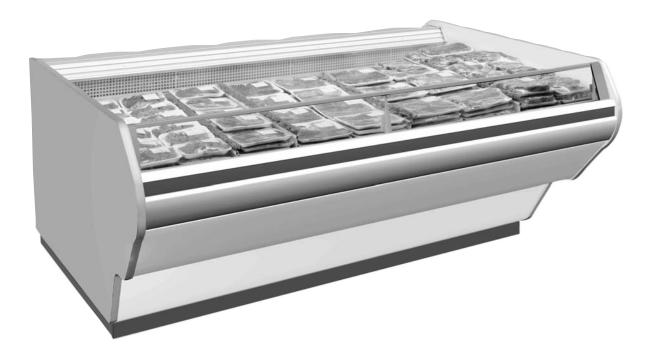




Ad<u>series</u> d<u>vantag</u>e

Installation & Service Manual



NHMGHP

TOP DISPLAY MEAT/DELI/CRITICAL TEMP PRODUCE/ HIGH PERFORMANCE MERCHANDISERS Medium Temperature Self Serve Display Cases

This manual has been designed to be used in conjunction with the General (UL/NSF) Installation & Service Manual.

Save the Instructions in Both Manuals for Future Reference!!

This merchandiser conforms to the American National Standard Institute & NSF International Health and Sanitation standard ANSI/NSF 7 - 2003.

PRINTED II	N Specifications subject to	REPLACES		ISSUE		PART			
IN U.S.A.	change without notice.	EDITION	7/06	DATE	4/07	NO.	9605849	REV. (C



CONTENTS

<u>Page</u>
Specifications
NHMGHP Specification Sheets
Line Sizing Requirements (See General-UL/NSF I&S Manual)
Pre-Installation Responsibilities (See General-UL/NSF I&S Manual)
Installation Procedures
Carpentry Procedures 6
Case Pull-Up Locations
Plumbing Procedures (See General-UL/NSF I&S Manual)
Refrigeration Procedures (See General-UL/NSF I&S Manual)
Electronic Thermostat Control
Bottom Trays 7
Electrical Procedures 7
Electrical Considerations 7
Defrost Information
Defrost Control Chart 8
Installation Procedure Check Lists (See General-UL/NSF I&S Man.)
Wiring Diagrams 8
NHMGHP Domestic & Export (50Hz) Case Circuits 9
Cleaning and Sanitation (See General-UL/NSF I&S Manual)
Component Removal and Installation Instructions for Cleaning 11
Screens and Bottom Trays
Front Air Duct
Rear Duct Panels 11
Discharge Air Honeycomb11
Lower Cladding
Upper Cladding11
Cleaning Instructions
Stainless Steel Cleaning Methods

Page 2 April, 2007

	<u>Page</u>
General Information	
NSF Product Thermometer	
Radiant Heat Information	
Radiant Heat Measurement	
Display Practices	
Service Instructions	
Preventive Maintenance (S	See General-UL/NSF I&S Manual)
Fan Blade and Motor Replacement .	. (See GenUL/NSF I&S Manual)
Color Band and Bumper Replacemen	t (See GenUL/NSF I&S Manual)
Anti-Sweat Replacement	
Front Glass Replacement	
Parts Information	
Operational Parts List	
Cladding and Trim Parts List	
TYLER Warranty (S	See General-UL/NSF I&S Manual)

The following Medium Temperature, Top Display High Performance Merchandiser models are covered in this manual:

MODEL	DESCRIPTION
NHMGHP	6' GLASS FRONT TOP DISPLAY HIGH PERFORMANCE MERCHANDISER
NHMGHP	8' GLASS FRONT TOP DISPLAY HIGH PERFORMANCE MERCHANDISER
NHMGHP	12' GLASS FRONT TOP DISPLAY HIGH PERFORMANCE MERCHANDISER



SPECIFICATIONS

NHMGHP Top Display High Performance Medium Temp Merchandisers

Refrigeration Data:

			CAPACITY (BTUH / FT)				DISCHARG	E AIR	AVG. REF.
MODEL	CASE LENGTH	CASE USAGE	PARALLEL	CONVENTIONAL	EVAPORATOR (°F)	UNIT SIZING (°F)	TEMPERATURE (°F)	VELOCITY (FPM)	CHARGE (LBS/FT)
NHMGHP	6'/8'/12'	MED TEMP	305*	347*	25**	23	27.5	270***	0.29

For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

Evaporator temperature is based on the saturated pressure leaving the case.

