HUSSMANN[®] *Excel*



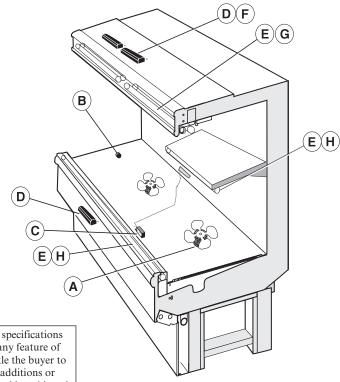
P2X-E

Technical Data Sheet P/N 0463861 L

NSF® Certified

October 2017

DOE 2017
Energy Efficiency
Compliant



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	#	Item	Part #	Description	Wiring Item #
8 Ft & A.		Energy Efficient F Fan Motor, Evaj (MO.4410545) Fan Blade (FB.01	porator	(1)		S AND BALLAS Ballast, Elec 0480130 0480131 0480132		(554) (577) (5)
В.	MOSTATS 0411744 Optional Adj Thermostat	Standard Non-ad Defrost Thermos (CT.0411744) ustable Refrigerat	tat	(2)		Fixtures and 0501213	Power Supply Power Supply (EP LED Canopy Fixt Replace with like fix LED Shelf Fixture Replace with like fix	ture (7) extures e (8)

Data sheet-Excel-P2X-E

Note: Revision L: Removed 6 foot data. Other changes marked by bar, underline or circle.

Engineering

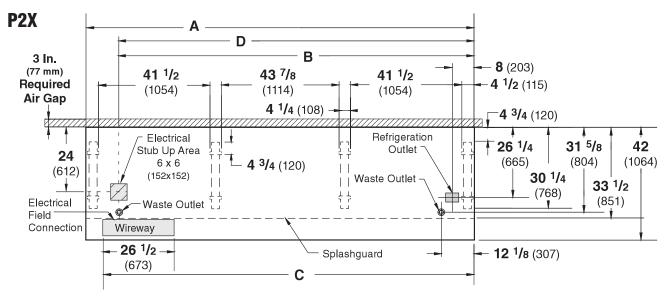
Plan Views

PHYSICAL DATA
Merchandiser Drip Pipe (in.)
Merchandiser Liquid Line (in.)
Merchandiser Suction Line (in.)
7/8

Bulk_Produce

10-2004

Dimensions shown as inches and (mm).



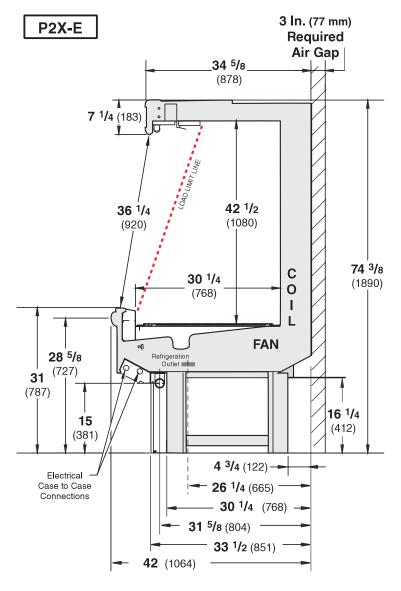
NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.

FRONT

	8 ft	12 ft
General		
(A) Case Length (without ends or partitions)	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)
Back of case to front of splashguard	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)
Distance between edges of external legs and center legs	41 1/2 (1054)	41 1/2 (1054)
Distance between edges of center legs	NA	43 7/8 (1114)
Distance between front legs and splashguard	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 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)

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).



Estimat	ed Charge**	P2X-E		
8 ft	2.3 lb	37 oz	1.0 kg	
12 ft	3.3 lb	53 oz	1.5 kg	

^{**}This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound (8 oz/0.2 kg

NSF Certification

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

Excel P2X-E Bulk_Produce

REFRIGERATION DATA

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

	P2X-E§
Discharge Air °F	33
Evaporator °F	24
Unit Sizing °F	22

§ 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‡

P2X-E	Parallel	Conventional
UNLIT	949	1029

Add 10 Btu/hr/ft *per shelf row* for LED fixtures.

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

DEFROST DATA

	P2X-E
Frequency (hr)	8
Defrost Water (lb/ft/day)	6

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

OFFTIME	P2X-E
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

Р2Х-Е

CI/CO* 17/7°F

Indoor Unit Only,

Pressure Defrost Termination* 48°F

*Use a Temperature Pressure Chart to determine PSIG conversions.

