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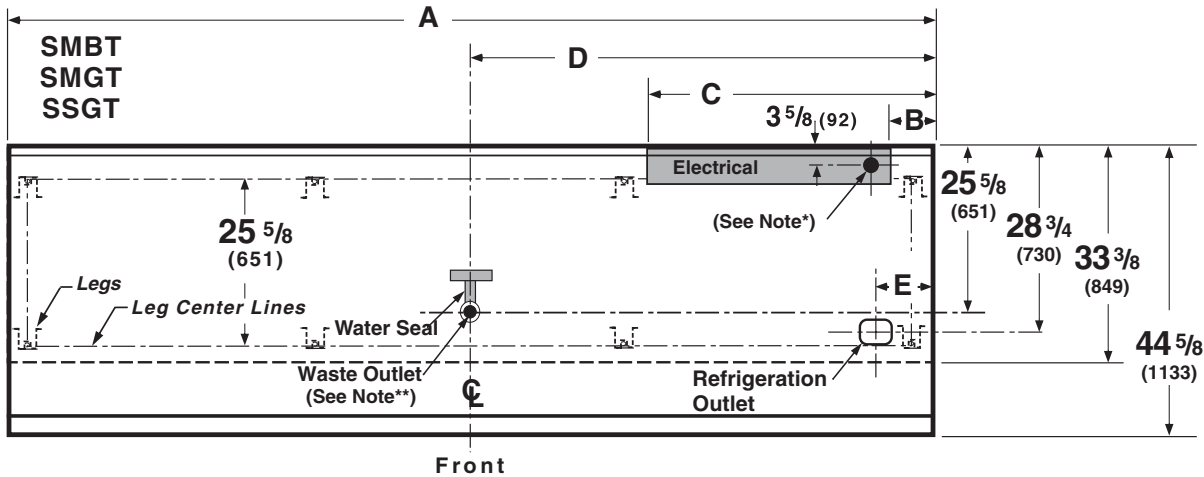
Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
<b>FAN ASSEMBLIES AND THERMOSTATS</b>				<b>LAMPS AND BALLASTS</b>			
A.	0392457	Fan Motor, Evaporator (120V) (MO.4410101)	(1)	E.	0355716	Ballast, Electronic, <b>2 lamps</b> (120V) (BA.0355716)	(5)
	0409512	Fan Blade (120V) (FB.0409512) embossing toward motor		E.	0355398	Ballast, Electronic, <b>3 lamps</b> (120V) (BA.4480118)	(6)
	0436517	Fan Motor, Evaporator (220V) (MO.4410105)		E.	0440215	Ballast, Electronic, <b>2 lamps</b> (230V 50-60 Hz) (BA.4481267)	(5)
	0409513	Fan Blade (220V) (FB.0409513) embossing toward motor		E.	0428652	Ballast, Electronic, <b>3 lamps</b> (230V 50-60 Hz) (BA.4480897)	(6)
B.	0404551	Fan Motor, Ambient (120V) (MO.0404551)	(2)		0385104	Ballast Transformer (230V 50-60 Hz, per ballast) (TR.4481191)	
	0404552	Fan Motor, Ambient (220V) (MO.4410590)		F.		Fluorescent Lamp	(7)
C.	<u>0382028</u>	Standard Non-adjustable Defrost Thermostat (CT.0382028)	(3)			<i>Replace with like fixtures</i>	
D.	0137880	Optional Adjustable Refrigeration Thermostat (CT.4481084)	(4)				

**Note: Changed items have been underlined.**

# Engineering Plan Views

## Meat & Delicatessen

Dimensions shown as in. and (mm).