FOR SPECIFIC COMPRESSOR SIZING INFORMATION, REFER TO TYLER APPLICATIONS FOR RACK SYSTEM COMPRESSORS AND/OR THE COMPRESSOR MANUFACTURERS FOR SINGLE COMPRESSORS. FOR LINE SIZING INFORMATION, REFER TO THE MISCELLANEOUS SECTION "BUFF" IN THE TYLER SPECIFICATION GUIDE.

Electrical Data:

Fans and Heaters (120 Volt)

			TOTAL STANDARD FANS		TOTAL ECM FANS		TOTAL ANTI-SWEATS			
MODEL	CASE LENGTH	FANS / CASE	AMPS	WATTS	AMPS	WATTS	DISCHA! AMPS	RGE AIR WATTS	FRONT AMPS	GLASS WATTS
NHMGHP	6'	2	0.68	60.4	0.44	22.0	0.22	27.0	0.07	8.4
NHMGHP	8'	2	0.68	60.4	0.44	22.0	0.30	36.0	0.10	12.0
NHMGHP	12'	3	1.02	90.6	0.66	33.0	0.40	48.0	0.14	16.8

Defrost Data:

			TERM.	ELEK. THERMOSTAT / AIR SENSOR SETTINGS		EPR SETTINGS ***		CONVENTIONAL COMPRESSOR SETTINGS****				DEFROST	
DEFROST TYPE*	DEFROSTS PER DAY	DURATION TIME (MIN)	TEMP. (°F)	USAGE	CUT IN	CUT OUT	R22 (PSIG)	R404A (PSIG)	R22 (CUT-IN	PSIG) CUT-OUT	R404A CUT-IN	(PSIG) CUT-OUT	WATER (LB/FT/DAY)
TIME OFF	4	44**		MED TEMP	28°F	26°F	49	62	47	36	60	47	1.5
HOT GAS	4	15	45	MED TEMP			49	62	47	36	60	47	1.5

^{****} Required setup for a conventional unit uses an electronic thermostat to assure accurate temperature control.

	CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH LINE SIZING											
MODEL	6'	8'	12'	16'	20'	24'	28'	32'	36'	40'	44'	48'
NHMGHP / R22	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"

CASE CIRCUITS: This case requires a 120V circuit for fans and anti-sweat heaters.

UL SANITATION approved in accordance with ANSI/NSF - 7.

CASE BTUH REQUIREMENTS are calculated to produce approximately the indicated entering-air temperature with absolute maximum operating ambient limits of 75°F & 55RH.

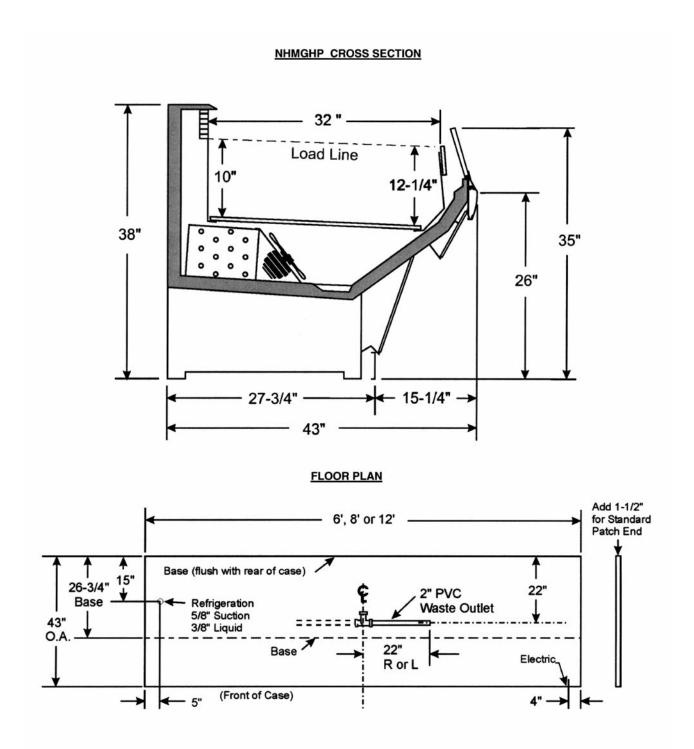
The information contained herein is based on technical analysis and/or tests performed in a controlled lab environment that are consistent with industry practices, The mormation contained negen to asset on technical analysis allow tests periorined the controlled lab environment that are obsistent with industry practice and is intended as a reference for system sizing and configuration purposes only and for use by persons having technical skill at their own discretion and risk. Conditions of use are outside of Tyler's control and we do not assume and hereby disclaim any liability for results obtained or damages incurred through application of or reliance on the data presented, including but not limited to specific energy consumption with any particular model or installed application. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

^{***} Air velocity measured 1 hour after defrost at the top discharge air duct using an ALNOR JR. velometer with a scoop.

