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

Note: Changed items have bar in margin.

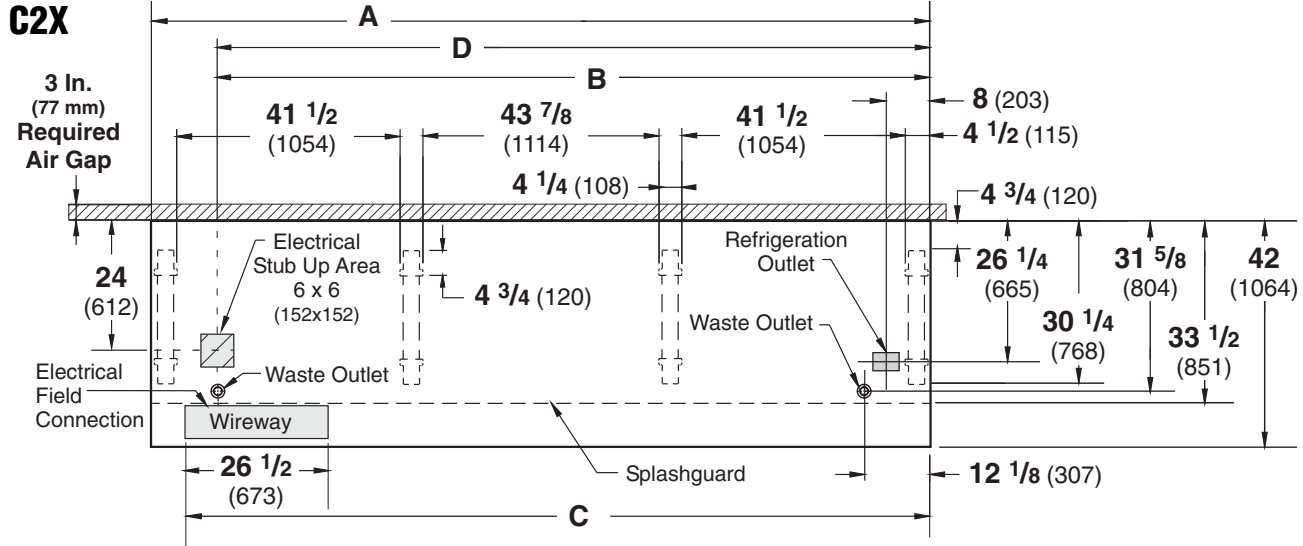


Engineering Plan Views





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 01-2005

Dimensions shown as inches and (mm).

