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

Data sheet-Excel DD5X-LR

Note: Revision K: Updated lighting energy values. Other changes marked with a bar, circle or underline.

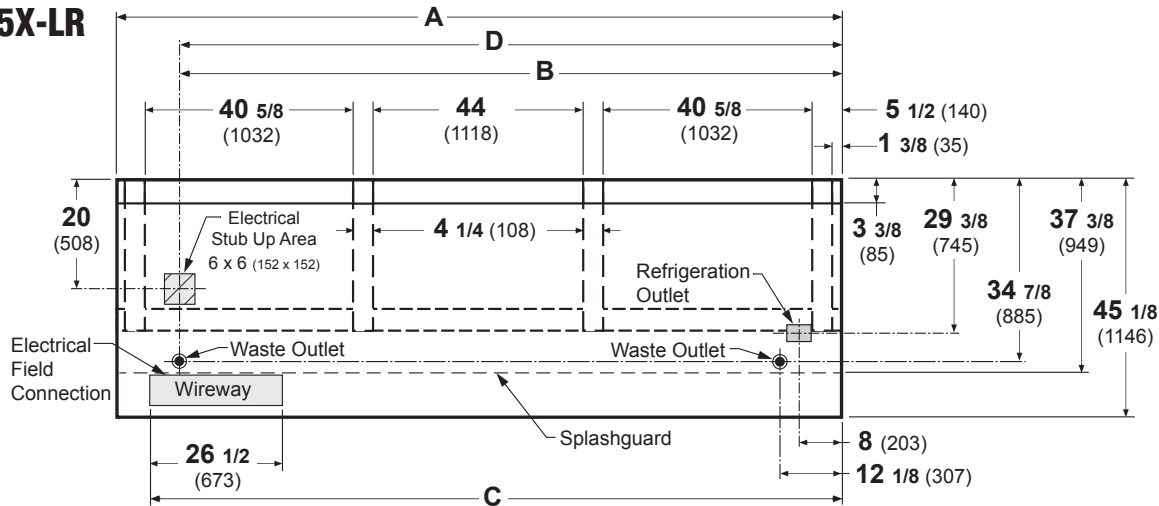
Engineering Plan Views

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

Rear Load Dairy & Delicatessen

DD5X-LR

Dimensions shown as in. and (mm).



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

FRONT

12 ft plan view is shown.

General

(A) Case Length (without ends or partitions)

(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, including bumper)

Back of case to front of splashguard

Back of case to O/S edge of front skid rail

Width of skid rail

RH end of case to outside edge of external support

Distance between edges of external support and center support

Distance between edges of center supports

Distance between front skid rail and splashguard

Electrical Service (Electrical Field Wiring connection point)

(B) RH End of case to center of stub up area

Back of case to center of stub up area

Length of electrical wireway Wireway

(C) RH End of case to LH end of wireway

Waste Outlets (One each end)

