INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS
for
HOAM and VOAM Open Air Merchandisers

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INTRODUCTION

Thank you for purchasing this cabinet. This manual contains important instructions for installing, using and servicing an Open Air Merchandiser. Read all these documents carefully before installing or servicing your equipment. This manual should be left in the care of the store owner or manager.

STORE CONDITIONS / LOCATION

The OAM cases are designed to operate in the controlled environment of an air conditioned store. The store temperature should be at or below +75°F and a relative humidity of 55% or less. At higher temperature or humidity conditions, the performance of these cases may be affected and the capacity diminished. It is not uncommon in a newly constructed store for the temperature and humidity to be above design conditions. These excessive conditions may produce sweating in the case until the store is operational and the ambient environment is more desirable.

The OAM case should not be positioned where it is directly exposed to rays of the sun or near a direct source of radiant heat or air flow. No HVAC return or supply air ducts may be located near case openings. This will adversely affect the case air flow and will result in poor performance. Do not open windows or doors that will affect the case air flow. The maximum air velocity near the case air return is 50 FPM. If this case is to be located against a wall there should be at least a 6" space between the wall and the back of the case. The cabinet also requires a clearance of 10" at the top. This space will allow for the circulation of air behind the case.

These cases should always be loaded properly. This unit will operate differently when loaded or unloaded. Consult the section of this manual that specifies loading procedures.

A pipe loop acts as a trap is included with each case. It is important that each case has this installed. Consult the section of this manual for installing and piping the drain.

NOTICE

Read this manual before installing your cabinet. Keep the manual and refer to it before doing any service on the equipment. Failure to do so could result in personal injury or damage to the cabinet.

DANGER

Improper or faulty hook-up of electrical components of the refrigeration units can result in severe injury or death. All electrical wiring hook-ups must be done in accordance with all applicable local, regional or national standards.

NOTICE

Installation and service of the refrigeration and electrical components of the cabinet must be performed by a refrigeration mechanic and/or a licensed electrician.

The portion of this manual covering refrigeration and electrical components contain technical instructions intended only for persons qualified to perform refrigeration and electrical work.
This manual cannot cover every installation, use or service situation. If you need additional information, call or write our Customer Service Department.

WARNING LABELS AND SAFETY INSTRUCTIONS

This symbol is the safety-alert symbol. When you see this symbol on your cabinet or in this manual, be alert to the potential for personal injury or damage to your equipment.

Be sure you understand all safety messages and always follow recommended precautions and safe operating practices.

NOTICE TO EMPLOYERS

You must make sure that everyone who installs, uses or services your cabinet is thoroughly familiar with all safety information and procedures.

Important safety information is presented in this section and throughout this section and throughout the manual. The following signal words are used in the warnings and safety messages:

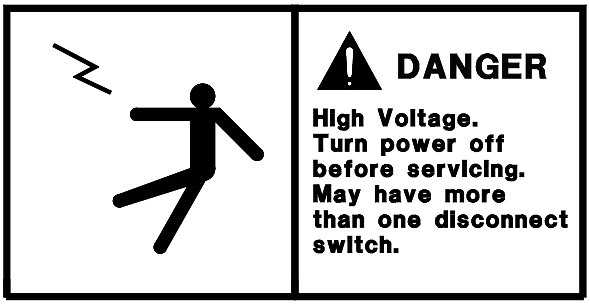
DANGER: Severe injury or death will occur if you ignore the message.

WARNING: Severe injury or death can occur if you ignore the message.

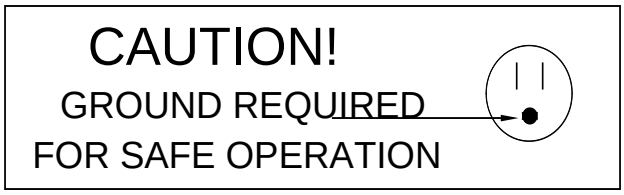
CAUTION: Minor injury or damage to your cabinet can occur if you ignore the message.

NOTICE: This is important installation, operation or service information. If you ignore the message, you may damage your cabinet.

The warning and safety labels shown throughout this manual are placed on your Nor-Lake Products cabinet at the factory. Follow all warning label instructions. If any warning or safety labels become lost or damaged, call your customer service department at (800) 388-5253 for replacements.



This label is located on the electrical control box and on the rear access cover.



This label is attached to the cabinet power cord on models with a power cord.

PRE-INSTALLATION INSTRUCTIONS

INSPECTION FOR SHIPPING DAMAGE

You are responsible for filing all freight claims with the delivering truck line. Inspect all cartons and crates for damage as soon as they arrive. If damage is noted to shipping crates or cartons or if a shortage is found, note this on the bill of lading (all copies) prior to signing.

If damage is discovered when the cabinet is uncrated, immediately call the delivering truck line and follow up the call with a written report indicating concealed damage to your shipment. Ask for an immediate inspection of your concealed damage item. Crating material must be retained to show the inspector from the truck line.

INSTALLATION INSTRUCTIONS

GENERAL INSTRUCTIONS

1. Be sure the equipment is properly installed by competent service people.

2. Keep the equipment clean and sanitary so it will meet your local sanitation codes. Wipe up all spills, clean with water and a mild detergent, then rinse with clean water. A reservoir is provided to contain inner spills. Peridocially inspect reservoir and clean as needed.

3. Rotate your stock so that older stock does not accumulate. A "First-In, First-Out" rotation practice will keep the products in good salable condition.

4. Product should not be put in the case for at least 2 hours after it is started.

5. Stock cases as quickly as possible, exposing only small quantities to store temperatures for short periods of time.

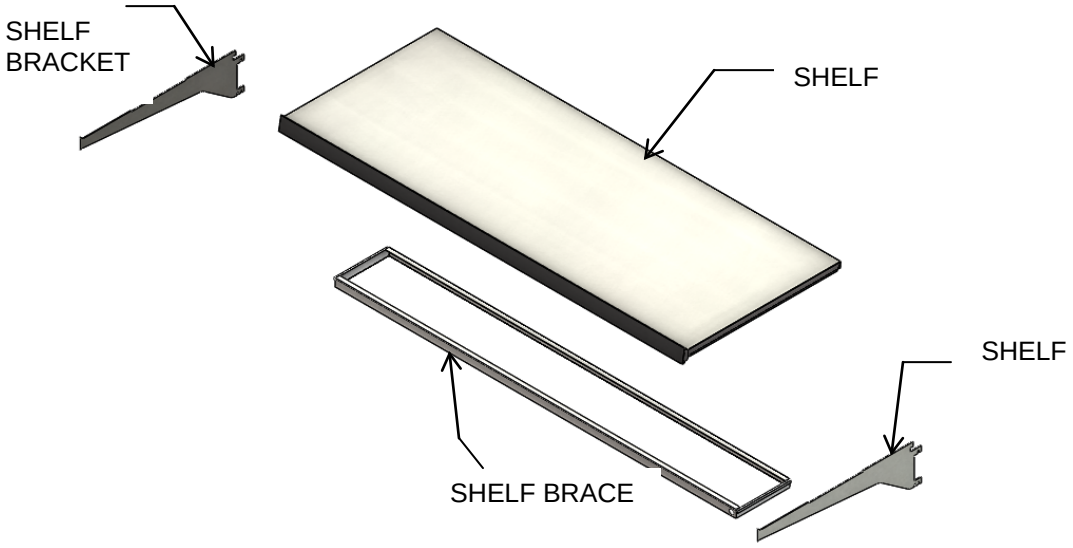
6. When replacing burned out LED light bars, be sure that the electrical power to the lighting circuit is turned off.

