HUSSMANN®
Excel

C2X-XLGEP

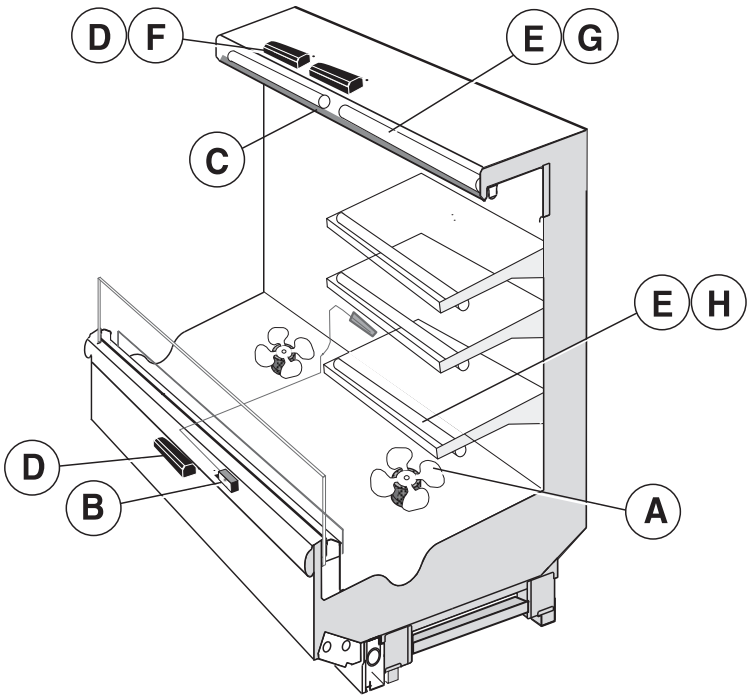
Technical Data Sheet

P/N 0466007_S

NSF® Certified

April 2017

DOE 2017
Energy Efficiency Compliant



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We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

Item	Part #	Description	Wiring Item #
FAN ASSEMBLIES			
4 Ft, 8 Ft & 12 Ft			
A.		**7W Standard Energy Efficient** Fan Assembly	(1)
	0477654	Fan Motor, Evaporator (MO.4410545)	
	0142780	Fan Blade (FB.0142780)	
6 Ft Only			
A.		**4W Standard Energy Efficient** Fan Assembly	(1)
	0477653	Fan Motor, Evaporator (MO.4410544)	
	0382383	Fan Blade (FB.4780617)	
THERMOSTATS			
B.		Optional Adjustable Refrigeration Thermostat	(2)
HEATERS			
C.		Canopy Anti-Sweat Heater	(3)
	0512499	4 ft (HE.4851174)	
	0512500	6 ft (HE.4851175)	
	0512501	8 ft (HE.4851176)	
	0512503	12 ft (HE.4851178)	

Item	Part #	Description	Wiring Item #
LAMPS AND BALLASTS			
D.		Ballast, Electronic	(4)
	0480130	2 lamps (BA.4481676)	
	0480131	3 lamps (BA.4481654)	
	0480132	4 lamps (BA.4481677)	
E.		Fluorescent Lamp	(5)
		Replace with like fixtures	
LED FIXTURES AND POWER SUPPLY			
F.	0501213	Power Supply (EP.4481861)	(6)
G.		LED Canopy Fixture	(7)
		Replace with like fixtures	
H.		LED Shelf Fixture	(8)
		Replace with like fixtures	

Data sheet-Excel-C2X-XLGEP

Note: Revision S: April 2017. Updated LED energy values. Other changes marked with a bar, circle or underline.

