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Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
FAN ASSEMBLIES				HEATERS			
8 Ft & 12 Ft				D.		Canopy Anti-Sweat Heater	(4)
A.	7W Standard	Fan Assembly	(1)		<u>0512501</u>	8 ft (HE.4851176)	
	0058698	Fan Motor, Evaporator (MO.4410102)			<u>0512503</u>	12 ft (HE.4851178)	
	0142780	Fan Blade (FB.0142780)		LAMPS, BALLASTS, LED FIXTURES AND POWER SUPPLY			
	7W Energy Efficient	Fan Assembly	(1)	E.		Ballast, Electronic	(5)
	0477654	Fan Motor, Evaporator (MO.4410545)			0480130	2 lamps (BA.4481676)	
	0142780	Fan Blade (FB.0142780)			0480131	3 lamps (BA.4481654)	
THERMOSTATS					0480132	4 lamps (BA.4481677)	
B.	0411744	Standard Non-adjustable Defrost Thermostat (CT.0411744)	(2)	F.		Fluorescent Lamp	(6)
C.		Optional Adjustable Refrigeration Thermostat	(3)			<i>Replace with like fixtures</i>	
				LED FIXTURES AND POWER SUPPLY			
				G.	0501213	Power Supply (EP.4481861)	(7)
				H.		LED Canopy Fixture	(8)
						<i>Replace with like fixtures — See Page 5.</i>	
				I.		LED Shelf Fixture	(9)
						<i>Replace with like fixtures — See Page 5.</i>	

Note: Rev. H adds Btu note (page 3), EcoShine LED (page 4) and parts (page 5), and revises canopy wiring diagram (page 6). Other changes marked by bar, underline or circle.



Engineering Plan Views

PHYSICAL DATA

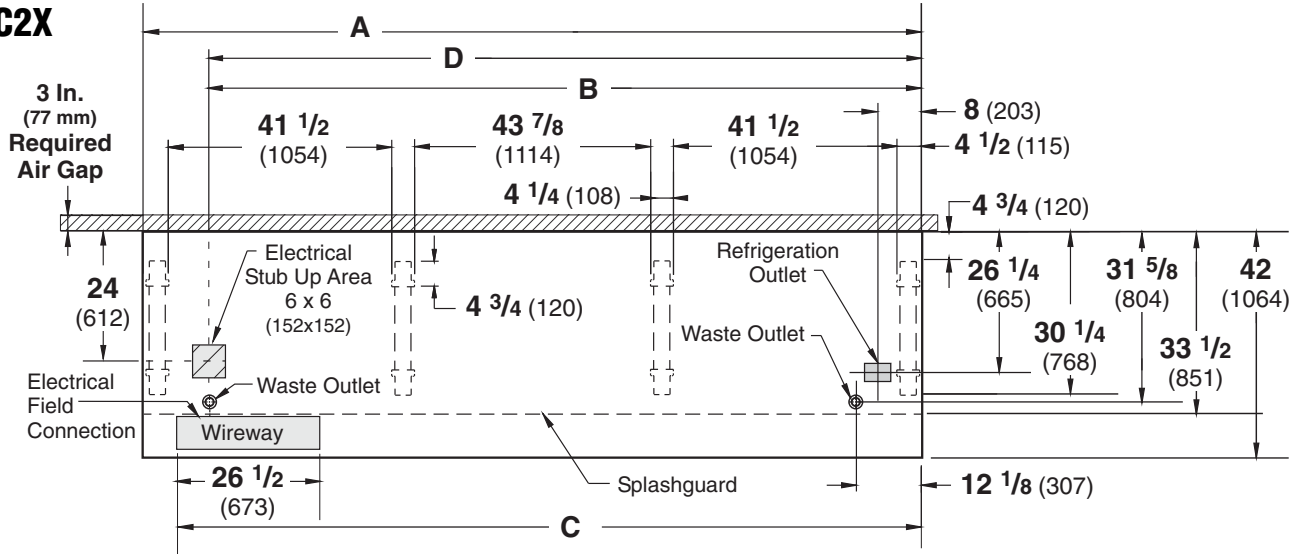
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	7/8

Dairy/Delicatessen Precut & Packaged Produce

Dimensions shown as inches and (mm).





