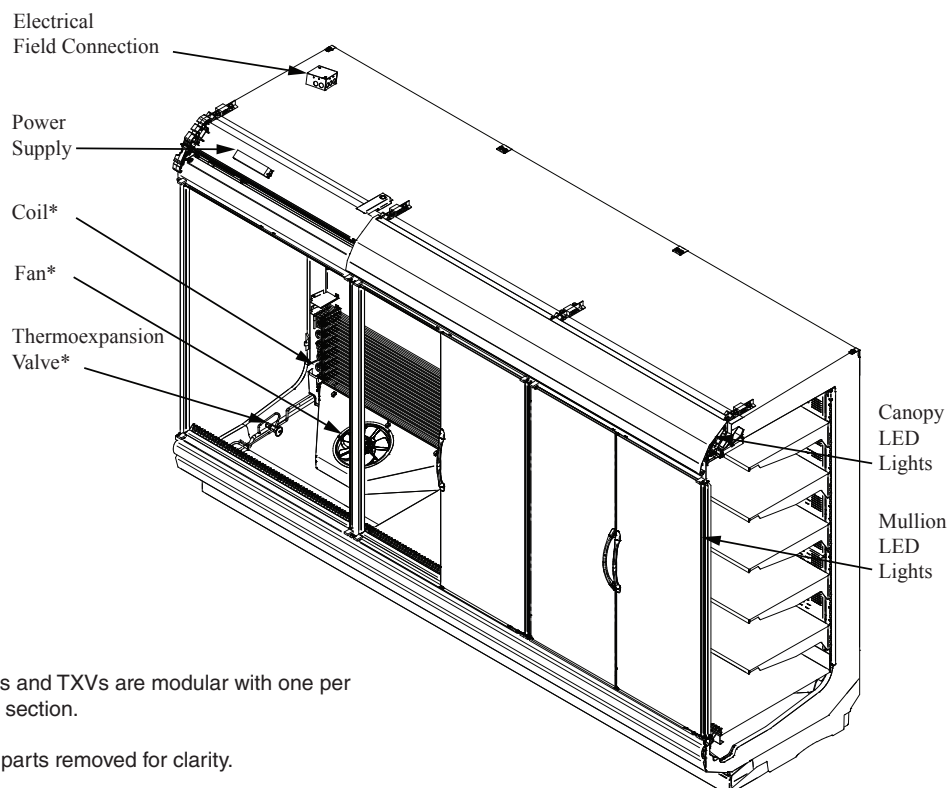


Insight standard field electrical connections are at the top left of the merchandiser



*Coils, fans and TXVs are modular with one per 3 or 4 foot section.

Portion of parts removed for clarity.

12 foot merchandiser shown.

NSF Certification

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



Performance Data	Page 2	Estimated Shipping Weights	Page 6
Product Data (AHRI Statistics)	Page 2	Shelf Options	Page 6
Cross Section	Page 3	Replacement Parts List	Page 7
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Electrical Loads	Page 5	Computing Refrigeration and Electrical Load	Page 11
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Data sheet-Insight IDD6SV

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.

Refrigeration Data ¹

IDD6SV		Optimal Shelf Life					Energy Comparison
Door Option		EcoVision			EcoVision HA	EcoVision HA+	EcoVision
Application		Dairy/Deli/ Beverage/ Produce	Pegs ⁴	Convertible/ Meat	NSF Type 2 Ambient ⁵	Harsh Environment	AHRI 1200 Rating Point ⁶
Unlit Mullions	Discharge Air °F (°C)	38 (3.33)	36 (2.22)	34 (1.11)	34 (1.11)	33 (0.55)	38 (3.33)
	Average Evaporator °F (°C) ^{2,3}	34 (1.11)	33 (0.55)	31 (-0.55)	31 (-0.55)	30 (-1.11)	34 (1.11)
	Parallel Btu/hr/ft (Watts/m)	253 (243)	272 (262)	277 (266)	287 (276)	360 (346)	253 (246)
	Conventional Btu/hr/ft (Watts/m)	260 (250)	280 (269)	285 (274)	295 (284)	370 (356)	260 (250)
Lit Mullions	Discharge Air °F (°C)	37 (2.77)	35 (1.66)	33 (0.55)	33 (0.55)	32 (0)	37 (2.77)
	Average Evaporator °F (°C) ^{2,3}	33 (0.55)	32 (0)	30 (-1.11)	30 (-1.11)	29 (-1.67)	33 (0.55)
	Parallel Btu/hr/ft (Watts/m) ⁶	282 (271)	301 (290)	306 (294)	316 (304)	379 (365)	282 (271)
	Conventional Btu/hr/ft (Watts/m) ⁶	290 (279)	310 (298)	315 (303)	325 (313)	390 (375)	290 (279)
Fan Speed⁷	IDD6SV6 (10.3")	1150 ⁷	1150 ⁷	1150 ⁷	1150 ⁷	1150 ⁷	1150 ⁷
	IDD6SV4, 8, 12 (10.3")	1150 ⁷	1150 ⁷	1150 ⁷	1150 ⁷	1150 ⁷	1150 ⁷