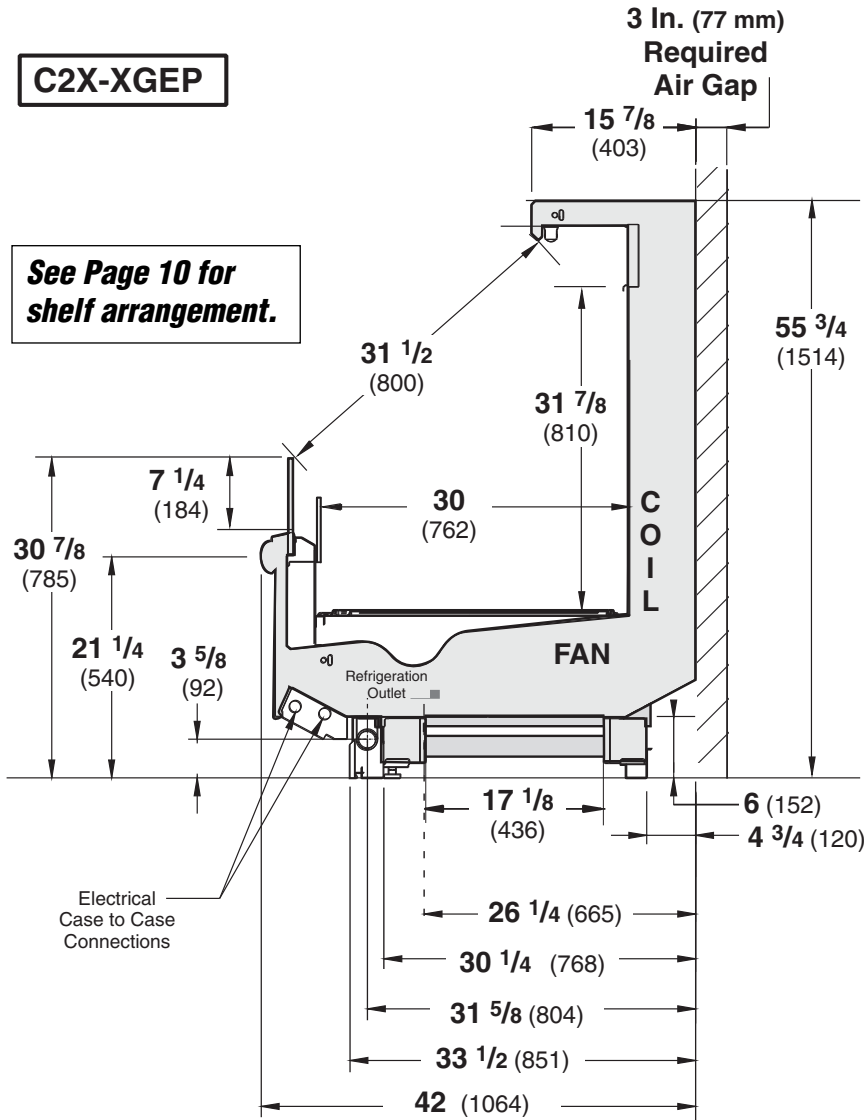


NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD. FRONT

	8 ft	12 ft
General		
(A) Case Length (without ends or partitions) (Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.) Maximum O/S dimension of case back to front (includes bumper)	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  (Electrical Field Wiring connection point)		
(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)

Multi-deck, 4 Display Levels, Standard front with Glass, 55 In. Back

Dimensions shown as inches and (mm).



NSF Certification

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

Impact Excel C2X-XGEP 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-XGEP Dairy/Deli/Produce		Meat	
	UNLIT	LIT	UNLIT	LIT
Discharge Air °F	33	31	30	28
Evaporator °F	28	26	25	23
Unit Sizing °F	26	24	23	21

Btu/hr/ft ‡ — Unlit Shelves ‡‡

	C2X-XGEP Dairy/Deli/Produce	Meat
PARALLEL	725	765
CONVENTIONAL	755	800

‡ 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-XGEP
Frequency (hr)	12
Defrost Water (lb/ft/day)	7

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

	C2X-XGEP
OFFTIME	
Time (minutes)	30
ELECTRIC OR GAS	Not Recommended

CONVENTIONAL CONTROLS

Low Pressure Backup Control

	C2X-XGEP Dairy/Deli/Produce	Meat
CI/CO*	19°F / 9°F	16°F / 6°F

Indoor Unit Only, Pressure Defrost

Termination* 48°F

*Use a Temperature Pressure Chart to determine PSIG conversions.

	C2X-XGEP	
Estimated Charge **		
8 ft	3.2 lb	51 oz 1.5 kg
12 ft	4.5 lb	70 oz 2.0 kg

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

Impact Excel C2X-XGEP
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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

Recommended Usable Cube ¹ (Cu Ft/Ft)	3.61 ft ³ /ft (0.34 m ³ /m)
AHRI Total Display Area ² (Sq Ft/Ft)	3.28 ft ² /ft (1.00 m ² /m)
Shelf Area 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			Solid End
	<i>8 ft</i>	<i>12 ft</i>	<i>(each)</i>
lb (kg)	1000 (454)	1200 (544)	75 (34)

