTING INSTRUCTIONS

1. Move the freezer to an indoor location, and plug the freezer into an appropriate outlet with an adequate power supply. Consult your maintenance department for additional information on the proper electrical configuration for this unit.

2. Once plugged in, the compressor(s) will start to operate and pull down to the setpoint on the temperature control. The freezers default setpoint is **-85°C** for cascade units, and **-40°C** for single stage units.

3. Allow the freezer to reach the setpoint temperature. Depending on the size of the unit, this may take up to 12 hours.

4. Product can now be loaded into the freezer for storage.



To prevent overloading the cooling system, product should be loaded gradually, in batches. Allow the temperature to recover to setpoint before the next batch of product is loaded into the unit.

Unit Information

PRE-INSTALLATION INFORMATION

RANGE OF ENVIRONMENTAL CONDITIONS FOR WHICH THIS EQUIPMENT IS DESIGNED

1. Indoor use.
2. Altitude up to 2000m.
3. Ambient temperatures 15°C to 30°C (60°F TO 85°F)
4. Recommended humidity range of 30% to 90%.
5. Mains supply fluctuations up to -5% to +10% of the nominal voltage.
6. Transient over-voltages typically present on the mains supply (overvoltage category II). Pollution degree 1.



WARNING

DURING OPERATION THIS UNIT MUST REMAIN IN UPRIGHT POSITION. DURING TRANSPORATION UNIT MUST NOT BE TIPPED MORE THAN 45° FROM UPRIGHT POSITION.



CAUTION

UNPLUG UNIT AND SWITCH OFF ELECTRICAL BREAKER BEFORE ANY TECHNICAL SERVICE IS PERFORMED.



CAUTION

COVERS ON BACK / SIDE OF FREEZER MAY ONLY BE REMOVED BY AUTHORIZED PERSONNEL. FAILURE TO RE-INSTALL COVER COULD RESULT IN HAZARD.



CAUTION

UNIT MUST BE OPERATED ON A DEDICATED ELECTRICAL LINE. USING A NON-DEDICATED LINE MAY RESULT IN UNIT STARTUP FAILURE.



CAUTION

ONLY PLUG THIS UNIT INTO THE PROPER OUTLET. DO NOT ATTEMPT TO MODIFY PLUG IN ANY WAY. IMPROPER USE OF THE ELECTRICAL PLUG WILL VOID WARRANTY.



WARNING

DO NOT POSITION EQUIPMENT SO IT IS DIFFICULT TO DISCONNECT FROM THE POWER SUPPLY.

PREVENTATIVE MAINTENANCE

CLEANING PROCEDURE

Wipe down the exterior of the freezer with a soft cloth and/or general spray type polish. Do not use corrosive cleaners/chemicals on the exterior.

If frost builds up in the chamber, a bucket and ice-scraper can be used to remove ice. If excessive ice builds up, the unit can be defrosted (see below).

DEFROST PROCEDURE

1. Remove any product in the freezer, and temporarily store it in a back-up freezer or elsewhere.
2. Unplug the freezer, and fully open the freezer front door / lid.
3. Air out the freezer, allowing the unit to reach room temperature for at least 12 hours. Using fans to blow air into the unit is recommended.
4. Take a rag and wipe up all the excess water in the unit (melted frost).
5. Close the unit, and plug the unit in to activate the start-up process.

PLEASE CONSULT THE START-UP INSTRUCTIONS ON PAGE 1 FOR UNIT STARTUP

6. Once the desired temperature is reached, you may slowly begin to add your product back into the unit.



ATTENTION

IT IS RECOMMENDED TO SLOWLY RE-ADD YOUR PRODUCT INTO THE FREEZER TO PREVENT AN EXTREME LOAD ON THE COMPRESSORS, WHICH COULD SHORTEN FREEZER LIFE EXPECTANCY.

CLEANING AIR CONDENSER

Large amounts of dust build-up on the air-cooled condenser can cause excess stress for the refrigeration system. This excess stress may increase the chance of a refrigeration issue and reduce the life expectancy of the refrigeration system.