01-2005

C2X

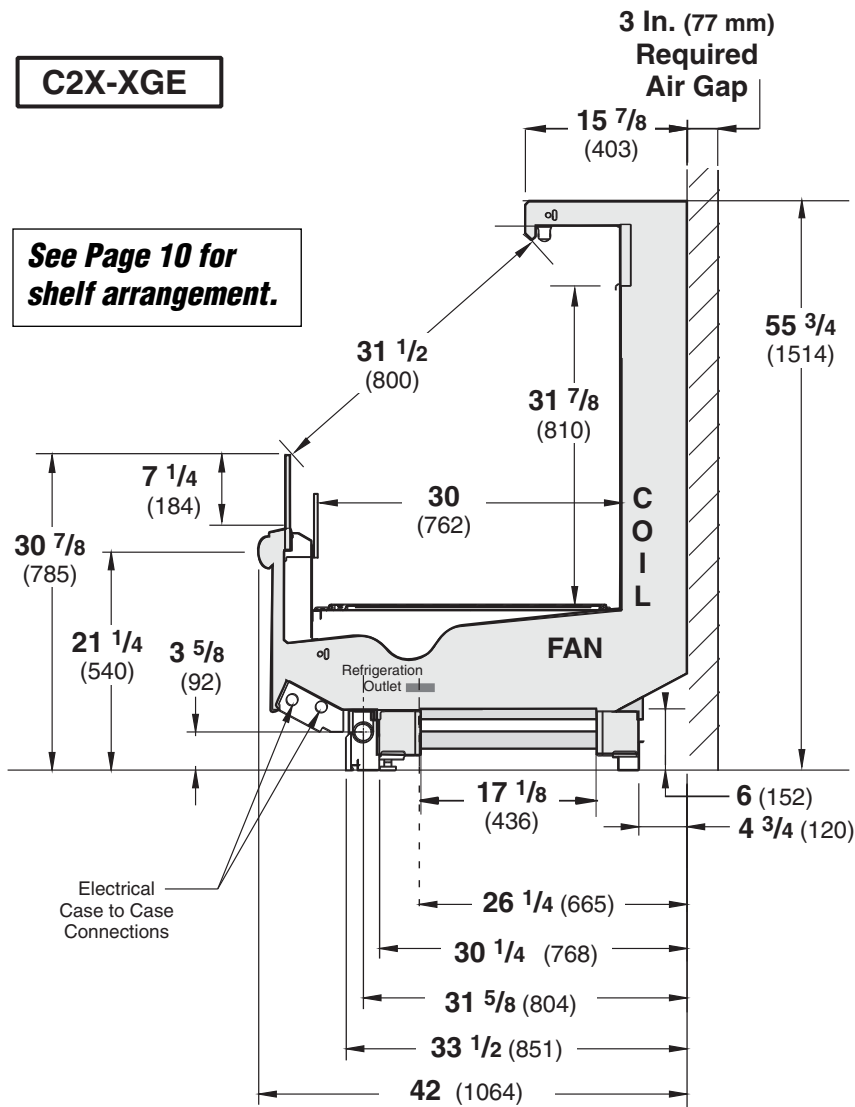


**NOTE: Case-to-Case Electrical Connections
are made IN FRONT OF SPLASHGUARD.**

FRONT

	8 ft	12 ft
General		
(A) Case Length (without ends or partitions) <i>(Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)</i> Maximum O/S dimension of case back to front <i>(includes bumper)</i>	96 3/8 (2448)	144 1/2 (3670)
Back of case to front of splashguard	42 (1064)	42 (1064)
Back of case to O/S edge of front leg	33 1/2 (851)	33 1/2 (851)
Distance between edges of external legs and center legs	30 1/4 (768)	30 1/4 (768)
Distance between edges of center legs	41 1/2 (1054)	41 1/2 (1054)
Distance between front legs and splashguard	NA	43 7/8 (1114)
	2 3/4 (70)	2 3/4 (70)
Electrical Service  <i>(Electrical Field Wiring connection point)</i>		
(B) RH End of case to center of stub up area	84 1/4 (2140)	132 3/8 (3363)
Back of case to center of stub up area	24 (612)	24 (612)
Length of electrical wireway 	26 1/2 (673)	26 1/2 (673)
(C) RH End of case to LH end of wireway	90 1/8 (2289)	138 1/4 (3511)
Waste Outlets (One each end) 		
(D) RH End of case to the center of LH waste outlet	84 1/4 (2140)	132 3/8 (3363)
RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	31 5/8 (804)	31 5/8 (804)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)
Refrigeration Outlet 		
Back of case to center of refrigeration outlet	26 1/4 (665)	26 1/4 (665)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)

Dimensions shown as inches and (mm).