Excel P2X-E Bulk Produce

171		1 1
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			8 ft	12 ft		
	f Fans — 7V		2	3		
Number o	f Fans — 4V	•	— Amp	eres	Watts	
			8 ft	12 ft	8 ft 12 ft	
Evaporato	or Fan					
120V	50/60Hz	Standard Energy Efficient	0.38	0.57	28 42	
230V	50/60Hz	Standard Energy Efficient	0.20	0.30	28 42	
230V	60Hz	Export	0.50	0.75	78 117	
230V	50Hz	Export	0.56	0.84	84 126	
Minimum	Circuit Am	nacity				
120V	50/60Hz	Standard Energy Efficient	0.58	0.77		
230V	60Hz	Export	0.70	0.95		
230V	50Hz	Export	0.76	1.04		
230V	50/60Hz	Standard Energy Efficient	0.40	0.50		
Mavimum	Over Curr	ent Protection 120V	20	20		
		ent Protection 230V	15	15		
1114/41111411	rover curre	and I folderion 250 v	13	10		
Standard	Lighting (T-	8 fluorescent)				
1 Row	Canopy		0.51	0.77	59 85	
ONLY LIG	HTING CONFI	GURATIONS THAT ARE COMPLIANT WITH T	THE U.S. DEPT. OF E	NERGY (DOE) 2017	7 REGULATION ARE AVAILABLE FO	R
SALE FOR	USE IN THE U	J.S.A.				
Optional 1	Lighting (T-	8 fluorescent)				
Additio	onal 1 Row (Canopy	0.51	0.77	59 85	
Additio	nal 2 Row (Canopy	1.02	1.54	118 170	
Additio	onal 3 Row (Canopy	1.53	2.31	177 255	
1 Row	Rail Light		0.51	0.77	59 85	
1 Row	of Shelves		0.51	0.77	59 85	
2 Rows	of Shelves		1.02	1.54	118 170	
3 Rows	of Shelves		1.53	2.31	177 255	
EcoShine	II Canopy					
EcoShi			0.46	0.70	55.6 83.4	
EcoShi	ne II HO		0.56	0.84	67.2 100.8	
E CI	пр	4 1 D	0.15	0.26	20.5	
EcoShine	II Rail Ligh	t—I Kow	0.17	0.26	20.5 30.7	
EcoShine	II Shelves					
1 Row	of Shelves		0.17	0.26	20.5 30.7	
2 Rows	of Shelves		0.34	0.51	40.9 61.4	
3 Rows	of Shelves		0.51	0.77	61.4 92.1	

120V 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

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.



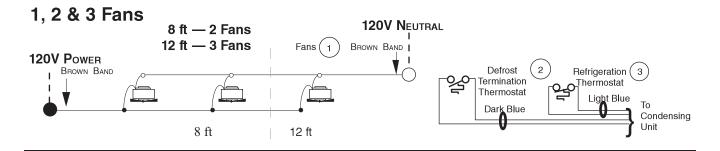
Product Data

Recommended Usable Cube ¹ (Cu Ft/Ft) AHRI Total Display Area ² (Sq Ft/Ft) Shelf Area ³ (Sq Ft/Ft) 6.69 ft³/ft (0.62 m³/m) 3.06 ft²/ft (0.93 m²/m) 3.87 ft²/ft (1.18 m²/m)

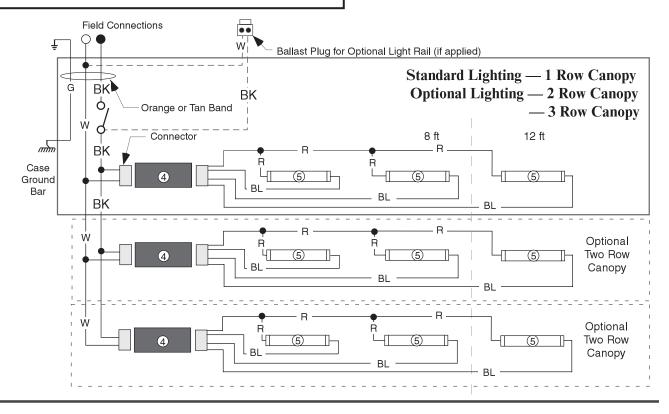
- ¹ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- ² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- ³ Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is (1) row of 16-inch shelf.

	ESTIMATED SHIP	PING WEIGHT 4			
Case			Solid End		
	8 ft	12 ft	(each)		
lb (<i>kg</i>)	1000 (454)	1200 (544)	75 (34)		
⁴ Actual weights will vary according to optional kits included.					