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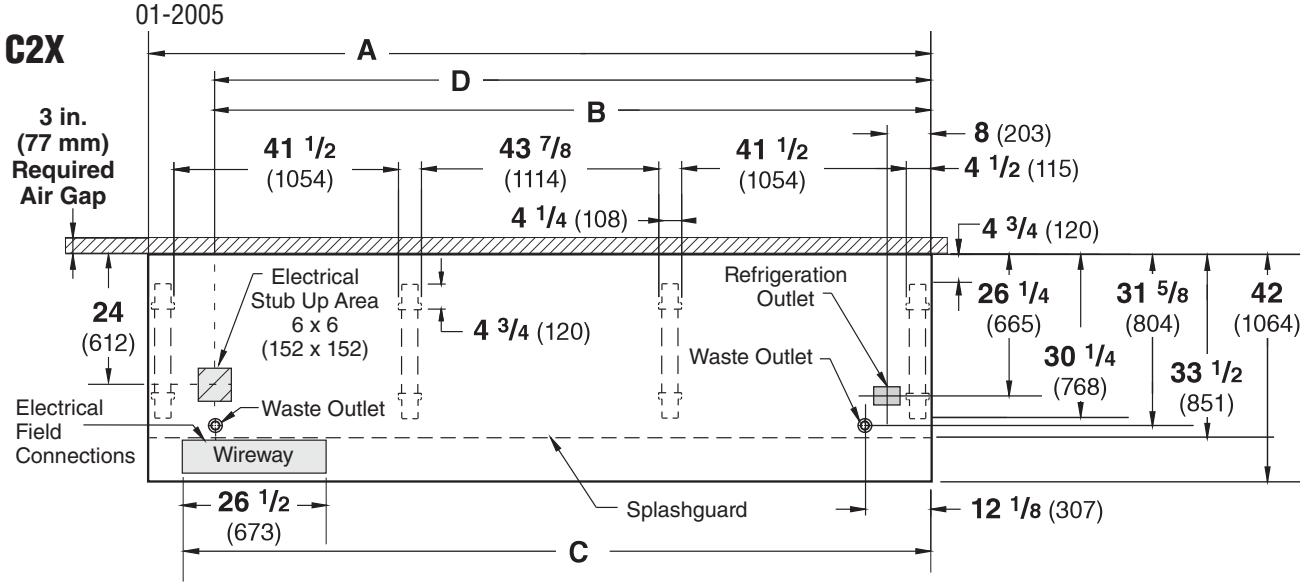
Spanish P/N 0532297

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

	4 ft	6 ft	8 ft	12 ft
General				
(A) Case Length *(without ends or partitions)*	48 3/8 (1229)	72 3/8 (1838)	96 3/8 (2448)	144 1/2 (3670)
(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)*	42 (1064)	42 (1064)	42 (1064)	42 (1064)
Back of case to front of splashguard	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
Back of case to O/S edge of front leg	30 1/4 (768)	30 1/4 (768)	30 1/4 (768)	30 1/4 (768)
Distance between edges of external legs and center legs	NA	29 1/2 (750)	41 1/2 (1054)	41 1/2 (1054)
Distance between edges of center legs	NA	NA	NA	43 7/8 (1114)
Distance between front legs and splashguard	2 3/4 (70)	2 3/4 (70)	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	36 1/4 (921)	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
Back of case to center of stub up area	24 (612)	24 (612)	24 (612)	24 (612)
Length of electrical wireway	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)
(C) RH End of case to LH end of wireway	42 1/8 (1070)	66 1/8 (1680)	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	36 1/4 (921)	60 1/4 (1530)	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)	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)	31 5/8 (804)	31 5/8 (804)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	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)	26 1/4 (665)	26 1/4 (665)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)	8 (203)	8 (203)