General	4 ft	6 ft	8 ft	12 ft
<b>(A)</b> Case Length	48 1/4 (1226)	72 1/4 (1835)	96 3/8 (2448)	144 1/2 (3670)
Maximum O/S dimension of case back to front (Note: Includes bumper)	44 5/8 (1134)	44 5/8 (1134)	44 5/8 (1134)	44 5/8 (1134)
Back of case to front of splashguard	33 3/8 (848)	33 3/8 (848)	33 3/8 (848)	33 3/8 (848)
Center of rear legs to center of front legs	25 5/8 (651)	25 5/8 (651)	25 5/8 (651)	25 5/8 (651)
Each End and Partition adds 1 1/2 in. (38 mm) to the length of the lineup.				
<b>Electrical Service</b>				
<b>(B)</b> RH end of case to Electrical raceway right edge	7 (178)	7 (178)	7 (178)	7 (178)
<b>(C)</b> RH end of case to Electrical raceway left edge	41 3/8 (1051)	32 3/4 (831)	44 1/2 (1131)	44 1/2 (1131)
Back of case to center of knockout	3 5/8 (92)	3 5/8 (92)	3 5/8 (92)	3 5/8 (92)
* Electrical Field Wiring Connection Point				
<b>Waste Outlet</b>				
<b>(D)</b> RH end of case to the center of waste outlet	24 (610)	24 (610)	24 (610)	24 (610)
Back of case to center of waste outlet	25 5/8 (652)	25 5/8 (652)	25 5/8 (652)	25 5/8 (652)
<b>Water Seal</b>				
Center of tee to center of waste outlet	11 3/8 (289)	11 3/8 (289)	11 3/8 (289)	11 3/8 (289)
Outside diameter of drip piping	1 1/2 (38)	1 1/2 (38)	1 1/2 (38)	1 1/2 (38)
** Field installed water seal outlets, tees, and connectors are shipped with the merchandiser.				
<b>Refrigeration Outlet</b>				
Back of case to center of refrigeration outlet	28 3/4 (731)	28 3/4 (731)	28 3/4 (731)	28 3/4 (731)
<b>(E)</b> RH end of case to center of refrigeration outlet	9 3/8 (238)	9 3/8 (238)	9 3/8 (238)	9 3/8 (238)
Outside diameter of the liquid line	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
Outside diameter of the suction line	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)

# Impact **SMBT** Meat & Delicatessen

**REFRIGERATION DATA**

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

	<b>SMBT</b>
<b>Discharge Air (°F)</b>	24
<b>Evaporator (°F)</b>	18
<b>Unit Sizing (°F)</b>	16

<i>Btu/hr/ft</i>	<b>SMBT</b>
<b>Parallel</b>	420
<b>Conventional</b>	450

**DEFROST DATA**

	<b>SMBT</b>
<b>Frequency (hr)</b>	12
<b>Defrost Water (lb/ft/day)</b>	0.20 (± 15% based on case configuration and product loading).

<i>OFFTIME</i>	<b>SMBT</b>
<b>Temp Term (°F)</b>	43°
<b>Failsafe (minutes)</b>	90

**ELECTRIC OR GAS** Not Recommended

**Standard Defrost Thermostat**  
Close on rise: close 43°F — open 33°F

**CONVENTIONAL CONTROLS**

<b>Low Pressure Backup Control</b>	<b>SMBT</b>
<b>CI/CO (Temp °F)*</b>	11°F/1°F
<b>Indoor Unit Only, Pressure Defrost Termination (Temp °F)*</b>	

Not Recommended

\*Use a Temperature Pressure Chart to determine PSIG conversions.

**PHYSICAL DATA**

<b>Merchandise Drip Pipe (in.)</b>	1 1/2
<b>Merchandise Liquid Line (in.)</b>	3/8
<b>Merchandise Suction Line (in.)</b>	5/8