C2X-XGE

See Page 10 for shelf arrangement.

Impact Excel C2X-XGE
Dairy/Delicatessen
Precut & Packaged Produce

REFRIGERATION DATA

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

	C2X-XGE
Discharge Air °F	29
Evaporator °F	21
Unit Sizing °F	19

Btu/hr/ft[‡] — Unlit Shelves^{‡‡}

	Parallel	Conventional
C2X-XGE		
UNLIT	1035	1110

[‡] Optional energy efficient motors reduce the refrigeration load by 21 Btu/hr/ft.

^{‡‡} Add 10 Btu/hr/ft per shelf row for LED fixtures.

Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

DEFROST DATA

	C2X-XGE
Frequency (hr)	6
Defrost Water (lb/ft/day)	6

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

	C2X-XGE
OFFTIME	
Temp Term °F	48°F
Failsafe Minutes	30

ELECTRIC OR GAS Not Recommended

Standard Defrost Thermostat

Close on rise: close 48°F – open 33°F

CONVENTIONAL CONTROLS

Low Pressure Backup Control

	C2X-XGE
CI/CO*	14°F / 4°F

Indoor Unit Only, Pressure Defrost

Termination* 48°F

*Use a Temperature Pressure Chart to determine PSIG conversions.

	C2X-XGE		
Estimated Charge **			
8 ft	2.3	37 oz	1.0 kg
12 ft	3.3	53 oz	1.5 kg

**This is an average for all refrigerant types.

Actual refrigerant charge may vary by approximately half a pound.

NSF Certification

This merchandiser model is manufactured to meet ANSI/NSF (National Sanitation Foundation) Standard #7 requirements for construction, materials & cleanability.

Impact Excel C2X-XGE
Dairy/Delicatessen
Precut & Packaged Produce

Electrical Data

	8 ft	12 ft		
Number of Fans—7W	2	3		
	Amperes		Watts	
	8 ft	12 ft	8 ft	12 ft
Evaporator Fan				
120V 60Hz Standard	1.00	1.50	78	117
120V 50Hz Standard	1.10	1.65	84	126
230V 60Hz Export	0.50	0.75	78	117
230V 50Hz Export	0.56	0.84	84	126
120V 60Hz Energy Efficient	0.38	0.57	28	42
230V 60Hz Energy Efficient	0.20	0.30	28	42
Minimum Circuit Ampacity †				
120V 60Hz Standard	1.20	1.70		
120V 50Hz Standard	1.30	1.85		
230V 60Hz Export	0.70	0.95		
230V 50Hz Export	0.76	1.04		
120V 60Hz Energy Efficient	0.58	0.77		
230V 60Hz Energy Efficient	0.40	0.50		
Maximum Over Current Protection 120V	20	20		
Maximum Over Current Protection 230V	15	15		
Anti-sweat Heaters				
120V 50/60Hz Standard	0.20	0.30	24	36
Standard Lighting (T-8 Fluorescent)				
1 Row Canopy	0.51	0.77	59	85
Optional Lighting (T-8 Fluorescent)				
Additional 1 Row Canopy	0.51	0.77	59	85
1 Row Rail Light	NA — Glass front does not accept rail light			
3 Rows of Shelves	1.53	2.31	177	255
Optional EcoShine LED Lighting — CRI				
2 Row Canopy	0.55	0.83	66	98
3 Row of Shelves	0.58	0.88	70	105
Optional EcoShine LED Lighting — High CRI				
2 Row Canopy	0.63	0.93	75	112
3 Rows of Shelves	0.70	1.05	84	126
Optional Always*Bright LED Lighting				
2 Row Canopy	0.71	1.08	85	130
3 Row of Shelves	0.74	1.11	89	133

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

† MCA does not include Canopy A/S Heaters because heaters are wired separately from fans.

Product Data

<i>Recommended Usable Cube</i> ¹ (Cu Ft/Ft)	3.61 ft ³ /ft (0.34 m ³ /m)
<i>AHRI Total Display Area</i> ² (Sq Ft/Ft)	3.28 ft ² /ft (0.10 m ² /m)
<i>Shelf Area</i> ³ (Sq Ft/Ft)	6.36 ft ² /ft (1.94 m ² /m)

¹ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

³ Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann

Product Reference Guide. The standard shelf complement for this model is (1) row of 12-inch shelf, (1) row of 16-inch shelf and (1) row of 18-in shelf.

