

0142780 Fan Blade (FB.0142780)

6 Ft Only

B.. 4W Standard Energy Efficient Fan Assembly (1)0477653 Fan Motor, Evaporator (MO.4410544) Fan Blade (FB.4780617) 0382383

THERMOSTATS

C. Optional Adjustable Refrigeration Thermostat (3)

HEATERS

D.	Canopy Anti	-Sweat Heater	(4)
	0512499	4 ft (HE.4851174)	
	0512502	8 ft (HE.4851176)	
	0512503	12 ft (HE.4851177)	

Data sheet-Excel-C2XEC-XEP

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

(6)

(7)

(8)

(9)

Fluorescent Lamp

LED FIXTURES AND POWER SUPPLY

G. 0501213

H.

I.

Replace with like fixtures

LED Canopy Fixture

LED Shelf Fixture

Replace with like fixtures

Replace with like fixtures

Power Supply (EP.4481861)

Engineering Plan Views

PHYSICAL DATA

Merchandiser Drip Pipe (in.)

Dimensions shown as inches and (mm).

Merchandiser Liquid Line (in.)

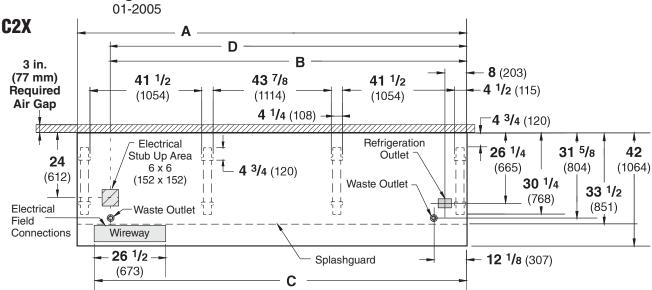
Merchandiser Suction Line (in.)

1 1/4

3/8

7/8

Dairy/Delicatessen Precut & Packaged Produce, Meat



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

FRONT

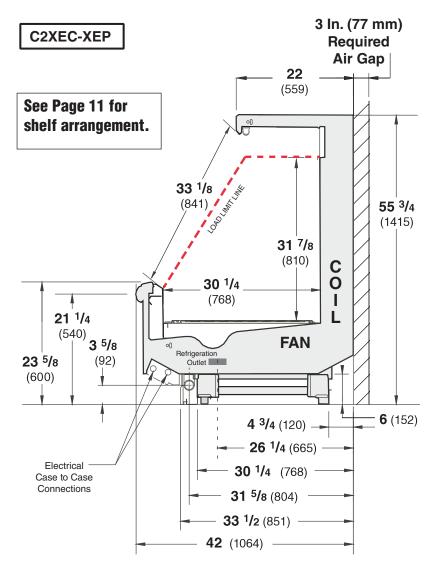
	4 ft	6 ft	8 ft	12 ft
General				
(A) Case Length (without ends or partitions)	48 3/8 (1229)	72 3/8 (1838)	96 3/8 (2448)	144 1/2 (3670)
(Each end and insulated partition adds 1 1 /2 in. (38 mm) to case	e line up.)			
Maximum O/S dimension of case back to front				
(includes bumper)	42 (1064)	42 (1064)	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 p	oint)			
(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 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)

Multi-deck, 4 Display Levels, 55 In. Back

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).



NSF Certification

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

Estimated Charge**		C2XE	C-XEP
4 ft	1.6	26 oz	0.7 kg
6 ft	2.3	37 oz	1.0 kg
8 ft	3.2	51 oz	1.5 kg
12 ft	4.5	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).

Excel C2XEC-XEP Dairy/Delicatessen Precut & Packaged Produce, Meat

REFRIGERATION DATA

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

		C2XEC-XEP§			
	Dairy	/Deli	Me	eat	
	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 ‡

C2XEC-XEP	Dairy/Deli	Meat
	Parallel/	Parallel/
	Conventional	Conventional
4 ft/6ft/8ft/12ft	799 / 854	839 /899

[‡] Add 10 Btu/hr/ft *per shelf row* for LED fixtures. Add 20 Btu/hr/ft *per shelf row* for fluorescent lamps.