**Estimated Charge (lb)\*\***

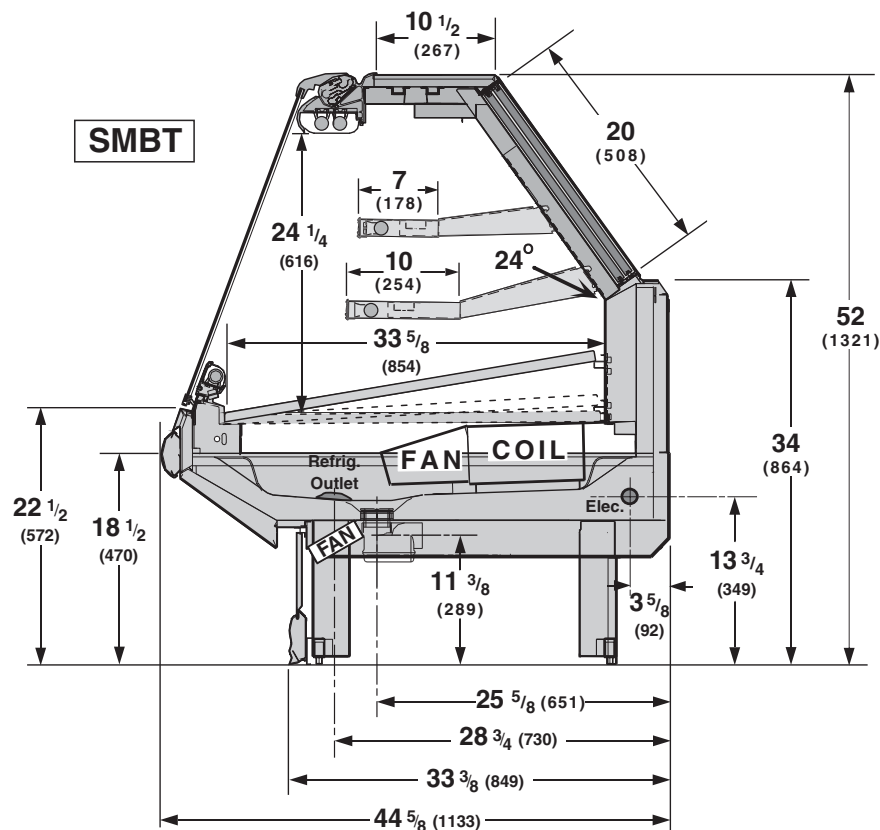
<b>4 ft</b>	0.75
<b>6 ft</b>	1.0
<b>8 ft</b>	1.5
<b>12 ft</b>	2.0

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

**Length Added to Lineup by:**

<b>Each Plastic End w/ Bumper (in.)</b>	3 1/2
<b>Each End/Partition (in.)</b>	1 1/2

Dimensions shown as in. and (mm).

**NSF Certification**

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

## Electrical Data

Number of Fans	4 ft	6 ft	8 ft	12 ft
Refrigeration (120V 60hz) – 4W	1	2	2	3
Ambient Air Wipe – 15W	2	4	4	6

Export Refrigeration (230V 50 hz ) – 4W	1	2	2	3
Export Ambient Air Wipe – 15W	2	4	4	6

Merchandise	Amperes				Watts			
	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
<b>Refrigeration Fans</b>								
Standard (120V 60hz)	0.31	0.62	0.62	0.93	24	48	48	72
Energy Efficient(120V 60hz)	NA	NA	NA	NA	NA	NA	NA	NA
Export: 230V 50 hz	0.18	0.36	0.36	0.54	27	54	54	81
<b>Ambient Air Wipe Fans</b>								
Standard (120V 60hz)	0.26	0.52	0.52	0.78	15	30	30	45
Energy Efficient(120V 60hz)	NA	NA	NA	NA	NA	NA	NA	NA
Export: 230V 50 hz	0.13	0.26	0.26	0.39	15	30	30	45

Constant On Anti-sweat Heaters	NA	NA	NA	NA	NA	NA	NA	NA
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Cycling Anti-sweat Heaters	NA	NA	NA	NA	NA	NA	NA	NA
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### Minimum Circuit Ampacity

With Standard Fans (120V 60hz)	0.77	1.34	1.34	1.91
With Energy Efficient Fans (120V 60hz)	NA	NA	NA	NA
With Export Fans (230V 50 hz )	0.51	0.82	0.82	1.13

Maximum Over Circuit Protection 120V	20	20	20	20
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Electric Defrost Heaters (208V)	NA	NA	NA	NA	NA	NA	NA	NA
Gas Defrost Heaters (208V)	NA	NA	NA	NA	NA	NA	NA	NA

Standard Lighting* (120V 60hz)	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
2 Row Canopy	0.49	0.80	0.98	1.42	58	92	116	170
1 Row Rail	0.49	0.40	0.49	0.71	58	46	58	85

