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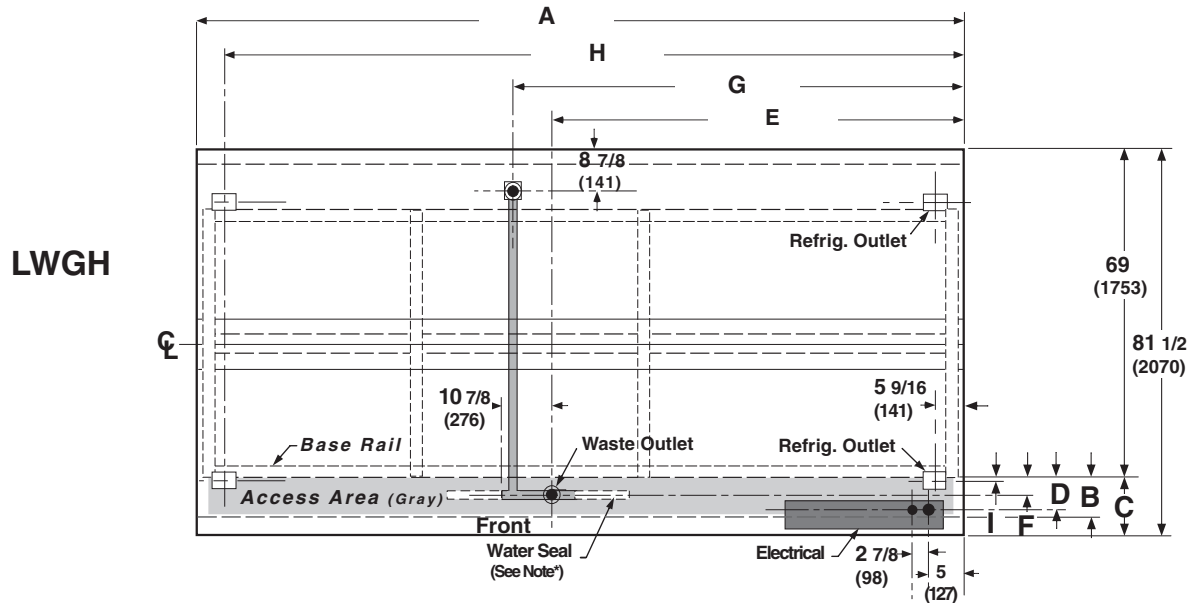
Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
FAN ASSEMBLIES AND THERMOSTATS				HEATERS (CONTINUED)			
A.	4W Fan Assembly		(1)	G.	Drip Pan Heaters, Electric 208V		(7)
	0392457	Fan Motor, Standard (MO.4410101)		0392413	8 foot case (HE.0392413)		
	0409511	Fan Blade, embossing toward motor (FB.0409511)		0392414	12 foot case (HE.0392414)		
B.	Optional Adjustable Refrigeration Thermostat		(2)		Drip Pan Heaters, Koolgas 120V		(8)
C.	0398557 (Front) Defrost Termination Thermostat (CT.4440611)		(3)	0421238	8 foot case (HE.4850496)		
	0398558 (Rear) (Electric Defrost only) (CT.4481088)			0421239	12 foot case (HE.4850497)		
D.	0425304 Heater Switch (Koolgas Defrost only) (CT.0425304)		(4)	H.	Nosing Anti-sweat Heaters		(9)
HEATERS				0401605	8 foot case (Discharge) (HE.0401605)		
E.	Control-Glass Anti-sweat Heaters (Export) Contour Ends 250V, 5amp		(5)	0401606	12 foot case (Discharge) (HE.4850471)		
	0400543	8 & 12 foot cases (CT.4480905)		I.	Multiglass - 2 Pane, w/heater (Front & Rear)		(10)
F.	0395709 Modular Electric Defrost Heaters, 208V (HE.4850409)		(6)	0420156	8 foot case (GL.4985203)		
				0420157	12 foot case (GL.4985204)		
				0420184	Contour end (GL.4985218)		





NOTE: Revision D corrects heater data on Page 4.