All high performance cases come with OFF CYCLE defrost.

NOTE: 44 minutes is for EPR with suction stop for defrost isolation. Defrost times increases by eight minutes (52 min. total) when defrost isolation is by pump down.

If EPR is utilized, use the settings shown in the chart. NOTE: The customer will need to set the EPR on the parallel rack or single unit to the appropriate suction temperature and the NM(G)HP cases must be on a separate suction stub with a separate EPR. ADD 0.5# to EPR setting for each 1000 foot rise in elevation.

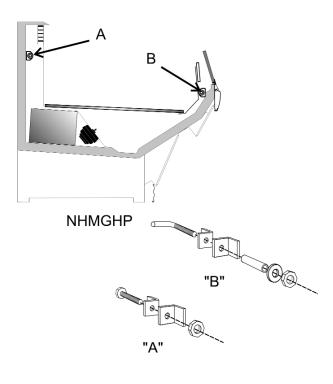




INSTALLATION PROCEDURES

Carpentry Procedures

Case Pull-Up Locations



The NHMGHP models have two pull-ups at each end of the case. Pull-ups A and B are located as shown and should be installed and tightened starting with A and finishing with B.

See "General-UL/NSF I&S Manual" for lineup assembly instructions.

Refrigeration Procedures

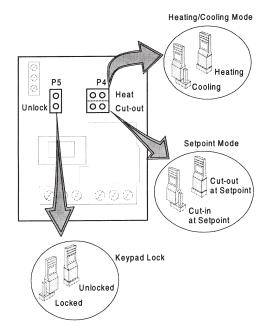
Refrigeration system and superheat instructions can be found in the "General-UL/NSF I&S Manual". Electronic temperature control information is listed below.

Electronic Temperature Control

Whenever an NHMGHP uses an electronic thermostat and solenoid valve for temperature control, use the following instructions to properly set-up the electronic thermostat.

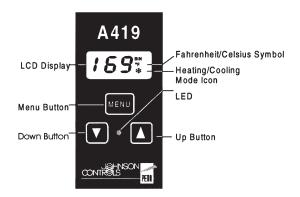
Setting the Electronic Thermostat

- 1. Remove the four screws and cover from the electronic thermostat.
- Connect sensor wires to the common (COM) and sensor (SEN) terminals of the terminal strip located at the top left of the printed circuit board. The sensor leads are interchangeable.



- 3. Set the Heating/Cooling jumper blocks to the "COOL" position.
- Set the Cut-in at Setpoint/Cut-out at Setpoint jumper blocks to the "Cut-out at Setpoint" position.
- 5. Set the keypad Locked/Unlocked jumper blocks to the "Unlocked" position.
- 6. Replace the electronic thermostat cover and secure with four screws.

Page 6 April, 2007



7. To adjust the setpoint:

- a. Push the Menu Button. "SP" will flash on the LCD display.
- Push the Menu Button one more time and a setpoint temperature will be displayed.
- c. Push the Up or Down Button until the desired setpoint is displayed.NHMGHP = 27°F
- d. Push the Menu Button.
- 8. To adjust the differential:
 - a. Push the Menu Button. "SP" will flash on the LCD display.
 - b. Push the Down Button until "DIF" is shown on the LCD display.
 - Push the Menu Button one more time and a differential number will be displayed.
 - d. Push the Up or Down Button until the desired differential setting is displayed. NHMGHP (all applications) = 2°F
 - d. Push the Menu Button.

With the cooling mode selected, the differential is ABOVE the setpoint. The relay will energize and the LED indicator will illuminate when the temperature reaches the differential setting. When the temperature drops to the setpoint, the relay and LED indicator will de-energize and refrigeration will stop.

The settings above are specific to TYLER NHMGHP cases. Other applications will require different setpoints and differentials.

Bottom Trays

All bottom trays should be installed with the lips down. This assures proper case operation and sanitary practices.

Electrical Procedures

Electrical Considerations

CAUTION

Make sure all electrical connections at components and terminal blocks are tight. This prevents burning of electrical terminals and/or premature component failure.

NOTE

The raceway houses the electrical wiring, components and terminal blocks for the case. Remove the lower front cladding to access the raceway.

Case Fan Circuit

This circuit is to be supplied by an uninterrupted, protected 120V circuit. The case fan circuit is not cycled, except when equipped for gas defrost. On gas defrost cases the fan circuit is controlled by a 50/40 klixon.

NOTE

With gas defrost, the fans will not start until the coil temperature reaches 40°F at the fan delay thermostat.

Fluorescent Lamp Circuit

NHMGHP optional canopy lighting is supplied by a single row of T-8 electronic ballast lights. It is controlled by a light switch in each canopy light fixture.

