

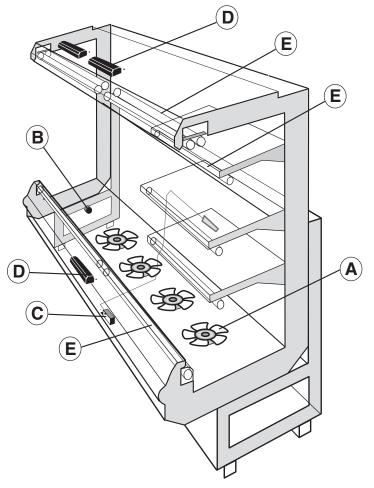
# **M4**

**Data Sheet Set** 

### P/N 0378419C

**NSF**® Certified

December, 2003



Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
FAN ASSEMBLIES AND THERMOSTATS			LAMP	S AND BALLA	ASTS		
A.	9W Fan Ass	embly	1	D.	0428648	Ballast, Electronic	
	0047000	Fan Motor, Evaporator	•			2 lamps	4
	0315470	Fan Blade					
		embossing toward motor	r	D.	0428649	Ballast Electronic	
						3 lamps	4
B.	0411744	Standard Non-adjustal	ole 2				
		Thermostat		E.		Fluorescent Lamp	5
						Replace with like fixtu	res
C.	0137880	Optional Adjustable	3				
		Refrigeration Thermos	stat				

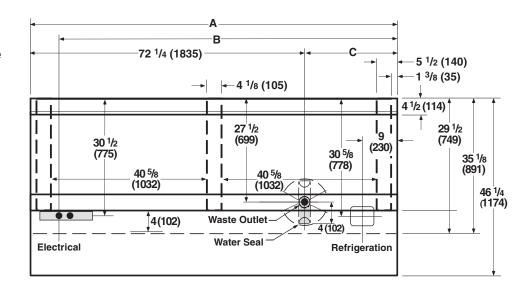
**Note:** Changed items have been <u>underlined</u>.

# Engineering Plan View

#### Dimensions shown as inches and (mm).

#### **Meat and Produce**

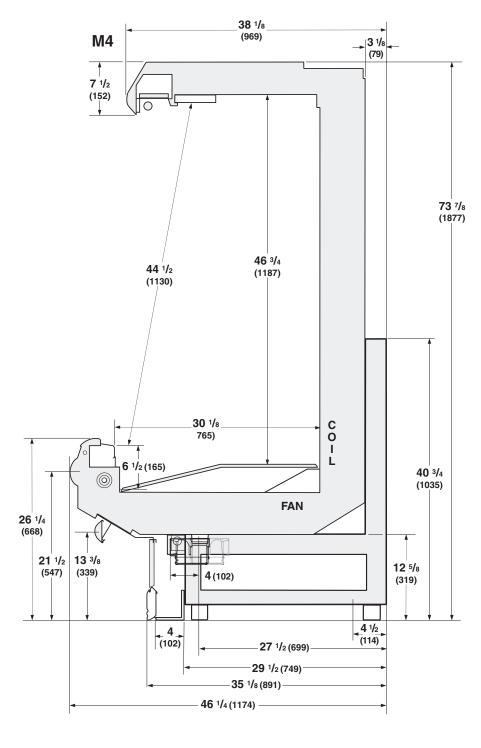
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	8 Ft	12 ft
General		
(A) Length of Case (without ends or partitions)	96 <sup>3</sup> / <sub>8</sub> (2448)	144 1/2 (3670)
Maximum outside dimensions of case back to front (includes bumper)	46 1/4 (1174)	46 1/4 (1174)
Back of case to front of splashguard	35 1/8 (891)	35 1/8 (891)
Back of case to outside edge of front skidrail	29 1/2 (749)	29 1/2 (749)
Width of skidrail	$4^{1/2}(114)$	4 1/2 (114)
Right end of case to inside edge of external support	$5^{1/2}(140)$	5 1/2 (140)
Distance between inside edges of external support and center support	40 5/8 (1032)	40 5/8 (1032)
Distance between inside edges of center supports	NA	44 (1118)
Width of external support	$4^{1/8}(105)$	4 1/8 (105)
Stub-up area between front skidrail and splashguard	4 (102)	4 (102)
Right edge of case (excluding end) to inside edge of external support	1 3/8 (35)	1 3/8 (35)
Electrical Service (Electrical Field Wiring connection point)		
<b>(B)</b> Right end of case to center of farthest knockout	88 3/8 (2245)	136 1/2 (3467)
Back outside of case to center of knockout	$30^{1/2}(775)$	30 1/2 (775)
Length of electrical raceway	$\frac{34 \frac{1}{2} (878)}{}$	34 1/2 (878)
Waste Outlet		
(C) Right end of case to center of waste outlet	24 1/8 (613)	72 1/4 (1835)
Left end of case to center of waste outlet	72 1/4 (1835)	72 1/4 (1835)
Back outside of case to center of waste outlet	27 1/2 (699)	27 1/2 (699)
Water Seal		
Edge of water seal to center of waste outlet	4 (102)	4 (102)
Outside diameter of drip pipe	$1^{1/2}(38)$	1 1/2 (38)
Refrigeration Outlet		
Right end of case to center of refrigeration outlet	9 (230)	9 (230)
Back outside of case to center of refrigeration outlet	30 5/8 (778)	30 5/8 (778)