### Optional Lighting

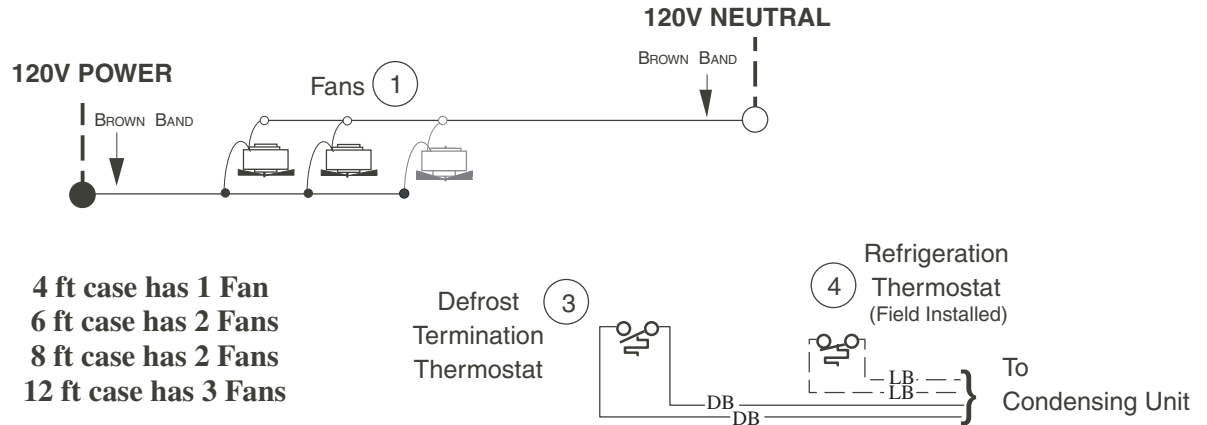
1 Row Ledge	0.49	0.40	0.49	0.71	58	46	58	85
2 Row Shelves	0.49	0.80	0.98	1.42	58	92	116	170

