

Data sheet-Excel-M3X-E

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

Engineering **Plan Views**

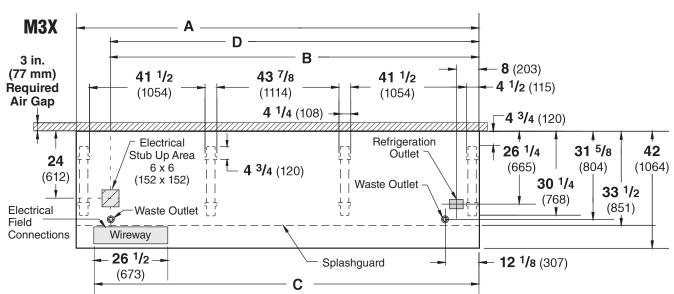
PHYSICAL DATA

1 1/4

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

Meat, Delicatessen & Produce

10-2004



FRONT

Dimensions shown as in. and (mm).

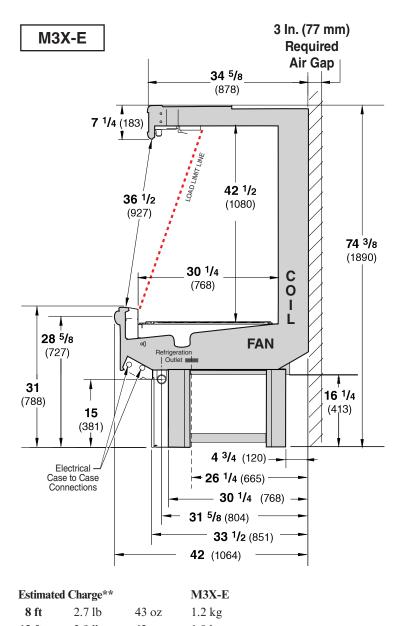
NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.

	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).



12 ft3.9 lb62 oz1.8 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 M3X-E

Meat, Delicatessen

Pre-cut and Packaged Produce

REFRIGERATION DATA

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

M3X-E§
28
21
19

§ 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[‡]

МЗХ-Е	Parallel	Conventional		
Unlit	1028	1128		
[‡] Add 10 Btu/hr/ft <i>per shelf row</i> for LED fixtures.				
Add 20 Btu/hr/ft per shelf row for fluorescent lamps.				

DEFROST DATA

	МЗХ-Е
Frequency (hr)	6
Defrost Water (lb/ft/day)	7
(± 15% based on case confi product loading).	iguration and

OFFTIME	МЗХ-Е
Temp Term (°F)	48°F
Failsafe (minutes)	35

ELECTRIC OR GAS Not Recommended

Standard Defrost Thermostat

Close on rise: close 48°F — open 33°F

CONVENTIONAL CONTROLS

Low Pressure Backup Control

WI3X-E
14°F/4°F

Indoor Unit Only, Pressure DefrostTermination*48°F*Use a Temperature Pressure Chart to
determine PSIG conversions.

Excel M3X-E Meat, Delicatessen Precut and Packaged Produce

Electrical Data

			8 ft	12 ft		
Number o	f Fans—1	2W	2	3		
			A	10HOG	Wa	tta
E (г		-	peres		
Evaporato			8 ft	12 ft	8 ft	12 ft
120V	50/60Hz	z Standard Energy Efficient	0.60	0.90	36	54
230V	50/60Hz	z Standard Energy Efficient	0.30	0.45	36	54
230V	60Hz	Export	0.66	0.99	100	150
230V	50Hz	Export	0.76	1.14	114	171
Minimum	Circuit A	mnacity				
120V		z Standard Energy Efficient	0.80	1.10		
230V		z Standard Energy Efficient	0.50	0.65		
230V	60Hz	Export	0.86	1.19		
	50Hz	-	0.86	1.34		
230V	30112	Export	0.90	1.54		
Maximum	n Over Cu	rrent Protection 120V	20	20		
Maximun	n Over Cu	rrent Protection 230V	15	15		
Standard	Lighting (T-8 fluorescent)				
1 Row	Canopy		0.51	0.77	59	85

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.