DEFROST DATA

	C2XEC-XEP
Frequency (hr)	12
Defrost Water (lb/ft/day)	7
(±15% based on case confi product loading.)	iguration and
Oeetime	C2XFC-XFP

OFFTIME	CZXEC-XEP
Temp Term °F	48°F
Failsafe Minutes	30

ELECTRIC OR GAS

Not Recommended

CONVENTIONAL CONTROLS

Low Pressure Backup Control

	C2XEC-XEP
CI/CO*	16°F / 6°F

Indoor Unit Only, Pressure Defrost Termination* 48°F

*Use a Temperature Pressure Chart to determine PSIG conversions.

Excel C2XEC-XEP

Dairy/Delicatessen

Precut & Packaged Produce, Meat

Electrical Data

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

				Am	peres			Wa	atts	
Evaporato	or Fan		4 ft	6 ft	8 ft	12 ft	4 ft	6ft	8 ft	12 ft
120V		z Standard Energy Efficient	0.19	0.24	0.38	0.57	14	16	28	42
230V	50/60Hz	z 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 A	mpacity								
120V	50/60Hz	z Standard Energy Efficient	0.39	0.44	0.58	0.77				
230V	50/60Hz	z 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 Cu	rrent Protection 120V	20	20	20	20				
Maximum	Over Cu	rrent Protection 230V	15	15	15	15				
Anti-sweat	t Heaters									
120V		z Standard	0.10	0.15	0.20	0.30	12	18	24	36
		Γ-8 Fluorescent)	0.00	0.51	0.51	0.77	20	50	50	0.5
1 Row 0	Canopy		0.26	0.51	0.51	0.77	30	59	59	85
		FIGURATIONS THAT ARE COMPLIA	NT WITH T	HE U.S. D	DEPT. OF E	NERGY (DOI	E) 2017 reg	ULATION A	RE AVAIL	ABLE FOR
SALE FOR U	USE IN THE	U.S.A.								
Optional I	Lighting (1	Γ-8 Fluorescent)								
	nal 1 Rov		0.26	0.51	0.51	0.77	30	59	59	85
	Rail Light		0.26	0.51	0.51	0.77	30	59	59	85
3 Rows	of Shelve	S	0.77	1.53	1.53	2.31	59	177	177	255
EcoShine	II Canopy									
EcoShir	ne II		0.16	0.26	0.32	0.48	19.3	31.6	38.6	58.0
EcoShir	ne II HO		0.22	0.33	0.44	0.66	26.5	39.5	53.0	79.4
EcoShine	II Rail Lig	ght —1 Row	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7
EcoShine	II Shelf									
2 Rows	of Shelve	s	0.16	0.23	0.33	0.49	19.8	28.2	39.5	59.3
3 Rows	of Shelve	S	0.25	0.35	0.49	0.74	29.7	42.3	59.3	89.0

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

Excel C2XEC-XEP Dairy/Delicatessen Precut & Packaged Produce, Meat

Product Data

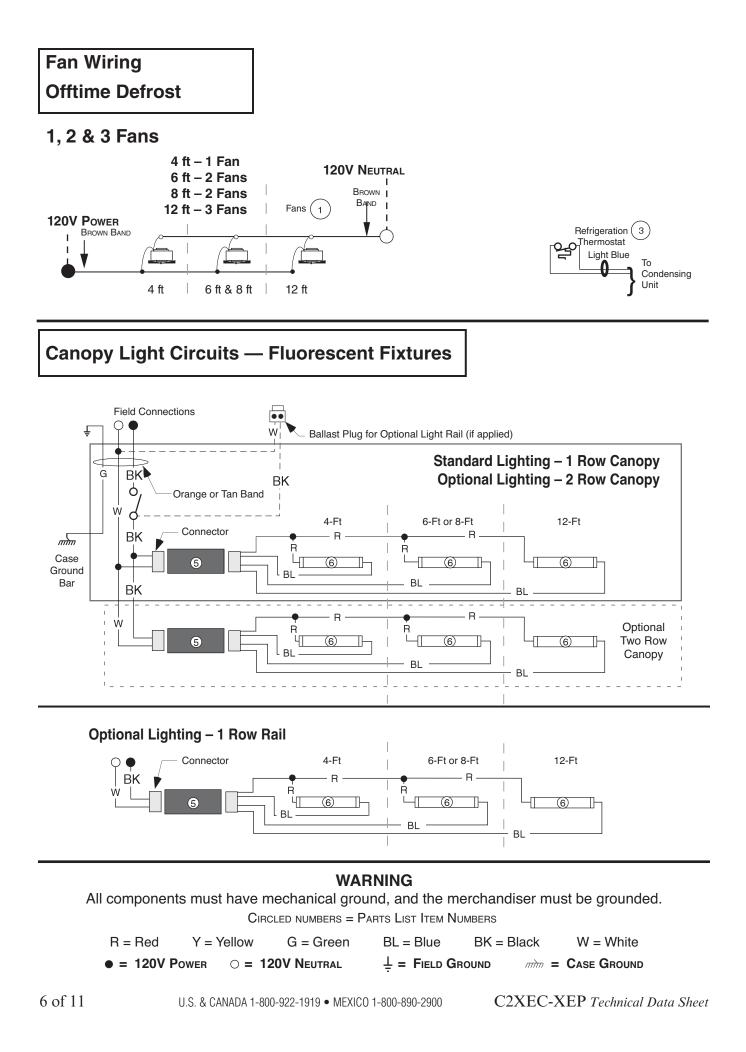
Recommended Usable Cube ¹ (Cu Ft/Ft)	3.85 ft ³ /ft (0.36 m ³ /m)
AHRI Total Display Area ² (Sq Ft/Ft)	2.77 ft²/ft (0.84 m²/m)
Shelf Area ³ (Sq Ft/Ft)	6.54 ft²/ft (1.99 m²/m)