Anti-Sweat Circuit

The NHMGHP cases have two anti-sweat heaters. One in the rear riser for the discharge air and an additional anti-sweat heater for the front glass. All anti-sweat heaters are wired directly to the main power supply so they can operate at all times.

July, 2004 Page 7



Defrost Information

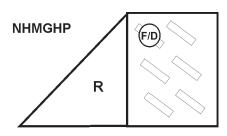
See "General-UL/NSF I&S Manual" for operational descriptions for each type of defrost control.

Defrost Control Chart

NHMGHP Defrost Option Settings

		Defrost	
Defrost	Defrosts	Duration	Term.
Type	Per Day	(Min)	Temp.
Off Time	4	44*	
Gas	4	15	55°F

* See specification pages in this manual for pump down adjustment variations.



F/D = Gas Defrost (Fan Delay)

All klixons are located on the right end of the evaporator coil. The diagram shows the location for each defrost type that uses a klixon.

NOTE

The termination thermostat for gas defrost is located on the bypass check valve.

CAUTION

If electronic sensors are used in place of the klixons, the sensors must be located in the same location as the klixons for that defrost type. Any other locations will effect the refrigeration efficiency of the case.

WIRING DIAGRAMS

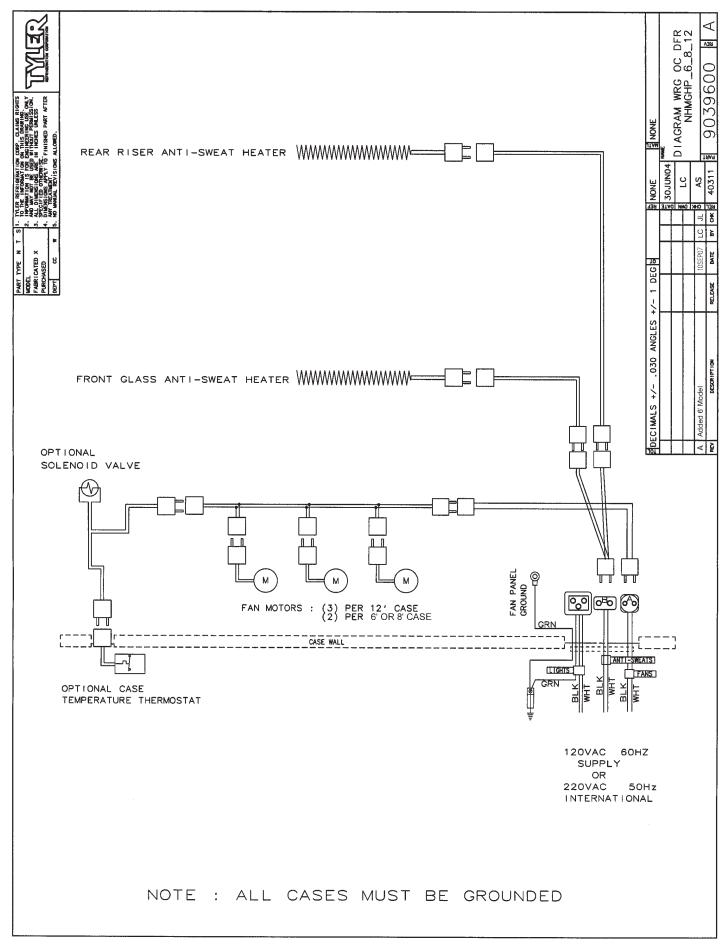
ELECTRICIAN NOTE - OVERCURRENT PROTECTION