To comply with Sanitation requirements, this cabinet must be mounted on casters, legs (6" high min.) or the base must be sealed to the floor with NSF listed silicone sealant. Minimum clearance as follows: 10" air space at top, 6" at the rear, and 0" air space at each side required for compliance.

THERMOMETER INSTALLATION

Install provided thermometer at the clip on the price tag moulding near the top left edge of the case. Remove the tape backing and press the thermometer in place.

SHELF INSTALLATION



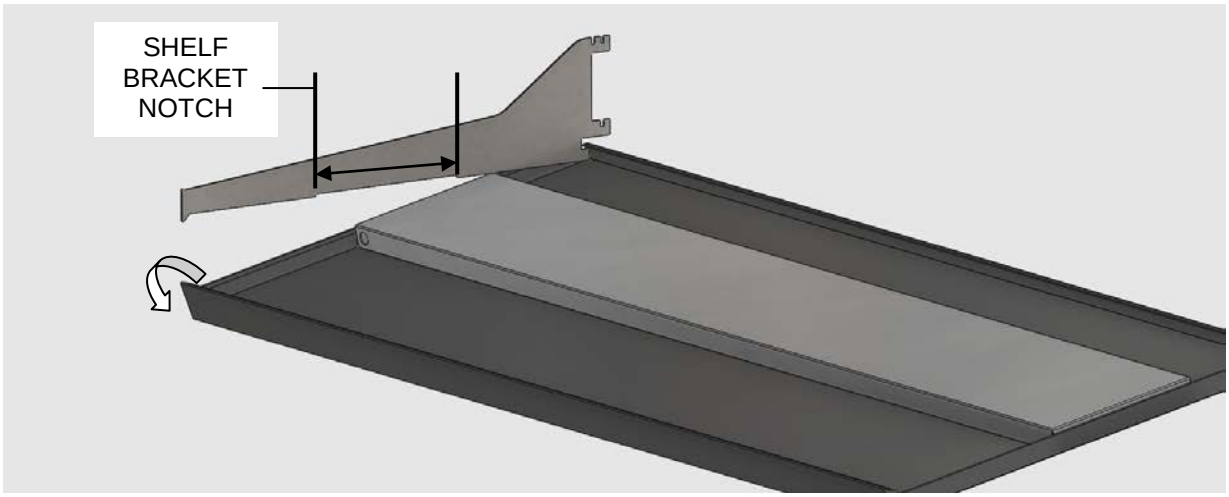
Shelf Assembly Items

1) If this is a lighted shelf assembly, position shelf brace and cable as shown in the image below. *If this is not a lighted shelf assembly, skip this step and proceed to the next step.*

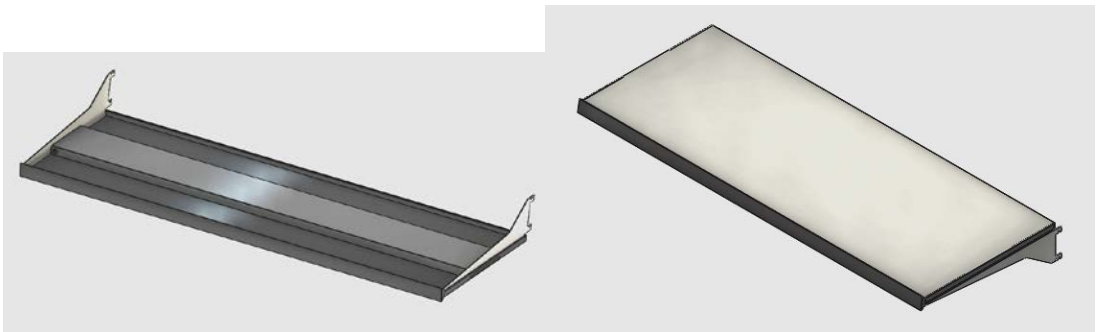
2) With shelf top turned upside down, position shelf brace midway inside shelf top and position the shelf brace so the electrical outlet hole is to the left side of the shelf top.

OR

3) Position a shelf bracket with its sides flush with the inside of shelf top and angled as shown in the image below. To fully secure the shelf bracket, the installer needs to pry the angle of the shelf top ,indicated by arrow in the image, so the bracket will snap under shelf top while also manuevering the shelf brace so it fits in the notch of the shelf bracket as the shelf bracket is being lowered into the shelf top. Perform for both sides of the shelf assembly.

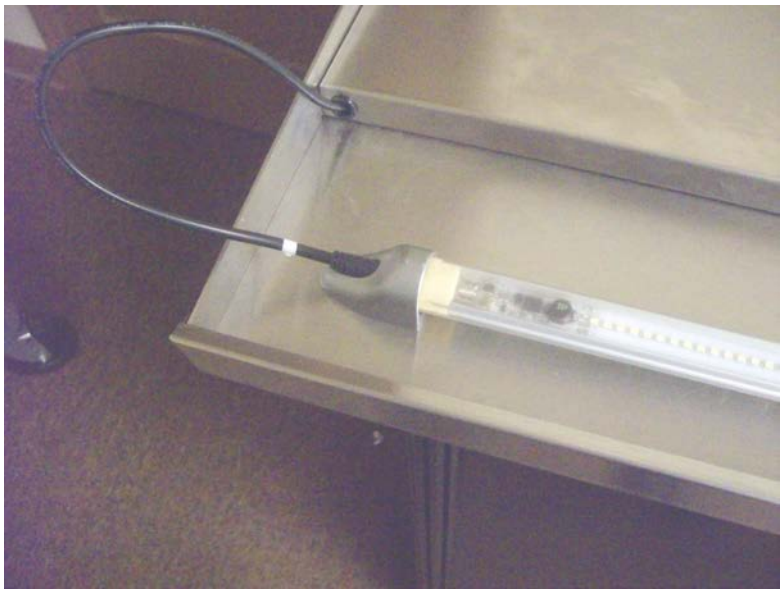


The completed assembly should look similar to the images below.