Notes:

- All data based on store temperature and humidity that does not exceed NSF Type 1 ambient conditions of 75°F and 55% relative humidity except where noted.
- 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.
- For DX CO2 applications the average evaporator temperature may be lowered by 5°F but not more than 10°F. An EPR valve should be used if the system suction temperature is below 24°F. A 31°F flash tank temperature with a 24°F evaporator temperature is used when sizing default EEV selections to provide a minimum pressure drop across the valve of approximately 50 psig. For operating conditions that provide a pressure drop across the valve above 65 psig or below 35 psig, the electronic expansion valve size should be determined using the valve vendor sizing program and selected from the pull down list in the Hussmann Product Configurator (HPC).
- Hussmann Peg Shelves for Dairy/Deli applications only.
- Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
- AHRI 1200 Rating Point for energy consumption comparison only.
- Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator.

Defrost Data

	Type 1	Harsh Environment
Frequency (hours between defrost)	24	12
OFFTIME		
Time (minutes)	40	30
ELECTRIC OR GAS	Not Available	
Defrost Water ⁸	1.0 lb/ft/day (1.5 kg/m)	2.3 lb/ft/day (3.4 kg/m)

⁸ (± 15% based on case configuration and product loading).

Conventional Controls

IDD6SV
Low Pressure Backup Control CI/CO ⁹
26°F / 16°F -3.3°C / -8.9°C
Indoor Unit Only, Pressure Defrost Termination ⁸
48°F (8.9°C)

⁹ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ¹⁰ IDD6SV

4 ft	0.6 lb	9.6 oz	0.3 kg
6 ft	1.1 lb	17.6 oz	0.5 kg
8 ft	1.5 lb	24 oz	0.7 kg
12 ft	2.9 lb	46.4 oz	1.3 kg

¹⁰ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Gross Refrigerated Volume ¹¹ (Cu Ft/Ft)	12.40 ft ³ /ft (1.15 m ³ /m)
AHRI Total Display Area ¹² (Sq Ft/Ft)	4.87 ft ² /ft (1.48 m ² /m)
Shelf Area ¹³ (Sq Ft/Ft)	11.69 ft ² /ft (3.56 m ² /m)

¹¹ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

¹³ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 22-in. shelves

Insight **IDD6SV**
Dairy / Delicatessen

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

Shelf complement shown as tested:

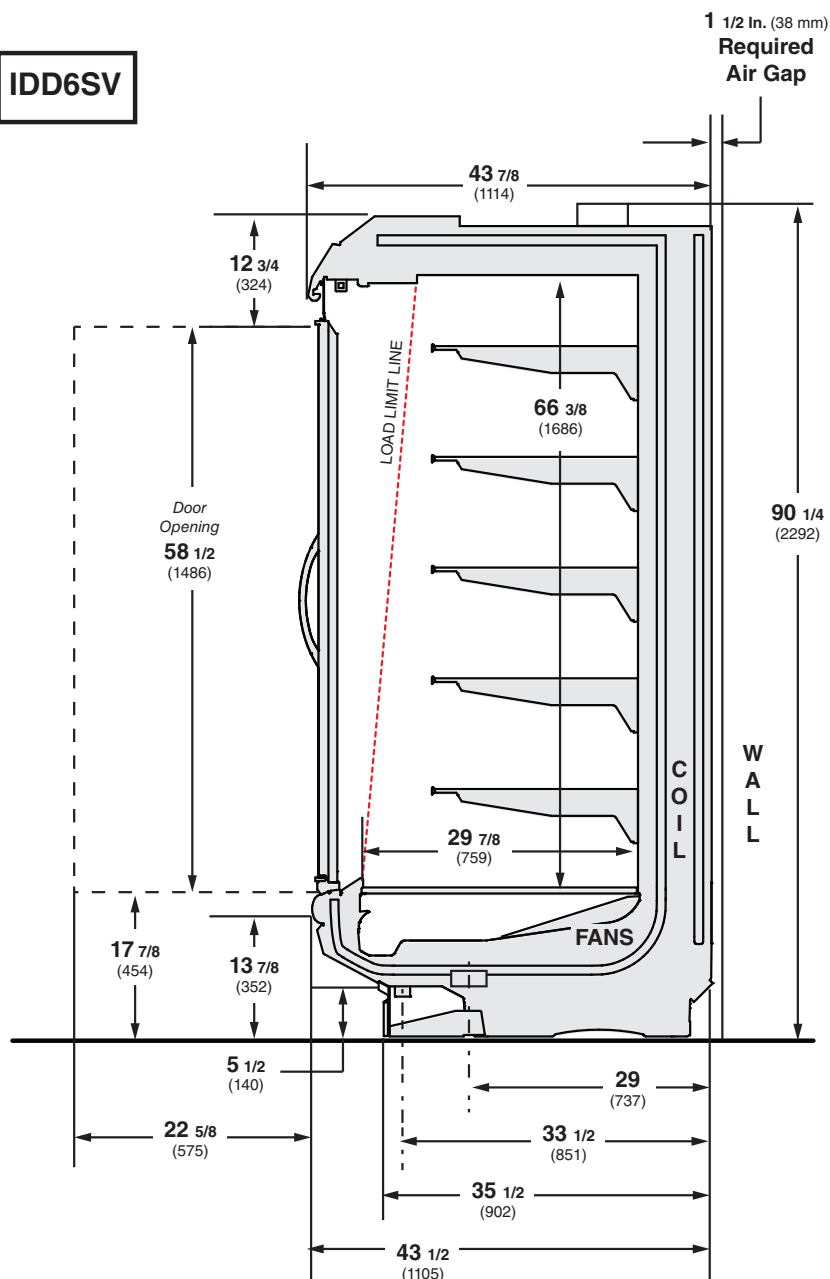
Five rows of 22-in. shelves spaced equally between bottom display panel and interior top panel.