Optional Lighting (T-8 fluorescent)				
Additional 1 Row Canopy	0.51	0.77	59	85
Additional 2 Row Canopy	1.02	1.54	118	170
Additional 3 Row Canopy	1.53	2.31	177	255
1 Row Rail Light	0.51	0.77	59	85
2 Rows of Shelves	1.02	1.54	118	170
2 Row Canopy	0.71	1.08	85	130
EcoShine II Canopy				
EcoShine II	0.32	0.48	38.6	58.0
EcoShine II HO	0.44	0.66	53.0	79.4
EcoShine II Rail Light —1 Row	0.16	0.25	19.8	29.7
EcoShine II Shelves				
2 Rows of Shelves	0.33	0.49	39.5	59.3

120V 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

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.

Meat, Delicatessen

Pre-cut and Packaged Produce

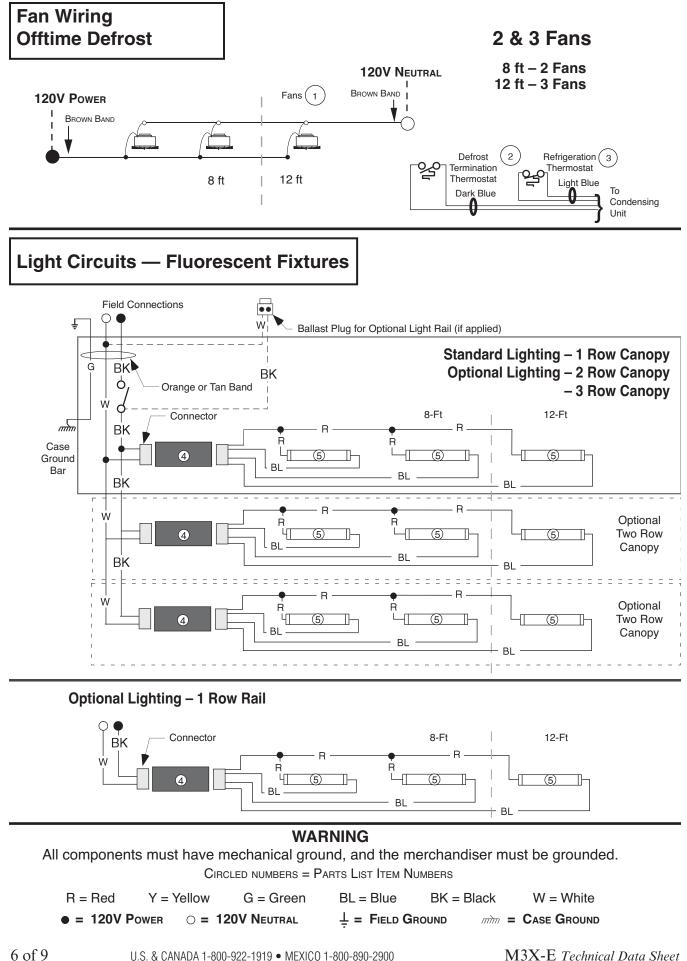
Product Data

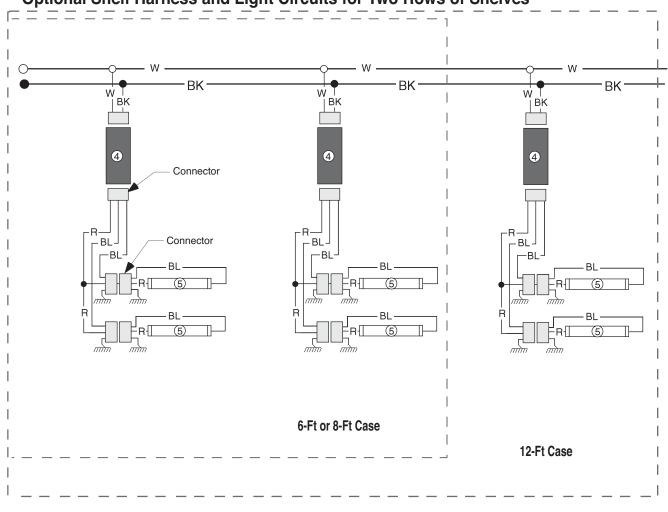
Recommended Usable Cube ¹ (Cu Ft/Ft)	6.04 ft ³ /ft (0.56 m ³ /m)
AHRI Total Display Area ² (Sq Ft/Ft)	3.04 ft²/ft (0.93 m²/m)
Shelf Area ³ (Sq Ft/Ft)	5.37 ft²/ft (1.64 m²/m)