Engineering Plan Views

Single Deck Frozen Food

Dimensions shown as inches & (mm).



	8 ft	12 ft
General		
(A) Case Length (<i>without ends or partitions</i>) (Each end and insulated partition adds 2 in. (51 mm) to case line up.) Maximum O/S dimension of case back to front (<i>includes bumper</i>)	96 1/4 (2445)	144 3/8 (3667)
(B) Front of splashguard to O/S edge of front base rail	8 1/2 (216)	8 1/2 (216)
Back of case to O/S edge of front base rail	69 (1753)	69 (1753)
(C) Front of case to O/S edge of front base rail	12 1/2 (318)	12 1/2 (318)
Width of base rail	2 1/8 (54)	2 1/8 (54)
Stub-up area (gray) between front base rail and splashguard	7 5/8 (194)	7 5/8 (194)
Electrical Service  (<i>Electrical Field Wiring connection point</i>)		
RH End of case to center of nearest knockout	5 (127)	5 (127)
(D) Center of knockouts to O/S edge of front base rail	7 (178)	7 (178)
Waste Outlets 		
(E) RH End of case to the center of front waste outlet	58 1/4 (1480))	67 7/8 (1724)
(F) Center of waste outlet to O/S edge of front base rail	3 3/4 (95)	3 3/4 (95)
(G) RH End of case to center of rear waste outlet	38 (965)	76 1/2 (1918)
Back O/S of case to center of waste outlet	8 7/8 (225)	8 7/8 (225)
Water Seal 		
Edge of water seal to center of waste outlet	11 (279)	11 (279)
O/S diameter of drip pipe lines	1 1/2 (38)	1 1/2 (38)
Note*: Field installed water seal outlet, tees and connectors are shipped with case.		
Refrigeration Outlet 		
RH End of case to center of RH front and rear refrigeration outlets	5 1/2 (140)	5 1/2 (140)
(H) LH End of case to center of LH front and rear refrigeration outlets	88 3/8 (2245)	138 7/8 (3527)
Back O/S edges of case to center of refrigeration outlet	70 1/4 (1784)	70 1/4 (1784)
(I) Center of refrigeration outlet to O/S edge of front skidrail	1 1/4 (32)	1 1/4 (32)

Impact LWGH
Frozen Food & Ice Cream

REFRIGERATION DATA

Note: This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H.

	FF	IC
Discharge Air (°F)	-12	-22
Evaporator (°F)	-20	-30
Unit Sizing (°F)	-23	-33
<i>Btu/hr/ft</i>	FF	IC
Parallel	775	785
Conventional	800	810

DEFROST DATA

	FF	IC
Frequency (hr)	24	24
Defrost Water (lb/ft/day)	1.5	1.2

(± 15% based on case configuration and product loading).

<i>ELECTRIC</i>	FF	IC
Temp Term (°F)	48°	48°
Failsafe (minutes)	60	60

<i>GAS</i>	FF	IC
Duration (minutes)	15	18
<i>OFFTIME</i>	Not Recommended	

Standard Defrost Thermostat
Close on rise: close 48°F — open 33°F

CONVENTIONAL CONTROLS

	FF	IC
Low Pressure Backup Control		
CI/CO (Temp °F)*	-27/-39	-27/-39

Indoor Unit Only, Pressure Defrost Termination (Temp °F)

Not Recommended
*Use a Temperature Pressure Chart to determine PSIG conversions.