ATTENTION

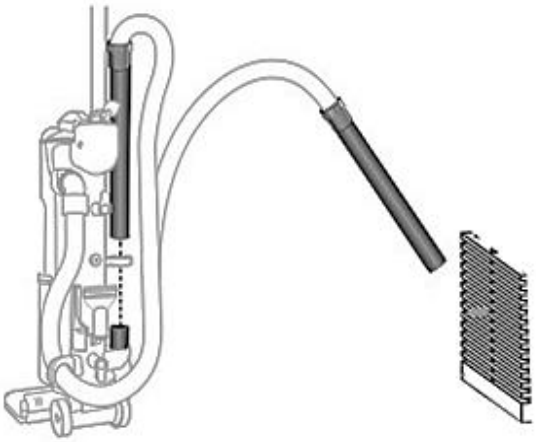
IT IS RECOMMENDED TO CLEAN THE CONDENSER AT LEAST ONCE EVERY 90 DAYS TO PREVENT DUST BUILDUP.

1. Using a Philips Head screwdriver, remove the screws for grill located on front of unit. Once the screws are removed, the front grill can be removed allowing easy access to the air cooled condenser.

   Note: It is recommended to keep the screws in a safe location, so they can be used to re-attach the grill once cleaning is completed.

2. Use a vacuum cleaner to pull up any dust built up on the condenser fins. The most efficient method of doing this is using a furniture cleaning attachment (if available).

Note: Cans of compressed air can also be used to blow away dust, however this is not the most recommended way to clean the condenser; as the dust may float through the air and eventually return to clog up the condenser.



3. Once clean, re-align the front grill and attach it using a screwdriver.

CHANGING SETPOINT TEMPERATURE

The temperature control is manually adjustable to the desired temperature in 1° C increments within the limits of the control range.

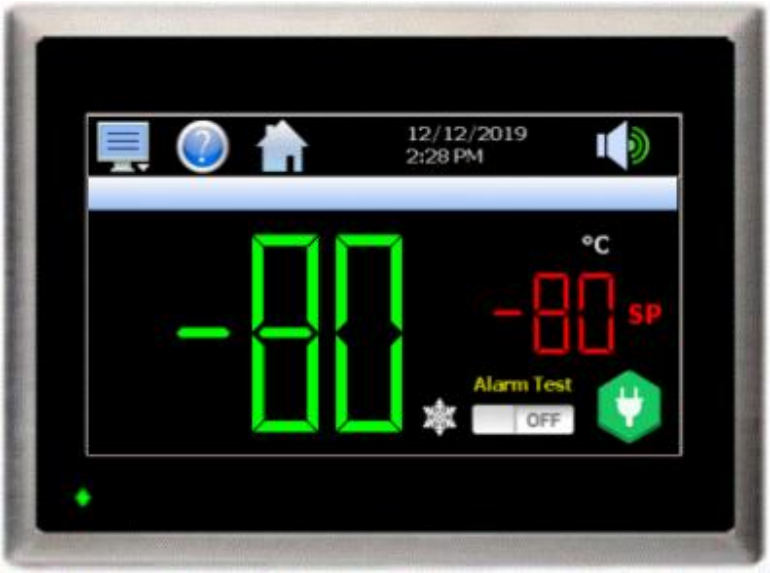
TEMPERATURE SET POINT

The control has two displays;
1) The upper display **(GREEN)** is the current actual unit temperature.
2) The lower display **(RED)** is the temperature set point.

The temperature set point has been pre-set at the factory. See page 1 for additional information on factory default setpoint.

CHANGING TEMPERATURE SETPOINT

The set point can be changed by simply pressing SP on the touchscreen display. Use the keypad to enter your desired set point temperature and press the done button on the display to confirm.



WARNING

CHANGING THE CONTROL PARAMETERS OUTSIDE OF THE MANUFACTURE RECOMMENDED RANGE, COULD SHORTEN THE LIFE-SPAN OF YOUR EQUIPMENT; OR CAUSE ISSUES RESULTING IN MECHANICAL FAILURE.