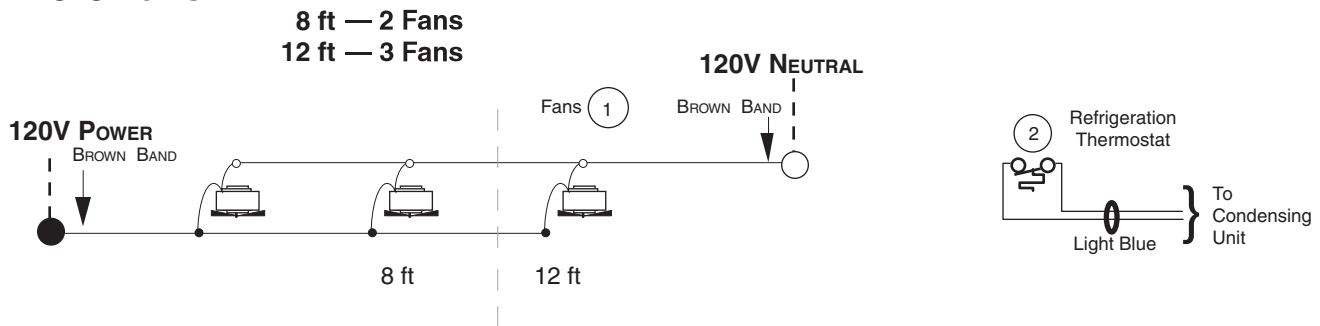
⁴ Actual weights will vary according to optional kits included.

PARTS LIST (Continued from Page 1)					
Item	Part #	Description	Item	Part #	Description
LED FIXTURES AND POWER SUPPLY					
F.	0501213	Power Supply (EP.4481861) (6)	H.	EcoShine LED Shelf Fixture (8)	
G.	EcoShine LED Canopy Fixture (7)		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			

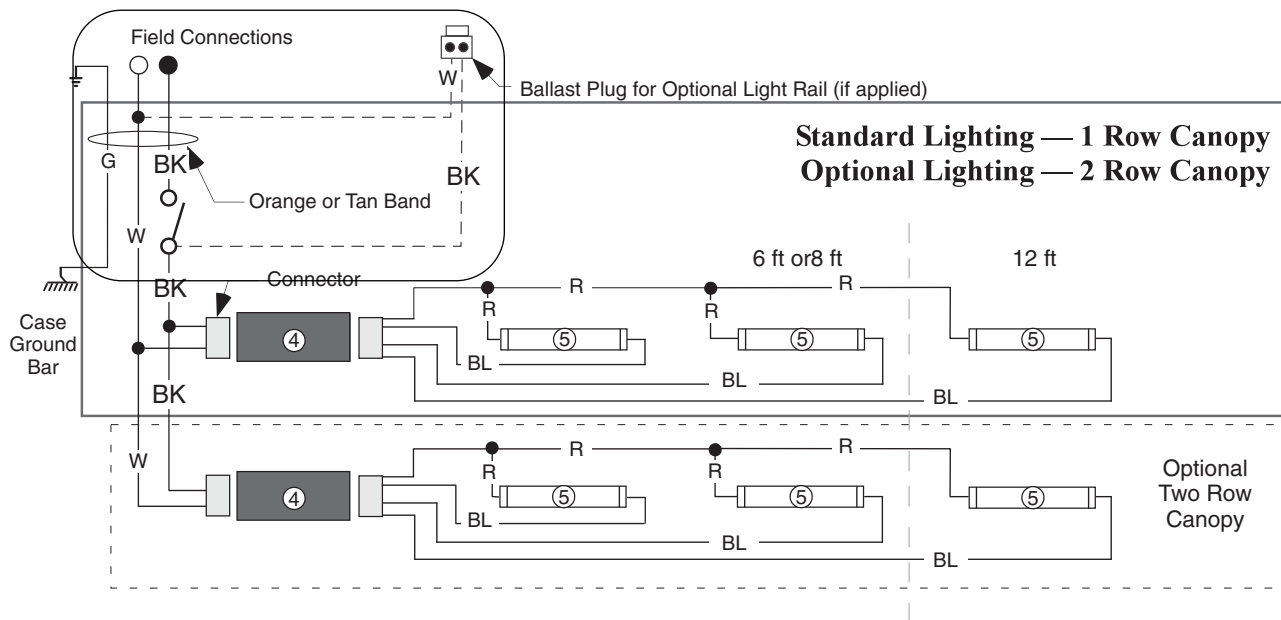
Note: Always*Bright lamps will be replaced with the latest generation of EcoShine lamps.