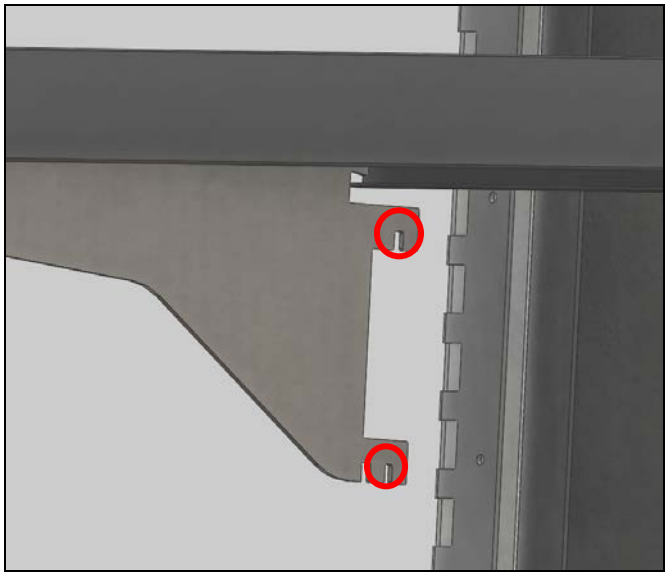


Upside down view of completed shelf assembly ***Upright isometric view of shelf assembly***

4) If this is the shelf lighting assembly ,mount lighting assembly in desired location on shelf using magnetic brackets and pull cable as needed to decrease slack in cable.

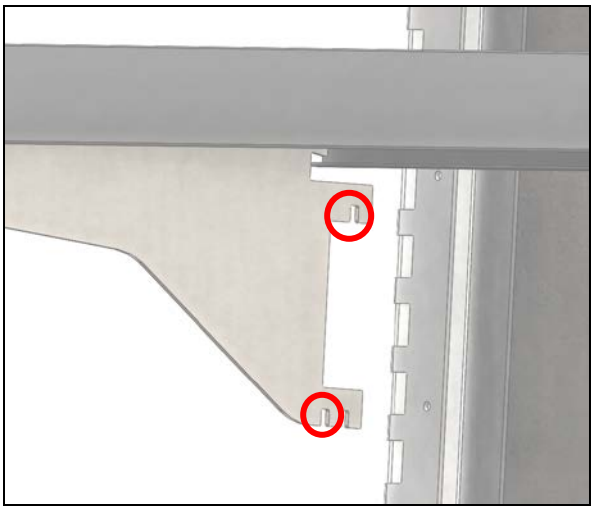


5) The shelves can be positioned to stock products horizontally or at an angle. To position the shelves horizontally, use the notches indicated on the shelf bracket at the desired level using the spaces available on the pilasters. Make sure the corresponding pilaster slots are used on both sides to make sure shelves are level.



Use the outside notches on shelf bracket to position the shelf assemblies horizontally

6) To position the shelves at a slight angle, use the notches indicated on the shelf bracket at the desired level using the spaces available on the pilasters. Make sure the corresponding pilaster slots are used on both sides to make sure shelves are level.



Use the inside notches on shelf bracket to position shelf assemblies at an angle

7) If this is a lighted shelf assembly, plug cable into the nearest outlet located on back panel.

PLUMBING

Each OAM case has an optional electric, heated condensate pan and a looped drain hose connecting the drain to the outside of the case. It is very important that this loop not be removed as it will result in diminished peformance of the case without it. End user should plumb drain hose to floor drain. Please observe the following:

1. Always install drains in accordance with local codes.
2. Use largest possible size pipe for drains, ½" ID minimum is recommended.
3. Provide as much downhill slope as possible.
4. Prevent drains from freezing. Do not install drains in contact with uninsulated suction lines.

If it is preferred to use the heated condensate pan:

1. Remove rear guard from refrigeration area.
2. Remove drain hose from loop inside condensate pan (DO NOT REMOVE LOOP) and discard
3. Remove condensate power cord from refrigeration area, and route thru bushing where drain hose was.
4. Re-install rear guard, connect condensate vaporizer cord to dedicated 115v outlet.

NOTICE TO STORE OWNERS / MANAGERS

Moisture or liquid around or under the cabinet is a potential slip/fall hazard for persons walking by or working in the general area of the cabinet. Any cabinet malfunction or housekeeping problem that creates a slip/fall hazard around or under the cabinet should be corrected <u>immediately.</u>

- *If moisture or liquid is observed around or under a cabinet, an immediate investigation should be made by qualified personnel to determine the source of the moisture or liquid. The investigation made should determine if the cabinet is malfunctioning or if there is a drain pipe leaking.*

ELECTRICAL

WARNING

Before servicing electrical components in the case make sure all power to case is off. Always use a qualified technician.

STARTING PROCEDURE

1. Start compressor and allow the case to pull down to 42 degrees or below before placing product into the OAM**.**

2. Check that the compressor cycles off and back on at least once.

FINAL CHECK LIST

A. Check that the evaporator drain line is properly connected.

B. All shelves are properly installed.

C. All LED light bars are properly secure to the bottom of the shelf and plug to the cabinet's back wall.

D. Check electrical supply voltage to make sure it is in range.

E. All loose items and debris is removed from inside of unit and lower equipement compartment.

F. Check condensing unit for vibrating or rubbing tubing. Dampen and clamp as required.

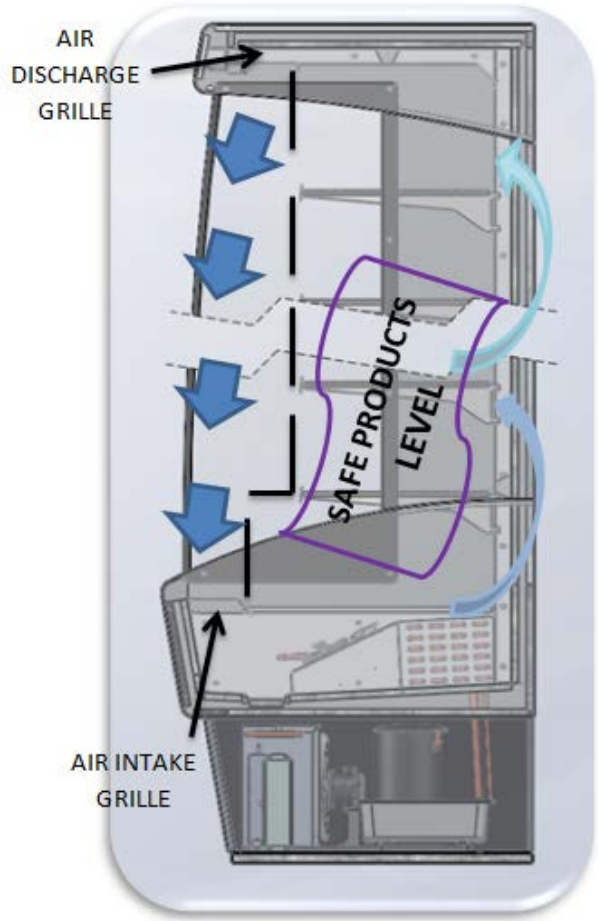
G. Check that the temperature inside of the case is between 35 and 42 degrees.

