

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.

IMPORTANT
ONE FLOOR DRAIN IS REQUIRED FOR EACH CASE.

Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
FAN ASSEMBLIES				THERMOSTATS			
8 Ft & 12 Ft				C. Optional Adjustable Refrigeration Thermostat (3)			
A.	13W Standard Fan Assembly — Discharge	(1)		LAMPS AND BALLASTS			
	0378349	Fan Motor, Discharge (MO.4410104)		D.	Ballast, Electronic	(4)	
	0463643	Fan Blade (FB.4780648)			0480130	2 lamps (BA.4481676)	
	13W Energy Efficient Fan Assembly — Discharge				0480131	3 lamps (BA.4481654)	
	0477656	Fan Motor, Discharge (MO.4410547)			0480132	4 lamps (BA.4481677)	
	0463643	Fan Blade (FB.4780648)		E.	Fluorescent Lamp	(5)	
					<i>Replace with like fixtures</i>		
8 Ft & 12 Ft				LED FIXTURES AND POWER SUPPLY			
B.	12W Standard Fan Assembly — Return	(2)		F.	0501213	Power Supply (EP.4481861)	(6)
	0047000	Fan Motor, Return (MO.4410103)		G.	LED Canopy Fixture (7)		
	0315470	Fan Blade (FB.0315470)			<i>Replace with like fixtures — See Page 5.</i>		
	12W Energy Efficient Fan Assembly — Return						
	0477655	Fan Motor, Return (MO.4410546)					
	0315470	Fan Blade (FB.0315470)					

Note: Revision B adds Btu note (page 3), EcoShine LED (page 4) and parts (page 5), and revises canopy wiring diagram (page 6). Other changes marked by bar, underline or circle.



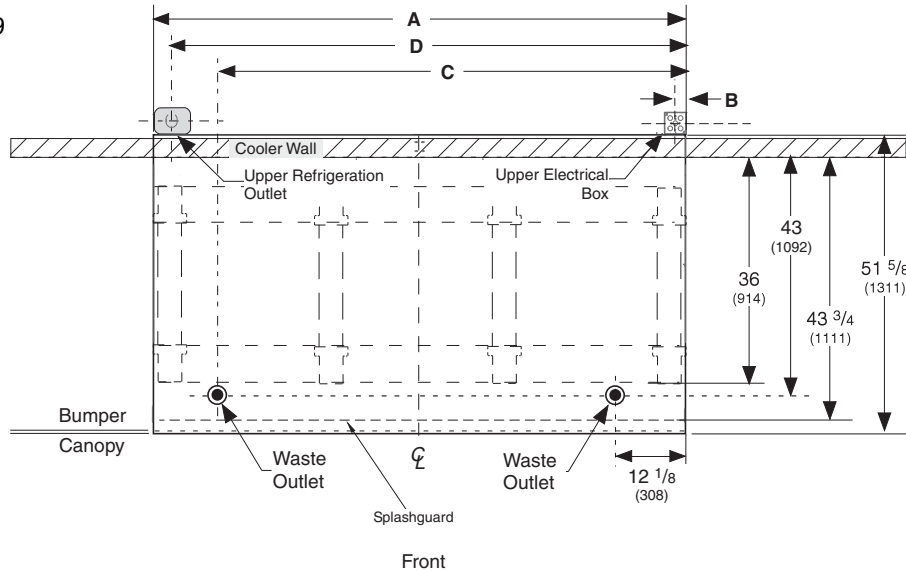
Engineering Plan Views

PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	7/8




Rear Load Ultra Low Front Dairy

Dimensions shown as in. & (mm).

