HUSSMANN®

Insight® IDD5SL-TE

Dairy / Delicatessen / Beverage

with EcoVision Doors

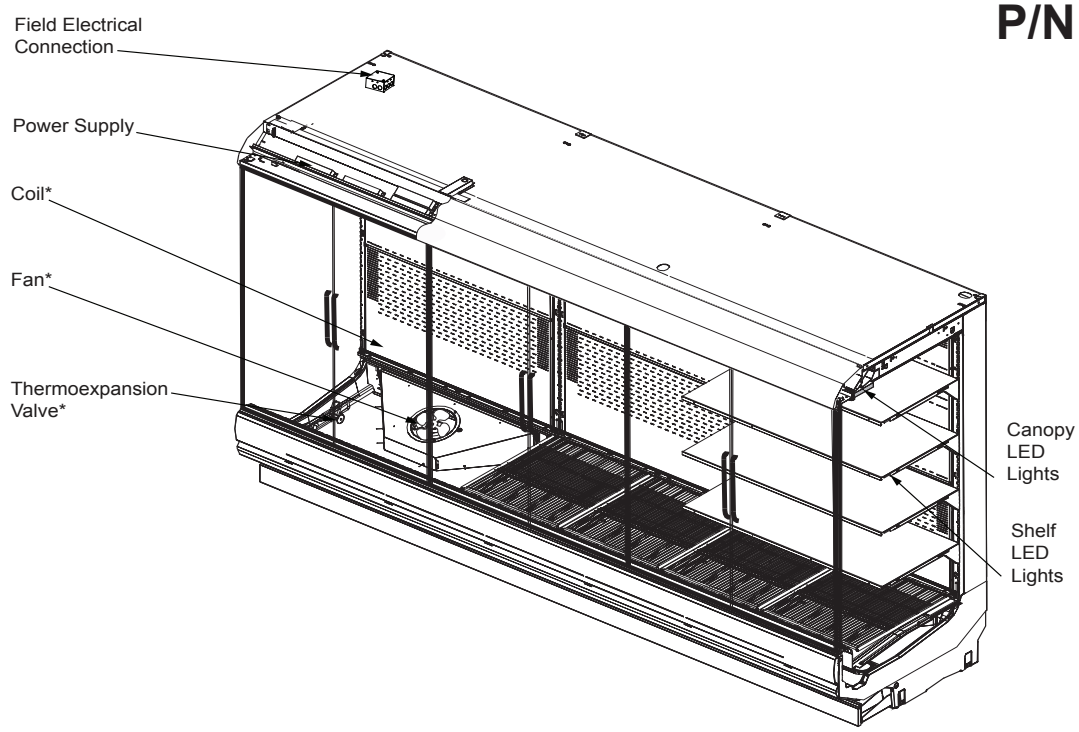
Merchandiser Data Sheet

P/N 3194489_A

NSF® Certified

January 2024

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



DOE 2017 Energy Efficiency Compliant

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

Portion of parts removed for clarity.

12 foot merchandiser shown.

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

NSF Certification

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

Spanish P/N 3194490

Insight IDD5SL-TE
Dairy / Delicatessen

Refrigeration Data [1]

IDD5SL-TE		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)	37 (2.77)	36 (2.22)	34 (1.11)	34 (1.11)	33 (0.55)	37 (2.77)
	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)	180 (173)	200 (192)	215 (207)	225 (216)	280 (269)	180 (173)
	Conventional Btu/hr/ft (Watts/m)	185 (178)	205 (197)	220 (212)	230 (221)	285 (274)	185 (178)
Lit Mullions	Discharge Air °F (°C)	36 (2.22)	35 (1.66)	33 (0.55)	33 (0.55)	32 (0)	36 (2.22)
	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)	194 (187)	214 (206)	228 (220)	238 (229)	292 (280)	194 (187)
	Conventional Btu/hr/ft (Watts/m)	200 (192)	220 (212)	235 (226)	245 (236)	300 (288)	200 (192)
Fan Speed	IDD5SL6 (8.25")	1300	1300	1300	1300	1300	1300
	IDD5SL4, 8, 12 (8.25")	1300	1300	1300	1300	1300	1300

Notes:
1. 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.
2. 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.
3. 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).
4. Hussmann Peg Shelves for Dairy/Deli applications only.
5. Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
6. AHRI 1200 Rating Point for energy consumption comparison only.