Excel C2X-XLGEP

Dairy/Delicatessen

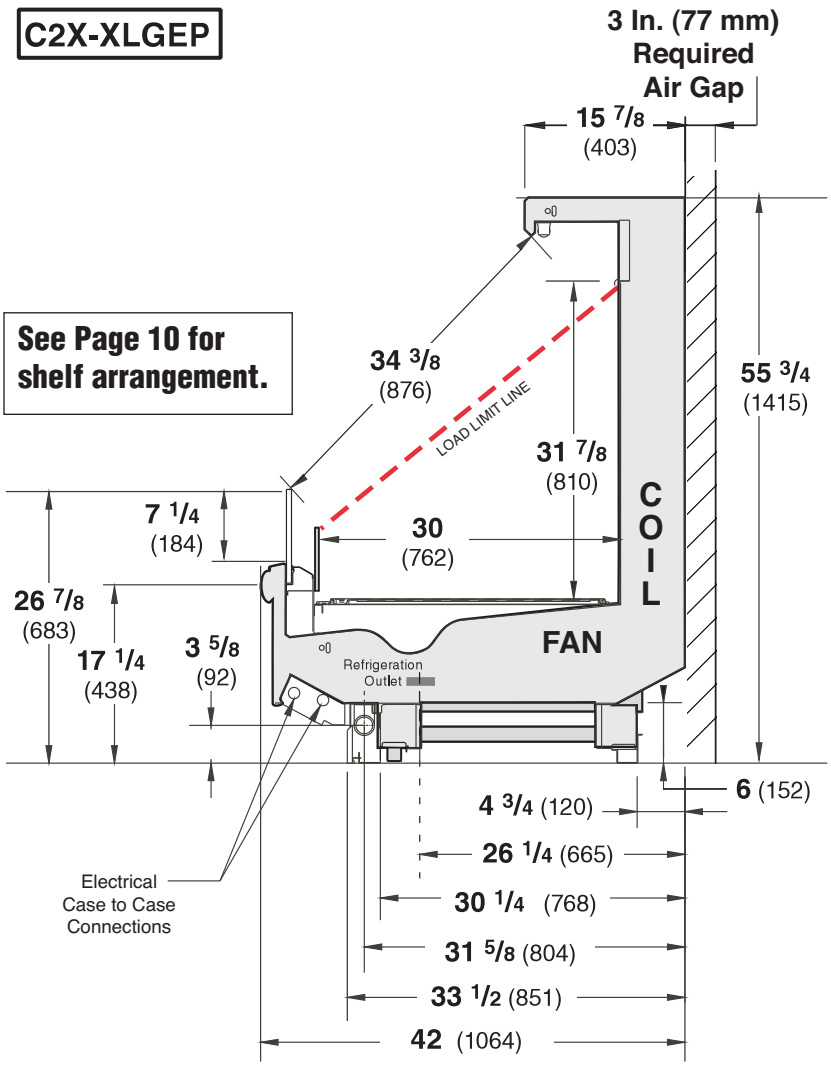
Precut & Packaged Produce

DOE 2017 Energy Efficiency Compliant

Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

Dimensions shown as inches and (mm).

C2X-XLGEP



See Page 10 for shelf arrangement.

NSF Certification

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

Estimated Charge **	C2X-XGEP		
4 ft	1.6 lb	26 oz	0.7 kg
6 ft	2.3 lb	37 oz	1.0 kg
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 (8 oz/0.2 kg).

REFRIGERATION DATA

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

C2X-XLGEP§	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

§ Average evaporator temperature shown. Use dew point for high glide refrigerants for unit sizing. Care should be taken to use the dew point in PT tables for measuring and adjusting superheat. Adjust evaporator pressure as needed to maintain discharge air temperature shown.

Btu/hr/ft — Unlit Shelves ‡

C2X-XLGEP	Dairy/Deli/Produce	Meat
Parallel		
4 ft/8 ft/12 ft	754	794
6 ft	757	797
Conventional		
4 ft/8 ft/12 ft	784	824
6 ft	787	827

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

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

Offtime	C2X-XLGEP
Time (minutes)	30
Electric or Gas	Not Recommended

CONVENTIONAL CONTROLS

Low Pressure Backup Control

C2X-XLGEP	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.

Excel C2X-XLGEP
Dairy/Delicatessen
Precut & Packaged Produce

Electrical Data

	4 ft	6 ft	8 ft	12 ft
Number of Fans — 7W	**1**	**—**	**2**	**3**
Number of Fans — 4W	**—**	**2**	**—**	**—**

	Amperes				Watts			
	4 ft	**6 ft**	**8 ft**	**12 ft**	**4 ft**	**6 ft**	**8 ft**	**12 ft**
Evaporator Fan								
120V 50/60Hz Standard Energy Efficient	0.19	0.24	0.38	0.57	14	16	28	42
230V 50/60Hz Standard Energy Efficient	0.10	0.12	0.20	0.30	14	16	28	42
230V 60Hz Export	0.25	0.30	0.50	0.75	39	48	78	117
230V 50Hz Export	0.28	0.36	0.56	0.84	42	54	84	126
Minimum Circuit Ampacity †								
120V 50/60Hz Standard Energy Efficient	0.39	0.44	0.58	0.77				
230V 50/60Hz Standard Energy Efficient	0.30	0.32	0.40	0.50				
230V 60Hz Export	0.45	0.50	0.70	0.95				
230V 50Hz Export	0.48	0.56	0.76	1.04				
Maximum Over Current Protection 120V	**20**	**20**	**20**	**20**				
Maximum Over Current Protection 230V	15	15	15	15				
Anti-sweat Heaters								
120V 50/60Hz Standard	0.10	0.15	0.20	0.30	12	18	24	36
Standard Lighting (T-8 Fluorescent)								
1 Row Canopy	0.26	0.51	0.51	0.77	30	59	59	85
Optional Lighting (T-8 Fluorescent)								
Additional 1 Row Canopy	0.26	0.51	0.51	0.77	30	59	59	85
1 Row Rail Light	NA — Glass front does not accept rail light							
3 Rows of Shelves	0.77	1.53	1.53	2.31	59	177	177	255
EcoShine II Canopy								
1 Row Canopy — EcoShine II	0.16	0.26	0.32	0.48	19.3	31.6	38.6	58.0
1 Row Canopy — EcoShine II HO	0.22	0.33	0.44	0.66	26.5	39.5	53.0	79.4
EcoShine II Shelf								
2 Rows of Shelves	0.16	0.23	0.33	0.49	19.8	28.2	39.5	59.3
3 Rows of Shelves	0.25	0.35	0.49	0.74	29.7	42.3	59.3	89.0

ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLIANT WITH THE U.S. DEPT. OF ENERGY (DOE) 2017 REGULATION ARE AVAILABLE FOR SALE FOR USE IN THE U.S.A.

120V Fluorescent Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting
120V LED Lighting Circuit Total = Canopy Lighting + 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.

Please note: some combinations of fluorescent lights on this case model may not be compliant with DOE 2017 and may not be available to order in the US and Canada. More lighting options are available with LED lights. The Hussmann Product Configurator will not allow lighting options that do not comply with the DOE 2017 standards.

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*)**	3.27 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, ft^3/ft [m^3/m]

2 Computed using AHRI 1200 standard methodology: Total Display Area, ft^2 [m^2]/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]

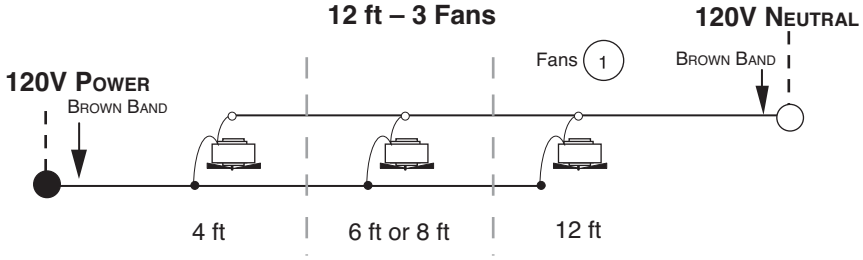
Case					**Solid End**
	4 ft	***6 ft***	***8 ft***	***12 ft***	***(each)***
lb *(kg)*	600 (272)	800 (363)	1000 (454)	1200 (544)	75 (34)

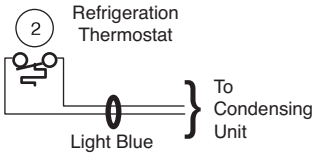
4 Actual weights will vary according to optional kits included.