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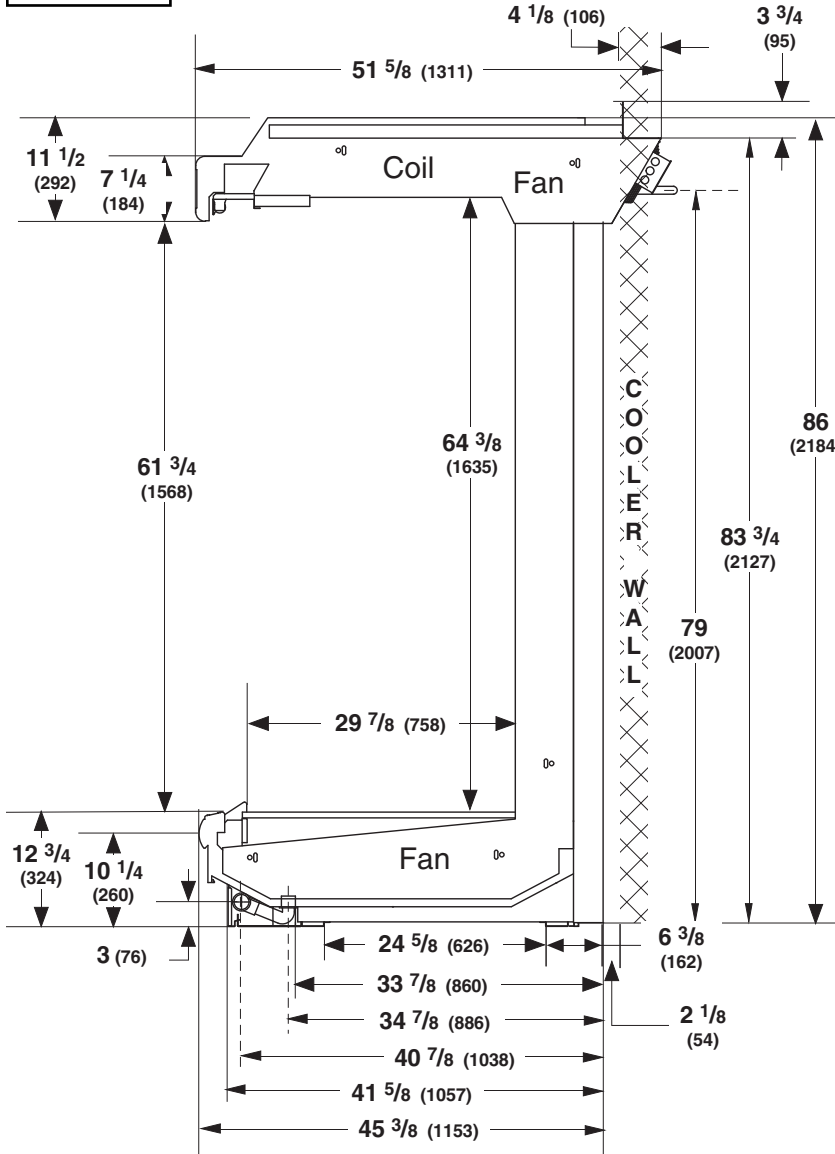


Note: ALL FIELD WIRING CONNECTION POINTS ARE ABOVE THE CASE.
Case to case connections are made in the electrical box at the top of the case.

	8 ft	12 ft
General		
(A) Case Length <i>(without ends or partitions)</i> <i>(Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)</i>	96 3/8 (2448)	144 1/2 (3670)
Maximum O/S dimension of case back to front <i>(front of canopy through cooler wall not including electrical box)</i>	51 5/8 (1311)	51 5/8 (1311)
Cooler wall to front of splashguard	43 3/4 (1111)	43 3/4 (1111)
Cooler wall to O/S edge of front rails	40 3/4 (1035)	40 3/4 (1035)
Distance between edges of external rails and center rails	41 1/2 (1054)	41 1/2 (1054)
Distance between edges of center rails	NA	43 7/8 (1114)
Distance between front rails and splashguard	7 3/4 (197)	7 3/4 (197)
Electrical Service  <i>(Electrical Field Wiring connection point located on top of case)</i>		
(B) RH End of case to center of 4 x 4 x 2 Electrical Box	2 (51)	2 (51)
Back of case (cooler wall) to center of 4 x 4 x 2 Electrical Box	2 1/4 (57)	2 1/4 (57)
Waste Outlets <i>(One each end)</i> 		
(C) 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 (308)	12 1/8 (308)
Cooler wall to center of waste outlets	42 (1067)	42 (1067)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)
Refrigeration Outlet 		
Cooler wall to center of refrigeration outlet	4 1/4 (108)	4 1/4 (108)
(D) RH end of case to center of refrigeration outlet	93 1/4 (2369)	141 3/8 (3591)

Dimensions shown as in. & (mm).