ESTIMATED SHIPPING WEIGHT ⁴			
Case	8 ft		Solid End
	12 ft		<i>(each)</i>
lb (kg)	1000 (454)	1200 (544)	75 (34)

⁴ Actual weights will vary according to optional kits included.

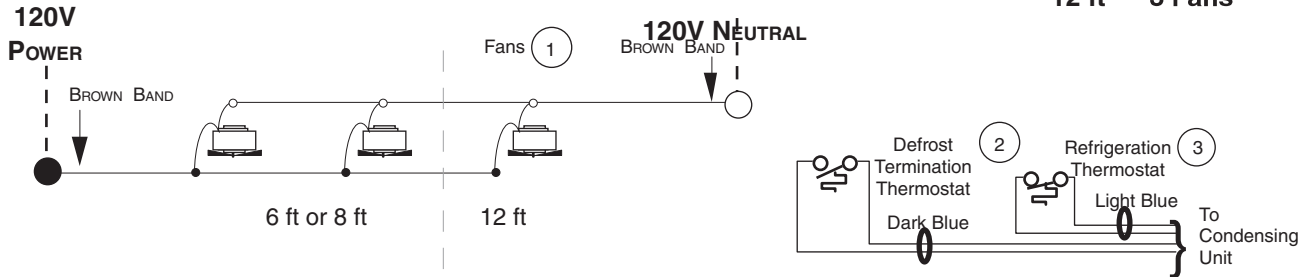
PARTS LIST (Continued from Page 1)					
Item	Part #	Description	Item	Part #	Description
LED FIXTURES AND POWER SUPPLY					
G.	0501213	Power Supply (EP.4481861) (7)	I.	EcoShine LED Shelf Fixture (9)	
H.	EcoShine LED Canopy Fixture (8)		4441590	48-inch	2900K HCRI
	4441720	Front 48-inch	4441591	48-inch	3500K HCRI
	4441722	Front 48-inch	4441592	48-inch	3500K
	4441724	Front 48-inch	4441593	48-inch	4100K
	4441726	Front 48-inch			
	4441721	Rear 48-inch			
	4441723	Rear 48-inch			
	4441725	Rear 48-inch			
	4441727	Rear 48-inch			

Note: Always*Bright lamps will be replaced with the latest generation of EcoShine lamps.