PHYSICAL DATA

Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	5/8

Estimated Charge (lb)**

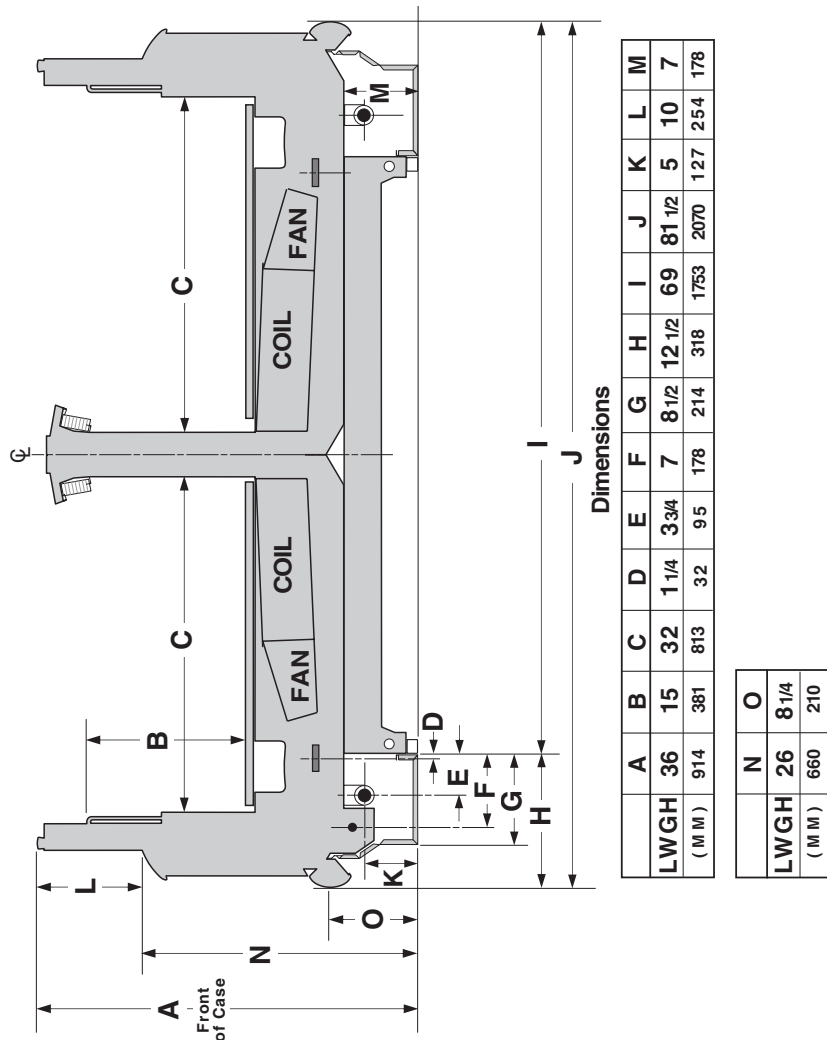
8 ft	3.5
12 ft	5.3

**This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Length Added to Lineup by:

Each End/Partition (in.)	1 1/2
Each Contoured End	5

Dimensions shown in inches & (mm).



NSF Certification

These merchandisers are manufactured to meet ANSI /National Sanitation Foundation (NSF®) Standard #7 requirements.

Impact LWGH Frozen Food & Ice Cream

Electrical Data

	8 ft	12 ft
Number of Fans – 4W	4	6
(Energy Efficient fan motors are not available for End or End-compartment models)		

			Amperes		Watts	
			8 ft	12 ft	8 ft	12 ft
Evaporator Fans						
120V	60Hz	Standard	1.24	1.86	96	144
120V	50Hz	Standard	NA			
230V	60Hz	Export	0.60	0.90	96	144
230V	50Hz	Export	0.72	1.08	108	162
120V	60Hz	Energy Efficient	0.56	0.84	40	60
230V	60Hz	Energy Efficient	NA			

Nosing Anti-sweat Heaters (on fan circuit)						
120V	60Hz	Standard	1.88	2.80	224	336
230V	50Hz	Export	0.98	1.46	224	336

Glass Anti-sweat Heaters						
120V	60Hz	Standard	2.44	3.32	294	398
230V	50Hz	Export	1.41	1.91	324	439

Cycling Anti-sweat Heaters						
120V	60Hz	Standard	NA			
230V	50Hz	Export	NA			

Minimum Circuit Ampacity						
120V	60Hz	Standard	5.76	8.18		
120V	50Hz	Standard	NA			
230V	60Hz	Export				
230V	50Hz	Export	3.31	4.65		
120V	60Hz	Energy Efficient	5.08	7.16		
230V	60Hz	Energy Efficient	NA			

