

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 #
<b>FAN ASSEMBLIES</b>				<b>THERMOSTATS</b>			
<b>8 Ft &amp; 12 Ft</b>				B.	0382028	Standard Non-adjustable Defrost Thermostat	(2)
A.	4W Standard Efficient Fan Assembly	(1)		C.		Optional Adjustable Refrigeration Thermostat	(3)
	0477653	Fan Motor, Evaporator		<b>LAMPS AND BALLASTS</b>			
	0464847	Fan Blade		None			

Data sheet-Excel-M1XD-E

Note: Revision K: Updated DOE. Other changes marked with by bar, underline or circle.

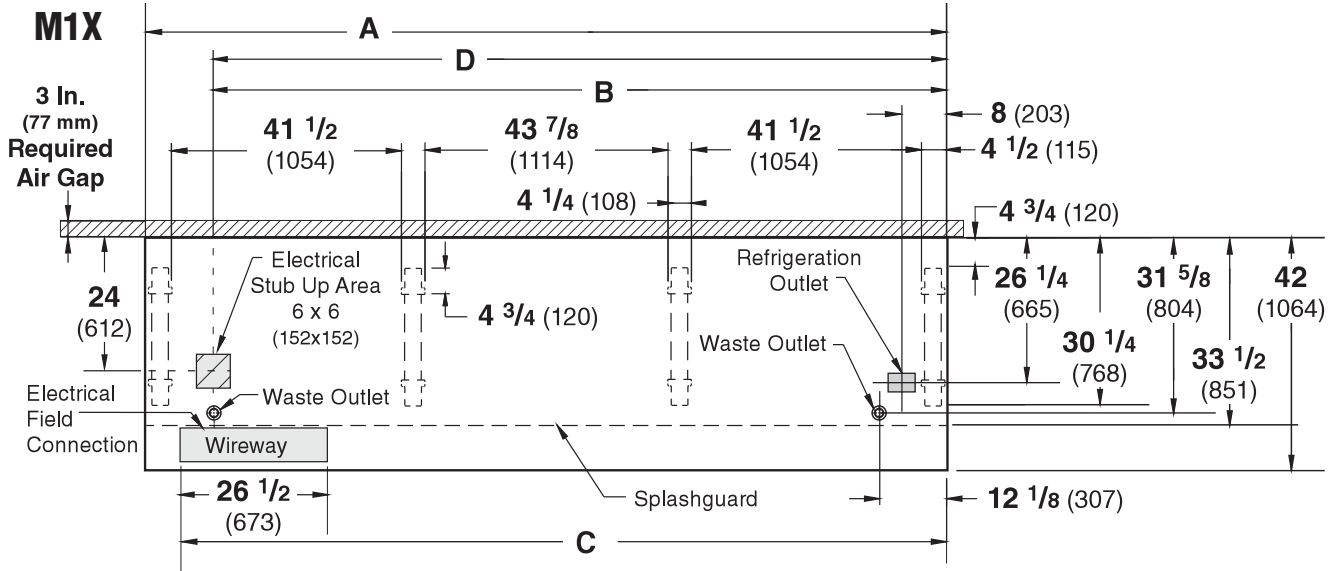
# Engineering Plan Views

PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	5/8

## Meat, Delicatessen and Produce

09-2005

Dimensions shown as in. and (mm).



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

FRONT

	8 ft	12 ft
<b>General</b>		
<b>(A) Case Length</b> ( <i>without ends or partitions</i> ) (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)	96 3/8 (2448)	144 1/2 (3670)
Back of case to front of splashguard	42 (1064)	42 (1064)
Back of case to O/S edge of front leg	33 1/2 (851)	33 1/2 (851)
Distance between edges of external legs and center legs	30 1/4 (768)	30 1/4 (768)
Distance between edges of center legs	41 1/2 (1054)	41 1/2 (1054)
Distance between front legs and splashguard	NA	43 7/8 (1114)
	2 3/4 (70)	2 3/4 (70)
<b>Electrical Service</b> <input checked="" type="checkbox"/> ( <i>Electrical Field Wiring connection point</i> )		
<b>(B) RH End of case to center of stub up area</b>	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 <input type="checkbox"/> Wireway	26 1/2 (673)	26 1/2 (673)
<b>(C) RH End of case to LH end of wireway</b>	90 1/8 (2289)	138 1/4 (3511)
<b>Waste Outlets</b> ( <i>One each end</i> ) <input checked="" type="checkbox"/>		
<b>(D) RH End of case to the center of LH waste outlet</b>	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)
<b>Refrigeration Outlet</b> <input type="checkbox"/>		
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)