Defrost Data

	Type 1	Harsh Environment
Frequency (hours between defrost)	24	12
Offtime **Time (minutes)**	40	30
Electric or Gas	Not Available	
Defrost Water [7]	1.0 lb/ft/day (1.5 kg/m)	1.5 lb/ft/day (2.3 kg/m)

[7] (± 15% based on case confi guration and product loading).

Conventional Controls

	IDD5SL-TE
Low Pressure Backup Control CI/CO [8]	26°F / 16°F –3.3°C / –8.9°C
Indoor Unit Only, Pressure Defrost Termination	48°F (8.89°C)

[8] Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge [9]

	IDD5SL		
4 ft	0.6 lb	10 oz	0.3 kg
6 ft	1.1 lb	18 oz	0.5 kg
8 ft	1.5 lb	24 oz	0.7 kg
12 ft	2.9 lb	46 oz	1.3 kg

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

Product Data

Gross Refrigerated Volume [10] ***(Cu Ft/Ft)***	11.6 ft^3/ft (1.08 m^3/m)
AHRI Total Display Area [11] **(*Sq Ft/Ft)***	4.29 ft^2 /ft (1.31 m^2/m)
Shelf Area [12] ***(Sq Ft/Ft)***	9.85 ft^2 /ft (3.00 m^2/m)

[10] AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft^3/ft [m^3/m]
[11] Computed using AHRI 1200 standard methodology: Total Display Area, ft^2 [m^2]/Unit of Length, ft [m]
[12] Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (4) rows of 22-in. shelves

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DOE 2017 Energy Efficiency Compliant

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:

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

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

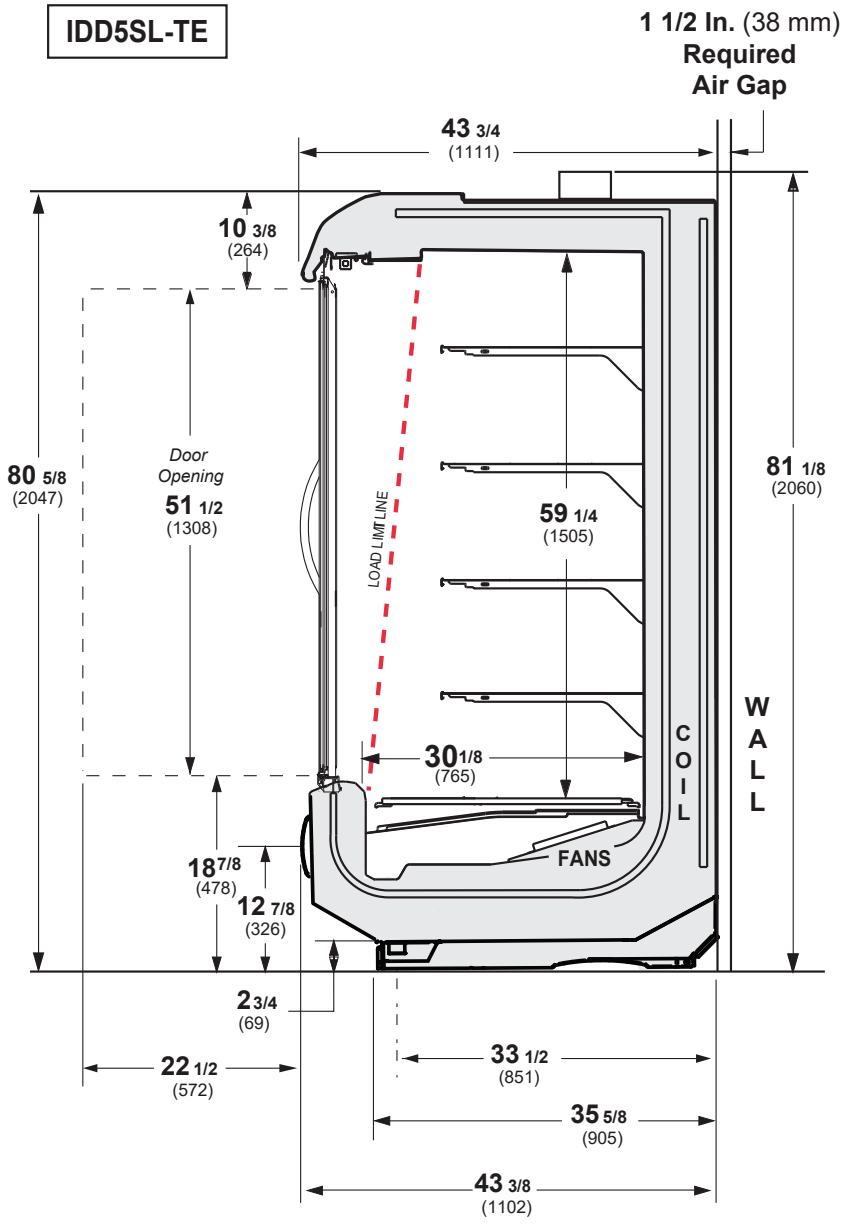
A minimum 1 ½-in clearance required to remove raceway cover, 6 ½-in for full access. See the Installation manual for instructions.