D5X-URLE



ALL FIELD WIRING CONNECTION POINTS ARE ABOVE THE CASE.

NSF Certification

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

Impact Excel D5X-URLE Dairy

REFRIGERATION DATA

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

	D5X-URLE
Discharge Air (°F)	27
Evaporator (°F)	21
Unit Sizing (°F)	19

Important Note: Btu numbers are for the D5X-URLE when installed to a cooler operating at a 36°F air temperature. The unit cooler coil must be sized for an **additional load of 1160 Btu/hr/ft** of D5X-URLE case installed to the cooler.

Btu/hr/ft [‡]	D5X-URLE
Parallel	1200
Conventional	1375

[‡]Optional energy efficient motors reduce the refrigeration load by 70 Btu/hr/ft.

DEFROST DATA

	D5X-URLE
Frequency (hr)	6
Defrost Water (lb/ft/day)	6

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

OFF TIME	D5X-URLE
Time Terminated (minutes)	45
ELECTRIC OR GAS	Not Recommended
Standard Defrost Thermostat	— NA

CONVENTIONAL CONTROLS

	D5X-URLE
Low Pressure Backup Control	
CI/CO (Temp °F)*	14/4
Indoor Unit Only, Pressure Defrost Termination (Temp °F)*	NA

*Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge **	D5X-URLE		
8 ft	2.7 lb	43 oz	1.2 kg
12 ft	3.9 lb	62 oz	1.8 kg

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

Impact *Excel* D5X-URLE Dairy

Electrical Data

			8 ft	12 ft		
Number of Fans						
Discharge — 13W			4	6		
Return — 12W			4	6		
Return — 7W			—	—		
			Amperes		Watts	
			8 ft	12 ft	8 ft	12 ft
Discharge Fan						
120V	60Hz	Standard	3.08	4.62	244	366
120V	50Hz	Standard	3.92	5.88	280	420
230V	60Hz	Export	1.56	2.34	244	366
230V	50Hz	Export	1.92	2.88	280	420
120V	60Hz	Energy Efficient	1.20	1.80	80	120
230V	60Hz	Energy Efficient	0.60	0.90	80	120
Return Fan						
120V	60Hz	Standard	2.60	3.90	200	300
120V	50Hz	Standard	3.00	4.50	228	342
230V	60Hz	Export	1.32	1.98	200	300
230V	50Hz	Export	1.52	2.28	228	342
120V	60Hz	Energy Efficient	1.20	1.80	72	108
230V	60Hz	Energy Efficient	0.60	0.90	72	108
Minimum Circuit Ampacity						
120V	60Hz	Standard	5.88	8.72		
120V	50Hz	Standard	7.12	10.58		
230V	60Hz	Export	3.08	4.52		
230V	50Hz	Export	3.64	5.36		
120V	60Hz	Energy Efficient	2.60	3.80		
230V	60Hz	Energy Efficient	1.40	2.00		
Maximum Over Current Protection 120V			20	20		
Maximum Over Current Protection 230V			15	15		
Standard Lighting (T-8 fluorescent)						
1 Row Canopy			0.51	0.77	59	85
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
1 Row Rail Light			0.51	0.77	59	85
EcoShine Multi-deck — Normal CRI—120VAC, 50/60Hz						
2 Row Canopy (Front & Rear)			0.55	0.82	66	98
EcoShine Multi-deck — High CRI —120VAC, 50/60Hz						
2 Row Canopy (Front & Rear)			0.63	0.93	75	112
Always*Bright Multi-deck —120VAC, 50/60Hz						
2 Row Canopy			0.71	1.08	85	130

Lighted shelves are not available for rear-load models.

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

Product Data

<i>Recommended Usable Cube</i> ¹ (Cu Ft/Ft)	10.06 ft ³ /ft (0.93 m ³ /m)
<i>Total Display Area</i> ² (Sq Ft/Ft)	5.16 ft ² /ft (1.57 m ² /m)
<i>Shelf Area</i> ³ (Sq Ft/Ft)	9.83 ft ² /ft (3.00 m ² /m)

¹ Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
² 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 (4) rows of 22-inch shelves.