# Impact M4 Meat and Delecatessen

#### Dimensions shown as inches and (mm).



#### **NSF** Certification

These merchandisers are manufactured to meet ANSI /National Sanitation Foundation (NSF®) Standard #7 requirements.

#### REFRIGERATION DATA

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

	<b>M4</b>	M4E		
Discharge Air °F	28	29		
Evaporator °F	18	21		
Unit Sizing °F	16	19		
Btu/hr/ft**	<b>M4</b>	M4E		
Parallel	1325	1270		
Conventional	1405	1350		
**For all refrigeration equipment other than				

\*\*For all refrigeration equipment other than Husssmann, use conventional BTU values.

#### **DEFROST DATA**

	N14	M4E
Frequency (hr)	6	6
Defrost Water (lb/ft/da	<b>y</b> )8	8
(±15% based on case co	nfigura	tion and
product loading.		

OFFTIME	<b>M4</b>	M4E	
Temp Term °F	48°F	48°F	
Failsafe Minutes	25	30	

ELECTRIC OR GAS Not Recommended

#### **Standard Defrost Thermostat**

Close on rise: close  $48^{\circ}F$  – open  $33^{\circ}F$ 

#### CONVENTIONAL CONTROLS Low Pressure Backup Control

M4 M4E CI/CO\*\* 12/2°F 14/4°F

#### Indoor Unit Only, Pressure Defrost Termination\*\* 48°F

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

#### PHYSICAL DATA

<b>Merchandiser Drip Pipe (in.)</b>	$1^{-1/2}$
Liquid Line (in.)	3/8
Suction Line (in.)	7/8

#### Estimated Charge (lbs)\*\*\*

	M4	M4E		
8 ft	2.3	2.7		
12 ft	3.3	3.9		

\*\*\*This is an average for all refrigerant types actual refrigerant charge may vary by approximately half a pound.

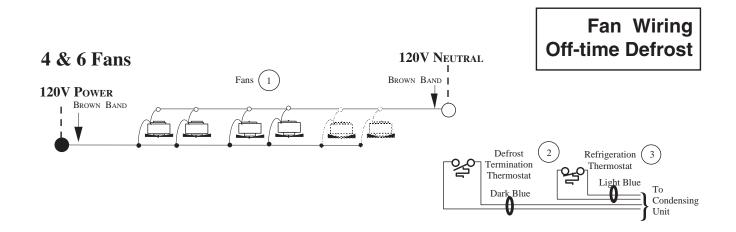
#### Length (in.) Added to Lineup by Each End or Insulated Partition