ALARM / RELAY OPERATION

ALARM SYSTEM

When operating the unit for the first time, the alarm will be disabled until the unit reaches set point, or 8 hours after the unit has been first plugged in. The alarm will not sound again until the unit goes out of temperature range.

THE FACTORY DEFAULT ALARM RANGE IS ±12°C (20°F) FROM SETPOINT.

DRY CONTACT RELAY

The dry contact relay is a terminal strip located on the back of the freezer.

RATING OF THIS CONNECTION:

2A 125 VAC

2A 30 VDC

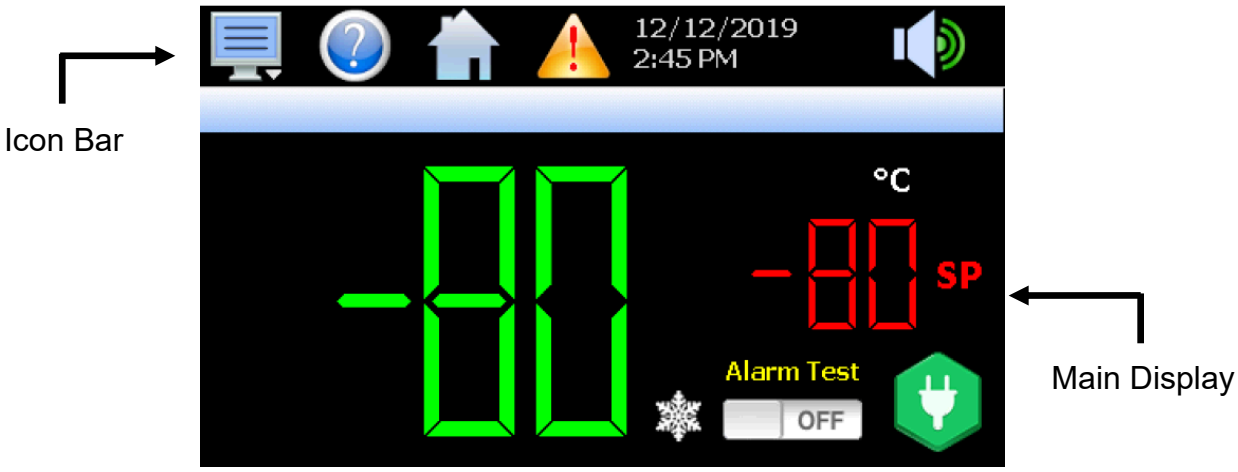
RED – NORMALLY CLOSED
WHITE – COMMON
BLUE – NORMALLY OPEN

WARNING

IF IT IS NECESSARY TO REMOVE METAL COVER SCREEN ON BACK OF FREEZER TO MAKE CONNECTIONS TO ALARM RELAY, COVER MUST BE REPLACED BEFORE FREEZER IS PUT INTO OPERATION

CONTROL KEYS & DISPLAYS

The nCompass display is split into two sections; the upper icon bar and bottom main display area. The basic functions and settings for the upper **Icon Bar** are listed below:





The menu icon will open the main menu for navigating to the different control and monitoring screens. Menu items will dynamically appear providing available options based on the system area the user is in, i.e., security, data logging, setup, etc.



The information (help) icon will display text based help associated with the current screen. Help is available in three languages, English, Spanish and French based on the user selection in the offline setup of section of nCompass.



The home icon will return the user to the main view from anywhere in the nCompass application. The main view is set by the OEM in the nCompass configuration and can be the single or dual loop, trend, alarm, alarm history, event or digital IO view.



The alarm icon will appear and flash when a new system alarm occurs. Pressing the alarm icon will take the user directly to the alarm monitor screen in order to view / reset the active alarm condition.



The speaker icon will open the volume control menu, which controls the audible level of temperature and condition alarms. The volume setting of “100” is the factory default setting. Moving the volume dial to the “0” will disable the audible alarm.