LOADING

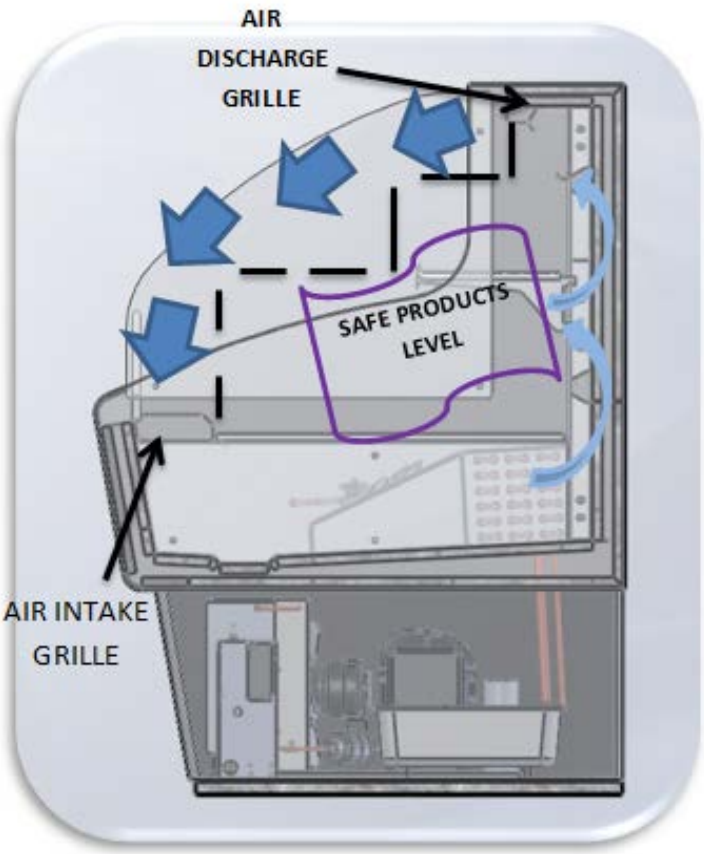
Product should be at or below operating temperature before being placed in cabinet. Stock cases as quickly as possible, exposing only small quantities to store temperatures for short periods of time. It is important to keep stock rotated properly so that older stock does not accumulate. A "First-In, First-Out" rotation practice will keep the products in good salable condition. Avoid loading the case so that product sticks out beyond the shelves or blocking the return air grille at the bottom of the case. This will interfere with the air flow of the case and will result in diminished performance.

PLACING PRODUCT IN THE CABINET

Do not load the cabinet with product to the point that the air discharge grille, air intake grille, or the air curtain created by the discharge air, is blocked. The following diagrams shows proper loading for a Vertical & Horizontal Open Air Merchandiser, VOAM & HOAM.



Vertical Open Air Merchandiser (VOAM)



Horizontal Open Air Merchandiser (HOAM)

CLEANING

To avoid electrical shock, turn the power off before cleaning.

The OAM cabinets are designed so that spills will accumulate in a drain pan. The drain pan is located underneath the return air grille/air intake grille. Be sure to clean all areas with a mild detergent and water periodically.

ELECTRONIC REFRIGERATION CONTROL

DESCRIPTION

Fig.1 — Front panel

i Info / Setpoint button.

Manual defrost / Decrease button.

INDICATIONS

Thermostat output

Fan output

RL3 Auxiliary output

II° Activation of 2nd parameter set

Alarm

M Increase / manual activation button.

Exit / Stand-by button.

OPERATION

DISPLAY

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

DEF	Defrost in progress	**HI**	Room high temperature alarm
REC	Recovery after defrost	**LO**	Room low temperature alarm
OFF	Controller in stand-by	**E1**	Probe T1 failure
CL	Condenser clean warning	**E2**	Probe T2 failure
DO	Door open alarm		

INFO MENU

The information available in this menu is:

T1	Instant probe 1 temperature	**TLO**	Minimum probe 1 temperature recorded
T2	Instant probe 2 temperature	**CND**	Compressor working weeks
THI	Maximum probe 1 temperature recorded	**LOC**	Keypad state lock

Compressor When power is first turned on to the control, the LED indicator under COMP on the display starts blinking. After one-minute delay the compressor comes on. The LED indicator stays on while compressor relay is energized. Display will show actual box temperature. Picture above is the display layout. The compressor will be cycled off when the actual box temperature reaches its set point. The COMP indicator will be off.

Fan The fans will run constantly during cool mode and defrost mode. When the evaporator temp is above 55^{o}F the FAN will be off.

Defrost The control uses time defrost with 6 defrost per day. The defrost scheme can be re-set for special applications. During defrost the display will show DEF and the defrost LED indicator on. The control begins timing the defrost when power is turned on. Four defrost per day means it will occur every 4 hours.

MANUAL DEFROST

Defrosting my also be induced manually by keeping the defrost button pressed for 3 seconds. Once defrost has started, cabinet will go through defrost and drip time pull down cycle.

HOW TO CHANGE THE SETPOINT

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

HOW TO CHANGE a parameter value

- The setup menu is accessed by pressing button ✕+i for 5 seconds.
- With button ▼ or ▲ select the parameter to be modified.
- Press button i to display the value.
- By keeping button i pressed, use button ▼ or ▲ to set the desired value.
- When button i 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.

LIST OF PARAMETERS

Here is a list of the parameters the value of which can be changed in the programming mode, as well as their ranges.

Display Symbol	Parameter	Range	Nor-Lake's Setting
SP	Temperature Set Point	SPL…SPH	30°F
HYS	Temperature Differential	1 to 255°F	5°
SPL	Minimum Temperature limit setpoint	-50…SPH	25°F
SPH	Maximum Temperature limit setpoint	SPH…120°	40°F
AHA	High Temperature alarm	-50…120°	65°F
ALA	Low Temperature Alarm	50…120°	0°F
ATD	Temperature Alarm Delay	0…120min	30min
DFR	Number of Defrost Cycle per 24hr	0…24	6/day
DLI	Defrost Termination Temperature	-50…120°	40°F
DTO	Maximum Defrost Duration	1…120min	10 min

ELECTRICAL CONNECTIONS

The controller is provided with screw/push terminal block to connect cables with a cross section up to 2,5 mm^2. Before connecting cables make sure the power supply complies with the control's requirements. Separate the probe cables from the power supply cables, from the outputs and the power connections. Do not exceed the maximum current allowed on each relay, in case of heavier loads use a suitable external relay or contactor's.

PROBE CONNECTIONS

The probes shall be mounted with the bulb upwards to prevent damages due to casual liquid infiltration. It is recommended to place the thermostat probe away from air streams to correctly measure the average room temperature.

SENSOR PROBE TEMPERATURE AND RESISTANCE
NTC10K Temperature-Resistance

Temp (ºC)	Temp (ºF)	R-low (Kohm)	R-center (Kohm)	R-high (Kohm)
-40	-40	188.021	195.652	203.573
-35	-31	142.788	148.171	153.741
-30	-22	109.522	113.347	117.294
-25	-13	84.823	87.559	90.374
-20	-4	66.270	68.237	70.255
-15	5	52.229	53.650	55.104
-10	14	41.477	42.506	43.557
-5	23	33.147	33.892	34.651
0	32	26.678	27.219	27.767
5	41	21.630	22.021	22.417
10	50	17.643	17.926	18.210
15	59	14.472	14.674	14.877
20	68	11.938	12.081	12.224
25	77	9.900	10.000	10.100
30	86	8.217	8.315	8.413
35	95	6.854	6.948	7.043
40	104	5.745	5.834	5.923
45	113	4.834	4.917	5.001
50	122	4.084	4.161	4.239
55	131	3.464	3.535	3.607
60	140	2.949	3.014	3.081
65	149	2.526	2.586	2.647
70	158	2.173	2.228	2.283
75	167	1.875	1.925	1.976
80	176	1.623	1.669	1.715
85	185	1.411	1.452	1.495
90	194	1.230	1.268	1.307
95	203	1.075	1.110	1.145
100	212	0.942	0.974	1.006
105	221	0.829	0.858	0.888
110	230	0.732	0.758	0.785
115	239	0.647	0.671	0.696
120	248	0.574	0.596	0.619
125	257	0.511	0.531	0.552

SERVICE INSTRUCTIONS (Trouble Shooting Guide)

1. High head pressure and high back pressure:
   - A. Condenser coil clogged or restricted.
   - B. Condenser fan motor defective.