Fan Wiring Offtime Defrost

2 & 3 Fans



Canopy Light Circuits — Fluorescent Fixtures



WARNING

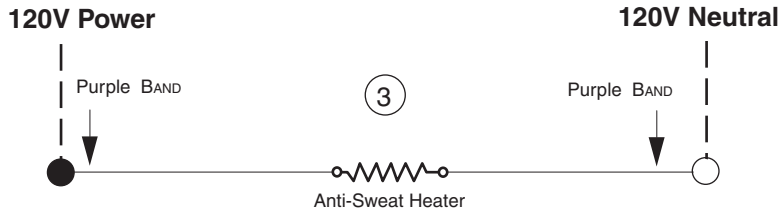
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

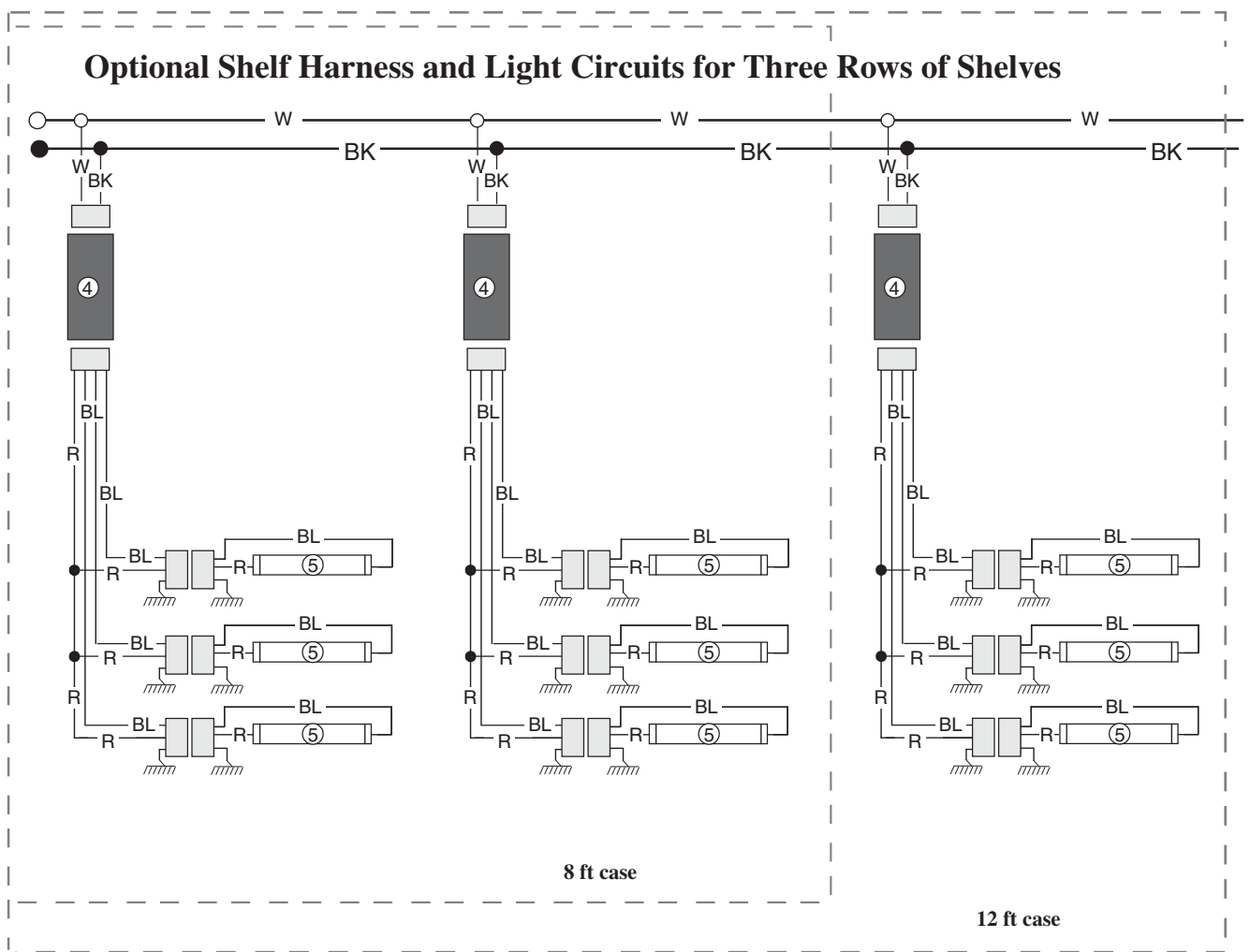
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