Fan Wiring
Offtime Defrost

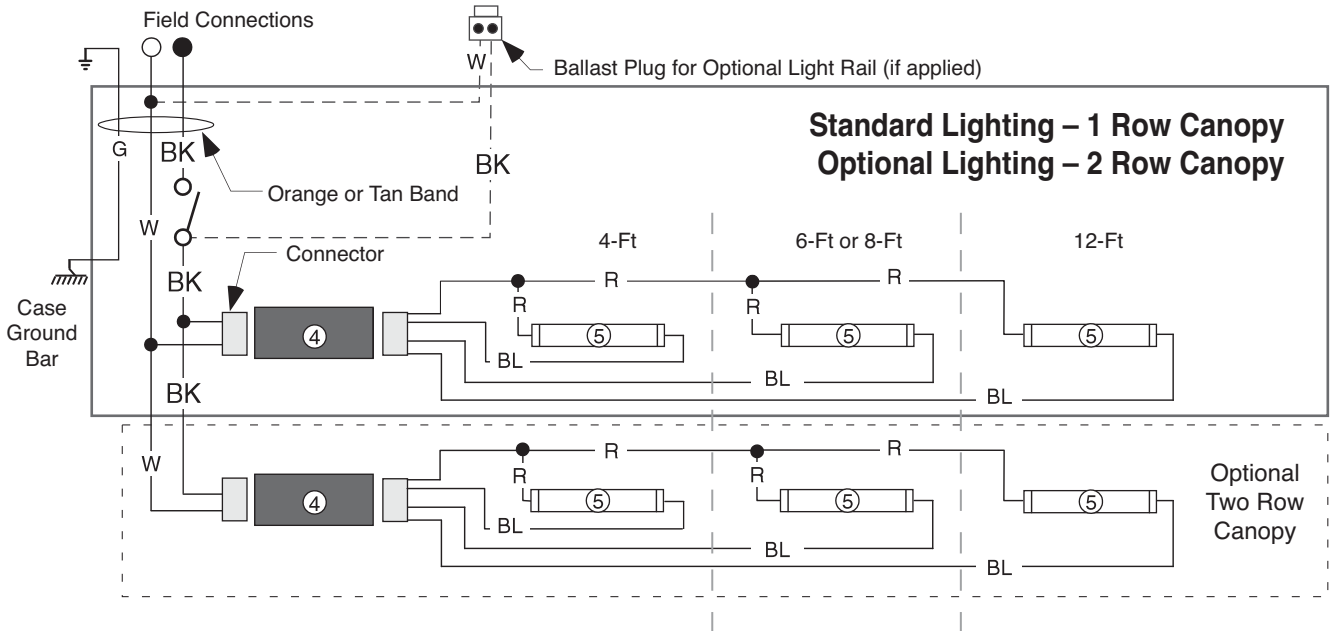
1, 2 & 3 Fans

4 ft – 1 Fan
6 ft – 2 Fans
8 ft – 2 Fans
12 ft – 3 Fans





Canopy Fluorescent Light Circuits



WARNING

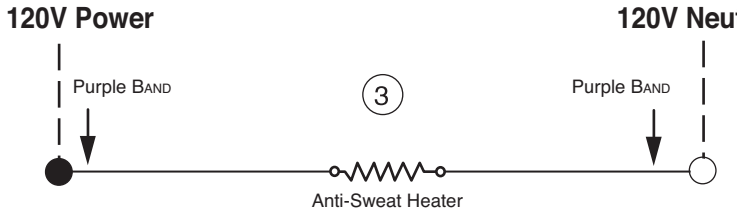
All components must have mechanical ground, and the merchandiser must be grounded.

Circled numbers = Parts List Item Numbers

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

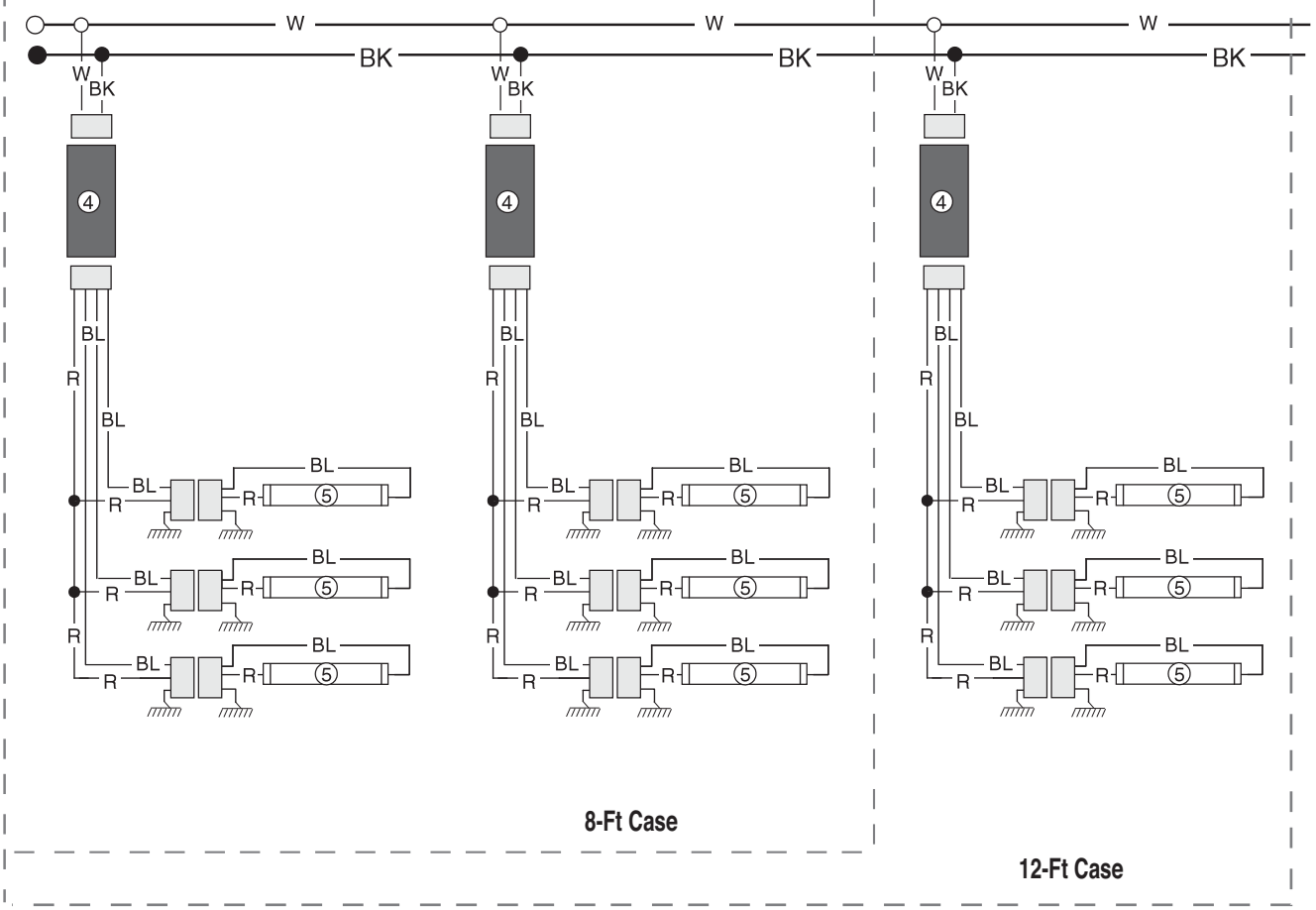
● = **120V Power** ○ = **120V Neutral** ⏚ = **Field Ground** = **Case Ground**

