HUSSMANN® Excel



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M3X-GE

Technical Data Sheet P/N 0463864_N **NSF®** Certified

> **DOE 2017 Energy Efficiency** Compliant

April 2017



Scan QR code to access product information on your mobile device.

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 Wirin	ig Item #	Item	Part #	Description \	Wiring Item #
FAN A	ASSEMBLIES			LAMP	S AND BALLAS	TS	
8 Ft				D.	Ballast, Elec	etronic	(4)
A.	12W Standard	Energy Efficient Fan Assemb	oly (1)		0480130	2 lamps (BA.4481676)	
	0477655	Fan Motor, Evaporator			0480131	3 lamps (BA.4481654)	
		(MO.4410546)			0480132	4 lamps (BA.4481677)	
	0461805	Fan Blade (FB.4780446)		E.		Fluorescent Lamp	(5)
						Replace with like fixture	S
THER	MOSTATS						
B.	0411744	Standard Non-adjustable	(2)	LED	FIXTURES AND	POWER SUPPLY	
		Defrost Thermostat		F.	0501213	Power Supply (EP.448)	1861) (6)
		(CT.0411744)		G.		LED Canopy Fixture	(7)
						Replace with like fixture	S
C.	Optional Adju	stable Refrigeration Thermo	ostat (3)	Η.		LED Shelf Fixture	(8)
	-					Replace with like fixture	S

Data sheet-Excel M3X-GE

D

C

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

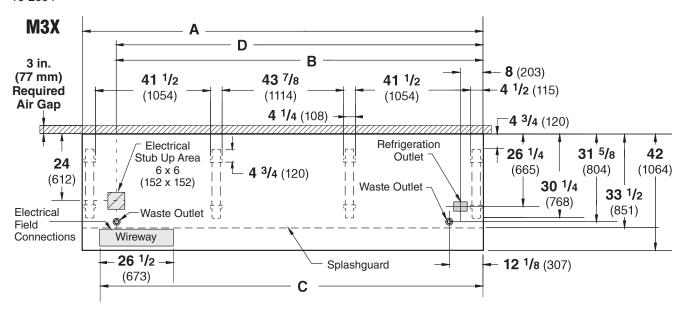
Engineering Plan Views

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

Meat, Delicatessen & Produce

10-2004

Dimensions shown as in. and (mm).



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

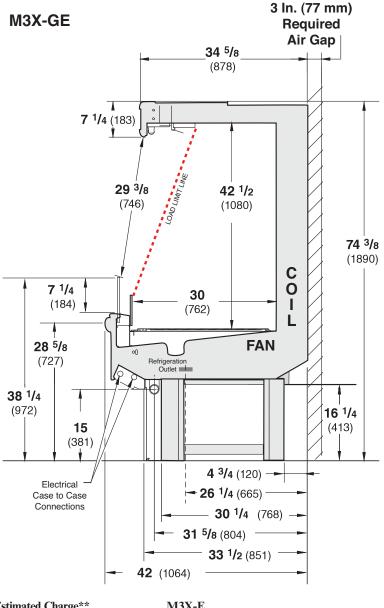
FRONT

	8 ft	
General		
(A) Case Length (without ends or partitions)	96 3/8 (2448)	
(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)	
Back of case to front of splashguard	33 1/2 (851)	
Back of case to O/S edge of front leg	30 1/4 (768)	
Distance between edges of external legs and center legs	41 1/2 (1054)	
Distance between edges of center legs	NA	
Distance between front legs and splashguard	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)	
Back of case to center of stub up area	24 (612)	
Length of electrical wireway Wireway	26 1/2 (673)	
(C) RH End of case to LH end of wireway	90 1/8 (2289)	
Waste Outlets (One each end) •		
(D) RH End of case to the center of LH waste outlet	84 1/4 (2140)	
RH End of case to the center of RH waste outlet	12 1/8 (307)	
Back O/S of case to center of waste outlets	31 5/8 (804)	
Schedule 40 PVC drip pipe	1 1/4 (32)	
Refrigeration Outlet		
Back of case to center of refrigeration outlet	26 1/4 (665)	
RH end of case to center of refrigeration outlet	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).