ESTIMATED SHIPPING WEIGHT ⁴			
Case			Solid End
	<i>8 ft</i>	<i>12 ft</i>	<i>(each)</i>
lb (kg)	970 (440)	1550 (703)	90 (41)

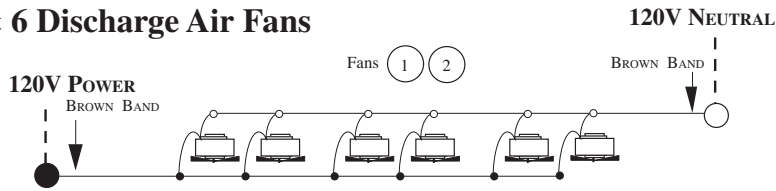
⁴ Actual weights will vary according to optional kits included.

PARTS LIST (Continued from Page 1)					
Item	Part #	Description	Item	Part #	Description
LED FIXTURES AND POWER SUPPLY					
F.	0501213	Power Supply (EP.4481861)	(6)		
G.	EcoShine LED Canopy Fixture				(7)
	4441720	Front 48-inch	2900K	HCRI	
	4441722	Front 48-inch	3500K	HCRI	
	4441724	Front 48-inch	3500K		
	4441726	Front 48-inch	4100K		
	4441721	Rear 48-inch	2900K	HCRI	
	4441723	Rear 48-inch	3500K	HCRI	
	4441725	Rear 48-inch	3500K		
	4441727	Rear 48-inch	4100K		

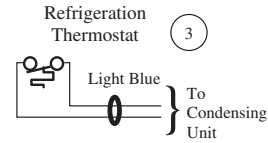
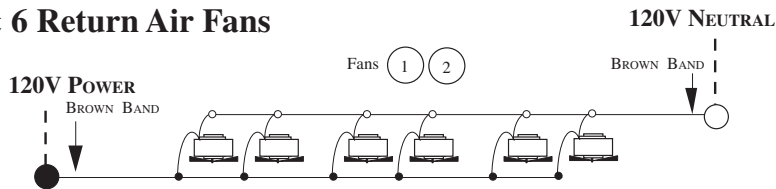
Note: Always*Bright lamps will be replaced with the latest generation of EcoShine lamps.

