

N6F/N6FL

MULTI-SHELF FROZEN FOOD MERCHANDISER Low 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.

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The following Low Temperature, Multi-Shelf Frozen Food Merchandiser models are covered in this manual:

MODEL DESCRIPTION

N6F	6', 8' & 12' MULTI-SHELF FROZEN FOOD MERCHANDISER
N6FL	6', 8' & 12' MULTI-SHELF FROZEN FOOD MERCHANDISER
	WITH 24 1/2" FRONT



SPECIFICATIONS

N6F/N6FL Multi-Shelf Frozen Food Merchandiser Specification Sheets

Refrigeration Data:

			CAPACITY (BTUH / FT) UNIT DISCHARGE AIR			AVG. REF.					
MODEL	CASE LENGTH	CASE USAGE	PARALLEL	CONVENTIONAL	EVAPORATOR (°F)	SIZING (°F)	TEMP. (°F)	VE PRIMARY	LOCITY (FF / SECOND. /	PM) / Ambient	CHARGE (LBS/FT)
N6F/N6FL	6'/8'/12'	FROZEN FOOD	1,496*	1,584*	-20**	-23	-10	600***	400***	360***	1.0****
N6F/N6FL	6'/8'/12'	MEAT	1,473*	1,554*	+15**	+13	+24	600***	400***	360***	1.0****
N6F/N6FL	6'/8'/12'	DAIRY	1,399*	1,481*	+25**	+23	+35	600***	400***	360***	1.0****

Capacity data listed for cases with 2 rows of T-8 canopy lights and one row of T-8 nose lights; or 3 rows of T-8 canopy lights, and up to 4 rows of unlighted shelves. For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

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

*** Air velocity measured 1 hour after defrost at the appropriate top discharge air duct using an ALNOR JR. velometer with a scoop. ****This is an average refrigeration charge per foot based on R22 and R404A refrigerant usage.

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 (120 Volt)

	0.05					TOTAL STANDARD FANS				TOTAL ECM FANS						
MODEL LENGTH PRIM. / SEC. / AMB.		FANS PER CASE		AMPS			WATTS		AMPS		WATTS					
		AMD.	PRIM.	SEC.	AMB.	PRIM.	SEC.	AMB.	PRIM.	SEC.	AMB.	PRIM.	SEC.	AMB.		
N6F/N6FL	6'	2	2	1	2.00	0.68	0.34	165.2	60.4	30.2	1.06	0.44	0.22	44.0	22.0	11.0
N6F/N6FL	8'	2	2	2	2.00	0.68	0.68	165.2	60.4	60.4	1.06	0.44	0.44	44.0	22.0	22.0
N6F/N6FL	12'	3	3	2	3.00	1.02	0.68	247.8	90.6	60.4	1.59	0.66	0.44	66.0	33.0	22.0

Heaters (120 and 208 Volt)

			TOTAL ANTI-S	TOTAL DEFROST HEATERS (208 V)				
CASE		DISCHA	RGE AIR	TOP S	HELF	COIL		
MODEL	LENGTH	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	
N6F/N6FL	6'	0.30	36	1.27	152	19.47	4,050	
N6F/N6FL	8'	0.30	36	1.90	229	25.96	5,400	
N6F/N6FL	12'	0.45	54	2.53	303	41.83	8,700	

T-8 Lighting with Electronic Ballasts (120 Volt)

			CAN	OPY LIGHT	'S* PER	NOSE LIGHT		MAX.LIGHTING (3 ROWS)			
	CASE		AMPS		WATTS				WATTS		WATTS
MODEL	LENGTH	1	2	3	1	2	3	AMPS		AMP 3	WAIIS
N6F	6'	0.42	0.75	N/A	50.0	90.0	N/A	0.42	50.0	1.17	140.0
N6F	8'	0.50	0.95	N/A	60.0	114.0	N/A	0.50	60.0	1.45	174.0
N6F	12'	0.70	1.40	N/A	84.0	168.0	N/A	0.70	84.0	2.10	252.0
N6FL	6'	0.40	0.75	1.17	48.0	90.0	140.0	N/A	N/A	1.17	140.0
N6FL	8'	0.50	0.95	1.45	60.0	114.0	174.0	N/A	N/A	1.45	174.0
N6FL	12'	0.70	1.40	2.10	84.0	168.0	252.0	N/A	N/A	2.10	252.0

* Standard lighting for N6F cases is 2 rows of T-8 canopy lights and 1 row of nose lights with electronic ballasts.