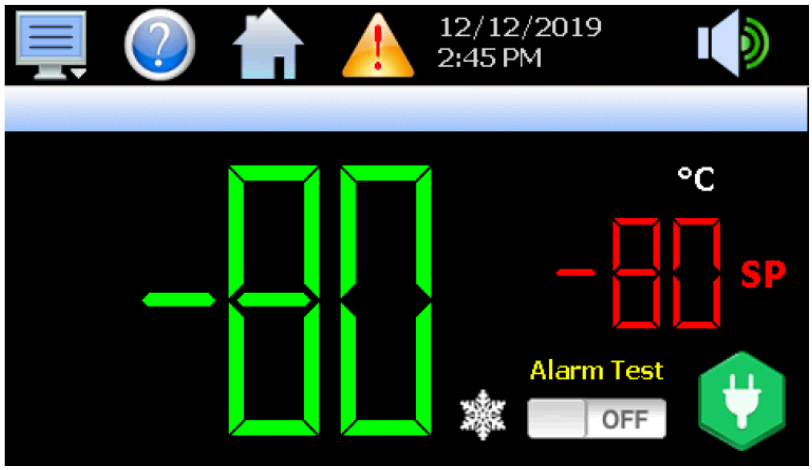


WARNING

DO NOT USE ANY SHARP OR METAL OBJECTS ON THE TOUCH SCREEN AS THEY MAY DAMAGE THE SURFACE. ALSO BE SURE THAT HANDS AND FINGERS ARE FREE FROM OILS OR CHEMICALS WHICH MAY MAR THE SURFACE OF THE TOUCH SCREEN

CONTROL DISPLAY VALUES

The nCompass display is split into two sections; the upper icon bar and bottom main display area. The basic functions and settings for the bottom **Display Area** are listed below:



ICON NAME	ICON	DESCRIPTION
Temperature Scale		Shows the temperature scale of the freezer (°C or °F), and allows you to reset the historical maximum and minimum temperature. See icon C for additional information.
Setpoint Temperature		Displays the setpoint temperature of the unit. Press and release the red numbers to change the setpoint temperature. Input the new setpoint temperature with number pad and press and release the done key.
Actual Temperature		Displays the actual temperature inside the unit. Press and release the green numbers to show the historical maximum / minimum temperatures.
Snowflake		Icon appears when the refrigeration system compressors are cycled on. There is no additional functionality of this icon.
Alarm Test		Displays alarm test status. Press and release to move the slider to the **ON** position, and sound the audible alarm as a test. Press the icon again to reset it to **OFF**. Note: If volume is set to “0”, no alarm will sound.
Power Connection		Displays current power connection for the control. AC power displays a green plug icon, while backup battery power displays a red battery icon. There is no additional functionality of this icon.



ATTENTION

LOADING TIME MAY REQUIRE SEVERAL SECONDS BEFORE INFORMATION IS DISPLAYED. RAPIDLY PRESSING ICONS MAY RESULT IN PARAMETERS BEING INCORRECTLY CHANGED UNINTENTIONALLY.

DATA DOWNLOAD VIA USB

The nCompass temperature recording data is stored internally in the device, and can be downloaded via **USB**. This data file is stored in CSV format, and can be opened on a computer using common applications such as Microsoft Excel.

STEP	DESCRIPTION	ICON	INSTRUCTIONS
1	Insert USB		Insert your USB Drive / Flash Drive into the USB port located on the front of the control.
2	Home Menu		Press the menu icon, at the top of the display area. This will open the Home menu.
3	Data Menu		Press the Data button, located in the Home menu. This will open the Data panel. This menu controls how data is transfer to your USB device.
4	Specify name of Data File		(Optional) Enter the requested information into the File Name field. If no file name is entered, the control will automatically generate a file name for you.
5	Save Data		Press the Save button, located in the Data menu.
6	Home		Press the home key, to return to the home screen.
7	Remove USB		Remove your USB Drive / Flash Drive from USB port located on the front of the control.



WARNING

DO NOT ATTEMPT TO REMOVE THE HARD DRIVE FROM THE DEVICE, AS DOING SO CAN RESULT IN DATA LOSS.