(D) End of case to the center of farthest waste outlet

End of case to the center of nearest waste outlet

Back O/S of case to center of waste outlets

Outside diameter of the drip pipe

Refrigeration Outlet

Back of case to center of refrigeration outlet

RH end of case to center of refrigeration outlet

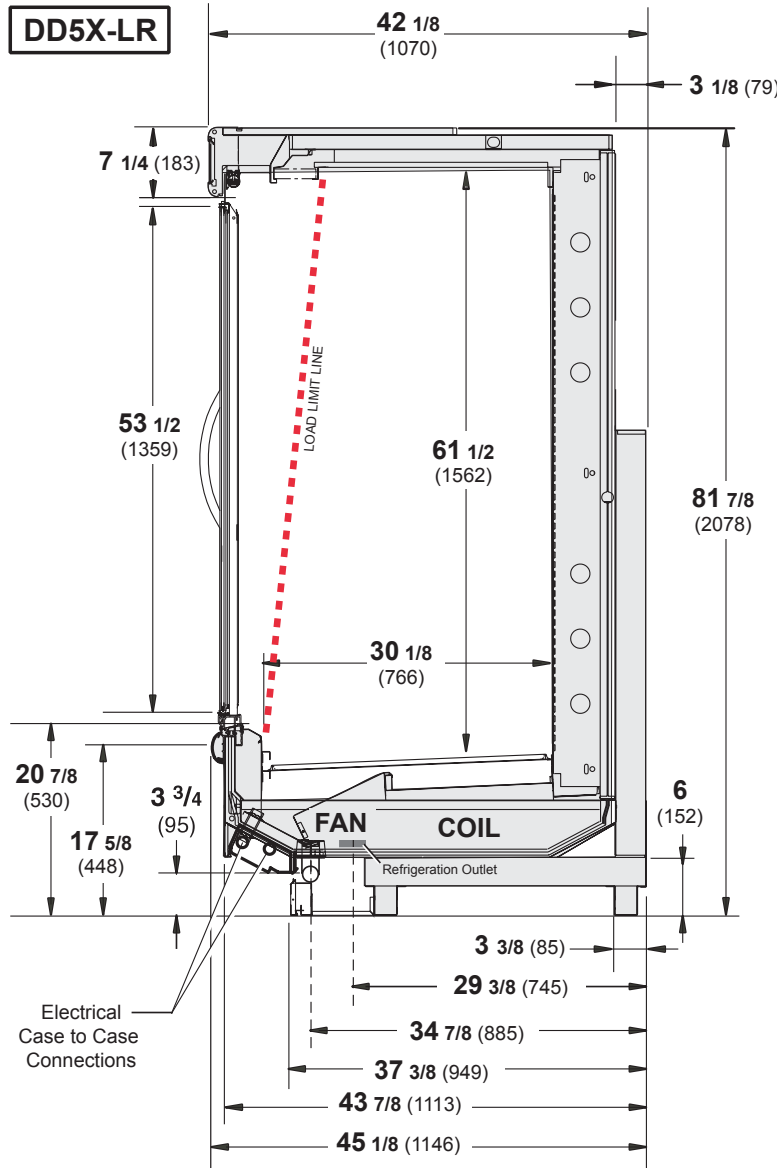
	8 ft	12 ft
(A) Case Length (without ends or partitions)	96 3/8 (2448)	144 1/2 (3670)
Maximum O/S dimension of case (back to front, including bumper)	45 1/2 (1155)	45 1/2 (1155)
Back of case to front of splashguard	36 7/8 (937)	36 7/8 (937)
Back of case to O/S edge of front skid rail	29 1/2 (749)	29 1/2 (749)
Width of skid rail	2 3/8 (61)	2 3/8 (61)
RH end of case to outside edge of external support	5 1/2 (140)	5 1/2 (140)
Distance between edges of external support and center support	40 5/8 (1032)	40 5/8 (1032)
Distance between edges of center supports	NA	44 (1118)
Distance between front skid rail and splashguard	6 (152)	6 (152)
(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	20 (508)	20 (508)
Length of electrical wireway <input type="checkbox"/> 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)
(D) End of case to the center of farthest waste outlet	84 1/4 (2140)	132 3/8 (3363)
End of case to the center of nearest waste outlet	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	34 7/8 (885)	34 7/8 (885)
Outside diameter of the drip pipe	1 1/4 (32)	1 1/4 (32)
Refrigeration Outlet <input checked="" type="checkbox"/>		
Back of case to center of refrigeration outlet	29 3/8 (745)	29 3/8 (745)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)

Multi-deck, 5 Display Levels with Sliding Rear Door, Low Front



Husmann 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 in. and (mm).