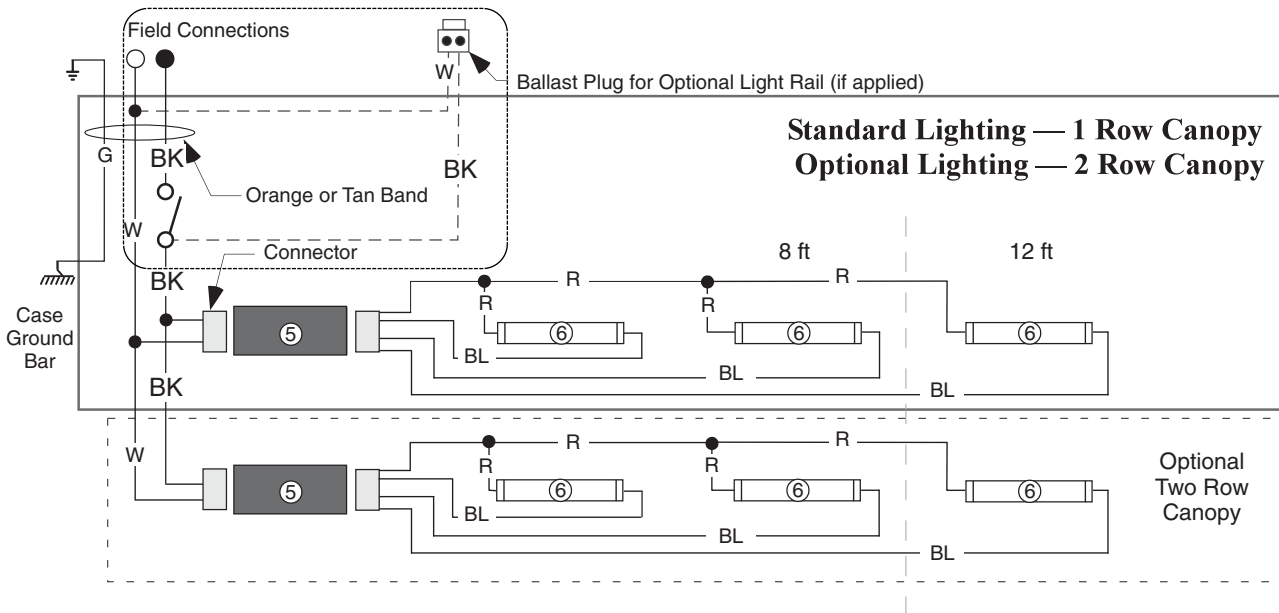
Fan Wiring Offtime Defrost

2 & 3 Fans

6 ft — 2 Fans
8 ft — 2 Fans
12 ft — 3 Fans



Canopy Light Circuits — Fluorescent Fixtures



WARNING

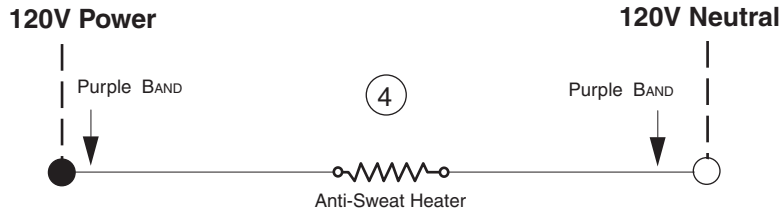
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

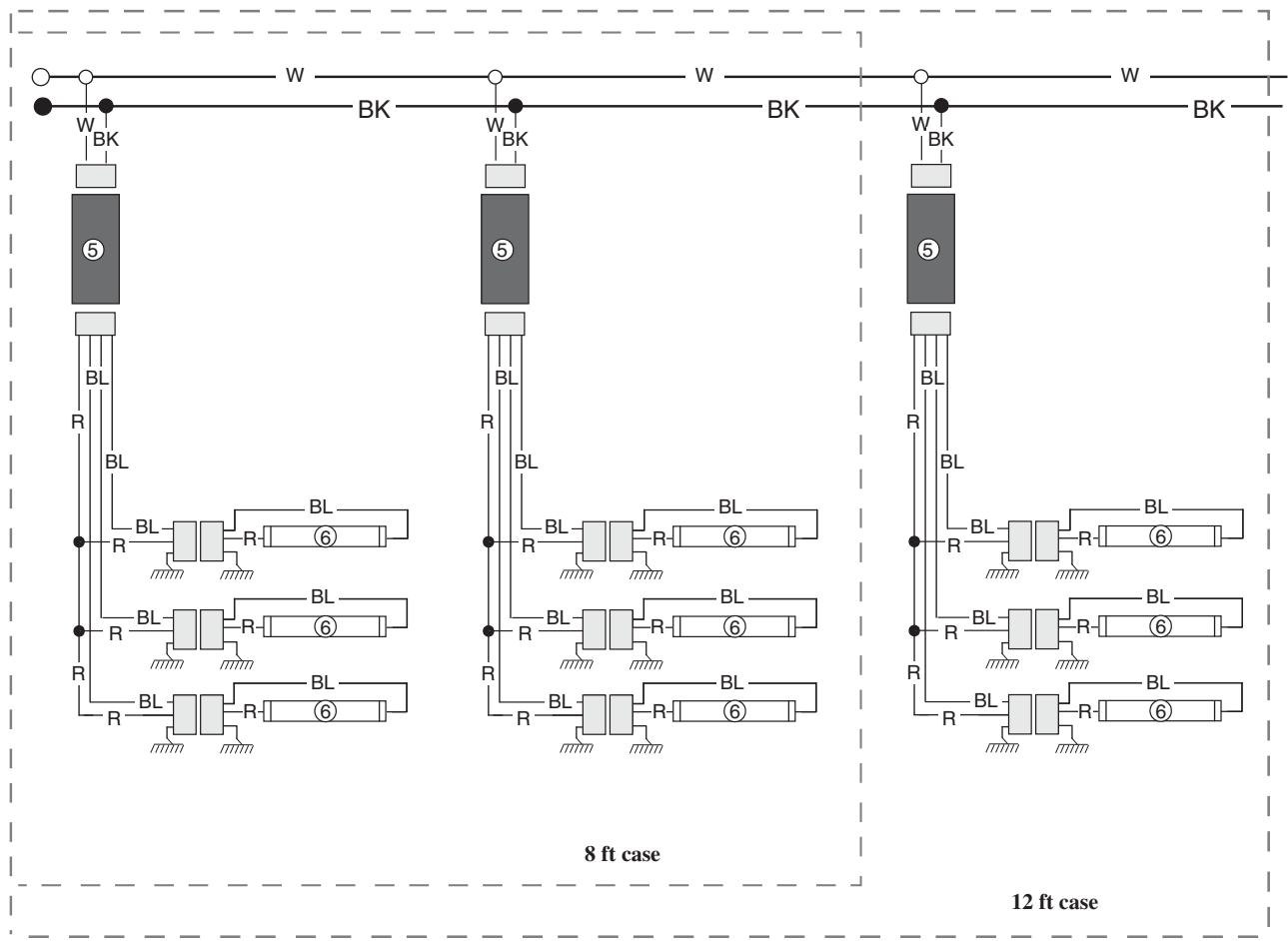
● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND mm = CASE GROUND