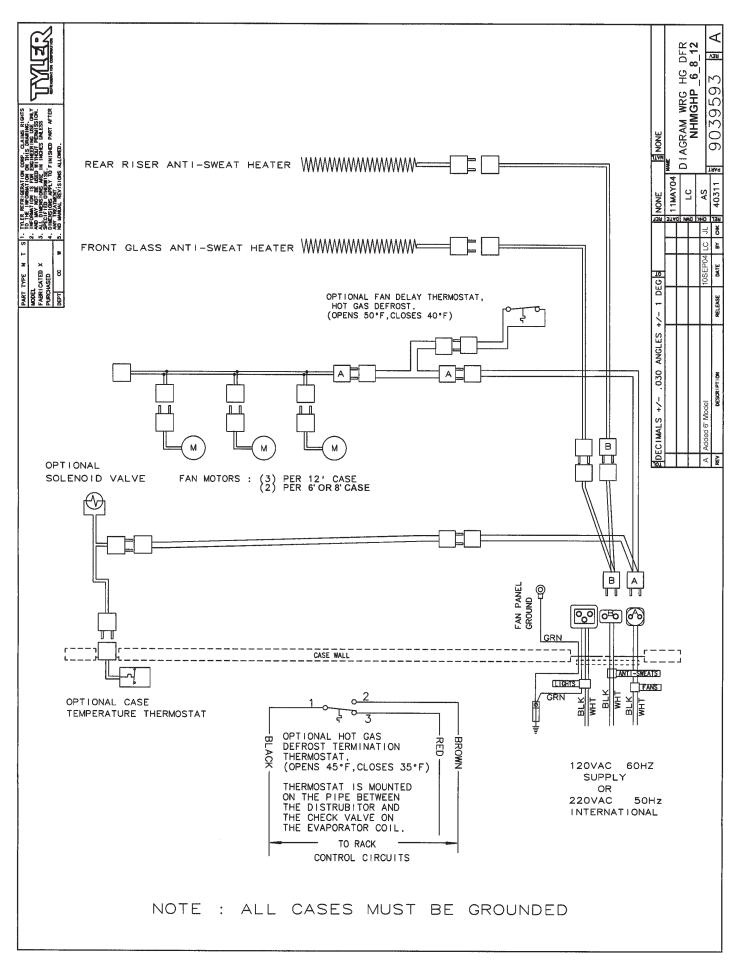
120V circuits should be protected by 15 or 20 Amp devices per the requirements noted on the cabinet nameplate or the National Electrical Code, Canadian Electrical Code - Part 1, Section 28. 208V defrost circuits employ No. 12 AWG field wire leads for field connections. On remote cases intended for end to end line-ups, bonding for ground may rely upon the pull-up bolts.

The following wiring diagram on page 9 and 10 covers the NHMGHP case circuits and defrost circuits.

Page 8 April, 2007

NHMGHP Domestic & Export (50 Hz) Case Circuits (6', 8' & 12' Cases)





Page 10 April, 2007

CLEANING AND SANITATION

Component Removal and Installation Instructions for Cleaning

Screens and Bottom Trays

- 1. Remove product from screens or bottom of case.
- To remove screens, push up on each screen until bottom tabs clear holes in front duct, then remove screen from case.
 To remove bottom trays, grasp and lift out each of the bottom trays from the case interior.
- 3. After cleaning, replace bottom trays with lips down in reverse order.

Front Air Ducts

- 1. Remove lower trays, see this page.
- 2. Lift out front air duct sections.
- 3. After cleaning, replace in reverse order.

Rear Duct Panels

- 1. Remove shelves and bottom trays, see above.
- 2. Remove mounting screws and rear duct panels from case.
- 3. After cleaning, replace and secure rear duct panels in reverse order.

Discharge Air Honeycomb

Loosen screws securing rear retainer plate.

NOTE

Note position of the honeycomb grid during removal so it can be reinstalled the same way.

2. Slide rear retainer plate back until the honeycomb grid sections can be removed from the top duct.

CAUTION

Improper installation of the honeycomb grid section could result in improper air flow and/or poor refrigeration.

 After cleaning, replace honeycomb grid sections as they were removed and secure with the rear retainer plate and screws.

Lower Cladding

- 1. Remove kickplate from kickplate supports. (See General-UL/NSF I&S Manual.)
- 2. Remove mounting screws from top and bottom of lower cladding and remove lower cladding.
- 3. After cleaning, replace in reverse order.

Upper Cladding

- 1. Remove lower cladding, see above.
- Remove color band, bumper and bumper retainer from case. (See General-UL/NSF I&S Manual.)
- 2. Remove mounting screws from top and bottom of upper cladding and remove upper cladding.
- After cleaning, replace upper cladding and remaining components in reverse order.

July, 2004 Page 11



Cleaning Instructions

CAUTION

- When cleaning this case, try not to introduce water into the case faster than it can be carried away by the waste outlet.
- Liquid chlorine bleach is corrosive to metals. The use of bleach or products containing bleach will damage metal surfaces and void the case warranty.
- Sanitizer the case with Quaternary Ammonium Solutions (ex: KAYQUAT II. J-512 Sanitizer, SANIQUAT 512, etc...) approved per 21CFR 178.1010, followed by adequate draining and air drying. These solutions may be obtained from Kay Chemical Co., Johnson Wax Professional, Coastwide Laboratories, etc....
- Always use a soft cloth or sponge with mild detergent and water to clean the front glass.
 Never use abrasives or scouring pads to clean glass. They can scratch and/or damage the glass.

WARNING

TYLER Refrigeration does not recommend the use of high pressure cleaning equipment on display cases!! High pressure cleaners can penetrate and/or damage the joint seals. Damaged seals allow water leaks and/or air leaks that can cause poor case refrigeration.

See "General (UL/NSF) I&S Manual" for case cleaning instructions.