WARNING

DO NOT ATTEMPT TO REMOVE THE SD CARD FROM THE DEVICE, AS DOING SO CAN RESULT IN DATA LOSS.

DATA UNLOCK MODE

The nCompass advanced settings are locked to prevent tampering by unauthorized users. Follow the below procedure to place the freezer into "**OFFLINE MODE"** to access additional parameters.

1	Home Menu		Press the menu icon, at the top of the display area. This will open the Home menu.
2	Data Menu		Press the Data button, located in the Main menu. This will open the Data panel.
3	DATA		Press the Data button on the right hand side to turn the data light off/on. A **BRIGHT** green light indicates the data is turned on. A **DARK** green light indicates the data is turned off.
4	Home		Press the home key, to return to the home screen.



ATTENTION

WHEN THE DATA SETTING IS TURNED OFF (DARK GREEN ICON), TEMPERATURE DATA WILL NOT BE RECORDED.



OPERATING SYSTEM

THE NCOMPASS CONTROL USES A CUSTOM WINDOWS CE BASED SOFTWARE STORED ON AN INTERNAL HARD DRIVE INSIDE THE DEVICE. FUTURE DESIGN CONTROLS WINDOWS CE BASED NCOMPASS DISPLAY AND CONTROL MODULE (IDEC PLC) SOFTWARE (LISTED AS "SOFTWARE" IN THIS DOCUMENT) IS PROTECTED BY COPYRIGHT LAWS AND INTERNATIONAL COPYRIGHT TREATIES, AS WELL AS OTHER INTELLECTUAL PROPERTY LAWS AND TREATIES. ALL OWNERSHIP AND RIGHTS REMAIN WITH FUTURE DESIGN CONTROLS. THE NCOMPASS CONTROL DOES NOT RECEIVE SOFTWARE UPDATES THOUGH THE INTERNET, OR OTHER MEANS.

TO REMOVE USER DATA FROM THE DEVICE, PLEASE CONTACT FUTURE DESIGN CONTROLS, INC. (888-751-5444)

TEMPERATURE SCALE ADJUSTMENT

The nCOMPASS temperature controller has an adjustable temperature scale, and can be set to show temperatures in Celsius or Fahrenheit.

STEP	DESCRIPTION	ICON	INSTRUCTIONS
1	DATA OFF		Change the Data setting to OFF. See **DATA UNLOCK MODE** on page 12 for additional instructions.
2	Home Menu		Press the menu icon, at the top of the display area. This will open the Home menu.
3	Settings		Press the settings button, located in the Home menu. This will open the Settings panel.
4	Settings Menu		Press the menu icon, at the top of the display area. This will open the settings menu.
5	Offline Mode		Press the offline button, located in the Settings Menu. **Press YES when prompted to open the control in offline mode.** This will open the Offline mode panel.
6	Offline Menu		Press the menu icon, at the top of the display area. This will open the offline menu.
7	Units		Press the units button, located in the Offline menu. This will open the units panel.
8	Select Scale		Select the temperature scale (**Celsius** of **Fahrenheit**) you wish to display. **A BRIGHT** yellow icon indicates the scale has been selected. **A DARK** yellow icon indicates the scale has not been selected.
9	Home		Press the Home button when completed, to return to the home screen.
10	DATA ON		Change the Data setting to ON. See **DATA UNLOCK MODE** on page 12 for additional instructions.

OPERATING SYSTEM

ONCE THE TEMPERATURE SCALE HAS BEEN CHANGED, ALL PAST AND FUTURE TEMPERATURE DATA WILL BE CONVERTED INTO THE SELECTED TEMPERATURE SCALE.

CALIBRATION PROCEDURE

In cases where the unit temperature goes out of calibration, the nCOMPASS temperature controller can be calibrated to read the correct temperature.