Estimated Charge****	DD5X-LR		
8 ft	3.7 lb	59 oz	1.7 kg
12 ft	5.1 lb	82 oz	2.3 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 DD5X-LR Dairy & Delicatessen

REFRIGERATION DATA

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

DD5X-LR§	DAIRY DELI		
	UNLIT	LIT*	PEG**
Discharge Air °F	37	35	35
Evaporator °F	32	30	30
Unit Sizing °F	30	28	28
DD5X-LR§	FRESH MEAT		
	UNLIT	LIT‡	
Discharge Air °F	33	31	
Evaporator °F	28	26	
Unit Sizing °F	26	24	

* Lit data is for canopy and mullion lighting. Husmann recommends against using lit shelves with EcoVision Doors.
 ** Husmann Peg Shelves (Deli only)
 § 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		
DD5X-LR	UNLIT	PEG*	MEAT
PARALLEL	313	350	360
CONVENTIONAL	322	361	371

‡ Add 10 Btu/hr/ft for lit.

DEFROST DATA

Frequency Hr 24
 Defrost Water (lb/ft/day) 1.0
 (± 15% based on case configuration and product loading).

OFFTIME	DD5X-LR
Time (minutes)	60
ELECTRIC OR GAS	Not Recommended

CONVENTIONAL CONTROLS

Low Pressure Backup Control
 CI/CO*** DD5X-LR
 35°F / 25°F

Indoor Unit Only, Pressure Defrost

Termination*** 40°F
 ***Use a Temperature Pressure Chart to determine PSIG conversions.

Excel DD5X-LR Dairy & Delicatessen

Electrical Data

	8 ft	12 ft		
Number of Fans – 12W	2	3		
Number of Fans – 7W	—	—		
	Amperes		Watts	
	8 ft	12 ft	8 ft	12 ft
Evaporator Fans				
120V 50/60Hz Standard Energy Efficient	0.60	0.90	36	54
230V 50/60Hz 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 Ampacity				
120V 50/60Hz Standard Energy Efficient	0.80	1.10		
230V 50/60Hz Standard Energy Efficient	0.50	0.65		
230V 60Hz Export	0.86	1.19		
230V 50Hz Export	0.96	1.34		
Maximum Over Current Protection 120V				
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
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)				
2 Row Canopy	1.02	1.54	118	170
3 Row Canopy	1.53	2.31	177	255
LED EcoShine II Canopy				
EcoShine II	0.32	0.48	38.6	58.0
EcoShine II HO	0.44	0.66	53.0	79.4
Shelf				
None				
Mullion				
EcoShine II 48-in.	0.40	0.57	47.7	68.2

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

Product Data

<i>Recommended Usable Cube</i> ¹ (Cu Ft/Ft)	9.39 ft ³ /ft (0.87 m ³ /m)
<i>AHRI Total Display Area</i> ² (Sq Ft/Ft)	4.46 ft ² /ft (1.36 m ² /m)
<i>Shelf Area</i> ³ (Sq Ft/Ft)	9.85 ft ² /ft (3.00 m ² /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 (4) rows of 22-inch shelves.

ESTIMATED SHIPPING WEIGHT ⁴

Case	8 ft	12 ft	Solid End
			(each)
lb (kg)	1500 (680)	2050 (930)	100 (45)

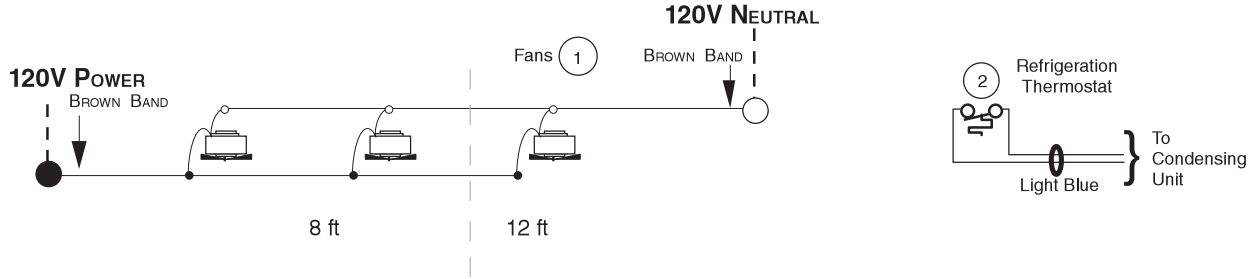
⁴ Actual weights will vary according to optional kits included.