Stainless Steel Cleaning Methods

The cleaning data in the following stainless steel cleaning chart was supplied by AISI. The information was supplied by Prime Metals Division, Alumax Aluminum Corporation.

TYPE OF CLEANING	CLEANING AGENT*	APPLICATION METHOD**	EFFECT ON FINISH
Routine cleaning	Soap, ammonia or detergent and water.	Sponge with cloth, then rinse with clear water and wipe dry.	Satisfactory for use on all finishes.
Smears and finger- prints	Arcal 20, Lac-O-Nu, Lumin Wash O'Cedar Cream Polish, Stainless Shine	Rub with cloth as directed on the package.	Satisfactory for use on all finishes. Provides barrier film
Stubborn spots and stains, baked-on splatter, and other light	Allchem Concentrated Cleaner	Apply with damp sponge or cloth.	Satisfactory for use on all finishes.
discolorations	Samae, Twinkle, or Cameo Copper Cleaner	Rub with damp cloth.	Satisfactory for use on all finishes if rubbing is light.
	Grade FFF Italian pumice, whiting or talc	Rub with damp cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Liquid NuSteel	Rub with dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Paste NuSteel or DuBois Temp	Rub with dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes
	Cooper's Stainless Steel Cleaner, Revere Stainless Steel Cleaner	Apply with damp sponge or. cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.

Page 12 July, 2006

TYPE OF CLEANING	CLEANING AGENT*	APPLICATION METHOD**	EFFECT ON FINISH
	Grade F Italian pumice, Steel Bright, Lumin Cleaner, Zud or Restoro	Rub with a damp cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Penny-Brite or Copper-Brite	Rub with a dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
Heat tint or heavy discoloration	Penny-Brite or Copper-Brite	Rub with a dry cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Paste NuSteel or DuBois Temp	Rub with dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Revere Stainless Steel Cleaner	Apply with a damp sponge or cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Allen Polish, Steel Bright, Wyandotte or Zud	Rub with a damp cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
Burnt-on foods and grease, fatty acids, milkstone (where swabbing or rubbing is not practical)	Easy-Off, De-Grease-It, 4-6% hot solution of such agents as trisodium tripolyphospate, or 5-15% caustic soda solution	Apply generous coating. Allow to stand for 10-15 min. Repeated application may be necessary.	Excellent removal, satisfactory for use on all finishes.
Tenacious deposits, rusty discolorations, industrial atmospheric stains	Oakite No. 33, Dilac, Texo 12, Texo N.Y., Flash-Klenz, Caddy Cleaner, Turco Scale 4368 or Permag 57.	Swab and soak with clean cloth. Let stand 15 minutes or more according to directions on package. Rinse and dry.	Satisfactory for use on all finishes.
Hard water spots and scale	Vinegar	Swab or wipe with a cloth. Rinse with water and dry.	Satisfactory for use on all finishes.
	5% oxalic acid, 5% sulamic acid, 5-10% phospheric acid, or Dilac, Oakite No. 33, Texo 12 or Texo N.Y.	Swab or soak with a cloth. Let stand 10-15 minutes. Always follow with neutralizer rinse, and dry.	Satisfactory for use on all finshes. Effective on tenacious deposites or where scale has built up.
Grease and oil	Organic solvents such as carbon tetrachloride, tri- chlorethylene, acetone, kero- sene, gasoline, benzene, alcohol and chlorethane n.u.	Rub with a cloth. Organic solvents may be flammable and/or toxic. Observe all precautions against fire. Do not smoke while vapors are present. Be sure area is well ventilated.	Satisfactory for use on all finishes.

^{*} Use of proprietary names is intended only to indicate a type of cleaner, and does not constitute an endorsement, nor is omission of any proprietary cleanser to imply its inadequacy. It should be emphasized that all products should be used in strict accordance with instructions on package.

^{**} In all applications a sponge or fibrous brush or pad are recommended. DO NOT use ordinary steel wool, steel brushes, chlorine bleach or product containing bleach for cleaning or sanitizing stainless steel.



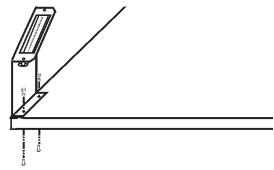
GENERAL INFORMATION

NSF Product Thermometer Installation

- 1. Unwrap the thermometer and bracket assembly shipped loose with the case.
- Position bracket in front left corner of the left-most bottom tray. Making sure the bracket is flush with the left edge, use the bracket holes as a template for where to drill the holes.
- 3. Drill two .196" holes in the bottom tray.