Single Deck, 1 Display Level



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

**Excel M1XD-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.

	M1XD-E§
<b>Discharge Air (°F) *</b>	27
<b>Evaporator (°F) *</b>	18
<b>Unit Sizing (°F) *</b>	16

\* See supplemental defrost data sheet, P/N\_0530832, for temperature set point on special defrost applications.

§ 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.

<i>Btu/hr/ft</i>	M1XD-E
<b>Parallel</b>	481
<b>Conventional</b>	516

**DEFROST DATA**

	M1XD-E
<b>Frequency (hr)</b>	6
<b>Defrost Water (lb/ft/day)</b>	2

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

<i>OFFTIME</i>	M1XD-E
<b>Temp Term (°F)</b>	43°F
<b>Failsafe (minutes)</b>	35

**ELECTRIC OR GAS \*\*** Not Recommended

\*\* See supplemental defrost data sheet P/N 0530832, for duration and set point data.

**Standard Defrost Thermostat**

Close on rise: close 43°F — open 33°F

**CONVENTIONAL CONTROLS**

**Low Pressure Backup Control**

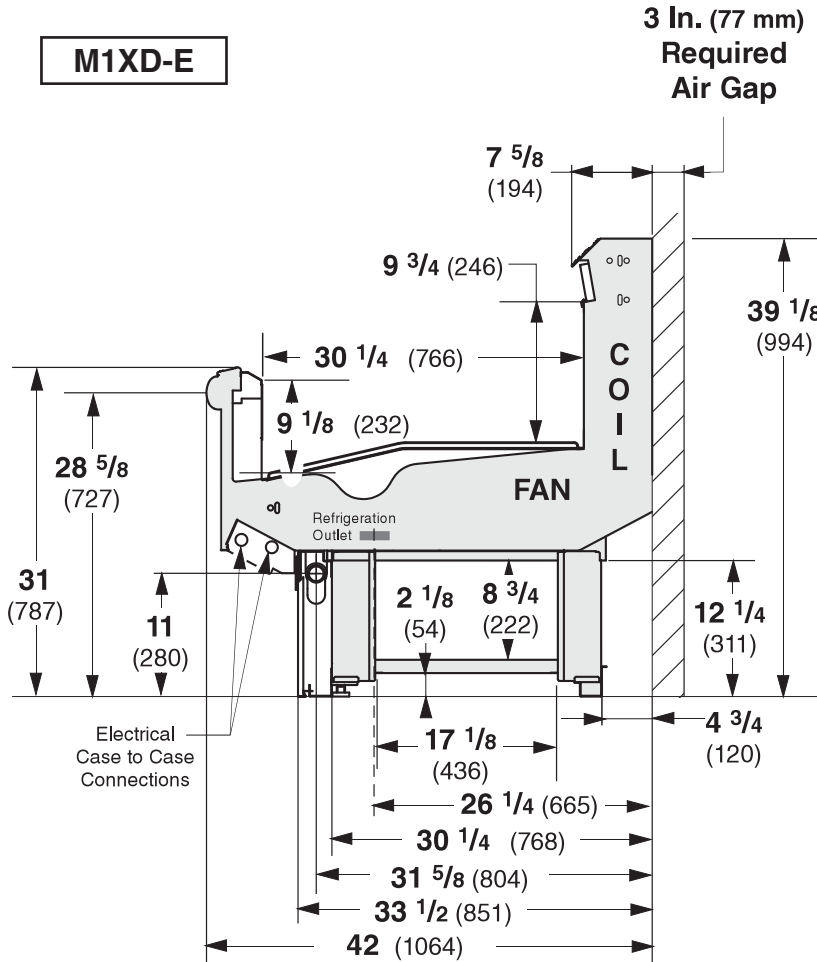
	M1XD-E
<b>CI/CO ***</b>	11°F / 1°F

**Indoor Unit Only, Pressure Defrost**

**Termination \*\*\*** 48°F

\*\*\* Use a Temperature Pressure Chart to determine PSIG conversions.