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

Canopy Anti-Sweat Heater



Optional Shelf Lighting Fluorescent Fixtures



WARNING

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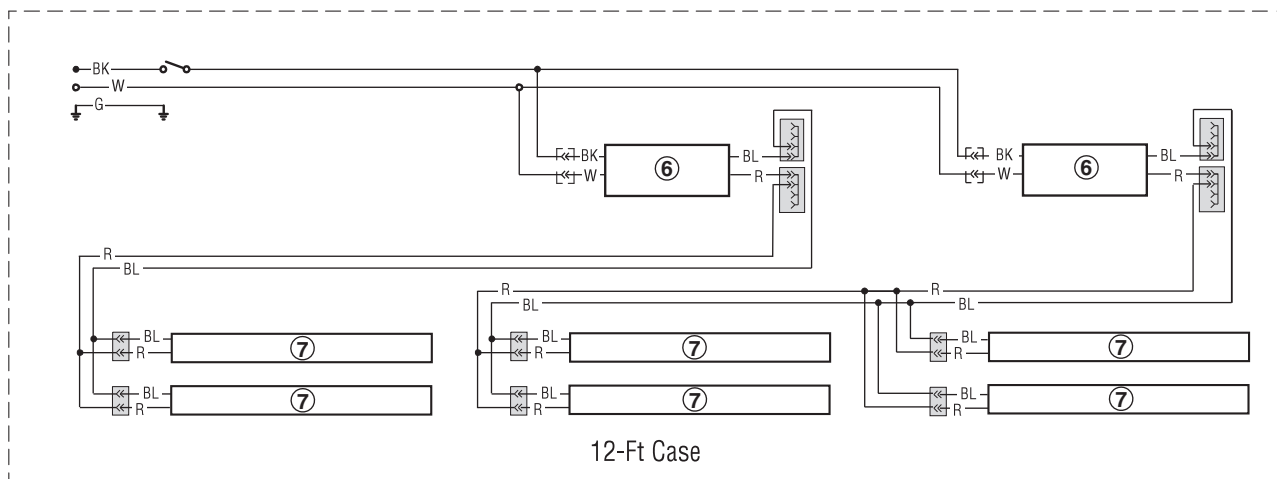
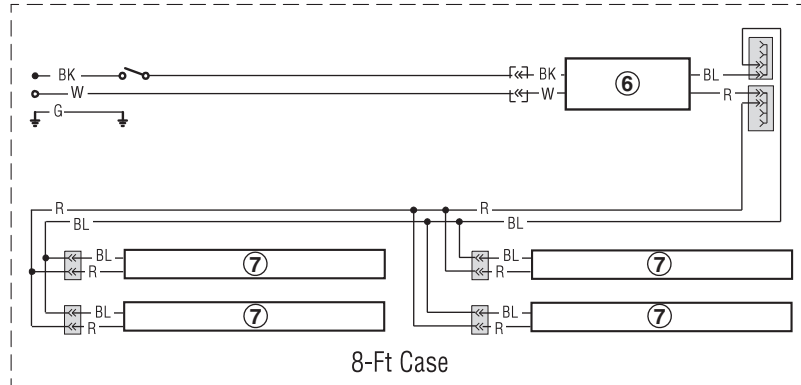
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Optional Canopy Lighting LED Fixtures