Canopy Anti-Sweat Heater



Optional Shelf Lighting Fluorescent Fixtures

Optional Shelf Harness and Light Circuits for Three Rows of Shelves



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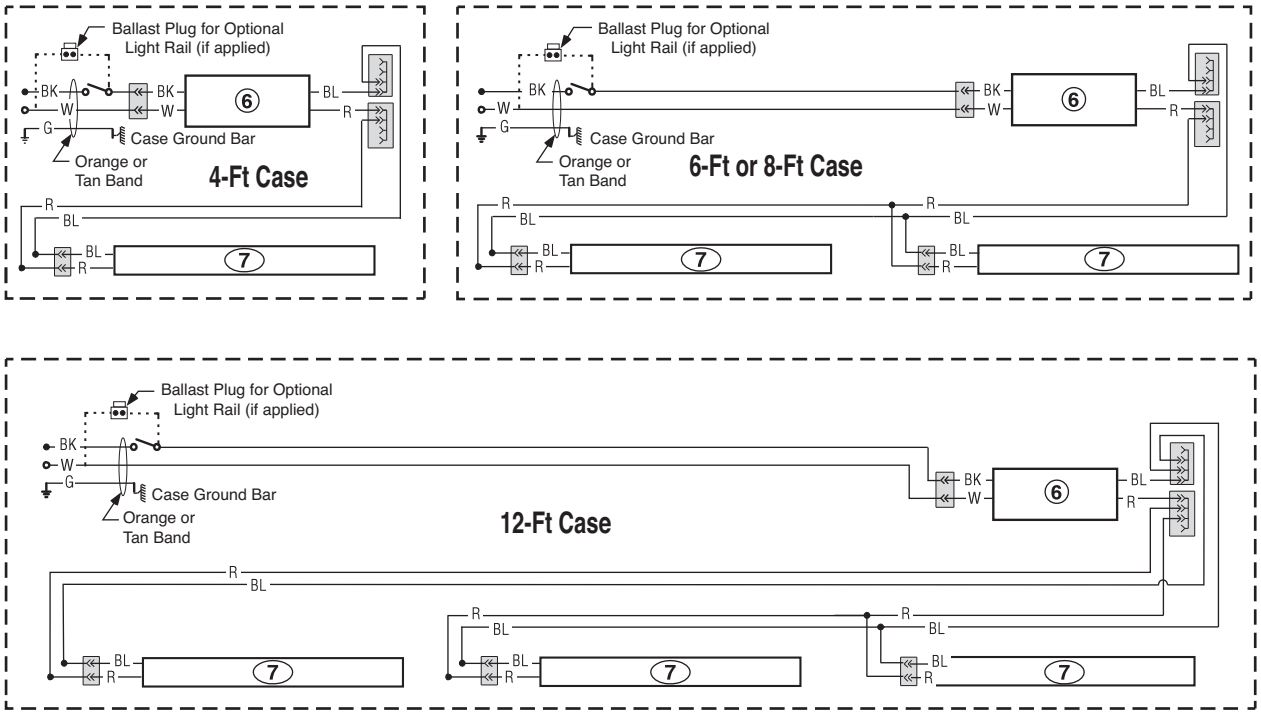
Optional Canopy Light Circuits — LED Fixtures