Standard lighting for N6FL cases is 3 rows of T-8 canopy lights with electronic ballasts.

	208 VOLT DEFROST (AMPS)										
FT	6'	8'	12'	16'	20'	24'	28'	32'	36'		
3 PH	11.2 DF-3-30	15.0 DF-3-30	23.0 DF-3-30	15/15 DF-3-30-30	15/23 DF-3-30-30	23/23 DF-3-30-30	15/15/23 DF-3-30-30-30	15/23/23 DF-3-30-30-30	23/23/23 DF-3-30-30-30		
	CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH LINE SIZING										
R404A	7/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	1 5/8"	2 1/8"		

CASE CIRCUITS: In addition to the 208V defrost circuit, there is the 120V case fan circuit plus the 120V case anti-sweat circuit. Shelf or canopy lights require a separate 120V circuit, which can be switched at the back room for convenience in controlling the lights. **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, 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.

Defrost Data:

		DURATION		EPR SET	TINGS **	DEFROST	
DEFROST TYPE	DEFROSTS PER DAY	TIME (MIN)	TERMINATION TEMP. (°F)	R22 (PSIG)	R404A (PSIG)	WATER (LB / FT / DAY)	
ELECTRIC	2-3	40	55	10	17	8.25	
HOT GAS	3-4	22-25	60*	10	17	8.25	

* If an Electronic Sensor is used for termination, it should be set at 70°F termination temperature.

** Set EPR to give this pressure at the case.

ELECTRIC DEFROST: Requires a 3-Phase 208V supply for defrost heaters, controlled by the defrost clock and breaker(s) at the machine panel, a 3 pole contactor, and defrost limit switch in each case. Setting of the switch is 52°F.

GAS DEFROST: Uses a limit thermostat, along with a primary fan klixon which cycles the primary fans OFF above 60°F.

AMBIENT AIR BAND: This case has a third air band which directs ambient air in front of the Air Screens to provide an extra barrier to warm air infiltration.

PRESSURE CONTOL SETTINGS: Without Thermostat and Solenoid, 13# Cut-In, 7# Cut-Out. (With Thermostat and Solenoid, 19# Cut-In, 0# Cut-Out – OPTIONAL).



* 208 Volt circuit is required at the top of this case for the defrost contactor



INSTALLATION PROCEDURES

Carpentry Procedures

Case Pull-Up Locations



All N6F models have four pull-ups at each end of the case. Pull-ups A, B, C and D are located as shown and should be installed and tightened starting with A and finishing with D.

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

Electrical Procedures

Electrical Considerations

CAUTION

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

NOTE

- Lower raceway cover will be shipped loose. See the "General-UL/NSF I&S Manual" for raceway cover installation and removal instructions.
- Since 208V defrost wiring enters the rear of the case through the outer air band, the exterior and interior access holes must be caulked to maintain air band separation.

Case Fan Circuit

This circuit has three sets of fans (primary, secondary and ambient) that are 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 primary fans are controlled by a 60/30 klixon.

NOTE

With gas defrost, the primary fans will not restart until the coil temperature reaches 30°F at the fan delay klixon.

Fluorescent Lamp Circuit

The standard case lighting system is T-8 electronic lamps. The N6F standard lighting is 2-row of horizontal canopy lights and 1-row of nose lights. The N6FL standard lighting is 3-row of horizontal canopy lights.

Defrost Information

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

Defrost Control Chart

		Defrost	
Defrost	Defrosts	Duration	Term.
<u>Type</u>	<u>Per Day</u>	<u>(Min)</u>	<u>Temp.</u>
Electric	2-3	40	55°F
Gas	3-4	22-25	60°F*



G = Gas Defrost (Fan Delay)

*Use **70°F** with electronic defrost sensor. The diagram shows the location for each defrost type that uses a klixon.