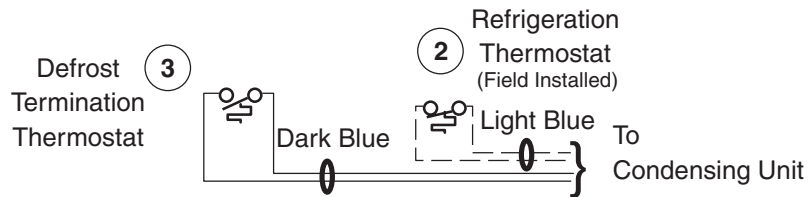
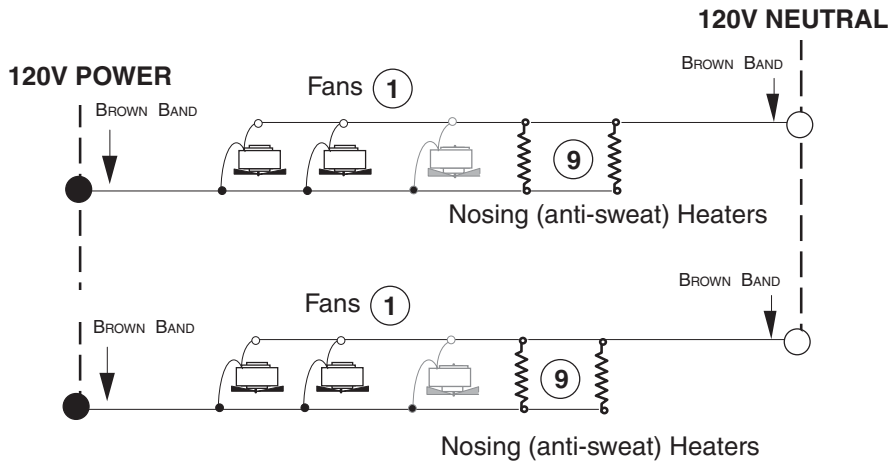
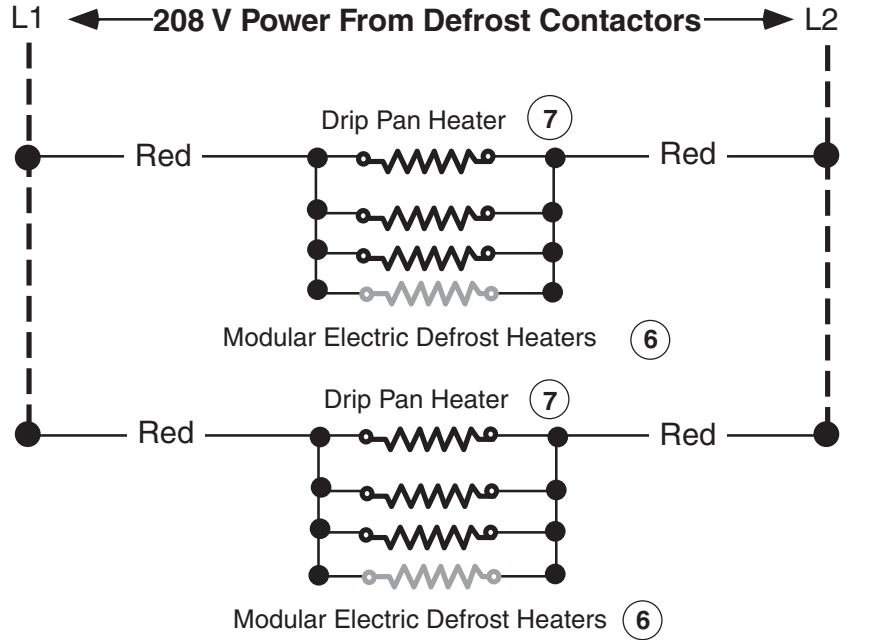
Maximum Over Current Protection 120V	20	20
Maximum Over Current Protection 230V	15	15