LED Canopy Lighting — 2 Row Canopy



WARNING

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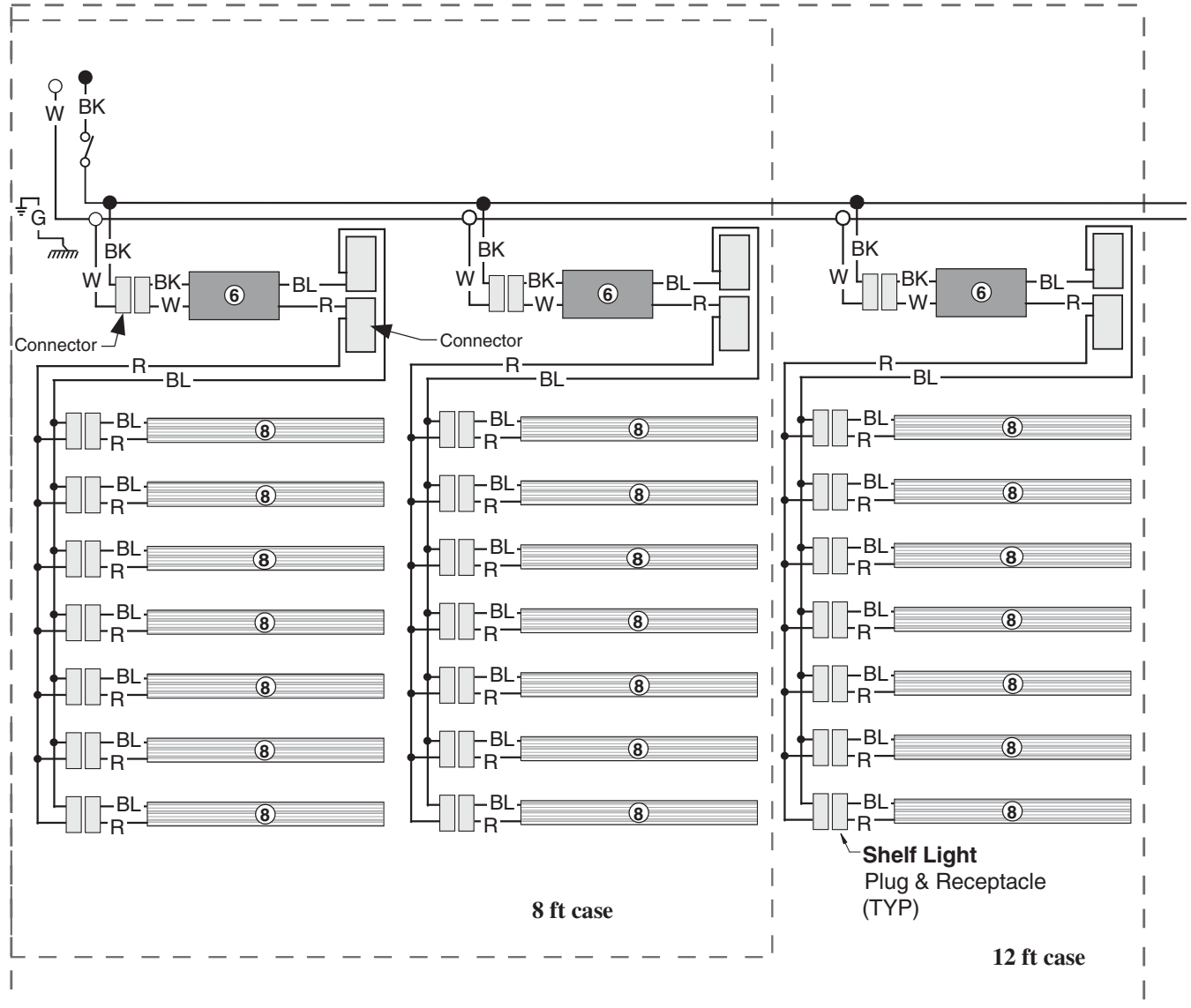
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Optional Shelf Lighting LED Fixtures

Optional Shelf Harness and LED Light Circuits for 3, 4, 5, 6 & 8 Rows of Shelves



WARNING

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CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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

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

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Dairy/Delicatessen
Precut & Packaged Produce