NOTE

- The termination klixon (55/35 Settings) for electric defrost is located in the right hand end of the upper electrical raceway.
- The termination klixon for gas defrost is located next to the rear coil 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.

N6F Optional Hot Gas Defrost Operation Requirements

When reverse cycle gas defrosting option is used, it should only be applied to multiple compressor systems (Parallel racks). A maximum of not more than 25% of the load on a given rack should defrost at one time because the defrosting cases become a condenser during the defrost period and the other refrigerated cases must provide enough heat load to keep a compressor operating. Do not defrost more than 24 feet of the N6F at one time to limit the amount of refrigerant used in that circuit during the defrost.

Insulated partitions must be used between cases in the same lineup that have different defrost times.

Defrosts are initiated by a multi-circuit defrost clock or an electronic defrost controller. At the beginning of gas defrost the refrigeration is stopped and the gas is diverted in a reverse direction through the suction line to the display case. The refrigeration should be set to remain off for the complete failsafe time plus a 5 minute drain off or clear time period. This type of defrost operation allows the problem areas in the case to completely clear without subjecting the refrigerated product to excessive warm up.

A defrost termination "klixon type" open on rise thermostat is mounted (on the left hand side) next to the rear coil check valve that bypasses defrost refrigerant flow around the expansion valve. The defrost termination device along with the mechanical or electronic defrost control should be set up to cycle or pulse the hot gas valve during the defrost time period. If you use a mechanical clock, you should wire it in parallel with the hot gas valve. If the return liquid temperature rises to 70°F, the hot gas valve should be closed until the return liquid temperature cools to 40°F and then the hot gas valve will reopen and provide additional heat. This cycling will continue until the total defrost time has elapsed. Note that the "klixon type" thermostat has a time lag associated with it's operation so its actual setting is 60°F, but if an electronic sensor is used for termination, it should be set at 70°F termination temperature because it is because it is faster reacting. Also, if used with an electronic controller, cycle the hot gas valve when the lowest sensor temperature (minimum) has reached 70°F.

N6F/N6FL



In addition the primary air band fans on the N6F are cycled off during the defrost cycle with a limit "klixon type" thermostat that is mounted to a coil return bend on the right hand end of the case. It will cycle the primary fans off at 60°F and on at 30°F. This helps minimize the product temperature warmup during the defrost. All other fans, both secondary and ambient airband, continue to run during defrost.

Electric Defrost Limit Switch / Optional Case Temperature Thermostat



The Defrost Limit Switch and optional Case Temperature Thermostats are located in the top raceway with thier sensing bulbs in the primary air band. The limit switch is factory preset for 52°F. If defrost is too long, the hermostat is set too high.

Adjusting the Defrost Limit Switch



Remove the fiberboard (1) from the end of the control (2) . Turn the brass adjustment screw (3) clockwise to raise, or counterclockwise to lower the termination temperature. One turn changes temperature setting approximately 5° F.

When there is more than one case, the control wiring must be modified as shown below. This puts the fourth pole on the special contactor in a series circuit to the reset solenoid.

FOLLOW THESE INSTRUCTIONS EXACTLY!



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. 10 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 diagrams on pages 9 thru 16 will cover the N6F and N6FL case circuits with electric defrost and gas defrost. The canopy lighting circuit is covered in the case circuit diagrams.

N6F Domestic & Export (50 Hz) Case Circuits (Electric Defrost)





N6F Domestic & Export (50 Hz) Case Circuits (Gas Defrost)





N6FL Domestic & Export (50 Hz) Case Circuits (Electric Defrost)





N6FL Domestic & Export (50 Hz) Case Circuits (Gas Defrost)





CLEANING AND SANITATION

Component Removal and Installa-tion Instructions for Cleaning

NOTE

See pages G-23 and G-24 in "General-UL/NSF I&S Manual" for important safety and cleaning instructions.

Shelves and Shelf Brackets

- 1. Remove product from shelves and store properly.
- If shelf has a light, unplug the light cord from the socket in the rear duct panel. Completely insert socket cover in the light socket to protect the receptacle.
- 3. Push shelves back and then lift up and out to remove them from the shelf brackets.
- 4. Remove shelf brackets from slots in rear uprights.
- 5. After cleaning, replace in reverse order.