2. Low back pressure and low head pressure:
   - A. Restriction in system.
   - B. Refrigerant undercharged.
   - C. Leak in system.

3. Pressures normal – cabinet warm:
   - A. Coil blocked with frost or ice.
   - B. Control set too warm.
   - C. Air screen disturbance.

4. Coil blocked with frost or ice:
   - A. Defective temperature control
   - B. Defective or disconnected coil sensor.
   - C. Improper control setting.
   - D. Ambient conditions above **75°F**
   - E. Pipe loop acts as a trap in drain not installed.
   - F. Evaporator fan motor defective.
   - G. Air screen disturbance.

5. Compressor starts and runs – but cycles on overload:
   - A. Low voltage.
   - B. Dropped phase (3 phase).
   - C. Overload protector defective.
   - D. High head pressure (see#1).
   - E. Relay or Capacitor defective.

6. Compressor will not start – hums, but cycles on overload.
   - A. Low voltage.
   - B. Relay defective.
   - C. Overload protector defective.
   - D. Start capacitor defective.
   - E. High head pressure (see #1)

REPLACEMENT PART NUMBERS

The tables below list replacement part numbers. Use this chart when ordering replacement parts for your VOAM AND/OR HOAM cases.

Description	VOAM 36-60	VOAM 48-60	VOAM 60-60	VOAM 72-60
Compressor	159267	159268	159269	159269
Condensate Pan	159270	159270	159271	159271
Condenser Coil	159272	159273	159274	159274
Condenser Fan Blade	159275	159275	159275	159275
Condenser Fan Motor	159276	159276	159276	159276
Contactor	159277	159277	159277	159277
Drier	155743	155743	155743	155743
Evaporator Coil	159279	159280	159281	159282
Evaporator Fan Blade	159283	159283	159283	159283
Evaporator Fan Motor	155726	155726	155726	155726
Electronic Controller	155746	155746	155746	155746
Box Sensor T1	155747	155747	155747	155747
Expansion Valve	159287	159288	159289	159289
Female Plug	159290	159290	159290	159290
LED Driver (Convertor)	159291	159292	159292	159292
LED Light Bar End Caps	159293	159293	159293	159293
LED Light Bar Power Cord	159294	159294	159294	159294
LED Light Bar, 18"	NA	NA	159294	NA
LED Light Bar, 24"	159296	NA	NA	159296
LED Light Bar, 36"	NA	159297	NA	NA
Light Switch	155504	155504	155504	155504
Thermometer	155744	155744	155744	155744
Refrigerant (R-404a)1	092126	092126	092126	092126

REPLACEMENT PART NUMBERS

The tables below list replacement part numbers. Use this chart when ordering replacement parts for your VOAM AND/OR HOAM cases.

Description	VOAM 36-72	VOAM 48-72	VOAM 60-72	VOAM 72-72
Compressor	159268	159269	159146	159146
Condensate Pan	159271	159271	159147	159147
Condenser Coil	159273	159274	159274	159274
Condenser Fan Blade	159275	159275	159275	159275
Condenser Fan Motor	159276	159276	159148	159148
Contactor	159277	159277	159149	159149
Drier	155743	155743	155743	155743
Evaporator Coil	159279	159280	159281	159282
Evaporator Fan Blade	159283	159283	159283	159283
Evaporator Fan Motor	155726	155726	155726	155726
Electronic Controller	155746	155746	155746	155746
Box Sensor T1	155747	155747	155747	155747
Expansion Valve	159288	159289	159289	159289
Female Plug	159290	159290	159290	159290
LED Driver (Convertor)	159291	159291	159142	159142
LED Light Bar End Caps	159293	159293	159293	159293
LED Light Bar Power Cord	159294	159294	159294	159294
LED Light Bar, 18"	NA	NA	159295	NA
LED Light Bar, 24"	159296	NA	NA	159296
LED Light Bar, 36"	NA	159297	NA	NA
Light Switch	155504	155504	155504	155504
Thermometer	155744	155744	155744	155744
Refrigerant (R-404a)1	092126	092126	092126	092126

REPLACEMENT PART NUMBERS

The tables below list replacement part numbers. Use this chart when ordering replacement parts for your VOAM AND/OR HOAM cases.

Description	VOAM 36-79	VOAM 48-79	VOAM 60-79	VOAM 72-79
Compressor	159268	159269	159146	159146
Condensate Pan	159271	159271	159147	159147
Condenser Coil	159273	159274	159274	159274
Condenser Fan Blade	159275	159275	159275	159275
Condenser Fan Motor	159276	159276	159148	159148
Contactor	159277	159277	159149	159149
Drier	155743	155743	155743	155743
Evaporator Coil	159279	159280	159281	159282
Evaporator Fan Blade	159283	159283	159283	159283
Evaporator Fan Motor	155726	159726	159726	155726
Electronic Controller	155746	155746	155746	155746
Box Sensor T1	155747	155747	155747	155747
Expansion Valve	159288	159289	159289	159289
Female Plug	159290	159290	159290	159290
LED Driver (Convertor)	159292	159142	159142	159412
LED Light Bar End Caps	159293	159293	159293	159293
LED Light Bar Power Cord	159294	159294	159294	159294
LED Light Bar, 18"	NA	NA	159295	NA
LED Light Bar, 24"	159296	NA	NA	159296
LED Light Bar, 36"	NA	159297	NA	NA
Light Switch	155504	155504	155504	155504
Thermometer	155744	155744	155744	155744
Refrigerant (R-404a)1	092126	092126	092126	092126

REPLACEMENT PART NUMBERS

The tables below list replacement part numbers. Use this chart when ordering replacement parts for your VOAM AND/OR HOAM cases.