3-in. between back to back cases.

Shown with Ellipse Option Canopy and Bumper.

Dimensions shown as in. and (mm).

IDD5SL-TE



NSF Certification

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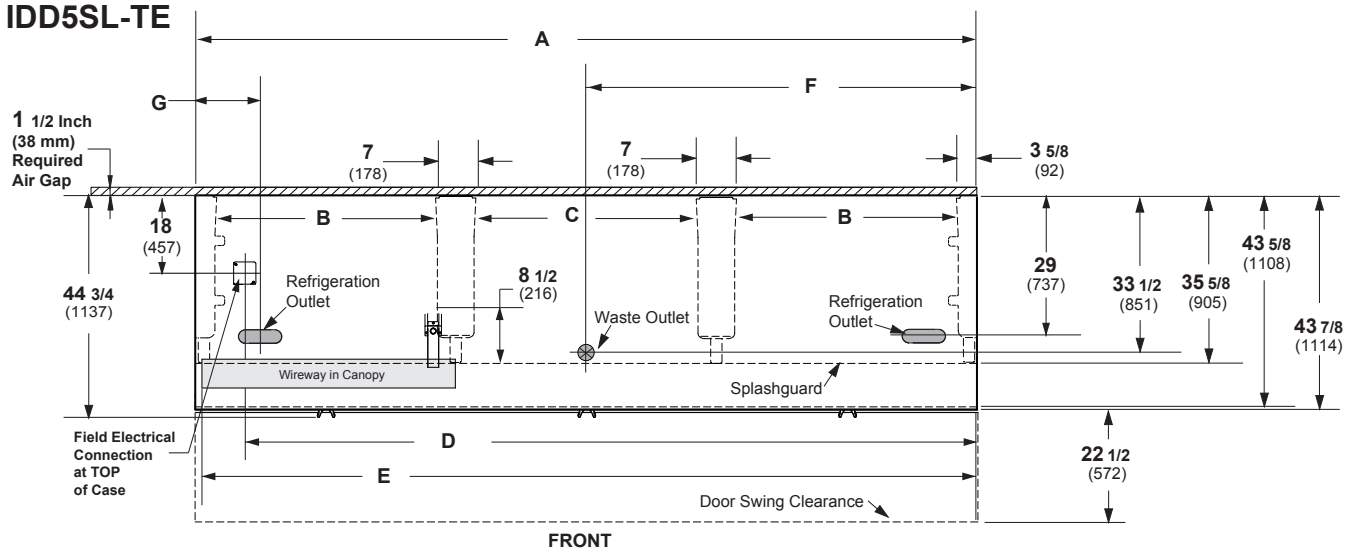
Engineering
Plan View

Dimensions shown as in. and (mm).