Dimensions shown as inches and (mm).



**Estimated Charge \*\*\*\***                      **M1XD-E**

<b>8 ft</b>	1.7 lb	27 Oz	0.8 kg
<b>12 ft</b>	2.3 lb	37 oz	1.0 kg

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

**NSF Certification**

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

<b>Excel M1XD-E</b> <b>Meat, Delicatessen</b> <b>Precut and Packaged Produce</b>
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**Electrical Data**

			<b>8 ft</b>	<b>12 ft</b>		
<b>Number of Fans—4W</b>			<b>2</b>	<b>3</b>		
			<b>Amperes</b>		<b>Watts</b>	
			<b>8 ft</b>	<b>12 ft</b>	<b>8 ft</b>	<b>12 ft</b>
<b>Evaporator Fan</b>						
120V	50/60Hz	Standard Energy Efficient	0.24	0.36	16	24
230V	50/60Hz	Standard Energy Efficient	0.12	0.18	16	24
230V	50/60Hz	Export	0.30	0.45	48	72
230V	50/60Hz	Export	0.36	0.54	54	81
<b>Minimum Circuit Ampacity</b>						
120V	50/60Hz	Standard Energy Efficient	0.44	0.56		
230V	50/60Hz	Standard Energy Efficient	0.32	0.38		
230V	50/60Hz	Export	0.50	0.65		
230V	50/60Hz	Export	0.56	0.74		
<b>Maximum Over Current Protection 120V</b>			<b>20</b>	<b>20</b>		
<b>Maximum Over Current Protection 230V</b>			<b>15</b>	<b>15</b>		

**Excel M1XD-E**  
**Meat, Delicatessen**  
**Pre-cut and Packaged Produce**

**Product Data**

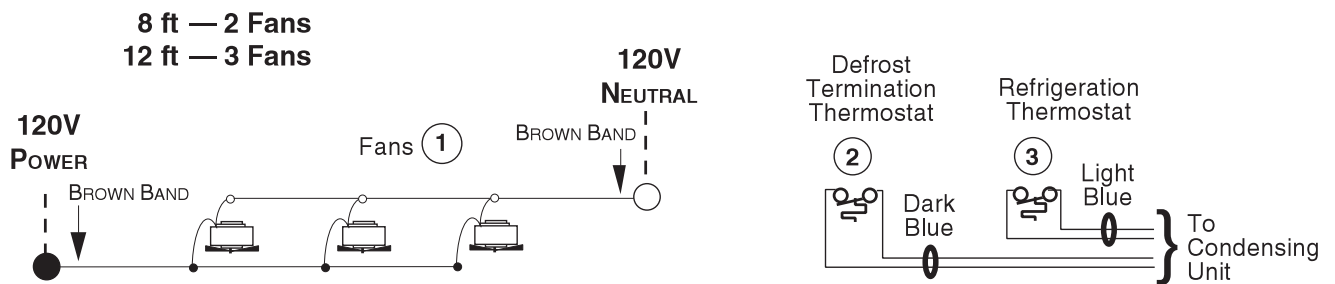
<i>Recommended Usable Cube</i> <sup>1</sup> (Cu Ft/Ft)	1.79 ft <sup>3</sup> /ft (0.17 m <sup>3</sup> /m)
<i>AHRI Total Display Area</i> <sup>2</sup> (Sq Ft/Ft)	2.43 ft <sup>2</sup> /ft (0.74 m <sup>2</sup> /m)
<i>Shelf Area</i> <sup>3</sup> (Sq Ft/Ft)	2.53 ft <sup>2</sup> /ft (0.77 m <sup>2</sup> /m)

- <sup>1</sup> AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft<sup>3</sup>/ft [m<sup>3</sup>/m]
- <sup>2</sup> Computed using AHRI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]
- <sup>3</sup> 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 NONE.

ESTIMATED SHIPPING WEIGHT <sup>4</sup>			
Case	8 ft	12 ft	Solid End (each)
lb (kg)	800 (363)	1100 (499)	50 (23)

<sup>4</sup> Actual weights will vary according to optional kits included.

**Fan Wiring**  
**Offtime Defrost**



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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

● = 120V POWER    ○ = 120V NEUTRAL