STEP	DESCRIPTION	ICON	INSTRUCTIONS
1	DATA OFF		Change the Data setting to OFF. See **DATA UNLOCK MODE** on page 12 for additional instructions.
2	Home Menu		Press the menu icon, at the top of the display area. This will open the Home menu.
3	Settings		Press the settings button, located in the Home menu. This will open the Settings panel.
4	Settings Menu		Press the menu icon, at the top of the display area. This will open the settings menu.
5	Offline Mode		Press the offline button, located in the Settings Menu. **Press YES when prompted to open the control in offline mode.** This will open the Offline mode panel.
6	Offline Menu		Press the menu icon, at the top of the display area. This will open the offline menu.
7	Calibrate		Press the calibrate icon, located in the Offline menu. This will open the calibration menu.
8	User Calibration		Press “Perform User Calibration Offset” This will open the user calibration menu.
9	Low Point Offset		Enter the desired offset in the Low Point Offset Field. Press “Done” when completed.
10	Home		Press the Home button when completed, to return to the home screen.
11	DATA ON		Change the Data setting to ON. See **DATA UNLOCK MODE** on page 12 for additional instructions.



OPERATING SYSTEM

IMPROPER USE OF CALIBRATION CAN CAUSE FREEZER TEMPERATURE INACCURACIES AND FLUCTUATIONS.

FREQUENTLY ASKED QUESITONS

COMMON QUESTIONS

Q: When should I defrost my unit?

A: Units should be defrosted when ice accumulation reaches approximately 1/2 inch thick. Ice acts like an insulator and has to work harder to reach the same temperature.

Q: Is this unit self-defrosting?

A: No, this unit is a manual defrost unit.

Q: Should I leave my freezer operating when I am not using it?

A: This unit is designed to operate continuously. Leaving the refrigeration system in operation, (even if not in use) may extend the life of the freezer, and reduce the chance of refrigeration issues that may occur if the freezer is not in operation for long periods of time.

Q: What ambient conditions is this unit designed for?

A: This unit is designed for:

- Indoor use
- Altitude up to 2000m.
- Temperatures 15°C to 32°C (60°F TO 85°F)
- Recommended humidity range of 30% to 90%.

Q: What electrical conditions is this unit designed for?

A: This unit is designed for:

- Mains supply fluctuations up to -5% to +10% of the nominal voltage. Consult the serial tag for nominal voltage.
- Transient overvoltage typically present on the mains supply (overvoltage category II). Pollution degree 1.

Q: Does my unit require a dedicated electrical line?

A: Yes, this unit requires a dedicated electrical line.
Please consult the labels on your unit for specific electrical requirements.

Q: Will the backup battery keep my unit cool during power failure?

A: NO, the backup battery only powers the alarm during power failure. It will not power the refrigeration system, and will not keep the unit cooling during power outages.

Q: Will the freezer start up after a power outage?

A: Yes, the freezer will automatically re-start when power is restored.
The overall restart process will begin in stages to prevent system overloads; and may take up to minutes after re-start before cooling resumes.

COMPRESSOR MODEL	HP	VOLTAGE	HERTZ	PHASE	PART #
EMBRACO FMFT415U	1	115	50/60	1	**FMFT415U-115**

TEMPERATURE CONTROL PARTS	PART #
FDC nCOMPASS	**nCOMPASS**
Dixell controller XWi70K	**XWi70k**

CASCADE ELECTRICAL PARTS	PART #
Heater Harness No. H-200	**217-VOLTAGE**
Refrigeration Switch No. 2X464	**TOGGLE**
Condenser Fan Motor Hilo 10"	**FBS25Y4AA4004L_M**
Control Board No. CECB2TUV **(Please Specify Voltage)**	**231-VOLTAGE**

REFRIGERATION HIGH STAGE PARTS	PART #
Air Cooled Condenser No. 3CZ0602B	**254**
Drier No. C-052-S	**256L**
Capillary Tube	**HS-20**
Oil Separator, Temprite Series 900 **(If Applicable)**	**900**