Canopy Anti-Sweat Heater



Optional Shelf Lighting Fluorescent Fixtures

Optional Shelf Harness and Light Circuits for Three Rows of Shelves



WARNING

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

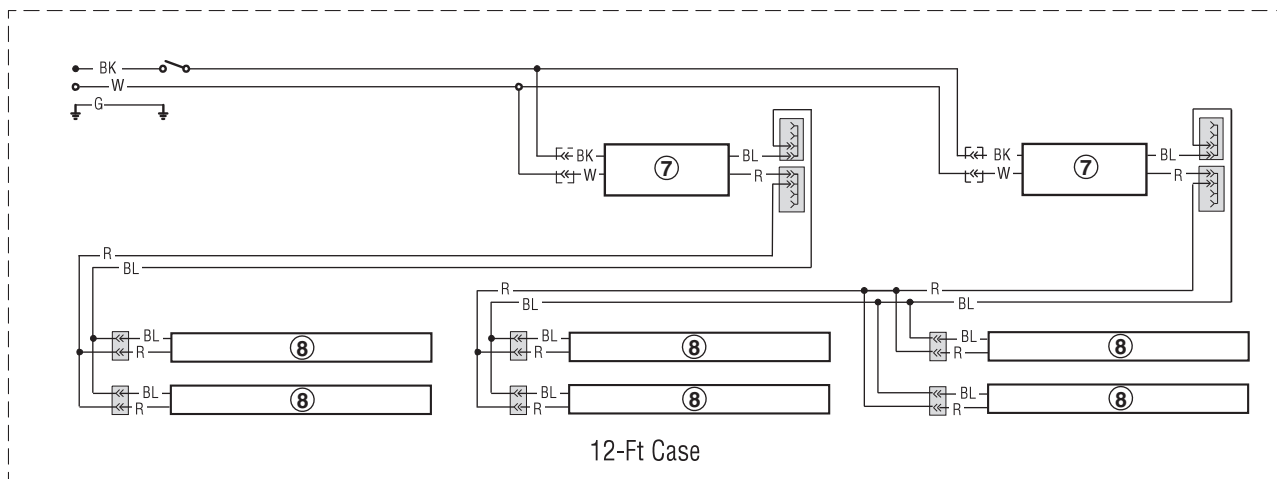
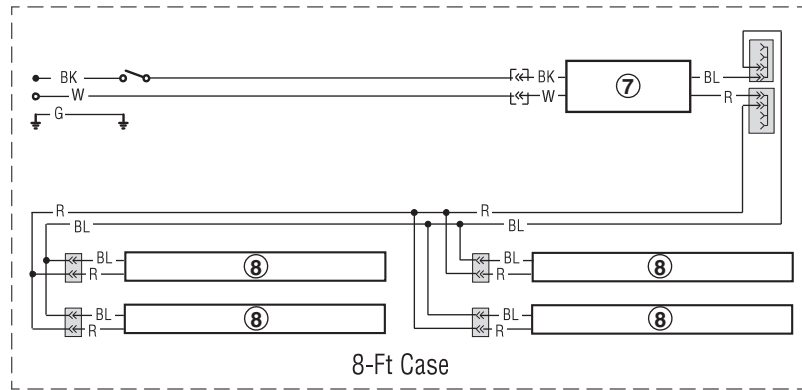
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Optional Canopy Lighting LED Fixtures