- 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 and (1) row of 18-inch shelf.

Case			Solid End
	8 ft	12 ft	(each)
$\mathbf{b}(kg)$	1000 (454)	1300 (590)	75 (34)





Optional Shelf Harness and Light Circuits for Two Rows of Shelves

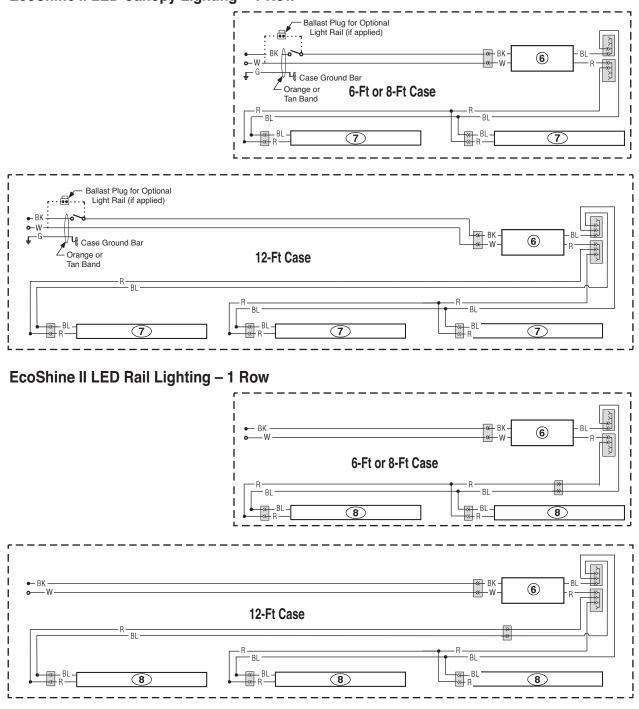
WARNING

All components must have mechanical ground, and the merchandiser must be grounded. CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red	Y = Yellow	G = Green	BL = Blue	BK = Black	W = White
• = 120V P	ower 0 = 12	OV NEUTRAL	$\frac{1}{2}$ = FIELD GRO	DUND min	= CASE GROUND

Optional Canopy and Rail Light Circuits — LED Fixtures

EcoShine II LED Canopy Lighting – 1 Row



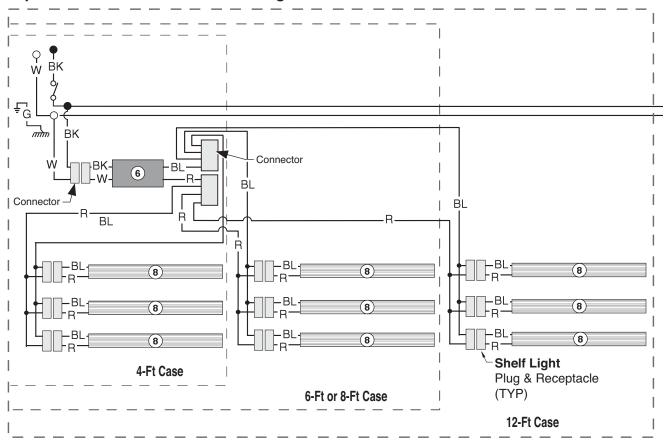
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Optional Shelf Lighting LED Fixtures



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

reen BL = Blue BK = Black

W = White

• = 80V Power • • = 80V Neutral

mm = Case Ground