Fan Wiring Offtime Defrost

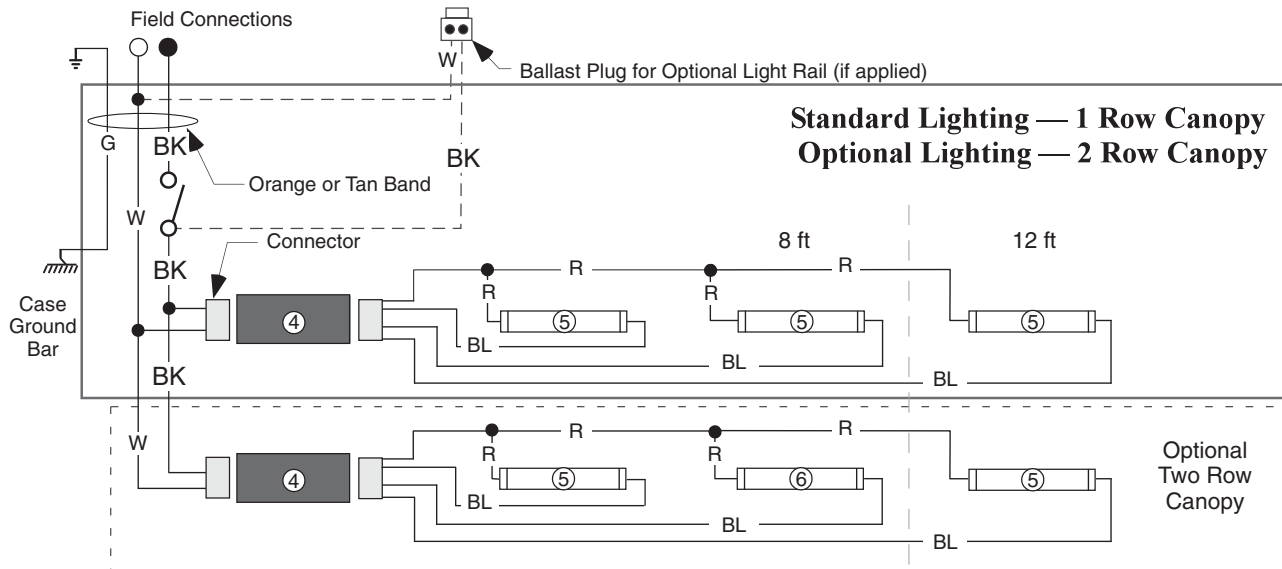
4 & 6 Discharge Air Fans



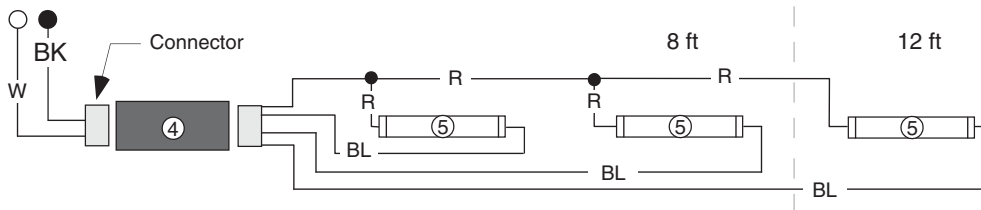
4 & 6 Return Air Fans



Light Circuits — Fluorescent Fixtures



Optional Lighting — 1 Row Rail



WARNING

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

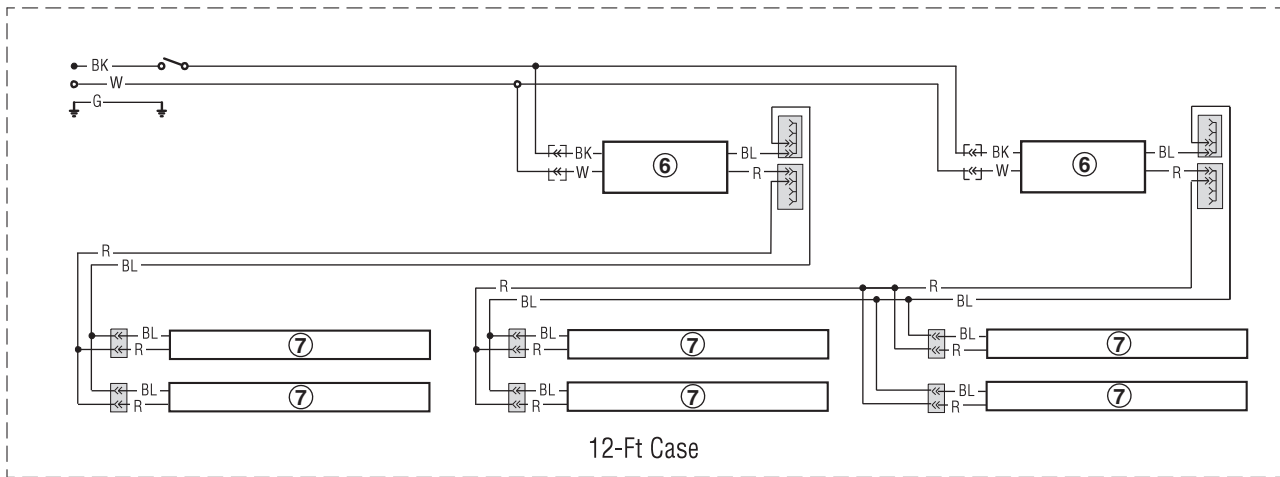
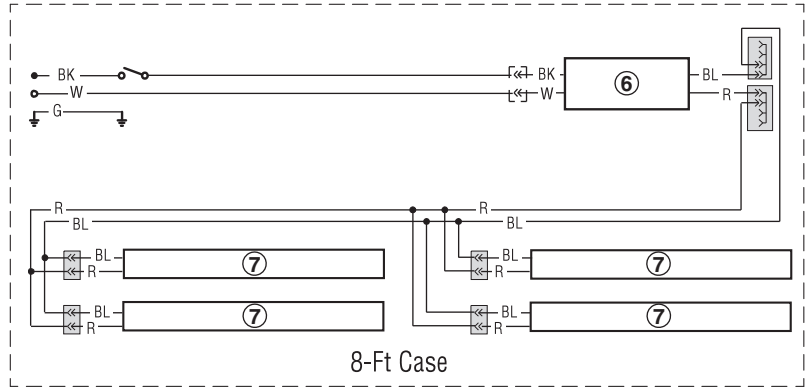
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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

● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

Optional Canopy Lighting LED Fixtures

Standard LED Canopy Lighting — 2 Row Canopy



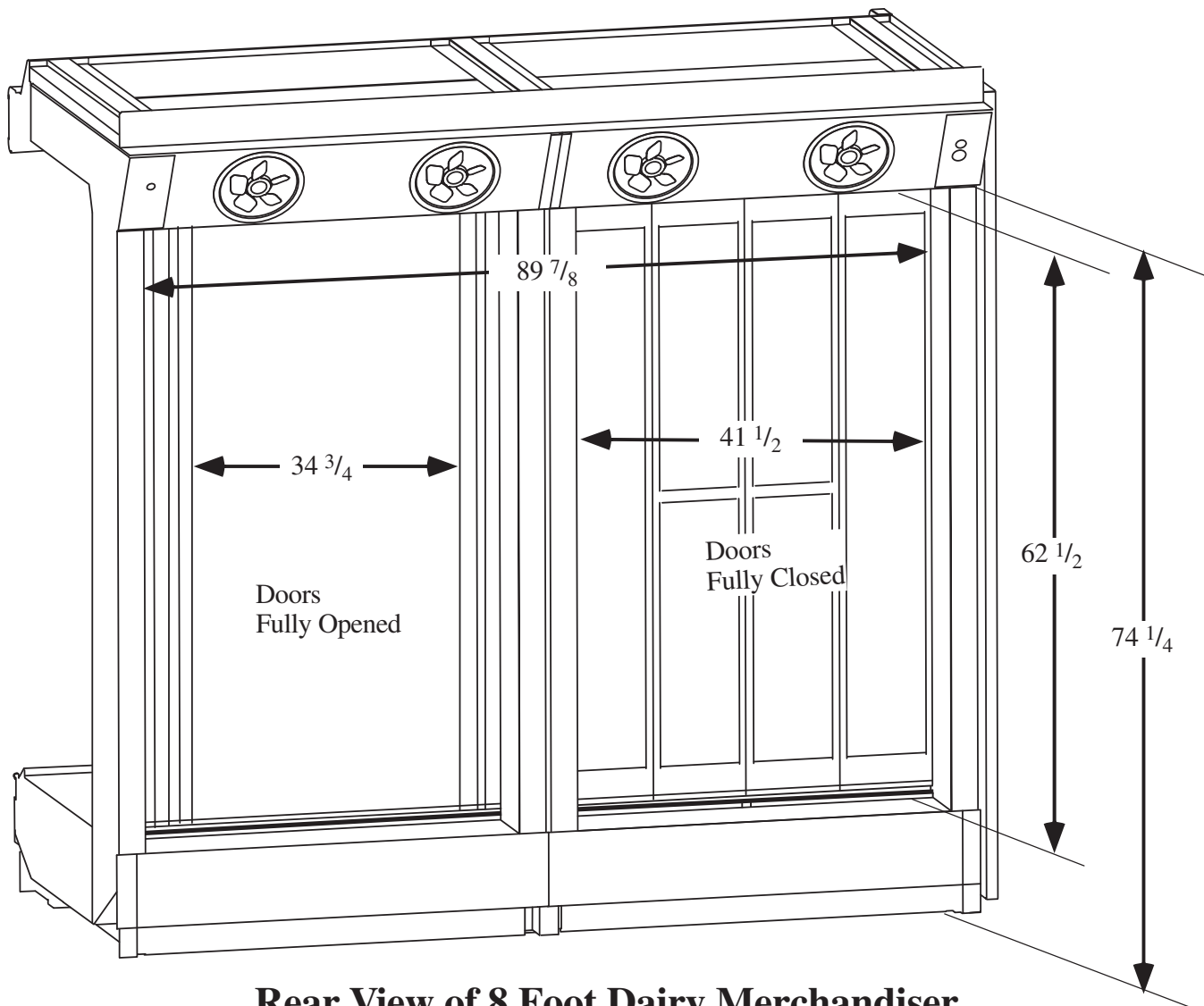
WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