Other optional kits (top piping and vent fans) add to the overall case height.

A minimum 1 1/2-in. clearance required to remove raceway cover, 6 1/2-in. for full access. See the Installation manual for instructions.

3-in. between back to back cases.

IDD6SV

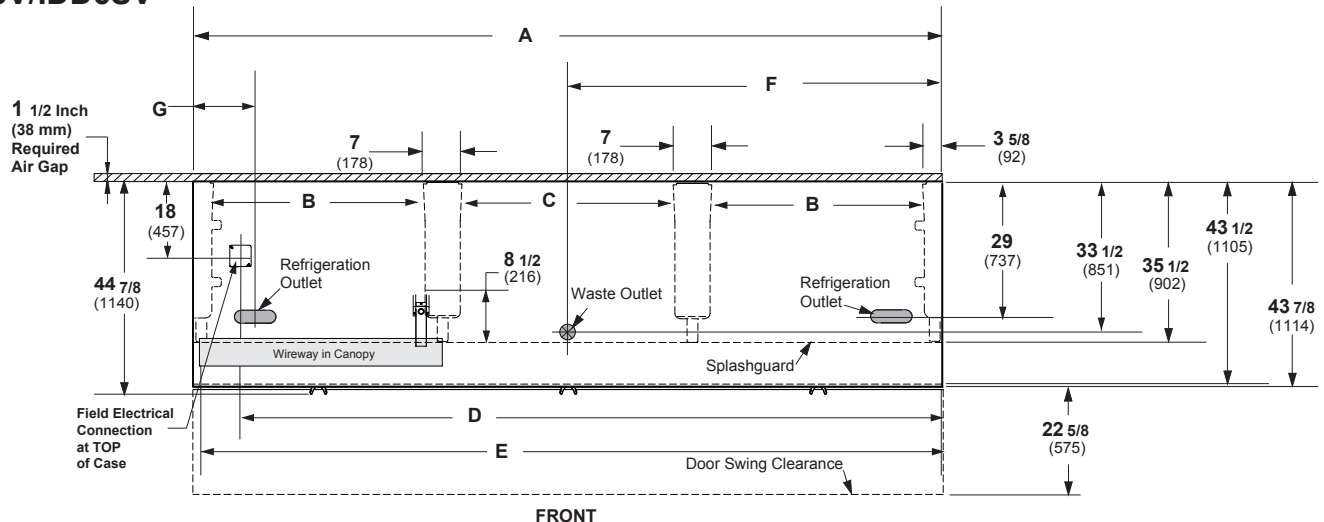


This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.

Engineering Plan View

IDD5SU/IDD6SU/
IDD5SV/IDD6SV

Dimensions shown as in. and (mm).