Description	HOAM 36	HOAM 48	HOAM 60	HOAM 72
Compressor	159267	159267	159268	159268
Condensate Pan	159270	159270	159271	159271
Condenser Coil	159272	159272	159273	159273
Condenser Fan Blade	159143	159143	159143	159143
Condenser Fan Motor	159276	159276	159276	159276
Contactor	159277	159277	159277	159277
Drier	155743	155743	155743	155743
Evaporator Coil	159278	159284	159285	159286
Evaporator Fan Blade	155740	155740	155740	155740
Evaporator Fan Motor	155726	155726	155726	155726
Electronic Controller	155746	155746	155746	155746
Box Sensor T1	155747	155747	155747	155747
Expansion Valve	159287	159287	159288	159288
Female Plug	159290	159290	159290	159290
LED Driver (Convertor)	159291	159291	159291	159291
LED Light Bar End Caps	159293	159293	159293	159293
LED Light Bar Power Cord	159294	159294	159294	159294
LED Light Bar, 18"	NA	NA	159295	NA
LED Light Bar, 24"	159296	NA	NA	159296
LED Light Bar, 36"	NA	159297	NA	NA
Light Switch	155504	15504	155504	155504
Thermometer	155744	155744	155744	155744
Refrigerant (R-404a)1	092126	092126	092126	092126

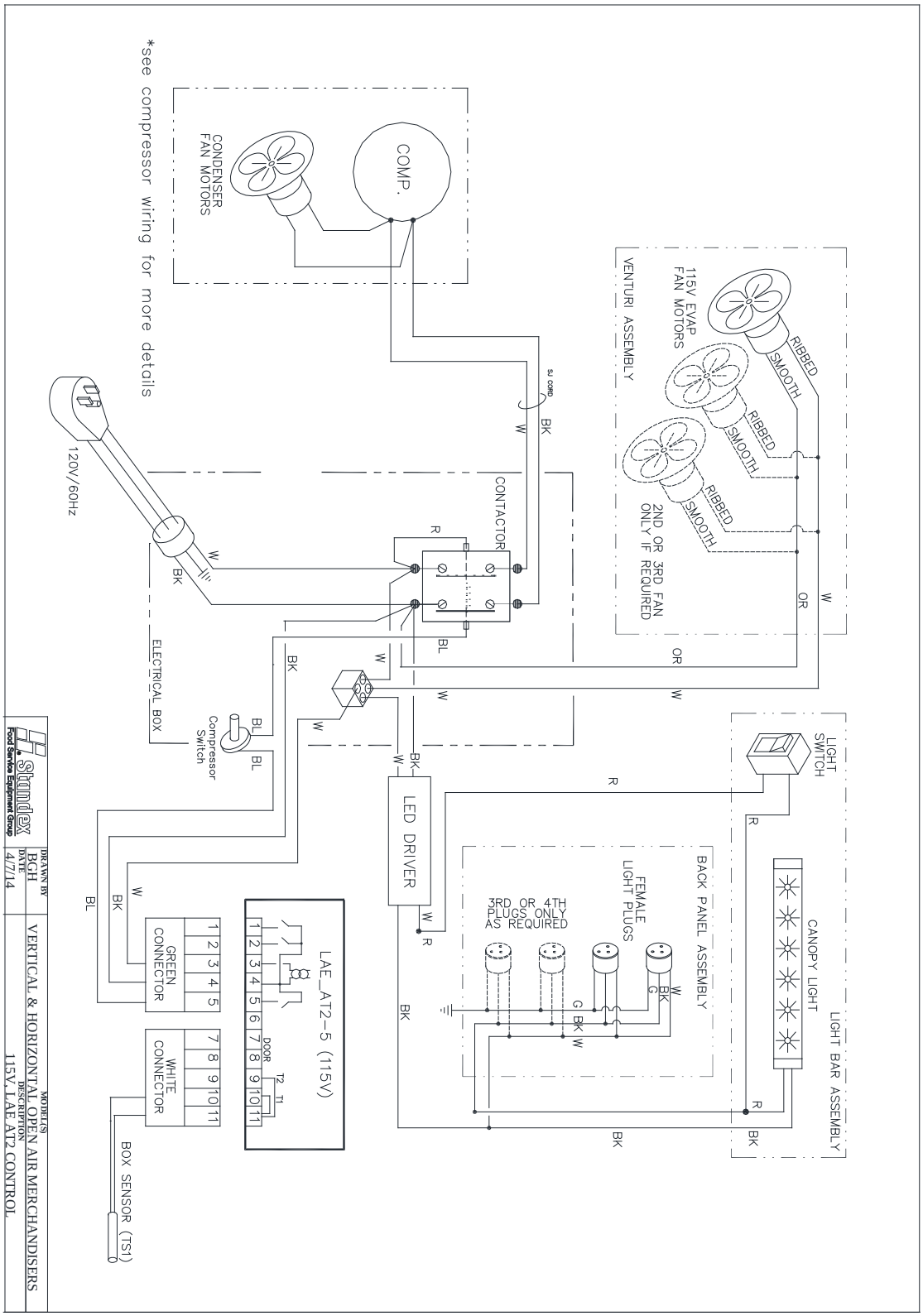
ACCESSORIES LIST

Description	VOAM 36-60	VOAM 48-60	VOAM 60-60	VOAM 72-60
Shelf Assembly	159133	159134	159135	159136
Shelf Lighting Assembly	159137	159138	153139	159140
Condensate Pump	159141	159141	159141	159141
Casters 2" Diameter	143678	143678	143678	143678
Product Hooks				
Retractable Night Cover				
Sandwich Display Hooks				
Security Cover				