SHELF CONFIGURATION

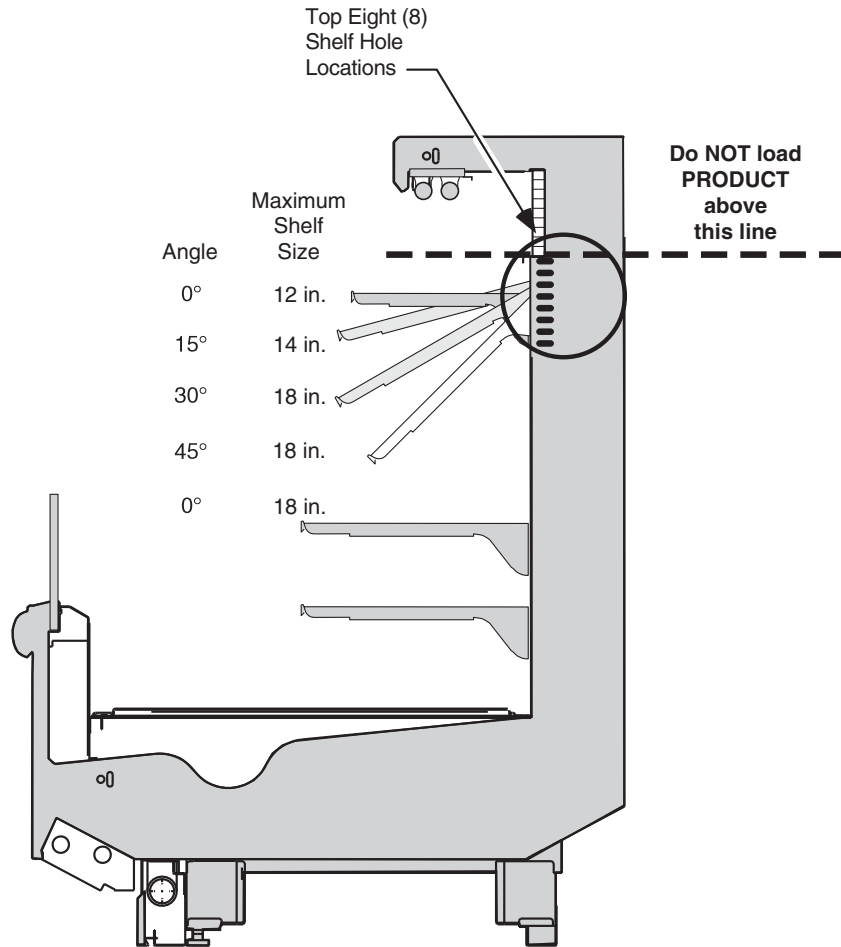
This merchandiser is designed for two or three shelves.

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.



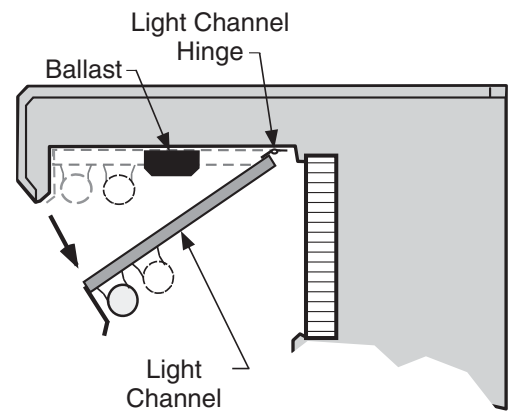
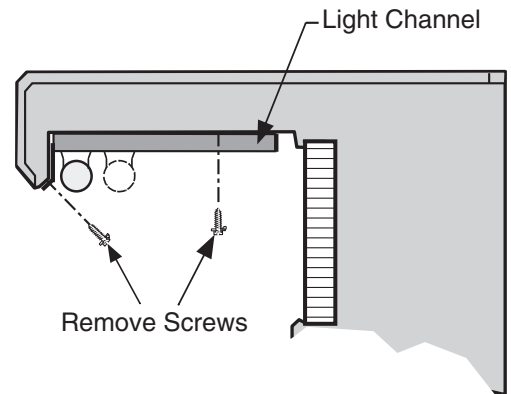
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The ballast for the canopy and shelf lamps is located behind the canopy on the left-hand end (when facing case) of the merchandiser.

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.