(12 Foot Model shown above)

	4 ft	6 ft	8 ft	12 ft
General				
(A) Case Length (without ends or partitions) (Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)	48 1/8 (1222)	72 1/4 (1835)	96 1/4 (2445)	144 3/8 (3667)
Maximum O/S dimension of case back to front (includes bumper)	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)
Back of case to front of splashguard	35 1/2 (902)	35 1/2 (902)	35 1/2 (902)	35 1/2 (902)
(B) Distance between edges of external legs and center legs	NA	29 (737)	41 (1041)	41 (1041)
(C) Distance between edges of center legs	41 1/8 (1045)	NA	NA	41 1/8 (1045)
Distance between front legs and splashguard	8 (203)	8 (203)	8 (203)	8 (203)
Electrical Service (Field Electrical Wiring Connection)				
(D) RH End of case to center of Field Electrical Wiring Connection (top of case)	39 3/8 (1000)	63 1/2 (1613)	87 1/2 (2223)	135 1/2 (3442)
Back of case to center of Field Electrical Wiring Connection	18 (457)	18 (457)	18 (457)	18 (457)
Length of electrical wireway	44 5/8 (1133)	33 1/2 (851)	45 7/8 (1165)	45 7/8 (1165)
(E) RH end of case to LH end of electrical wireway (top of case)	46 1/2 (1181)	70 1/2 (1791)	94 1/2 (2400)	142 5/8 (3630)
Waste Outlets				
(F) RH End of case to the center of waste outlet	24 1/8 (613)	24 1/8 (613)	24 1/8 (613)	72 1/4 (1835)
Back O/S of case to center of waste outlet(s)	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
<i>Floor Drain must be located within 24 inches of Waste Outlet.</i>				
Refrigeration Outlet				
(G) Back of case to center of refrigeration outlet	29 (737)	29 (737)	29 (737)	29 (737)
End of case to center of refrigeration outlet	8 1/2 (216)	8 1/2 (216)	8 1/2 (216)	8 1/2 (216)

Electrical Data

Number of Fans	4 ft	6 ft	8 ft	12 ft
10.3-in.	1	2	2	3

Evaporator Fan			Amperes				Watts			
			4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient	0.32	0.64	0.64	0.96	17	34	34	51
230V	50/60Hz	Energy Efficient	0.17	0.33	0.33	0.50	17	34	34	51

Minimum Circuit Ampacity							
120V	60Hz	Energy Efficient		0.52	0.84	0.84	1.16
230V	50/60Hz	Energy Efficient		0.37	0.53	0.53	0.70

Maximum Over Current Protection							
120V				20	20	20	20
230V				15	15	15	15

STANDARD LIGHTING

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.

EcoShine II Canopy								
1 Row EcoShine II	0.16	0.26	0.32	0.48	19.3	31.6	38.6	58.0

OPTIONAL LIGHTING

EcoShine II Canopy									
1 Row EcoShine II HO	0.22	0.33	0.44	0.66	26.5	39.5	53.0	79.4	

Shelf

None

Mullion

EcoShine II 60-in.	0.28	0.51	0.54	0.74	34.1	61.4	61.4	88.6
--------------------	------	------	------	------	------	------	------	------

Frame Anti-Condensate Heaters

(Only with EcoVision HA+ Door Option)	0.39	0.60	0.65	0.90	50.6	75.5	81.4	112.1
------------------------------------------	------	------	------	------	------	------	------	-------

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

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

ENDS or PARTITIONS

Each standard end and each insulated partition adds 1 1/2 in. (38 mm) to case line up. Optional view end with end bumper adds 3 3/4 in. (95 mm).

PHYSICAL DATA

Merchandiser Drip Pipe (in.)	1 1/4
Schedule 40 PVC	
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	5/8

ESTIMATED SHIPPING WEIGHT †

Case	4 ft	6 ft	8 ft	12 ft	Solid End (each)
lb (kg)	860 (390)	1090 (494)	1320 (599)	1780 (807)	100 (45)

† Actual weights will vary according to optional kits included.

Shelf Options

Approved shelf sizes for standard (horizontal, 2-3 position brackets) displays:

18-inch
20-inch
22-inch
24-inch

Contact engineering for non-standard (4 position brackets or other) display recommendations.