Estimated Charge 8 ft**2.7 lb
43 oz
1.2 kg

NSF Certification

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

Excel M3X-GE

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-GE§
Discharge Air (°F)	28
Evaporator (°F)	21
Unit Sizing (°F)	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[‡]

M3X-GE	Parallel	Conventional
Unlit	908	993

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

DEFROST DATA

M3X-GE

Frequency (hr) 8
Defrost Water (lb/ft/day)_____7
(± 15% based on case configuration and

product loading).

OFFTIME	M3X-GE	
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

M3X-GE

CI/CO* 14°F / 4°F

Indoor Unit Only, Pressure Defrost Termination* 48°F

*Use a Temperature Pressure Chart to determine PSIG conversions.

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

Excel M3X-GE

Meat, Delicatessen

Precut and Packaged Produce

Electrical Data

	8 ft
Number of Fans—12W	2

			Amperes 8 ft	Watts 8 ft
Evaporato	r Fan		o it	011
120V		Standard Energy Efficient	0.60	36
230V		Standard Energy Efficient	0.30	36
230V	60Hz	Export	0.66	100
230V	50Hz	Export	0.76	114
Minimum	Circuit Ar	npacity		
120V	50/60Hz	Standard Energy Efficient	0.80	
230V	50/60Hz	Standard Energy Efficient	0.50	
230V	60Hz	Export	0.86	
230V	50Hz	Export	0.96	
Maximum	Over Cur	rent Protection 120V	20	
Maximum Over Current Protection 230V		rrent Protection 230V	15	
Standard 1	Lighting (T	Γ-8 fluorescent)		
1 Row 0	Canopy		0.51	59

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	59
Additional 2 Row Canopy	1.02	118
Additional 3 Row Canopy	1.53	177
1 Row Rail Light	NA — Glass front does not accept rail light	
2 Rows of Shelves	1.02	118
EcoShine II Canopy		
EcoShine II	0.32	38.6
EcoShine II HO	0.44	53.0
E all Wall		
EcoShine II Shelves		
2 Rows of Shelves	0.33	39.5

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.

Excel M3X-GE

Meat, Delicatessen

Pre-cut and Packaged Produce

Product Data

 Recommended Usable Cube ¹ (Cu Ft/Ft)
 6.02 ft³/ft (0.56 m³/m)

 AHRI Total Display Area ² (Sq Ft/Ft)
 3.06 ft²/ft (0.93 m²/m)

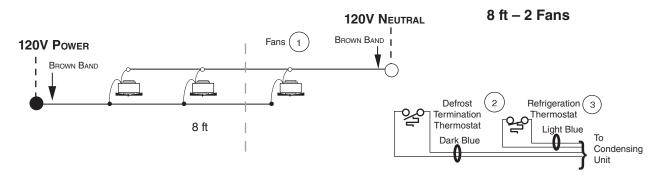
 Shelf Area ³ (Sq Ft/Ft)
 5.35 ft²/ft (1.63 m²/m)

- 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.

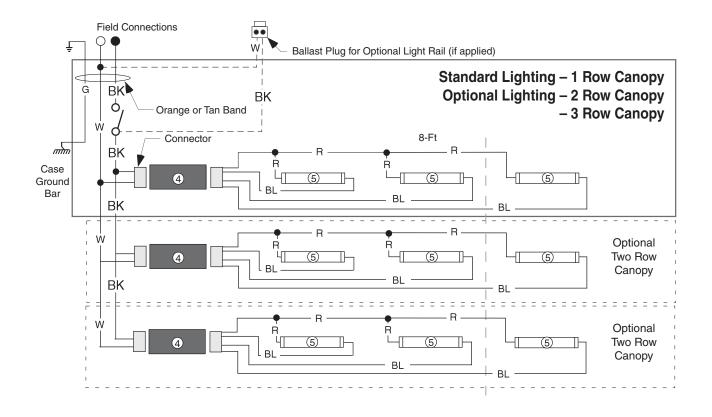
ESTIMATED SHIPPING WEIGHT 4				
Case		Solid End		
	8 ft	(each)		
lb (kg)	1000 (454)	75 (34)		
⁴ Actual weights will vary acco	ording to optional kits included.			