Bottom Trays

- 1. Remove product from bottom of case.
- 2. Grasp and lift out each of the bottom trays from the case interior.
- 3. After cleaning, replace in reverse order.

Front Air Ducts

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

Discharge Air Honeycomb

 Outer honeycomb (ambient/secondary), remove screws and rear retainer plate. Inner honeycomb (primary), loosen screws and slide rear retainer plate back until honeycomb grid sections can be removed.

NOTE

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

2. Remove honeycomb grid sections from the outer and/or inner top ducts.

CAUTION

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

3. After cleaning, replace honeycomb grid sections as they were removed and secure with the rear retainer plates 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 lower cladding 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.)
- 3. Remove mounting screws from top and bottom or upper cladding and remove upper cladding.
- 4. After cleaning, replace upper cladding and remaining components in reverse order.



GENERAL INFORMATION

NSF Product Thermometer Installation

- 1. Unwrap the thermometer and bracket assembly shipped loose with the case.
- 2. 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.

Night Curtains and Strip "Doors"

Night curtains and strip "doors" are available from several souces. They promote energy savings by partially closing off the front of the case. **TYLER does not promote these products**, but accepts that they are used by some.

Night curtains are to be pulled down each night. They considerably cut the refrigeration load during the night by cycling the compressor more frequently. If gas or electric defrost occurs when the curtains are down, a surplus of moisture laden air will be trapped in the refrigerated area, and deposit on product. For this reason, defrosts must be scheduled to occur when the case is open.

Plastic strip "doors" are permanently hung over the face of the case. The ambient air band is disconnected and plugged during installation. The refrigeration load reduction alters the system drastically. The compressor and suction line become oversized and the need for defrost time and frequency are reduced. Follow the suppliers recommendations for best results.

Case Shelving Information

Case Shelving Limitations

Low temperature multi-shelf cases are particularly sensitive to air pattern changes. These changes occur if shelves are not installed or used properly.

Four full rows of shelving must be used in this case. The bottom row of shelving must be no more than 24" above the bottom tray. Shelving can consist of four rows of 22" wide shelves or three rows of 22" wide shelves and one bottom row of 18" wide shelves. **Do not use any other shelving combinations.**



Shelf Loading

Observe all the LOAD LINE stickers when stocking the shelves with product.

- Do not let the product spill over or go beyond these lines.
- Do not let the product cover up or block any of the air ducts.

CAUTION

Use of large signage can interfere with the proper air movement in the case. Improper air movement will alter the case temperature and could cause product loss.

SERVICE INSTRUCTIONS

See "General-UL/NSF I&S Manual" for T-8 lamp, canopy ballast, fan blade and motor, and color band and bumper replacement instructions.

Ballast and Lighting Locations



The canopy light ballasts are located under the canopy on the top of the canopy light channel. The nose light ballasts are under the upper front cladding. The canopy light(s) are under the canopy light channel in the top of the case. The nose light(s) are behind the bumper retainer/hand rail.



Fan Locations



Fan assemblies are located in three locations in the N6F and N6FL. The primary fans (1) are located under the bottom trays and behind the primary condensing coil. The secondary fans (2) are located on the top rear of the case in the secondary air band. The ambient fans (3) are located on the top front of the case in the ambient air band. The ambient fans are under the filters.

Checking Air Velocities

NOTE

- Be sure area above the case is clear!
- Conditioned air must circulate above the case for the ambient air band intake!
- Do not block top ambient air band filter!

Check air velocities with an Alnor, Jr. Model 8100 Velometer with airscoop modification. Further information on the Velometer can be obtained from the TYLER Service Department. N6F/N6FL case air velocities should be as follows:



Cleaning Honeycomb

The inner honeycomb (primary) should not require cleaning. The outer honeycomb (ambient/secondary) will require cleaning. How often will depend on the amount of dust and lint in the store air.

Need for cleaning can be determined by comparing clean honeycomb air velocities with what velocities are being produced when they are checked. See page 17 in this manual for cleaning instructions.

Anti-Sweat Heater Replacement

WARNING

Always shut off electricity to the entire case before replacing an anti-sweat heater. Electrical power to wire ends could cause personal injury and/or death.