Minimum number of Shelves: 4

Optimal number of Shelves: 5

Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 0

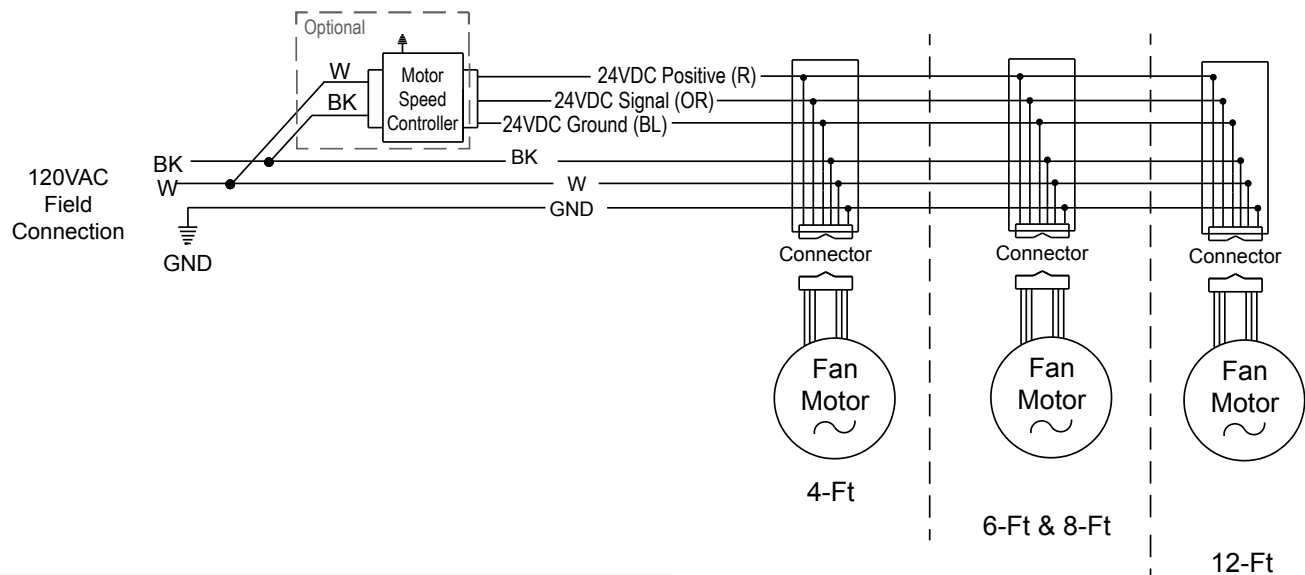
Standard shelf complement for test purposes: (5) rows of 22-in. shelves evenly distributed vertically.

Replacement Parts List

Part #	Description	Part #	Description
FAN ASSEMBLIES		COILS	
Standard HE Fan Assembly		0534323	4 ft, 8 ft, 12 ft
4 Ft, 6 Ft, 8 Ft & 12 Ft		0534322	6 ft only
0535564	10.3-in. Fan Assembly	HONEYCOMB - WHITE	
0534013	Fan Speed Controller	0536831	4 ft, 8 ft, 12 ft
FAN SPEED KEY		0536829	6 ft only
1500 RPM		THERMO-EXPANSION VALVE	
0534361	4 ft, 8 ft, 12 ft	Pre-set Adjustable	
THERMOSTATS		Varies with Refrigerant and Size	
OPTIONAL		EcoVISION HA+ FRAME HEATERS (OPTIONAL)	
LED FIXTURES AND POWER SUPPLY		4 Ft, 8 Ft & 12 Ft	