Standard LED Canopy Lighting — 2 Row Canopy



WARNING

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

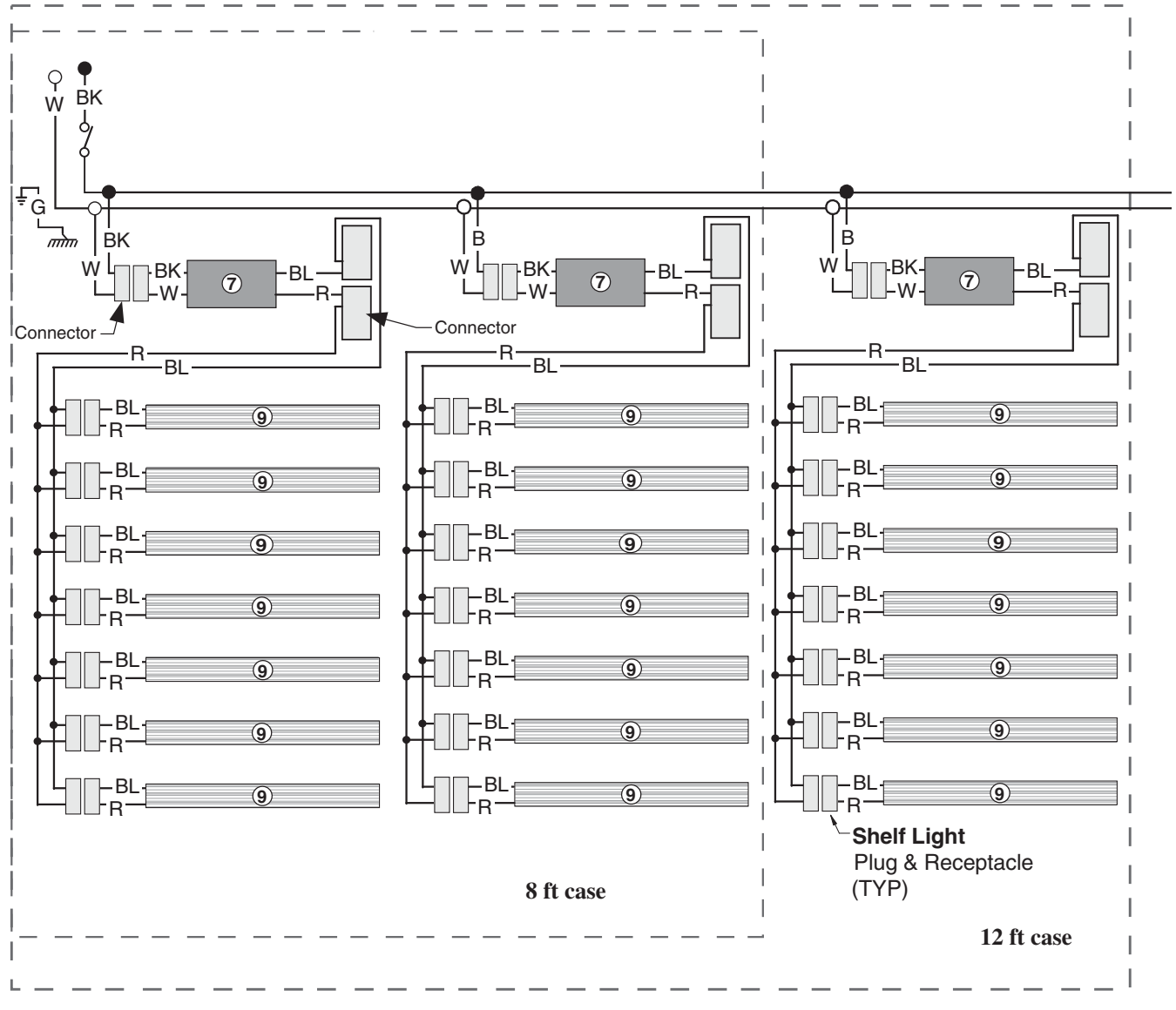
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Optional Shelf Lighting LED Fixtures

Optional Shelf Harness and LED Light Circuits for 3, 4, 5, 6 & 7 Rows of Shelves



WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red G = Green BL = Blue BK = Black W = White
 ● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND mmm = CASE GROUND