NOTE

Anti-sweat heater wires will be still be attached. Tag and cut wires to remove front molding.

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- Remove the screws (1) and front molding (2) and inner honeycomb (3) from the interior top of the case.
- 2. Tag and cut defective anti-sweat wire (4) and remove aluminum tape and wire from front molding (2). Discard aluminum tape.
- 3. Install new anti-sweat wire (4) in grooves in front molding (2) and cover with new aluminum tape.
- 4. Splice the anti-sweat heater wire (4) to wire leads from the case.

CAUTION

Make sure wire leads do not get pinched by the front molding during installation. Pinched wires could short out the antisweat heater wire.

- 5. Install inner honeycomb (3) and front molding (2) and secure with screws (1).
- 6. Restore electrical power to the case.

Defrost Heater Replacement

WARNING

Always shut off electricity to the entire case before replacing a defrost heater. Automatic cycling of fans or electrical power to wire ends could cause personal injury and/or death.



- 1. Remove bottom trays (1) from case (2).
- Disconnect defective defrost heater (3) and remove from the defrost heater support (4) and case (2).
- 4. Install new defrost heater (3) in reverse order.
- 5. Restore electrical power to the case.

Ambient Air Filter Replacement

Ambient air filters are located on top front of the case above each ambient fan. Replace all ambient air filters at intial start-up. Routinely inspect and replace all ambient air filters.



- 1. To remove and inspect the air filter, slide out ambient air filter (1) from air filter retainer (2). Inspect the ambient air filter.
- To replace the air filter, slide new ambient air filter (1) in the air filter retainer (2). Use 10' X 24" X 1" fiberglass air filters.

NOTE

Do not clean and/or reuse old filters. Poor ambient air flow will result.



PARTS INFORMATION

Cladding and Trim Parts List

<u>ltem</u>	Description	<u>6'</u>	<u>8'</u>	<u>12'</u>
1	Screw (per cover)	5183536 (3)	5183536 (3)	5183536 (3)
2	Pull-Up Angle Cover	5611559 (2)	5611559 (2)	5611559 (2)
3	Screw	5183536 (8)	5183536 (8)	5183536 (8)
4	Canopy Hood Joint Trim, Ptd.	9029422	9029422	9029422
5	Canopy Hood, Ptd.	9025222	9025223	9025224
6	Hand Rail Backer	9025316	9025316	9025316
7	Hand Rail/Bumper Retainer		color per order	
8	Bumper Backer		color per order	
9	Bumper		color per order	
10	Color Band Backer, Ptd.	9040223	9040223	9040223
11	Color Band, Painted	9023795	9023798	9023800
12	Bumper End Trim		color per order	
13	Upr. Fr. Cladding, Ptd. (N6F)	9037331	9037332	9037333
	Front Cladding, Ptd. (N6FL)	9037340	9037341	9037342
14	Lwr. Fr. Cladding, Ptd.			
	(N6F only)	9025644	9025475	9025476
15	Screw	5183536 (4)	5183536(4)	5183536 (6)
16	Raceway Cover Backer		color per order	
17	Raceway Cover End Trim		color per order	
18	Metal Kickplate, Ptd.	9039268	9039269	9039270
	Kickplate Joint Trim, Ptd.	9039020	9039020	9039020
	Screw, Blk.	9037551 (5)	9037551 (6)	9037551 (6)
19	Shoulder Screw	9025833 (6)	9025833 (8)	9025833 (8)
20	Kickplate Support Assy.	9043402 (3)	9043402 (4)	9043402 (4)
21	Raceway Cover Retainer	9023841 (3)	9023841 (4)	9023841 (5)
	Screw	5183536 (9)	5183536 (12)	5183536 (15)
22	Raceway Cover		color per order	
23	Raceway Support	9041326 (4)	9041326 (6)	9041326 (8)
24	Screw	5183536 (8)	5183536 (12)	5183536 (16)
25	LH End Close-off, Painted	9022463	9022463	9022463
	RH End Close-off, Painted	9022464	9022464	9022464
26	Raceway	9300242	9300243	9300244
27	Screw, Shoulder	9025833 (12)	9025833 (18)	9025833 (24)
28	Screws	5205439 (4)	5205439 (5)	5205439 (6)
29	Horizontal End Trim	5190028	5190028	5190028
30	Tray Joint Trim	5187950	5187950	5187950