0501213	Power Supply	0549873	Heater - Mullion End LH
	LED Canopy Fixture	0549872	Heater - Mullion Center
	<i>Replace with like fixtures.</i>	0548655	Heater - Retainer Bottom
	LED Mullion Fixture	0549874	Heater - Mullion End RH
	<i>Replace with like fixtures.</i>	6 Ft	
		0549873	Heater - Mullion End LH
		0549875	Heater - Mullion Center
		0548656	Heater - Retainer Bottom
		0549874	Heater - Mullion End RH

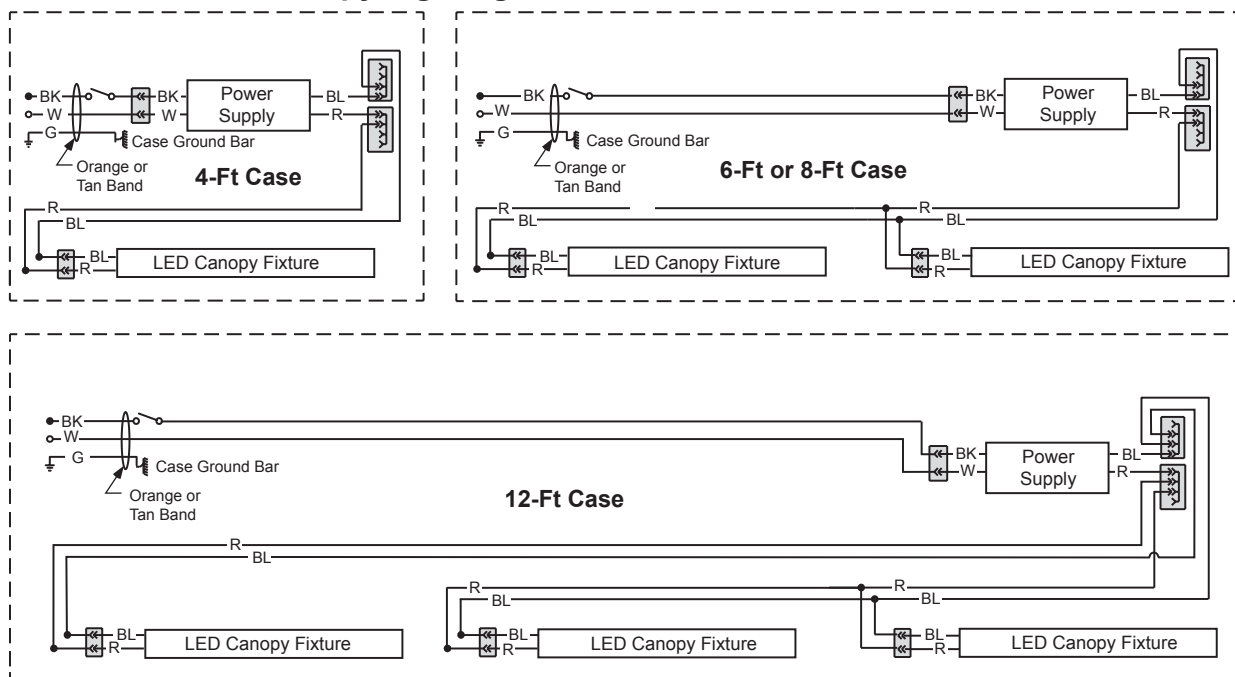
NOTE: For LED lighting parts contact your Hussmann service representative at 1-800-922-1919. Please have your model and serial number available. Descriptions including size and color are at [HTTP://WWW.HUSSMANN.COM/EN/PRODUCTS/LED-LIGHTING/PAGES/DEFAULT.ASPX](http://www.hussmann.com/en/products/led-lighting/pages/default.aspx).