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SHELF CONFIGURATION

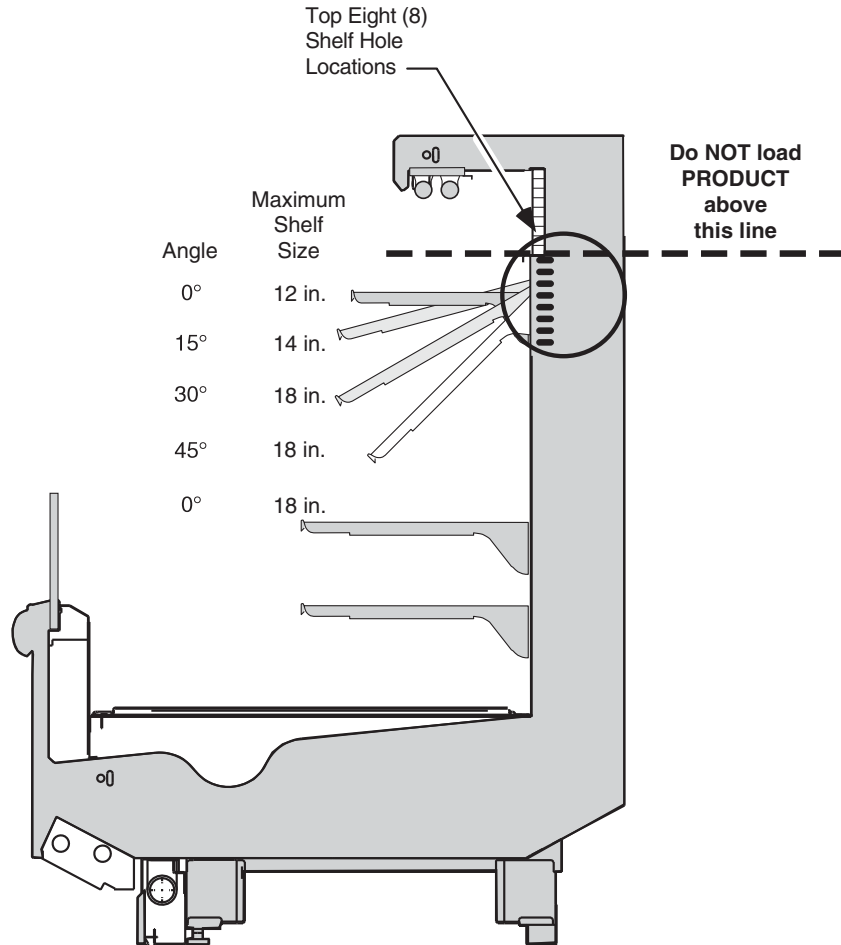
This merchandiser is designed for two or three shelves.

The depth of the shelf used in the top eight (8) shelf hole locations is critical to case performance.

If a shelf is placed in one of the top eight (8) locations it must comply with the angle/depth requirements listed below.

Shelf Angle	Maximum Shelf Depth
0°	12 in.
15°	14 in. or less
30°	18 in. or less
45°	18 in. or less

NOTE: Shelves placed in the lower positions may be up to 18 in. deep when positioned at a 0° angle.



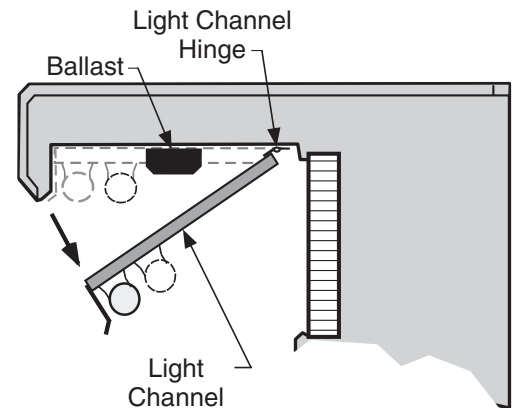
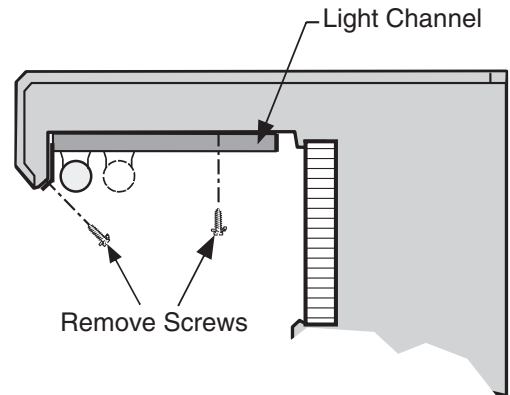
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The ballast for the canopy and shelf lamps is located behind the canopy on the left-hand end (when facing case) of the merchandiser.

To access the ballast:

1. Remove screws at bottom edge of canopy and rear of light channel.
2. Lower light channel which will pivot on hinge.
3. Service or replace ballasts as required.
4. Reassemble items as they were originally installed.

NOTE: Rail lamp ballast is located in the electrical raceway.



CANOPY ANTI-SWEAT HEATER

The canopy anti-sweat heater location is shown below. Connections are in the electrical wireway.