Fan Wiring Offtime Defrost

2 & 3 Fans



Light Circuits — Fluorescent Fixtures



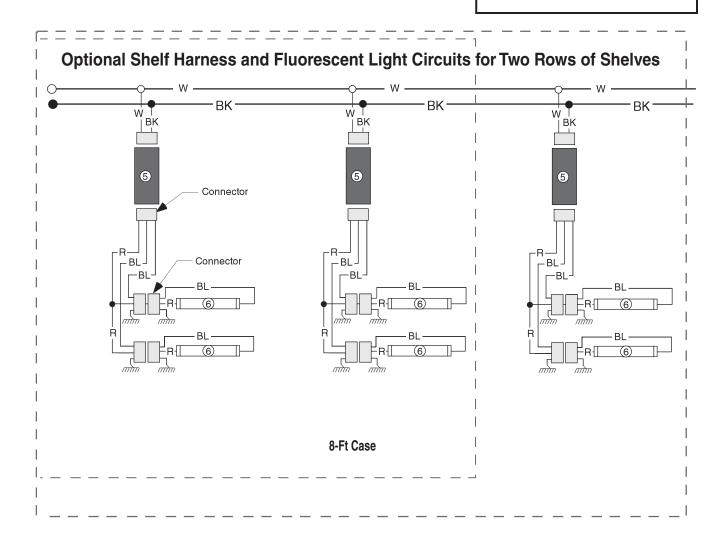
WARNING

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

Optional Shelf Lighting Fluorescent Fixtures



WARNING

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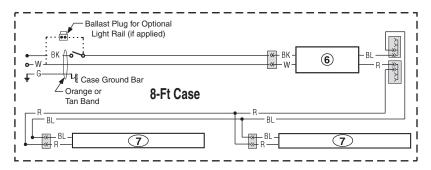
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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• = 120V Power \bigcirc = 120V Neutral $\frac{1}{2}$ = Field Ground $\frac{1}{2}$ = Case Ground

Optional Canopy Light Circuits — LED Fixtures

EcoShine II LED Canopy Lighting - 1 Row



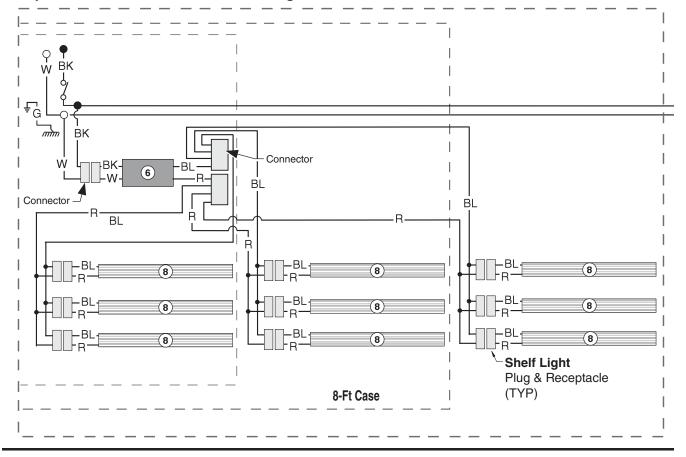
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Optional Shelf Harness and LED Light Circuits for 2 or 3 Rows of Shelves



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 \bigcirc = 80V Neutral $\frac{1}{7}$ = Field Ground \implies = Case Ground