FOR ADDITIONAL PARTS INFORMATION, VISIT [HTTP://WWW.HUSSMANN.COM/EN/PAGES/AFTERMARKET-PARTS.ASPX](http://www.hussmann.com/en/pages/aftermarket-parts.aspx)



LED Canopy Light Circuits

EcoShine II LED Canopy Lighting — 1 Row

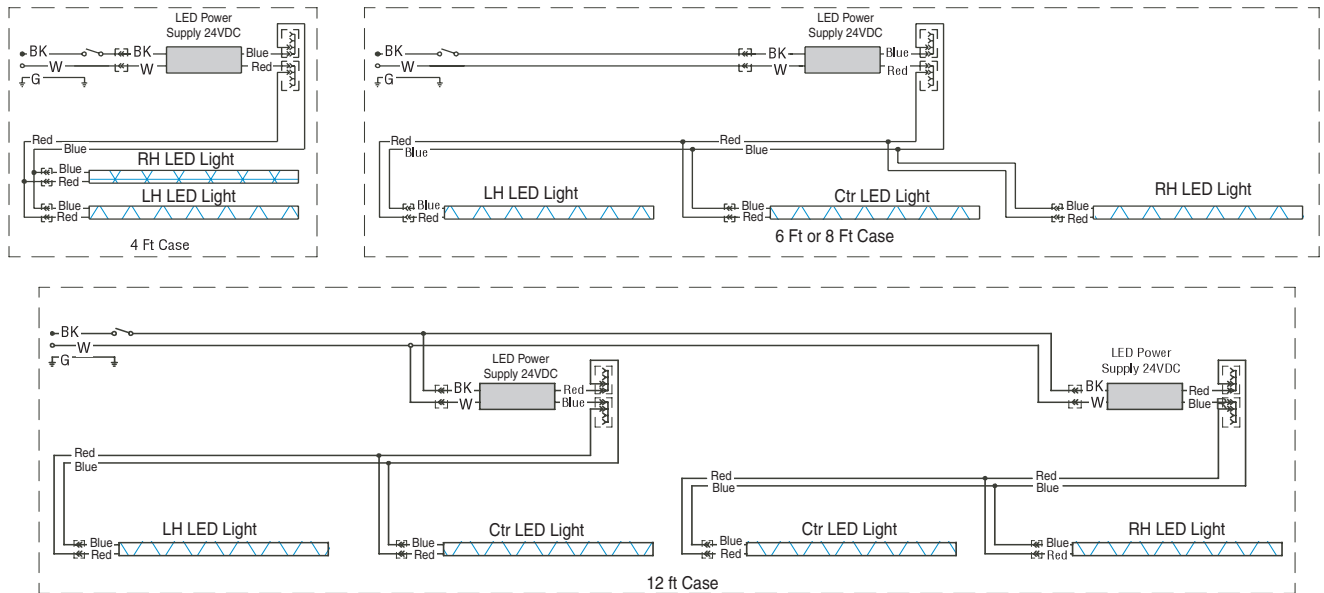


WARNING

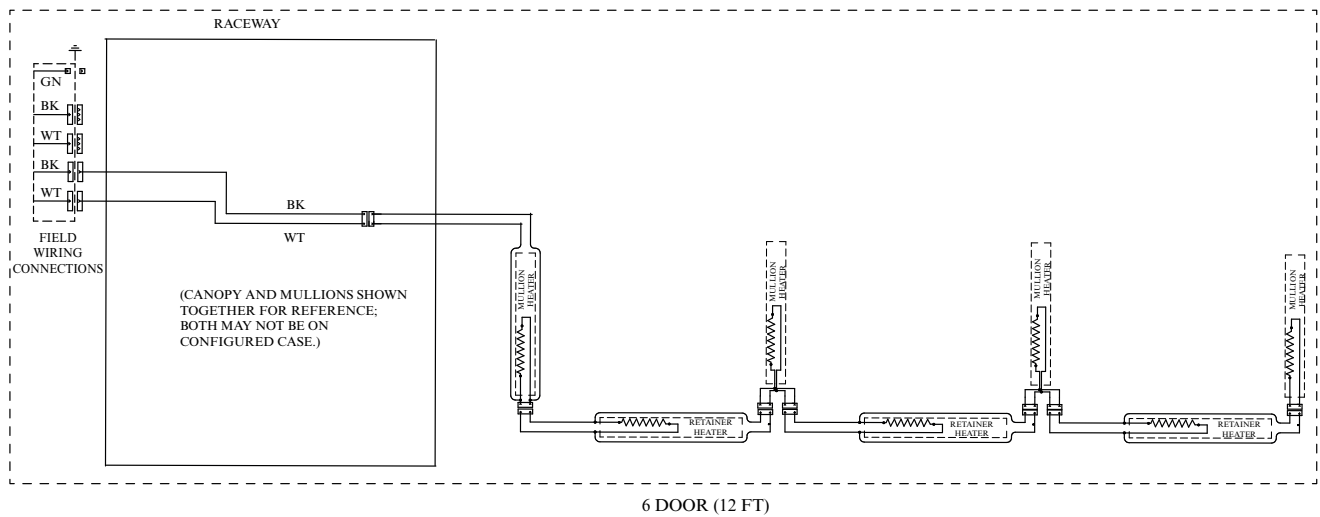
All components must have mechanical ground, and the merchandiser must be grounded.

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
 ● = 120V POWER ○ = 120V NEUTRAL $\frac{1}{2}$ = FIELD GROUND $\overline{\overline{m}}$ = CASE GROUND