NOTE

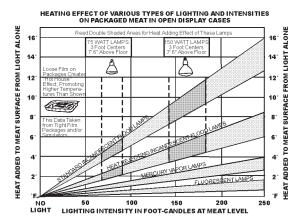
For ease of installation, position the washers and capnuts on the top side of the

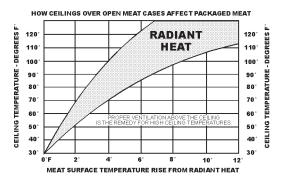


bracket and bottom tray.

4. Mount the bracket to the bottom tray with two screws, washers and capnuts.

Radiant Heat Information





A wide temperature range is shown for each type of lighting. This data does not show all situations. Many situations will have higher package warm-up figures than indicated.

It is generally known that the temperature of displayed meat in refrigerated cases will run higher than the circulated air temperature of the cases. A dial thermometer stuck into the center of a piece of meat compared with one in the air stream quickly confirms this fact. Another fact is that the surface temperature of the meat will be higher than the center temperature due to radiant heat. TYLER's ongoing research identifies sources of radiant heat and accurately measures and records it. These charts were developed from the information gathered during this research. Two major sources of radiant heat are from display lights and ceiling surfaces. Additional heat sources come from bad display practices which either overload the case with product or allow voids in the product display.

Page 14 April, 2007

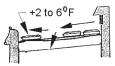
Poor display practices impair the efficiency of the refrigeration, adding to the surface temperature of the meat. Bacteria and molds grow when surface temperatures rise above 45°F. This prematurely discolors displayed meats and causes unnecessary meat department losses.

Radiant Heat Measurement

Place two accurate dial thermometers side by side in a case. Cover one of the thermometer stems with black friction tape. The temperature difference is the approximate amount of radiant heat. A change in display lighting or a reduction of high ceiling temperatures (over 80°F) could reduce the radiant heat in the case.

Display Practices

Encourage butchers to maintain all meat below the case load lines and to eliminate product voids. Case screens could be covered in



Voids in display raise surface temperature of package in front of void 2 to 6⁰ F.

some instances to keep the refrigerated air over the display.

CAUTION

The quality damage done to meat products by high temperatures and/or contamination during delivery, cooler storage, cutting and wrapping cannot be repaired by placing the products into properly operating display cases.

SERVICE INSTRUCTIONS

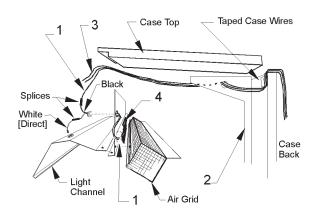
See "General-UL/NSF I&S Manual" for fan blade and motor, and color band and bumper replacement instructions.

Anti-Sweat Replacement

The NHMGHP cases have two anti-sweat heaters. One in the rear riser for the discharge air and an additional anti-sweat heater for the front glass. All anti-sweat heaters are wires that run the length of the above mentioned components. Use the following instructions to replace an anti-sweat heater.

WARNING

Shut off or disconnect power supply to case before changing an anti-sweat. Electrical power from wire ends could damage other components and/or cause personal injury or death.

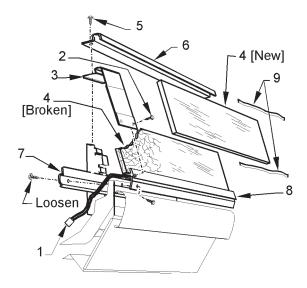


- 1. Expose the full length of the defective anti-sweat wire (1) in the case (2).
- 2. Disconnect or cut the defective anti-sweat wire (1) from the case wires (3).
- 3. Remove the aluminum tape (4) and defective anti-sweat wire (1) from the case (2).
- 4. Position new anti-sweat wire (1) in case (2) and secure with new aluminum tape (4).
- 5. Connect or splice the new anti-sweat wire (1) to case wires (3).
- 6. Replace all components that were removed to expose the anti-sweat wire (1).
- 7. Restore electrical power to case.

July, 2006 Page 15



Front Glass Replacement



- 1. Unplug glass anti-sweat wire (1).
- 3. Remove two screw (2) and glass joint trim (3) from both joints of the broken glass (4).
- 2. Remove screws (5) and glass trim rail (6) from top of glass (4).
- 4. Loosen rear retainer (7) and remove broken glass (4) from glass retainer assembly (8).

NOTE

Inspect the anti-sweat wire in glass retainer assembly. If wire is damaged or broken, replace it before replacing the front glass.

- 5. Apply sealant tape (9) to top and bottom edge of new glass (4).
- 6. Position new glass (4) in glass retainer assembly (8) and secure by tightening rear retainer (7).
- 7. Install glass trim rail (6) with screws (5) over top edge of new glass (4).
- 8. Install glass joint trim (3) with screw (2) over the joint areas of glass (4).
- 9. Reconnect the anti-sweat wire (1).