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Operational Parts List

Case Usage	Domestic			Export	
Electrical Circuit	115 Volt 60 Hertz			220 Volt 50 Hertz	
Case Size	6'	8'	12'	8'	12'
Fan Motors (ambient)	5125532 5 Watt	5125532 5 Watt	5125532 5 Watt	5202538 5 Watt	5202538 5 Watt
(secondary)	5125532 5 Watt	5125532 5 Watt	5125532 5 Watt	5202538 5 Watt	5202538 5 Watt
(primary)	9458944 23 Watt	9458944 23 Watt	9458944 23 Watt	9458942 18.3 Watt	9458942 18.3 Watt
Fan Motor Brackets (ambient)	5120098	5213132	5120098	5120098	5120098
(secondary)	5120098	5120098	5120098	5120098	5120098
(primary)	5205112	5205112	5205112	5205112	5205112
Fan Blades (amb.)(7.75" 22° 5B)	9040680				9040680
(amb.)(6" 27° 5B)		9023762			
(amb.) (7.75" 20° 5B)			9023760		
(amb.)(6" 30° 5B)				9023766	
(sec.)(7.75" 15° 5B)	9301932	9301932	9301932		
(sec.) (7.75" 22° 5B)				9040680	9040680
(prim.)(8.75" 25° 5B)	5984399	5984399		5984399	
(prim.)(8.75" 30° 5B)			9407319		9407319
(prim.)(8.75" 18° 5B)				9040682	
(prim.)(8.75" 22° 5B)					9040683
Fan Bracket Plate	9041077	9041077	9041077	9041077	9041077
Opt. ECM Fan Motors (ambient)	9025002 8 Watt	9025002 8 Watt	9025002 8 Watt		
(secondary)	9025002 8 Watt	9025002 8 Watt	9025002 8 Watt		
(primary)	9025003 16 Watt	9025003 16 Watt	9025003 16 Watt		
Opt. ECM Fan Motor Brackets					
(ambient)	5197471	5205279	5197471		
(secondary)	5197471	5197471	5197471		
(primary)	5205112	5205112	5205112		
Opt. ECM Fan Blades (amb.)(7.75" 15° 5B)	9301932				
(amb.)(6" 15° 5B)		9408191			
(amb.)(7.75" 18° 5B)			9023761		

Installation & Service Manual

Case Usage	Domestic			Export	
Case Size	6'	8'	12'	8'	12'
Opt. ECM Fan Blades (cont.) (sec.)(7.75" 13° 5B)	9042245				
(sec.)(7.75" 15° 5B)		9301932	9301932		
(prim.)(8.75" 22° 5B)	9040683	9040683			
(prim.)(8.75" 20° 5B)			9023763		
Fan Guard (ambient)	5063030	5063030	5063030	5063030	5063030
T-8 Electronic Ballast (canopy) (N6F)	5966635	5966635	5991030	9322288	9322287
(canopy) (N6FL)	5991030	5991030	5991030	9322287	9322287
(nose) (N6F)	5991029	5991029	5991030	9322286	9322287
T-8 Lampholder	5232279	5232279	5232279	5232279	5232279
Light Switch	5100565	5100565	5100565	5100565	5100565
Electric Defrost Heater (3/case)	9051634 1350 Watt	9051633 1800 Watt	9051632 2900 Watt	5209264	5209265
Special Contactor for Defrost w/Aux. Pilot Circuit - 3 Pole 40A	5109383& 5638229	5109383& 5638229	5109383& 5638229	5109383& 5638229	5109383& 5638229
Electric Def. Termination T'stat	5058480	5058480	5058480	5058480	5058480
Opt. Case Temperature T'stat	5217892	5217892	5217892	5217892	5217892
Anti-Sweat Heater Wire (between sec./prim. air bands	s)5216522	5088067	5088068	5088691	5088692
(in primary air band)	5124216	5124216	5124217	5081147	5081148
NSF Product Thermometer	5967100	5967100	5967100	5967100	5967100

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