EcoShine II LED Canopy Lighting – 1 Row



WARNING

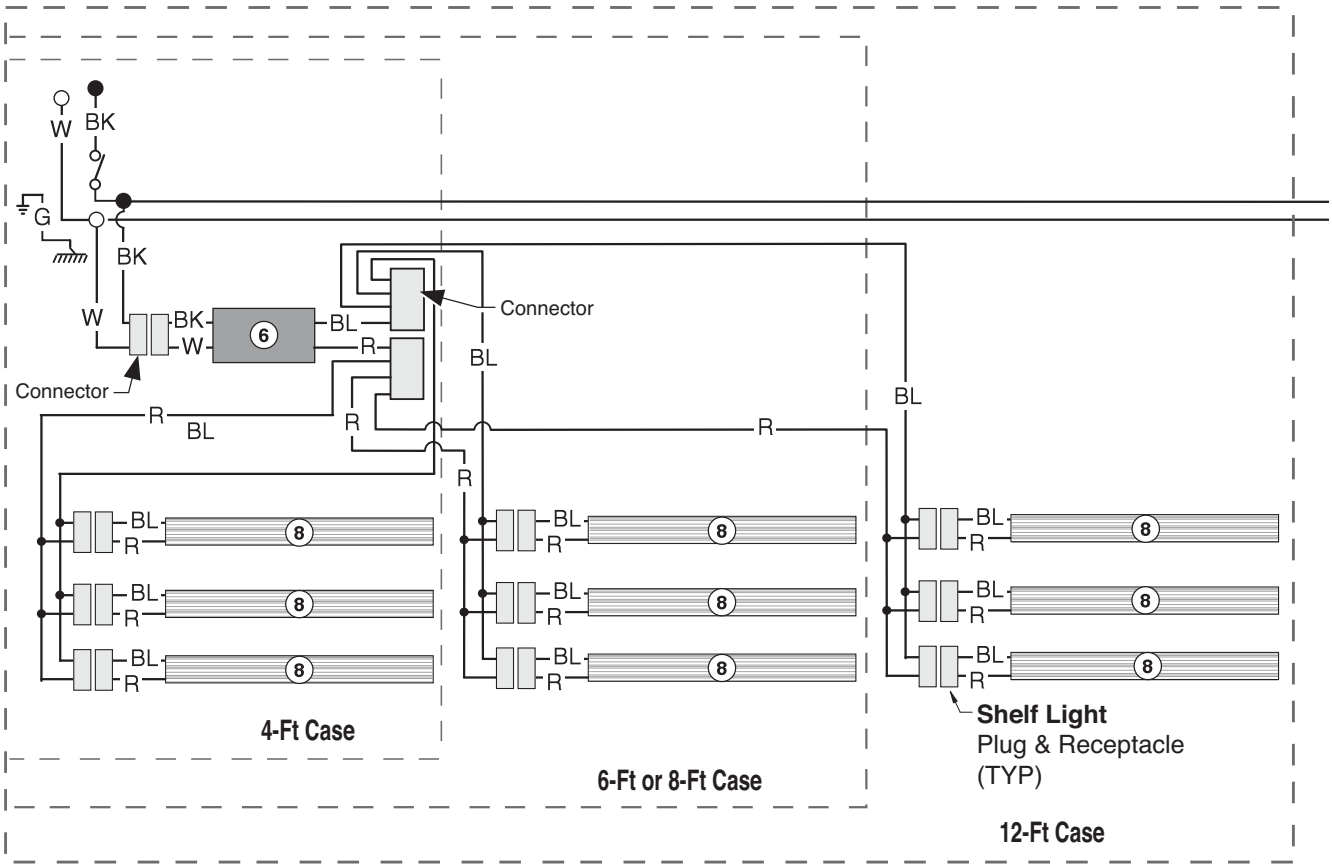
All components must have mechanical ground, and the merchandiser must be grounded.