Page 16 April, 2007

PARTS INFORMATION

Operational Parts List

Case Usage		Domestic	Export			
Electrical Circuit	11	5 Volt 60 He	220 Volt	220 Volt 50 Hertz		
Case Size	6'	8'	12'	8'	12'	
Fan Motor	5125532	5125532	5125532	5222986	5222986	
	5 Watt	5 Watt	5 Watt	7.5 Watt	7.5 Watt	
Fan Motor Brackets	5962268	5962268	5962268	5962268	5962268	
Fan Bracket Plate	9041077	9041077	9041077	9041077	9041077	
Fan Blades						
(7" 25° 5B)	5962268	5236974	5236974			
(7" 30° 5B)				5223370	5223370	
Opt. ECM Fan Motors	9025002	9025002	9025002			
	8 Watt	8 Watt	8 Watt			
Opt. ECM Fan Motor Brackets	9025005	9025005	9025005			
Opt. ECM Fan Blades						
(7" 20° 5B)	5960943	5960943	5960943			
Anti-Sweat Heater Wire						
(discharge air)	5227379	5124216	5124217	5081147	5081148	
(glass)	9039375	9039374	9039373			
Opt. Gas Def. Fan Delay Klixon		9023503	9023503	9023503	9023503	
Opt. Gas Def. Term. Klixon						
(45/35)		9039592*	9039592*	9039592*	9039592*	
NSF Product Thermometer	5967100	5967100	5967100	5967100	5967100	

^{*} Initial build has 55/40 termination klixon (P/N 9023508) to be replaced with 45/35 termination klixon (P/N 9039592) as soon as it is available.

For information on operational parts not listed above contact the TYLER Service Parts Department.



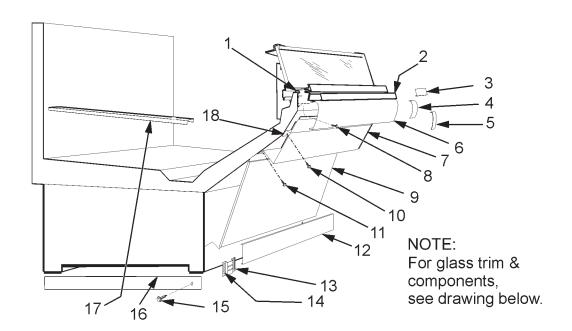
Cladding and Trim Parts List

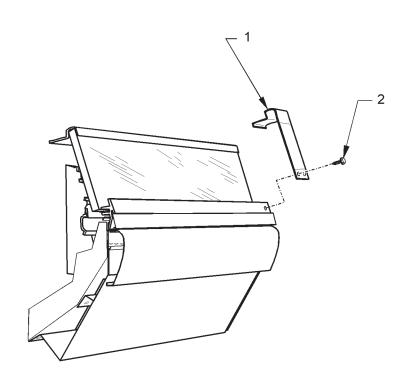
Item Description		NHMGHP			
		6'	8'	12'	
1	Bumper Retainer	9025052	9025058	9025061	
2	Top Band, Ptd.	9020968	9020971	9020972	
3	Color Band Backer, Ptd.	9025982	9025982	9025982	
4	Bumper Backer		color by order		
5	Bumper End Trim		color by order		
6	Bumper		color by order		
7	Upr. Frt. Cladding, Ptd.	9606327	9048399	9605781	
8	Screw, Shoulder	9025833(12)	9025833(12)	9025833(12)	
9	Lwr. Frt. Cladding, Ptd.	9026381	9026382	9026383	
10	Screw	5183536(8)	5183536(8)	5183536(10)	
11	Screw, Shoulder	5183536(6)	5183536(6)	5183536(6)	
12	Kickplate, Ptd.	9039368	9039016	9039017	
	Kickplate Joint Trim, Ptd.	9039020	9039020	9039020	
13	Kickplate Support	9039022(3)	9039022(3)	9039022(4)	
14	Screw	5183536(6)	5183536(6)	5183536(8)	
15	Screw	5222637(10)	5222637(11)	5222637(12)	
16	LH End Close-off, Ptd.	9022459	9022459	9022459	
	RH End Close-off, Ptd.	9022466	9022466	9022466	
17	Horizontal Joint Trim	5200936	5200936	5200936	
18	Raceway	9025126	9025127	9025128	

Front Glass Trim Parts

Item Description		NHMGHP		
		6'	8'	12'
1	Glass Joint Trim	9025959	9025959	9025959
2	Screw	5048626(2)	5048626(2)	5048626(2)

Page 18 April, 2007





July, 2006 Page 19