 $1^{-1/2}$ 

# Impact M4 Meat and Delicatessen

#### **Electrical Data**

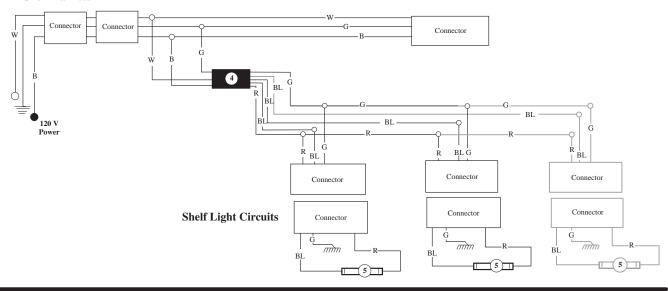
	8 Ft	12 Ft		
Number of Fans — 9W	4	6		
	Amperes		W	atts
Merchandiser	8 Ft	12 Ft	8 Ft	12 Ft
Fans				
Standard (120V 60Hz)	2.80	4.20	210	330
Export (230V 50Hz)	1.52	<u>2.28</u>	228	342
Energy Efficient (120V 60Hz)	<u>1.52</u>	2.28	100	<u>150</u>
Constant on Anti-sweat Heaters	NA			
Cycling Anti-sweat Heaters	NA			
Min. Circuit Ampacity				
With Standard Fans (120V 60Hz)	3.00	4.40		
Export (230V 50Hz)	1.72	2.48		
With Energy Efficient Fans (120V 60Hz)	<u>1.72</u>	2.48		
Maximum Over Current Protection 120V	20	20		
<b>Maximum Over Current Protection 230V</b>	15	15		
Supplemental Gas Heaters	NA			
208V 1Φ Electric Defrost	NA			
Standard Lighting				
1 Row Canopy	0.51	0.77	59	85
Optional Lighting	1.00	1.54	110	170
1 Row Canopy and 1 Rail	1.02	1.54	118	170
2 Row Canopy	1.02 1.53	1.54 2.31	118 177	170 255
2 Row Canopy and 1 Row Rail				
3 Row Canopy	$\frac{1.53}{2.04}$	$\frac{2.31}{2.08}$	$\frac{177}{226}$	<u>255</u>
3 Row Canopy and 1 Row Rail	2.04	3.08	<u>236</u>	340
<b>Optional Shelf Lighting</b>				
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



# **Optional Shelf Harness and Light Circuits for One Row of Shelves**

**Shelf Lighting** 





#### WARNING

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

#### CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

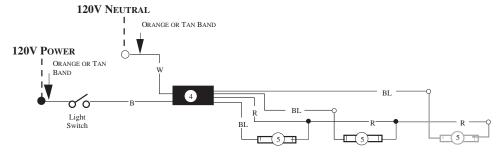
Grayed components in 12 foot models only.

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

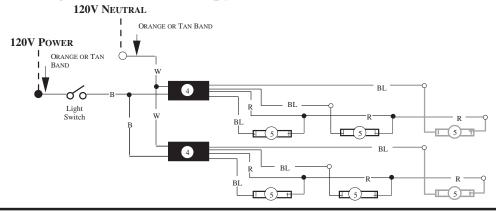
• = 120V Power 
$$\bigcirc$$
 = 120V Neutral  $\equiv$  = Field Ground  $\implies$  = Case Ground

## **Light Circuits**

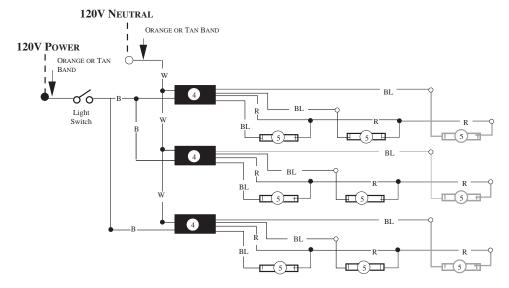
#### Standard Lighting 1 Row Canopy or Optional 1 Row Rail



### **Optional Lighting 2 Rows Canopy**



### **Optional Lighting 3 Row Canopy**



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• = 120V Power  $\bigcirc$  = 120V Neutral