Mullion LED Lighting



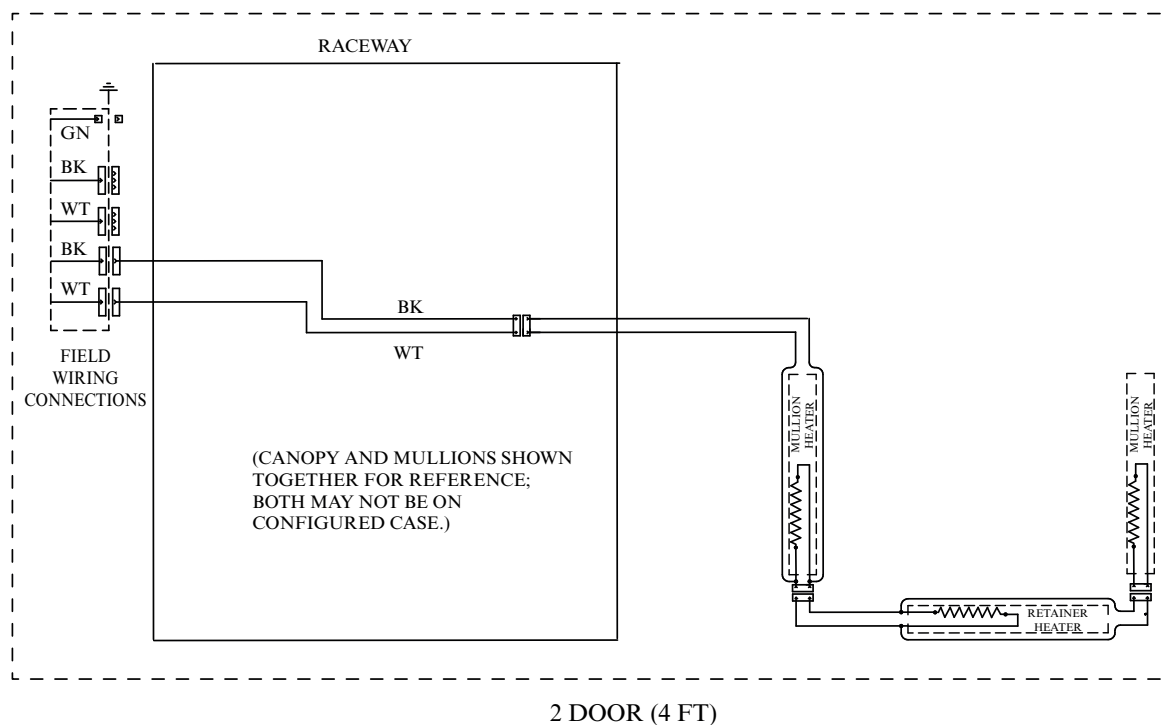
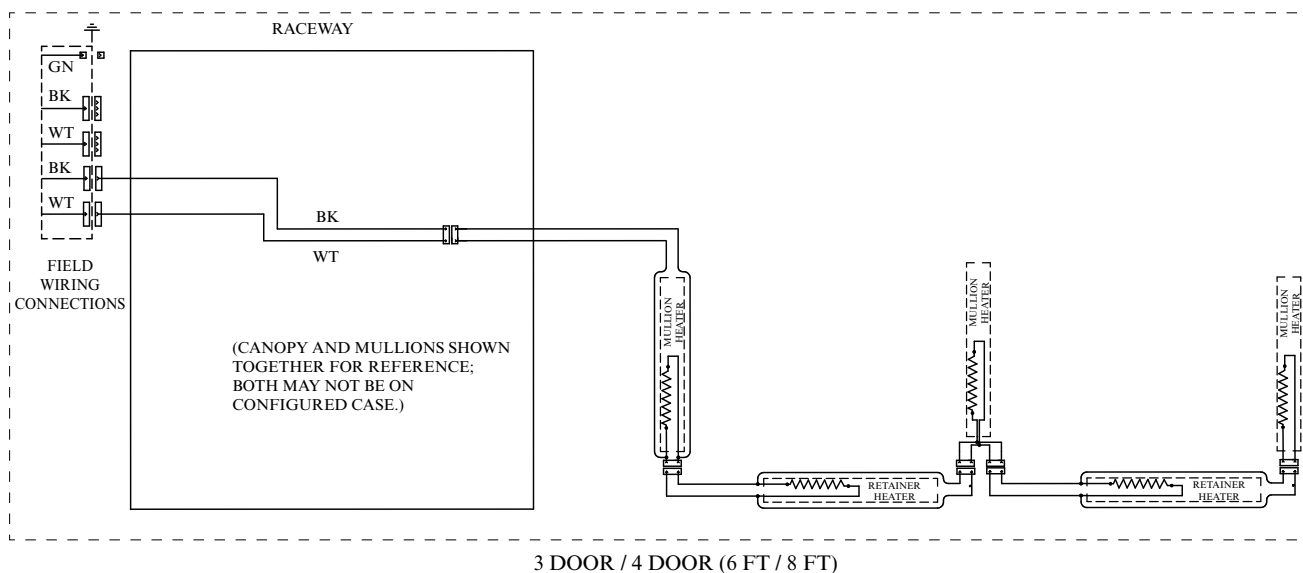
Door Frame Heater EcoVision HA+ Only



WARNING

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

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
 ● = 120V POWER ○ = 120V NEUTRAL $\frac{1}{\text{---}}$ = FIELD GROUND --- = CASE GROUND



WARNING

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

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
 ● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

Estimating Refrigeration and Electrical Load (for comparison purposes only)

Case Btu

To determine Btu for a case, refer to the performance data chart on Page 2. Select lit or unlit shelves, then select the type of remote refrigeration system (parallel or conventional), which will give Btu/hr/ft. Multiply this number by the length of the case to determine Btu per hour.

Case Electrical

Refer to store legend to determine number of circuits. Lighting should be specified in store legend.

Fan electrical load for a case is computed by selecting the case length and fan voltage on Page 6. For example, a 12 ft case uses 3 fans. The store legend specifies fans on a 230V circuit. In this instance, fans use 0.50 Amps and the MCA is 0.70. When applied, ambient fans, anti-sweat heaters, controllers, etc. must be included in the MCA. Include lights in the MCA if lights are on same circuit.

Lights may be on a separate circuit. To estimate lighting load: select case length (12 ft), canopy lighting [standard or optional] (here 0.70 for standard), and mullion lighting [maximum for which case is wired] (0.57 for EcoShine II 48 mullion lights); then add together [$0.48 + 0.57 = 1.05$ amps for 120V] (for 230V, multiply $1.05 * 0.52 = 0.55$).

Line Sizing — Refer to store legend.

Hussmann Line Sizing Charts are engineered for use with Hussmann refrigeration equipment.



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

Revision History

Revision A: January 2017: Original Issue.

Revision B: April 2017: Updated LED energy values.

Revision C: April 2017: Updated LED energy values.

Revision D: September 2017: Updated notes page.

Revision E: May 2018: Updated lighting information.

Revision F: January 2023. Added CO₂ note, Page 2.