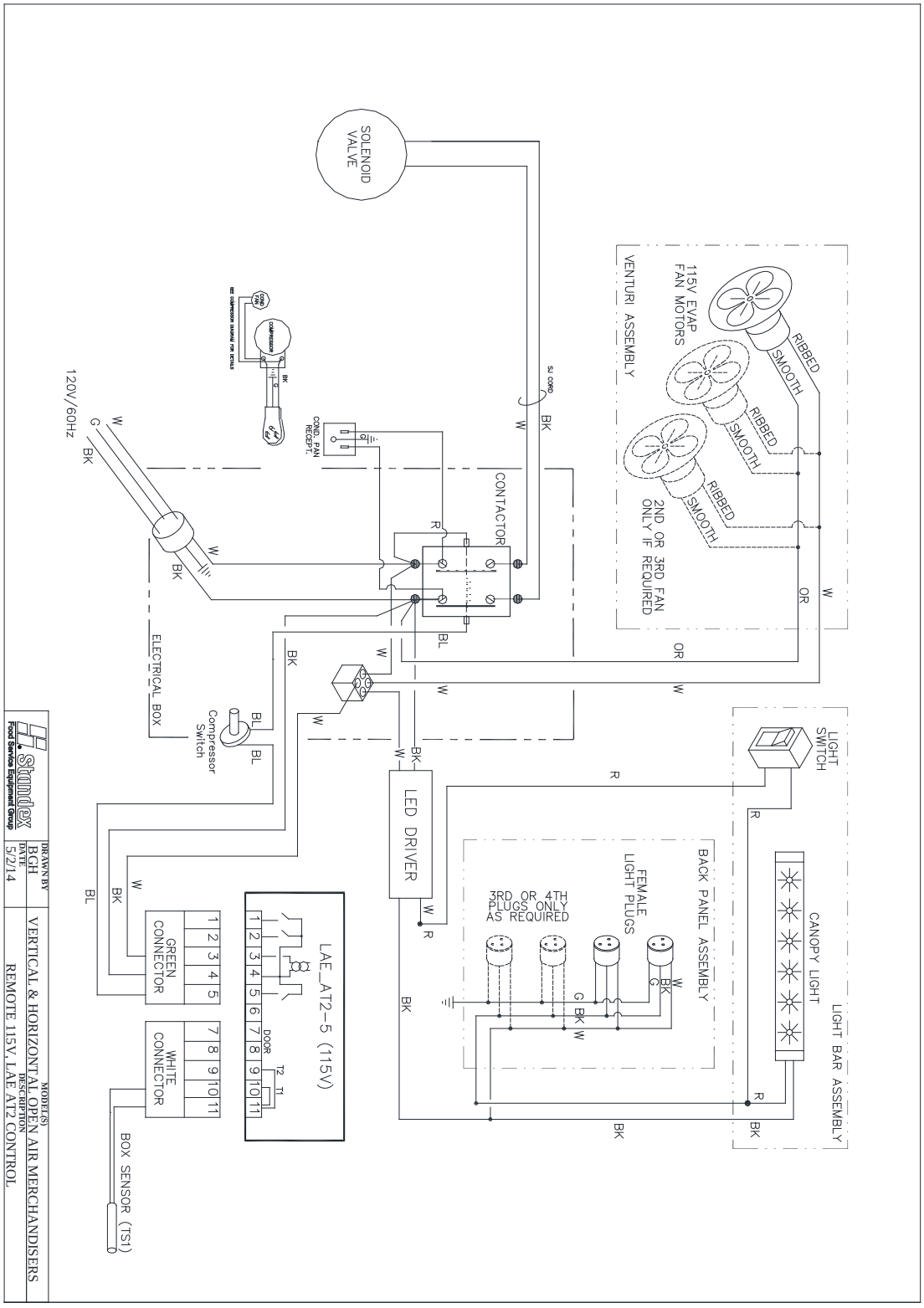
Description	VOAM 36-72	VOAM 48-72	VOAM 60-72	VOAM 72-72
Shelf Assembly	159133	159134	159135	159136
Shelf Lighting Assembly	157471	157472	157473	157474
Condensate Pump	159141	159141	159141	159141
Casters 2" Diameter	143678	143678	143678	143678
Product Hooks				
Retractable Night Cover				
Sandwich Display Hooks				
Security Cover				

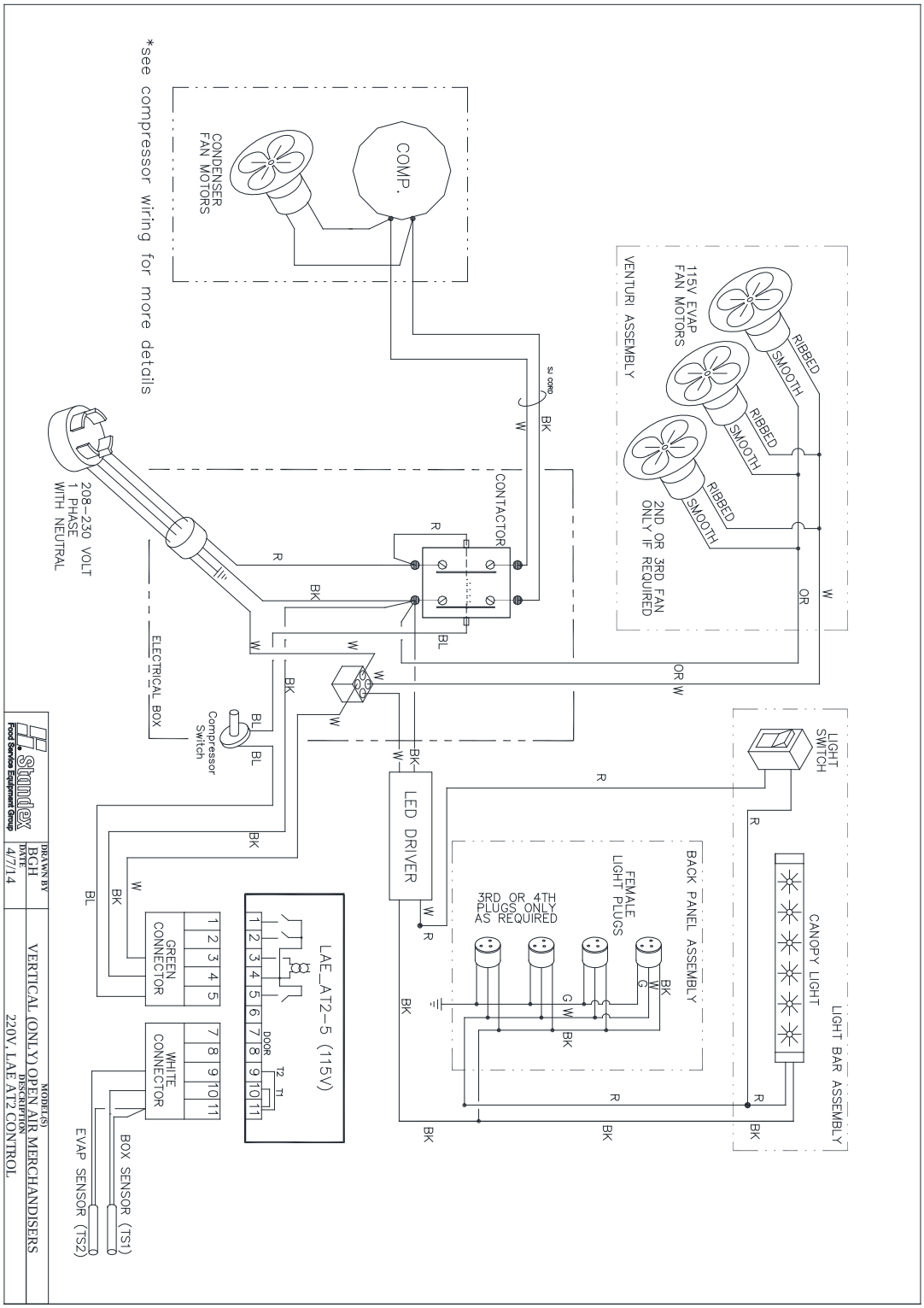
Description	VOAM 36-79	VOAM 48-79	VOAM 60-79	VOAM 72-79
Shelf Assembly	159133	159134	159135	159135
Shelf Lighting Assembly	157475	157476	157488	157478
Condensate Pump	159141	159141	159141	159141
Casters 2" Diameter	143678	143678	143678	143678
Product Hooks				
Retractable Night Cover				
Sandwich Display Hooks				
Security Cover				