Fan Wiring Offtime Defrost

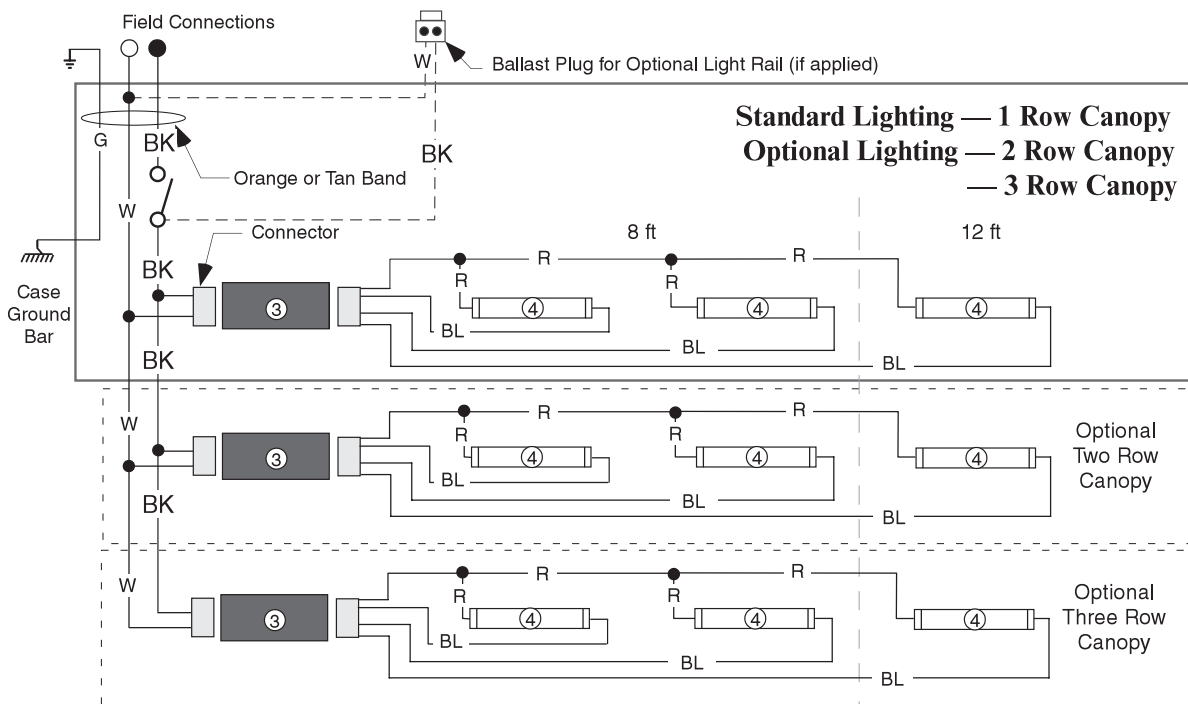
2 & 3 Fans

8 ft — 2 Fans

12 ft — 3 Fans



Canopy Light Circuits — Fluorescent Fixtures



WARNING

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

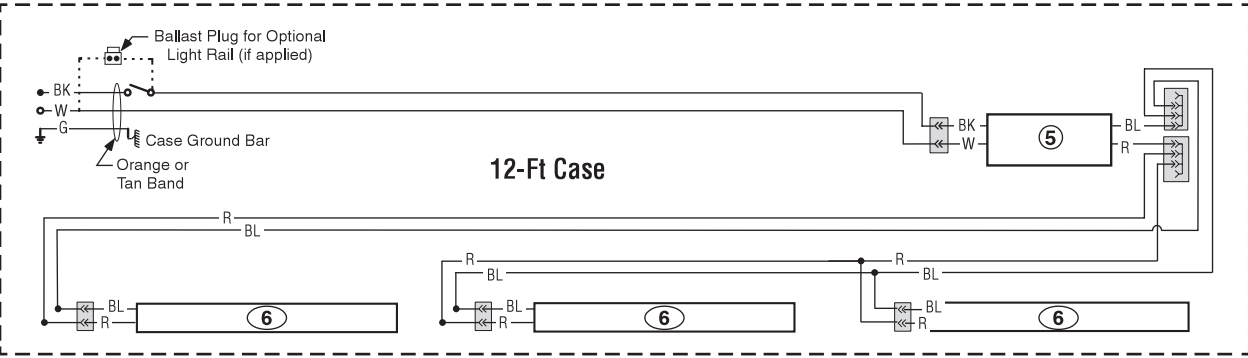