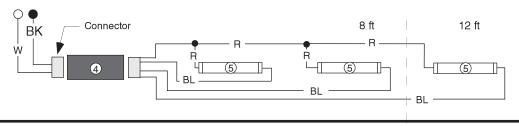
Fan Wiring Offtime Defrost



Light Circuits — Fluorescent Fixtures



Optional Lighting — 1 Row Rail



WARNING

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

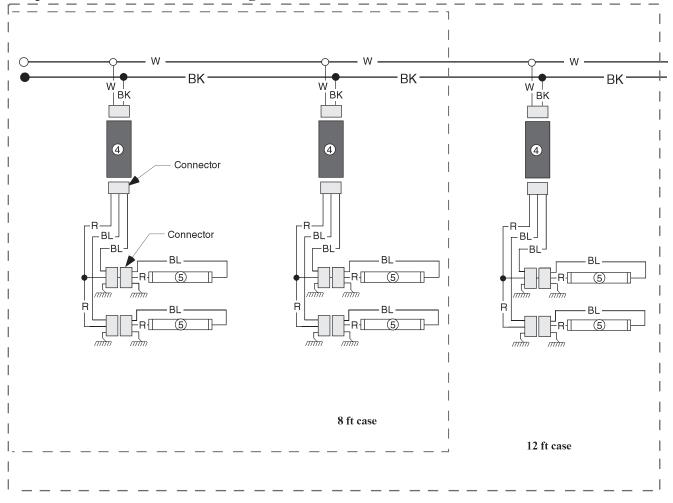
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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

$$\bullet = 120V \ Power \quad \bigcirc = 120V \ Neutral \quad \stackrel{\bot}{=} = Field \ Ground \quad \overrightarrow{mm} = Case \ Ground$$

Optional Shelf Lighting Fluorescent Fixtures

Optional Shelf Harness and Light Circuits for Two Rows of Shelves



WARNING

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

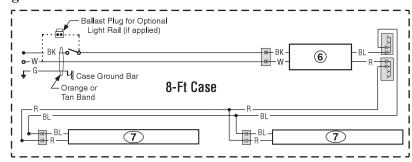
Circled Numbers = Parts List Item Numbers

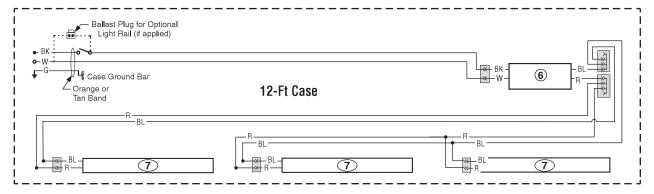
$$R = Red \quad Y = Yellow \quad G = Green \quad BL = Blue \quad BK = Black \quad W = White$$

• = 120V Power \bigcirc = 120V Neutral $\frac{1}{7}$ = Field Ground \xrightarrow{mm} = Case Ground

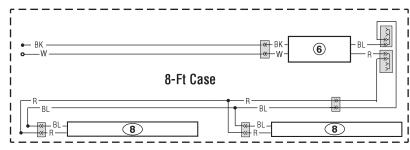
Optional Canopy and Rail Light Circuits — LED Fixtures

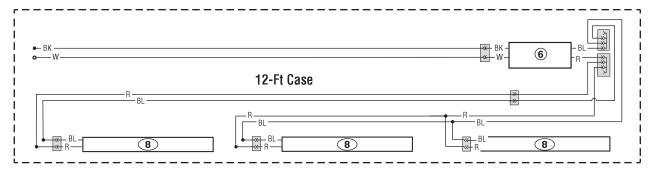
EcoShine II LED Canopy Lighting — 1 Row





EcoShine II LED Rail Lighting — 1 Row





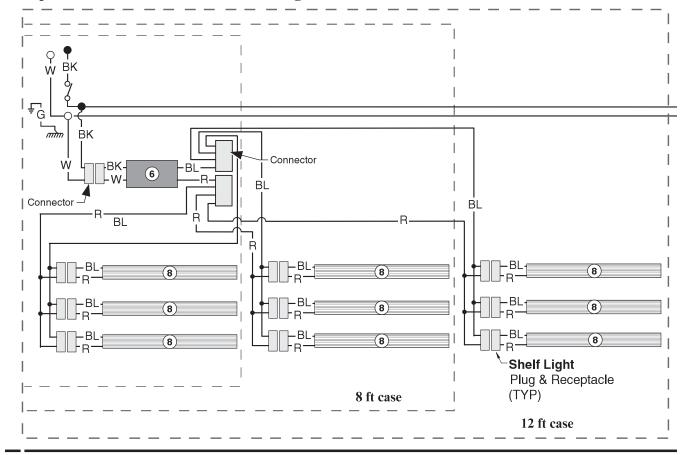
WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

• = 120V Power
$$\bigcirc$$
 = 120V Neutral $\frac{1}{7}$ = Field Ground $\stackrel{\text{min}}{}$ = 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