Electric Defrost Heaters							
<u>208V</u>	60Hz	Standard	Front Compartment	8.0	12.0	1670	2505
<u>208V</u>	60Hz	Standard	Rear Compartment	8.0	12.0	1670	2505
230V	50Hz	Export	Front Compartment	8.9	13.3	2047	3060
230V	50Hz	Export	Rear Compartment	8.9	13.3	2047	3060

Koolgas Drip Pan Heaters							
120V	60Hz	Standard		5.0	7.5	600	900
<u>230V</u>	50Hz	Export		NA			

Standard Lighting: None

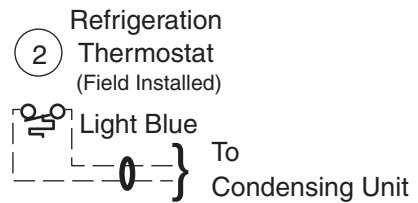
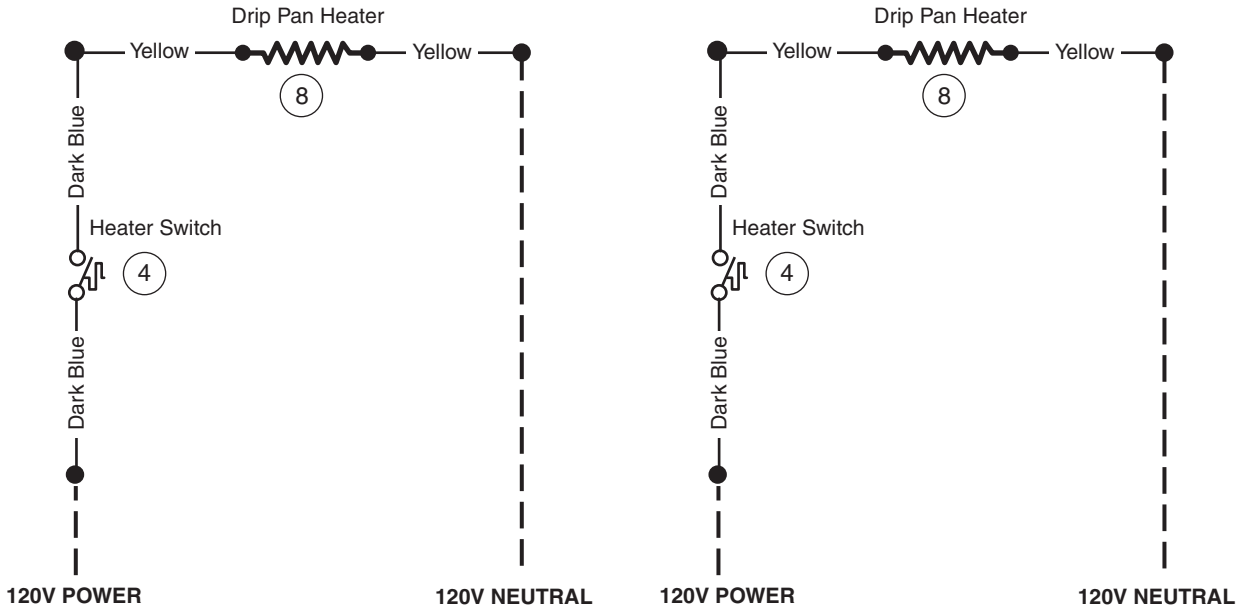
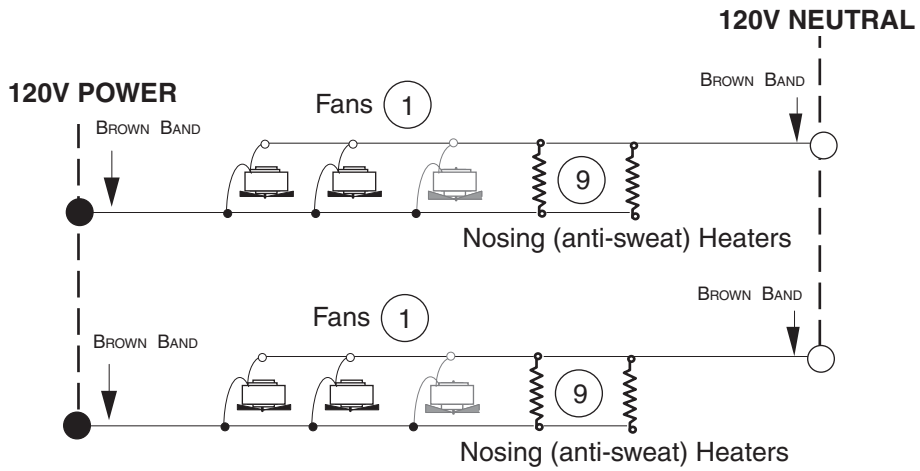
Electric Defrost – Standard