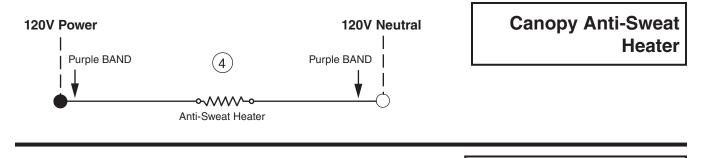
¹ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

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 14-inch shelf and (1) row of 16-inch shelf.

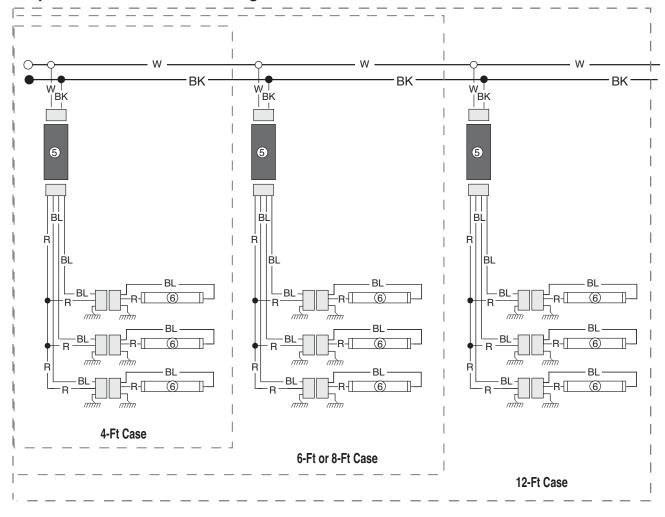
ESTIMATED SHIPPING WEIGHT ⁵						
Case					Solid End	
	4 ft	6ft	8 ft	12 ft	(each)	
lb (<i>kg</i>)	600 (272)	800 (363)	1000 (454)	1200 (544)	75 (34)	





Optional Shelf Lighting Fluorescent Fixtures

Optional Shelf Harness and Light Circuits for Three Rows of Shelves



WARNING

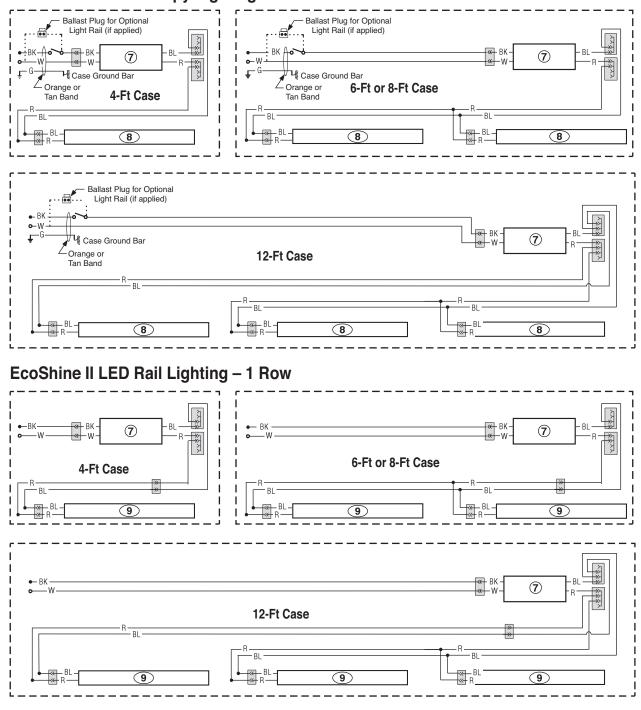
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red	Y = Yellow	G = Green	BL = Blue	BK = Black	W = White
• = 120V P	ower \circ = 1	20V NEUTRAL		DUND min	= CASE GROUND