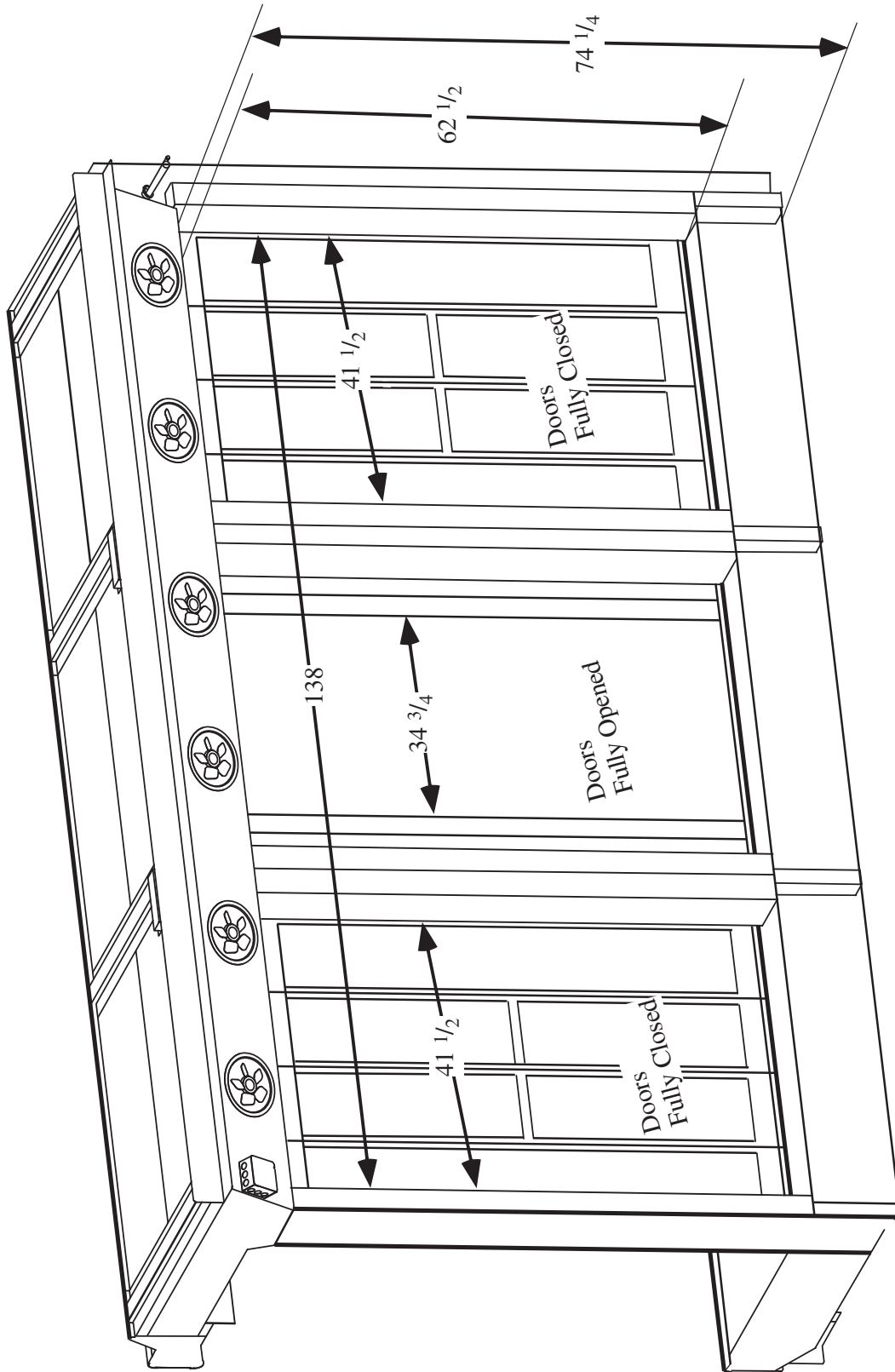
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⚡ = FIELD GROUND $\overline{\overline{\overline{\quad}}}$ = CASE GROUND



Rear View of 8 Foot Dairy Merchandiser

NOTE: Consult Ultra-Low Front Installation manual for instructions on connecting the merchandiser to the cooler.



NOTE: Consult Ultra-Low Front Installation manual for instructions on connecting the merchandiser to the cooler.

Rear View of 12 Foot Dairy Merchandiser