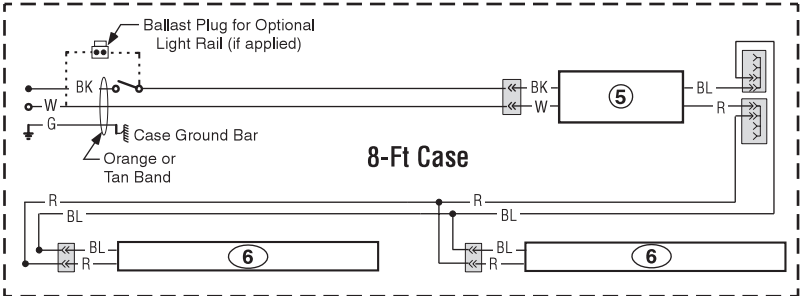
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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

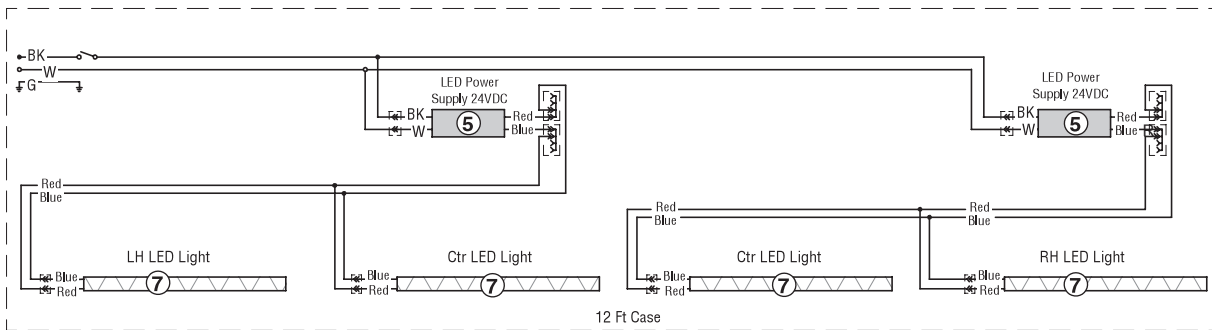
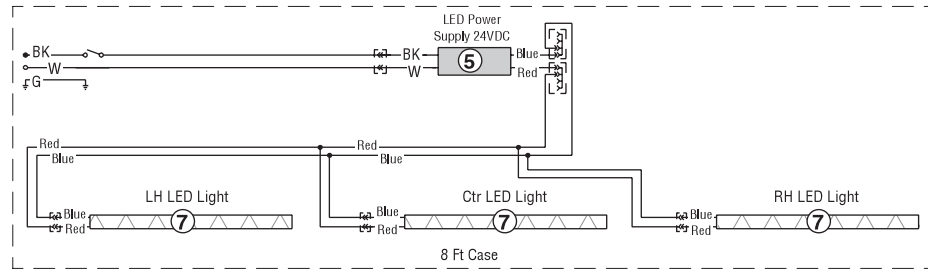
● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