115V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

230V Lighting Circuit Total = Multiply 115V Lighting Circuit Total by 0.52

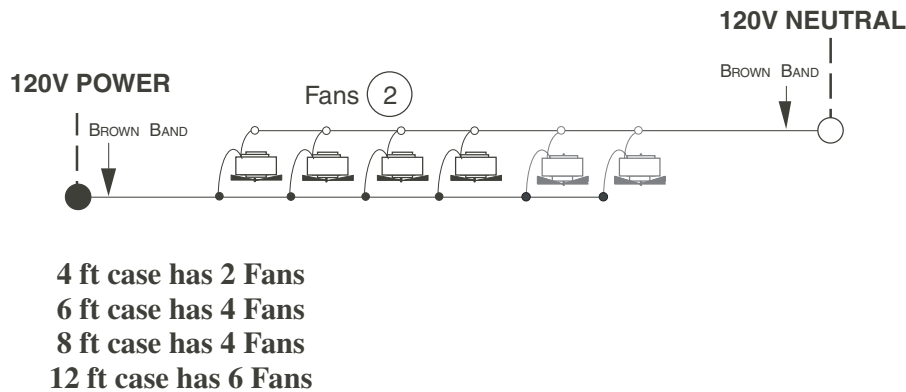
## Fans

### Fan Wiring Offtime Defrost



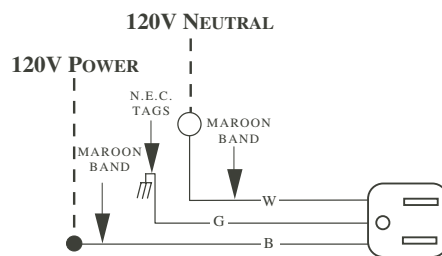
## Fans

### Ambient Fan Wiring Glass Air Wipe



## Electric Service Receptacle

### Receptacles



### WARNING

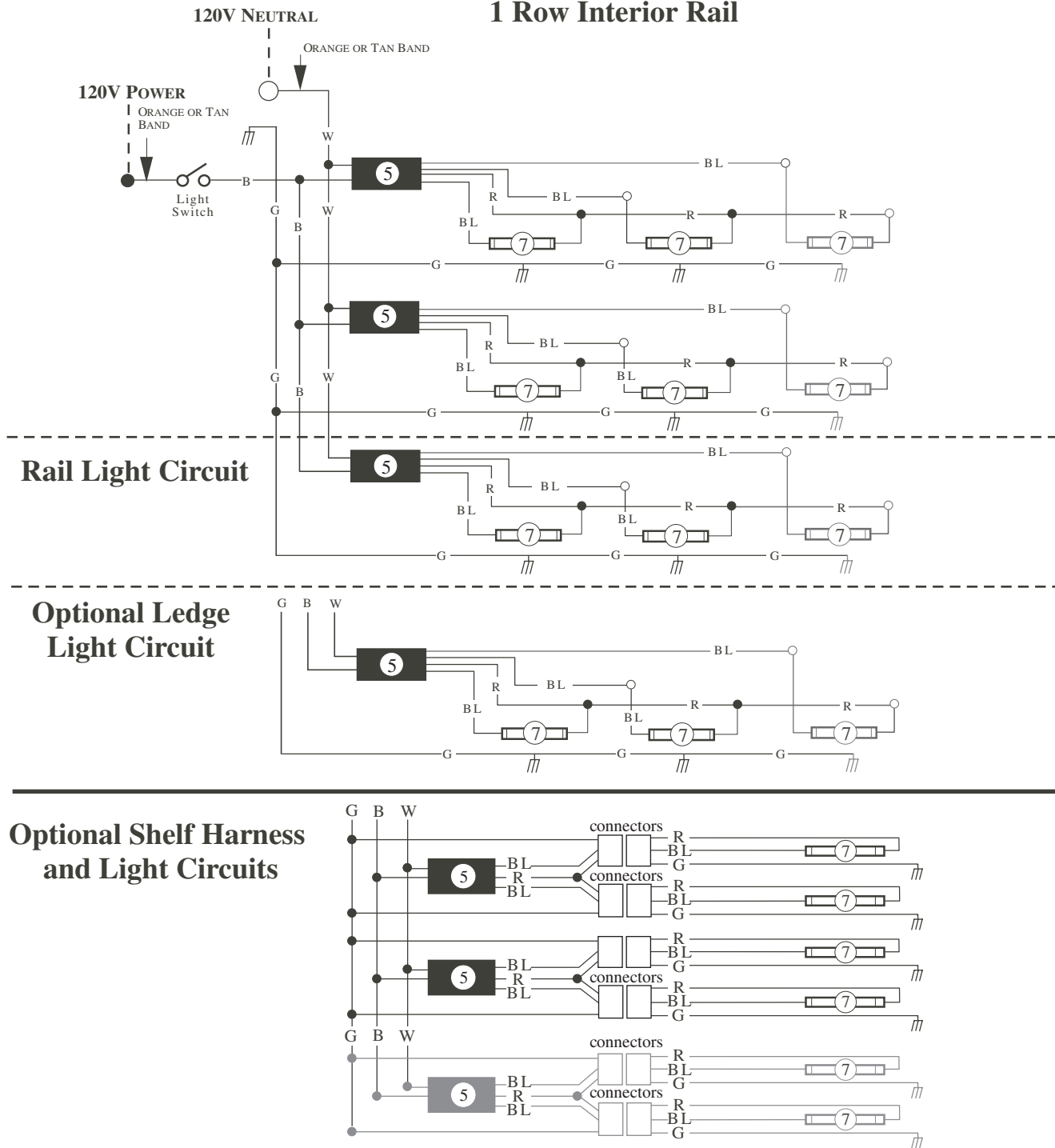
All components must have mechanical ground, and the merchandiser must be grounded.  
Circled Numbers = Parts List Item Numbers  
Grayed components in 12 foot models only.

R = Red G = Green BL = Blue LB = Light Blue DB = Dark Blue B = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ≡ = Field GROUND ≡ = Case GROUND

# Light Circuits

## Standard Lighting 2 Row Canopy, 1 Row Interior Rail



### WARNING

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Grayed components in 12 foot models only.

R = Red G = Green BL = Blue B = Black W = White

● = 120V POWER

○ = 120V NEUTRAL

⏏ =

Field GROUND

⏏ =

Case GROUND