Optional Canopy and Rail Light Circuits — LED Fixtures

EcoShine II LED Canopy Lighting – 1 Row

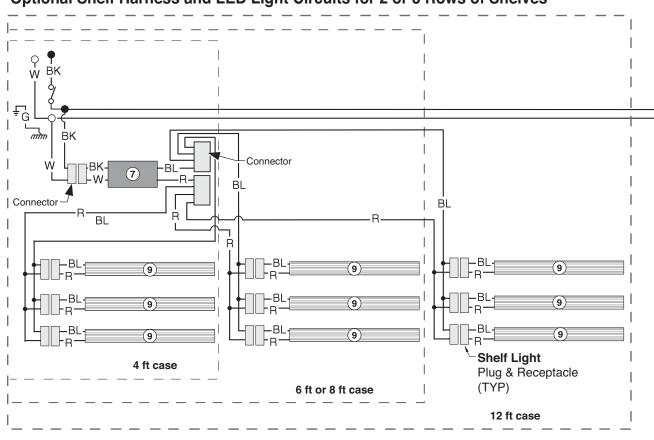


WARNING

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 P	$Ower \bigcirc = 12$	20V NEUTRAL	$\frac{1}{2}$ = Field G	ROUND min	= CASE GROUND

Optional Shelf Lighting LED Fixtures



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
• = 80V Power	○ = 80V Neutral		FIELD GROUND	mm = Case Ground

Excel C2XEC-XEP

Dairy/Delicatessen

Precut & Packaged Produce, Meat

SHELF CONFIGURATION

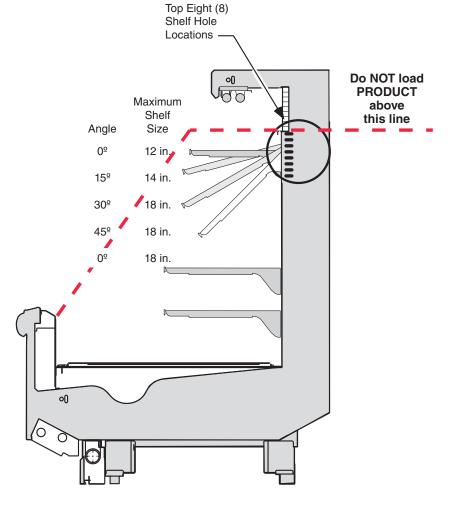
This merchandiser is designed for one or two shelves.

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.



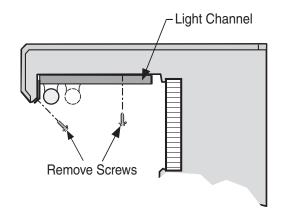
Excel C2XEC-XEP Dairy/Delicatessen Precut & Packaged Produce, Meat

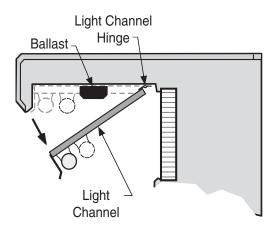
The ballast for the canopy and shelf lamps is located behind the canopy on the left-hand end (when facing case) of the merchandiser.

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.

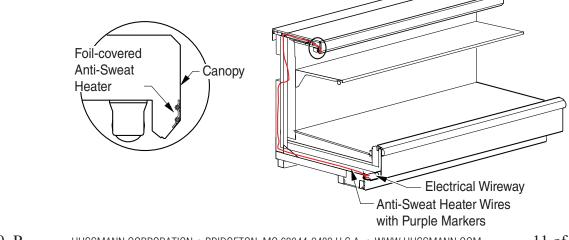
NOTE: Rail lamp ballast is located in the electrical raceway.





CANOPY ANTI-SWEAT HEATER

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



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Canopy