IDD5SL-TE



(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 (3668)
	Maximum O/S dimension of case back to front *(includes bumper)*	43 5/8 (1108)	43 5/8 (1108)	43 5/8 (1108)	43 5/8 (1108)
	Back of case to front of splashguard	35 5/8 (905)	35 5/8 (905)	35 5/8 (905)	35 5/8 (905)
(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)
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**
8.25-in.	1	2	2	3

			Amperes				**Watts**			
Evaporator Fan			**4 ft**	**6 ft**	**8 ft**	**12 ft**	**4 ft**	**6 ft**	**8 ft**	**12 ft**
120V	60Hz	Energy Efficient	0.25	0.50	0.50	0.75	16	32	32	48
230V	50/60Hz	Energy Efficient	0.13	0.26	0.26	0.39	16	32	32	48
Minimum Circuit Ampacity										
120V	60Hz	Energy Efficient	0.45	0.70	0.70	0.95				
230V	50/60Hz	Energy Efficient	0.33	0.46	0.46	0.59				
Maximum Over Current Protection 120V			**20**	**20**	**20**	**20**				
Maximum Over Current Protection 230V			15	15	15	15				

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.

STANDARD LED LIGHTING								
LED Canopy Lights								
1 Row	0.16	0.22	0.31	0.47	19	27	38	57
Shelf								
None								
Optional LED Mullion Lights								
48-in.	0.22	0.39	0.39	0.56	27	47	47	67

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting
230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

FRAME ANTI-CONDENSATE HEATERS								
(Only with EcoVision HA+ Door Option)	0.39	0.59	0.64	0.88	46	69	74	103

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

ESTIMATED SHIPPING WEIGHT †

Case					**Solid End**
	4 ft	***6 ft***	***8 ft***	***12 ft***	***(each)***
lb *(kg)*	760 (345)	920 (417)	1110 (504)	1260 (572)	80 (36)

† 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: 3

Optimal number of Shelves: 4

Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 0

Standard shelf complement for test purposes: (4) 22-in. shelves, evenly distributed vertically