Optional Canopy Lighting LED Fixtures

EcoShine II LED Canopy Lighting — 1 Row



Optional Mullion Lighting LED Fixtures



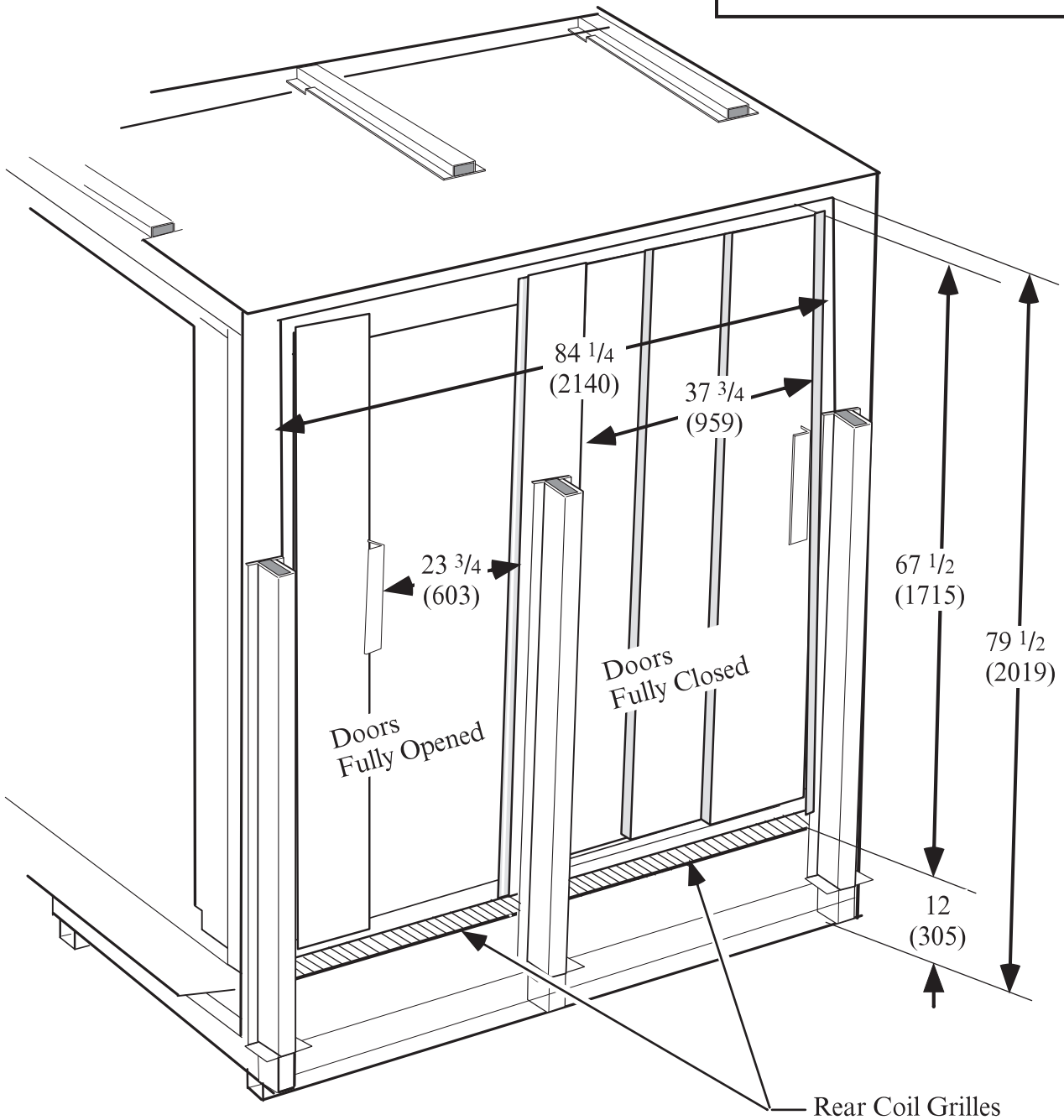
WARNING

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CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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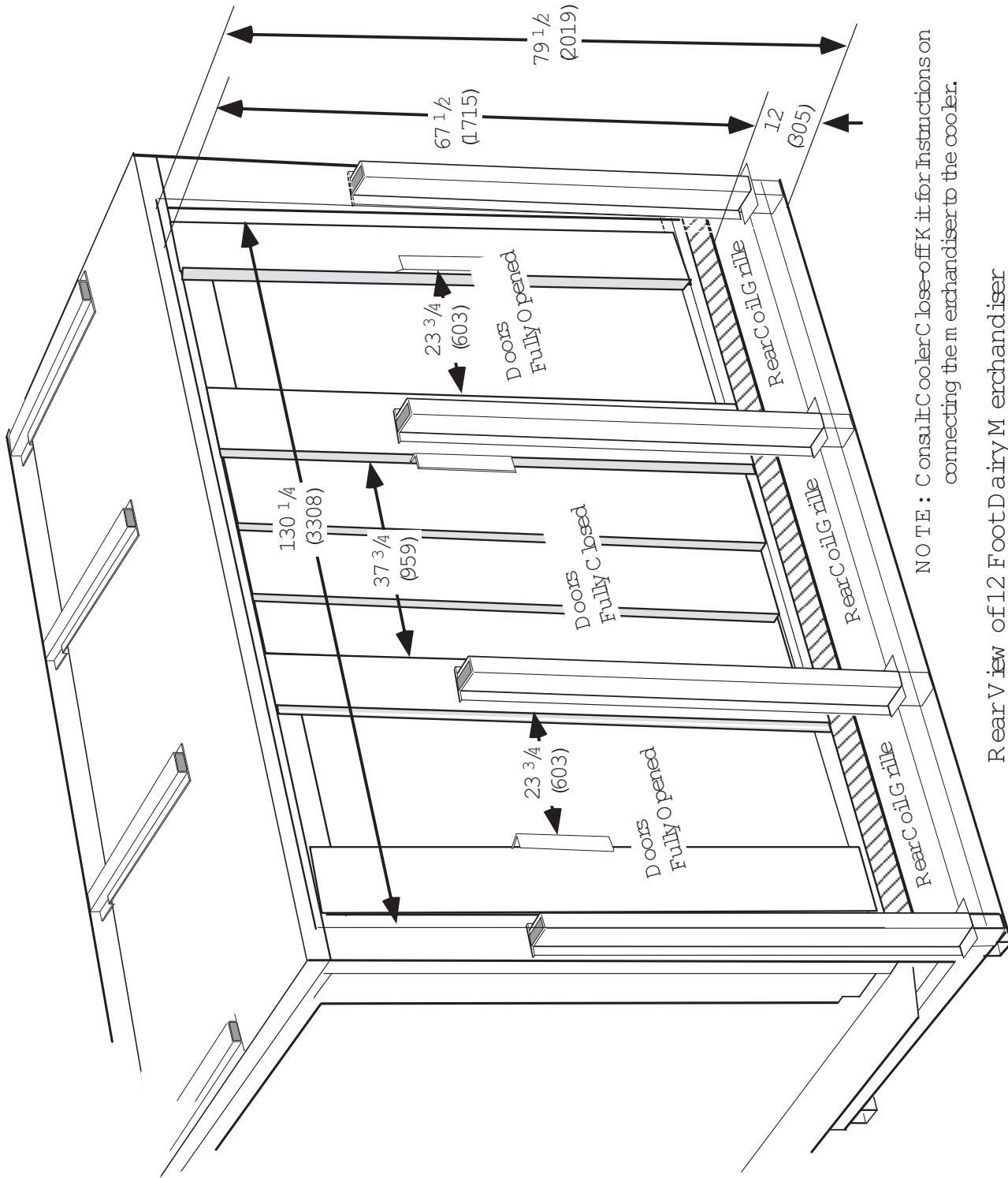


Rear View of 8 Foot Dairy Merchandiser

Double-walled telescoping doors slide both left and right.

NOTE: Consult Cooler Close-off Kit for instructions on connecting the merchandiser to the cooler.

Excel DD5X-LR
Dairy & Delicatessen



NOTE: Consult cooler Close-off Kit for Instructions on connecting the merchandiser to the cooler.

Rear View of 12 Foot Dairy Merchandiser
Double-wide telescoping doors slide both left and right.