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**

Optional Shelf Harness and LED Light Circuits for 2 or 3 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 = CASE GROUND

Excel C2X-XLGEP

Dairy/Delicatessen

Precut & Packaged Produce

SHELF CONFIGURATION

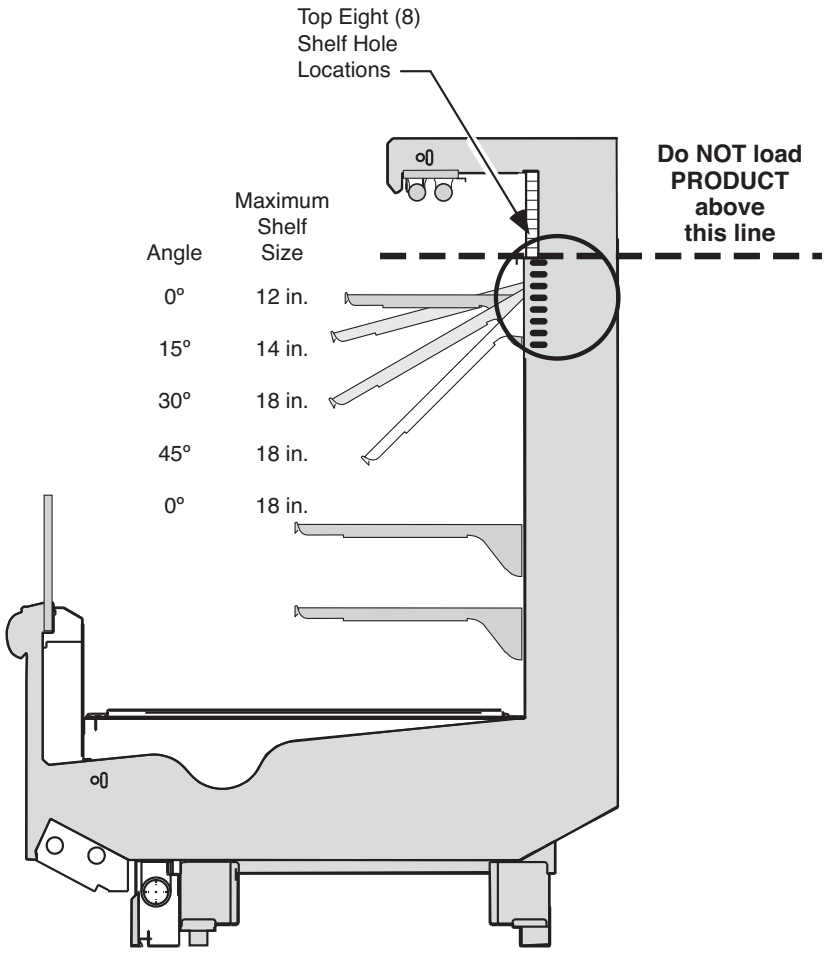
This merchandiser is designed for three shelves.

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 º	12 in.
15 º	14 in. or less
30 º	18 in. or less
45 º	18 in. or less

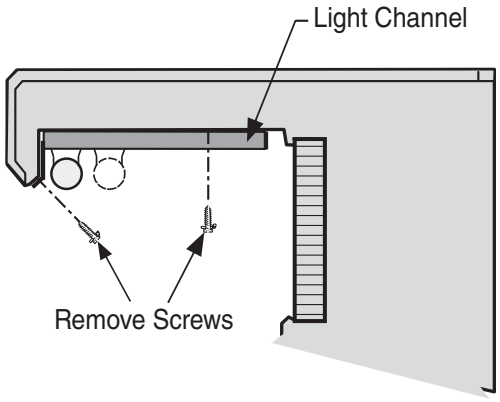
NOTE: Shelves placed in the lower positions may be up to 18 in. deep when positioned at a 0 º angle.



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.

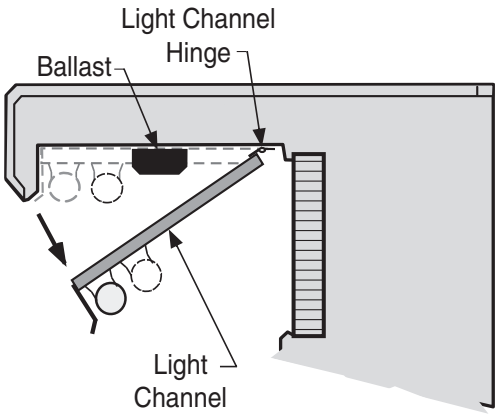


2. Lower light channel which will pivot on hinge.

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.