REFRIGERATION LOW STAGE PARTS	PART #
Pressure Control No. 20PS01-0039	**259**
Receiver Condenser: Danfoss Plate Heat Exchanger	**RCN-LS**
Drier No. C-052S-S	**256L**
Capillary Tube	**LS-31**
Oil Separator, Temprite Series 900 **(If Applicable)**	**900**

HARDWARE PARTS	PART #
Latch No. METL-L1-99	**REX37L1-3**
Chest Hinge	**59-928M**
Upright Hinge No. Polar 109-LH	**59-928U**
Cabinet Gasket	**NX504B1**
Lid or Door Gasket	**Model Specific**
Grill No. 650H	**356F, 356S**
Sub-Lids **(Must have Model Number)**	**SL-MODEL NUMBER**
Inner Door **(Must have Model & Serial Number)**	**357-MODEL NUMBER-SERIAL NUMBER**
Clips & Rollers for Inner Doors **(Quantity 10 minimum)**	**405**
Shelves for Freezer **(Must have Model Number)**	**4015-MODEL NUMBER**

TECHNICAL ASSISTANCE

IN CASE OF REQUEST FOR REPAIR

If failure occurs, stop operation of unit, and turn OFF the breaker power switch located in the electrical panel box, and unplug the power plug.

WARNING

IF FAILURE OCCURS AND UNIT IS STILL UNDER WARRANTY, DO NOT ATTEMPT TO MAKE ANY REPAIR MODIFICATIONS TO THE UNIT BEFORE CONTACTING THE SO-LOW SERVICE DEPARTMENT, AS THIS MAY RESULT IN WARRANTY BEING VOIDED.

< CHECK FOLLOWING ITEMS BEFORE CALLING OR EMAILING >

◆ Model Number of Product

_____

◆ Serial Number of Product

_____

◆ Issue (as detailed as possible)

_____

_____

_____

_____

So-Low Environmental Equipment Company
10310 Spartan Drive
Cincinnati, OH 45215-1221
Tel: 513-772-9410
http://www.so-low.com

For customer service:
Email: sales@so-low.com

For parts replacement:
Email: parts@so-low.com

For technical support:
Email: service@so-low.com

MAINTENANCE CHECKLIST

IT IS RECOMMENDED TO COMPLETE CHECKLIST EVERY 30 DAYS

◆ MODEL NUMBER OF PRODUCT _____

◆ SERIAL NUMBER OF PRODUCT _____

Checked that freezer is operating at the correct setpoint temperature. ☐

Checked operation of condenser fans, and cleaned air cooled condenser. ☐

Confirmed unit is at least 6 inches away from walls, or obstacles, on all sides to allow for sufficient air flow. ☐

Confirmed ambient room temperature is within range acceptable ranges. ☐
Recommended room temperature range is 15°C to 26°C (60°F TO 80°F)

◆ **AMBIENT ROOM TEMPERATURE IS:** _____°

Checked operation of alarm system on unit. ☐
Note: Alarm can be simulated by temporarily raising setpoint out of range.

Checked temperature recorders for proper operation (If applicable). ☐
Note: If there are any deviations observed, further diagnosing may be required.