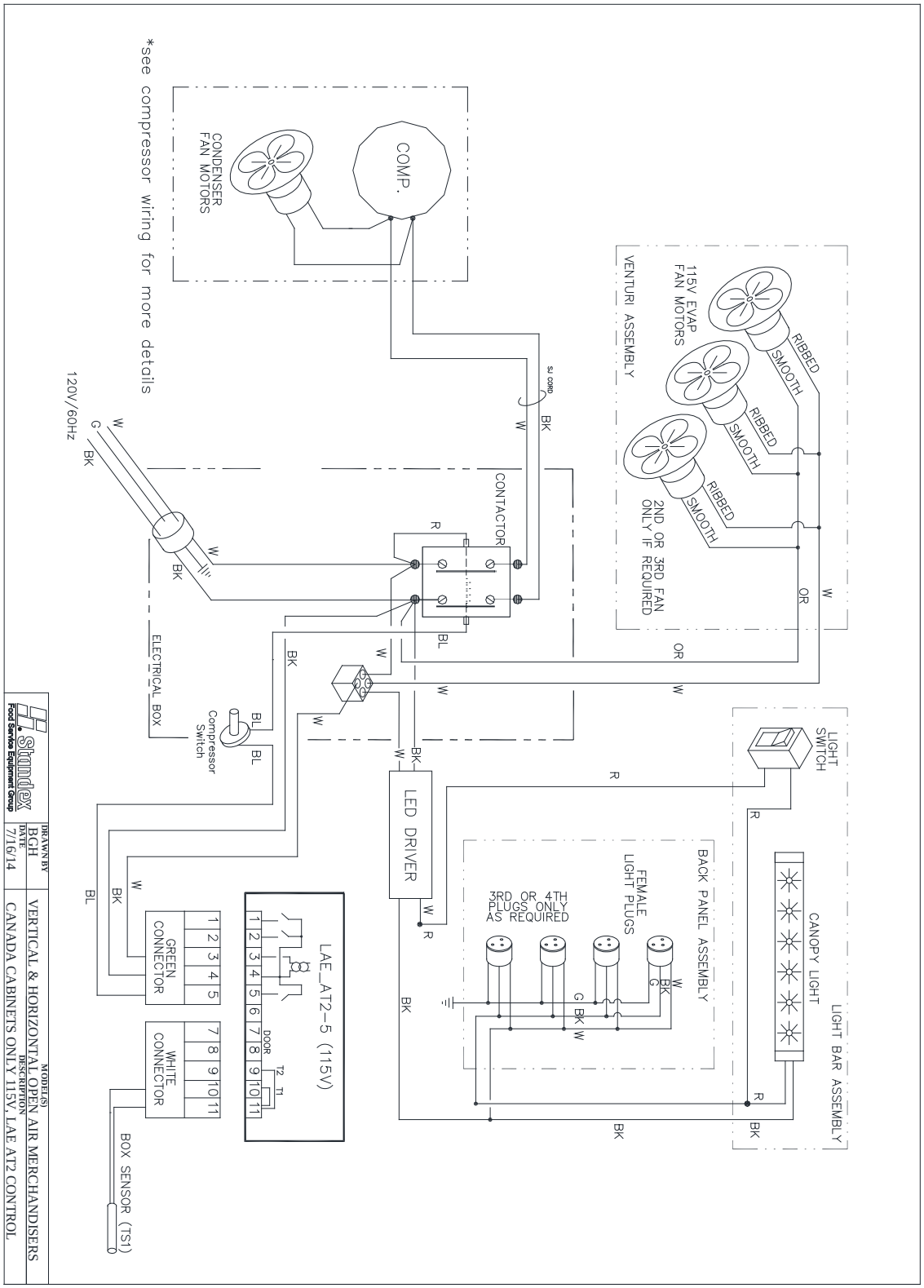
Description	HOAM 36	HOAM 48	HOAM 60	HOAM 72
Shelf Assembly	157479	157480	157481	157482
Shelf Lighting Assembly	NA	NA	NA	NA
Condensate Pump	159141	159141	159141	159141
Casters 2" Diameter	143678	143678	143678	143678
Product Hooks				
Retractable Night Cover				
Sandwich Display Hooks				
Security Cover				



Standex Food Service Equipment Group	DRAWN BY: BGH	MODEL(S): VERTICAL & HORIZONTAL OPEN AIR MERCHANDISERS
	DATE: 4/7/14	DESCRIPTION: 115V, LAE AT2 CONTROL


SOLENOID VALVE
115V EVAP FAN MOTORS
RIBBED
SMOOTH
VENTURI ASSEMBLY
2ND OR 3RD FAN ONLY IF REQUIRED
CONTACTOR
COMPRESSOR
COND. FAN RECEPT.
120V/60Hz
ELECTRICAL BOX
Compressor Switch
LED DRIVER
LIGHT SWITCH
CANOPY LIGHT
LIGHT BAR ASSEMBLY
BACK PANEL ASSEMBLY
FEMALE LIGHT PLUGS
3RD OR 4TH PLUGS ONLY AS REQUIRED
LAE_AT2-5 (115V)
GREEN CONNECTOR
WHITE CONNECTOR
BOX SENSOR (TS1)
DRAWN BY
BGH
DATE
5/2/14
MODEL(S)
VERTICAL & HORIZONTAL OPEN AIR MERCHANDISERS
DESCRIPTION
REMOTE 115V, LAE AT2 CONTROL


*see compressor wiring for more details
CONDENSER FAN MOTORS
COMP.
115V EVAP FAN MOTORS
VENTURI ASSEMBLY
RIBBED
SMOOTH
2ND OR 3RD FAN ONLY IF REQUIRED
SJ CORD
208-230 VOLT 1 PHASE WITH NEUTRAL
CONTACTOR
ELECTRICAL BOX
Compressor Switch
LED DRIVER
LIGHT SWITCH
LIGHT BAR ASSEMBLY
CANOPY LIGHT
BACK PANEL ASSEMBLY
FEMALE LIGHT PLUGS
3RD OR 4TH PLUGS ONLY AS REQUIRED
LAE_AT2-5 (115V)
DOOR
T2
T1
GREEN CONNECTOR
WHITE CONNECTOR
BOX SENSOR (TS1)
EVAP SENSOR (TS2)
Hussmann
Food Service Equipment Group
DRAWN BY
BGH
DATE
4/7/14
MODEL(S)
VERTICAL (ONLY) OPEN AIR MERCHANDISERS
DESCRIPTION
220V, LAE AT2 CONTROL


*see compressor wiring for more details
120V/60Hz
W
G
BK
COMP.
CONDENSER FAN MOTORS
SJ CORD
CONTACTOR
R
L1
L2
T1
T2
BL
ELECTRICAL BOX
Compressor Switch
115V EVAP FAN MOTORS
VENTURI ASSEMBLY
RIBBED
SMOOTH
2ND OR 3RD FAN ONLY IF REQUIRED
OR
LIGHT SWITCH
CANOPY LIGHT
LIGHT BAR ASSEMBLY
BACK PANEL ASSEMBLY
FEMALE LIGHT PLUGS
3RD OR 4TH PLUGS ONLY AS REQUIRED
LED DRIVER
LAE_AT2-5 (115V)
DOOR
GREEN CONNECTOR
WHITE CONNECTOR
BOX SENSOR (TS1)
Hussmann
Ingersoll-Rand Food Service Equipment Group
DRAWN BY
BGH
DATE
7/16/14
MODEL(S)
VERTICAL & HORIZONTAL OPEN AIR MERCHANDISERS
DESCRIPTION
CANADA CABINETS ONLY 115V, LAE AT2 CONTROL