WARNING

All components must have mechanical ground, and the merchandiser must be grounded.
 Circled Numbers = Parts List Item Numbers
 Grayed components in 12 foot models only.

Gas Defrost – Optional



WARNING

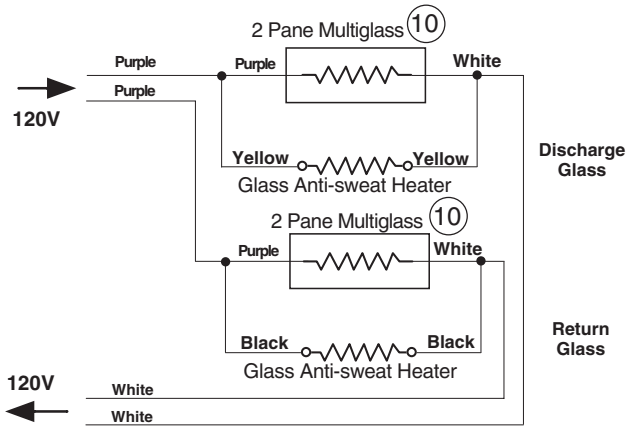
All components must have mechanical ground, and the merchandiser must be grounded.

Circled Numbers = Parts List Item Numbers

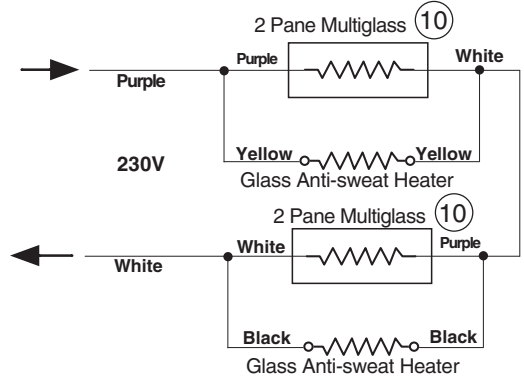
Grayed components in 12 foot models only.

Glass Anti-sweat Heaters — Domestic & Export

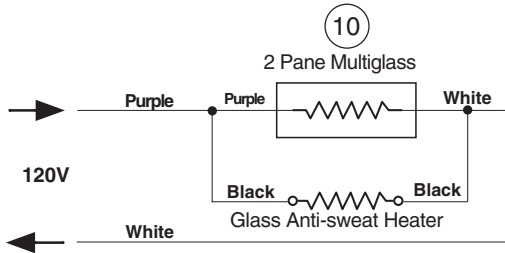
Glass Anti-sweat Heater (Domestic)



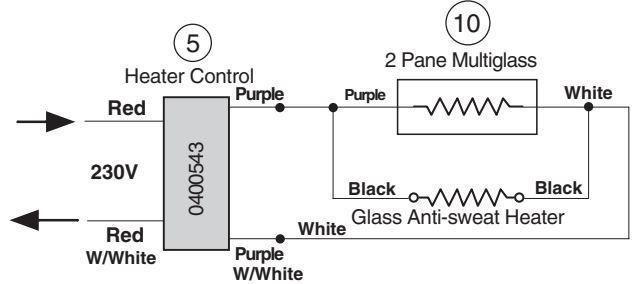
Glass Anti-sweat Heater (Export Only)



**Anti-sweat Heater (Domestic)
LWGH Contour Ends**



**Anti-sweat Heater (Export Only)
LWGH Contour Ends**



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