Check operation of CO2 or LN2 backup system. (If applicable) ☐

ITEMS BELOW MUST BE CHECKED BY YOUR IN-HOUSE TECHNICAL PROFESSIONAL
USE CAUTION WHEN WORKING AROUND ELECTRICAL CIRCUITS

Checked AMP draw of unit when compressors stabilize. ☐

Checked incoming voltage and voltage drop when compressors start up. ☐

◆ NOTES

_____

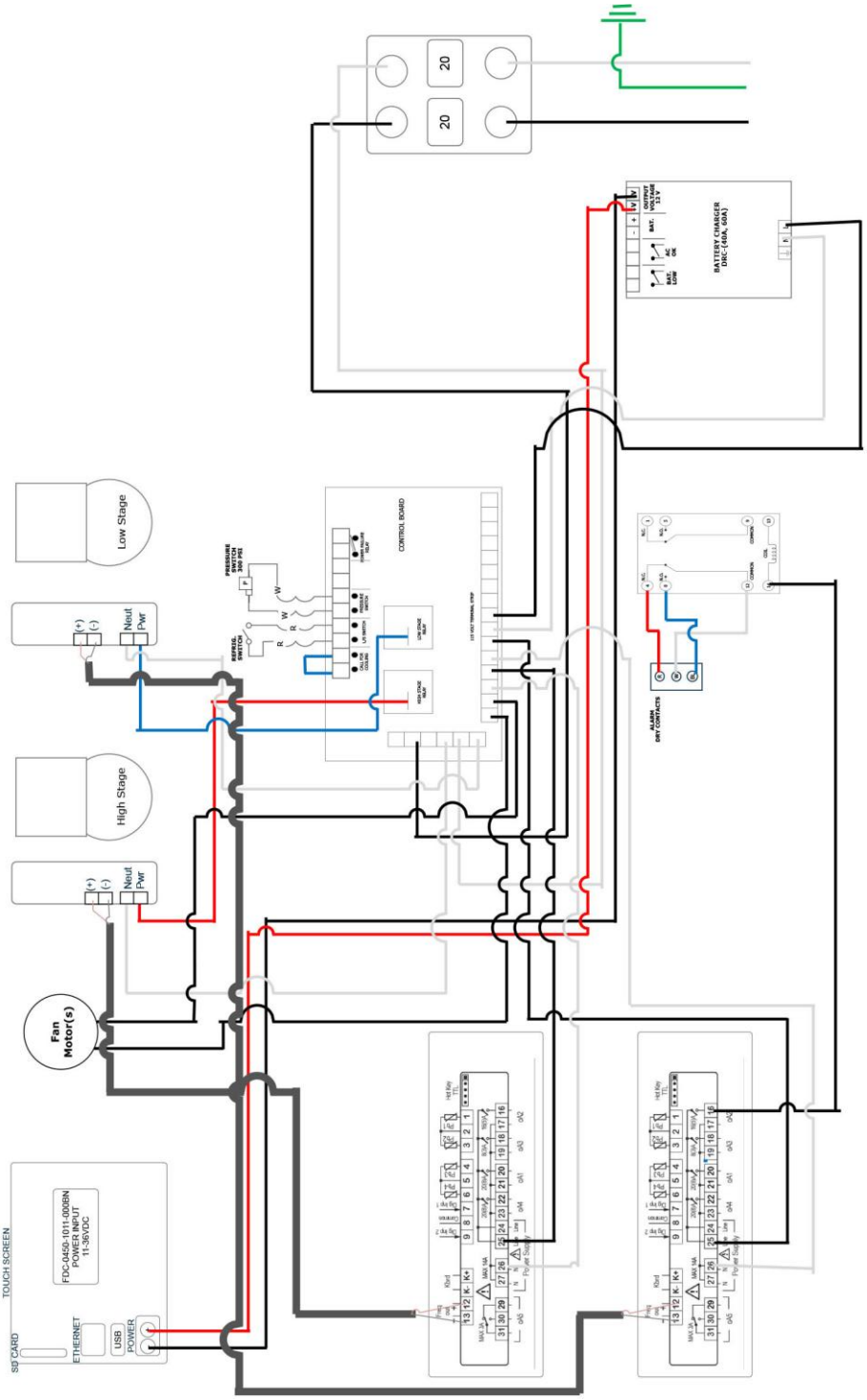
_____

◆ COMPLETED BY _____

◆ COMPLETED DATE _____

DIAGRAMS

NOTE: DIAGRAM ONLY APPLIES TO STANDARD CONFIGURATION (115 - 230 VOLT CASCADE), AND MAY NOT NECESSAIRLY APPLY TO YOUR SPECIFIC UNIT. CONSULT A CERTIFIED REFRIGERATION EXPERT.



DIAGRAMS

NOTE: DIAGRAM ONLY APPLIES TO STANDARD CONFIGURATION, AND MAY NOT NECESSAIRLY APPLY TO YOUR SPECIFIC UNIT. CONSULT A CERTIFIED REFRIGERATION EXPERT.