Fan Wiring
Offtime Defrost

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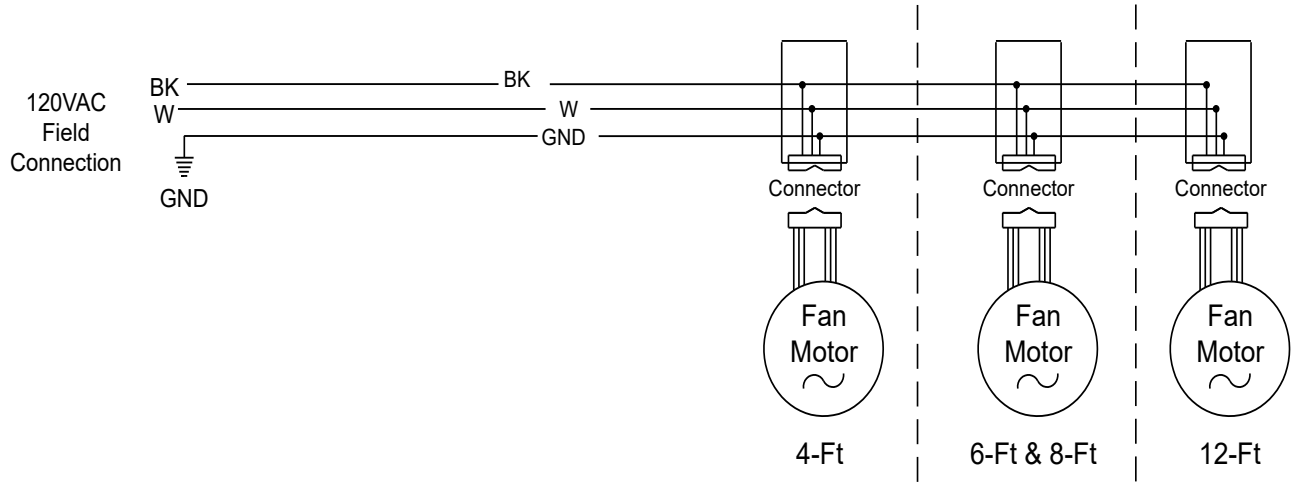
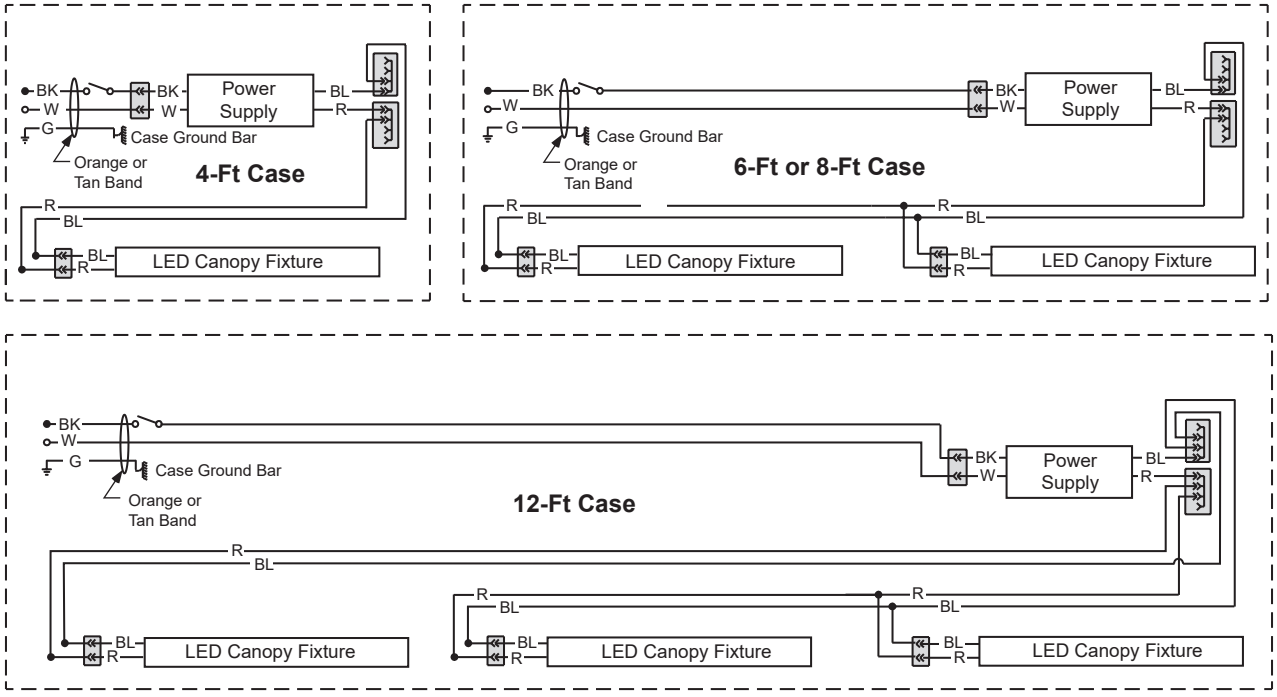


LED Canopy Light Circuits

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 ⏚ = Field Ground ⫽⫽⫽ = Case Ground

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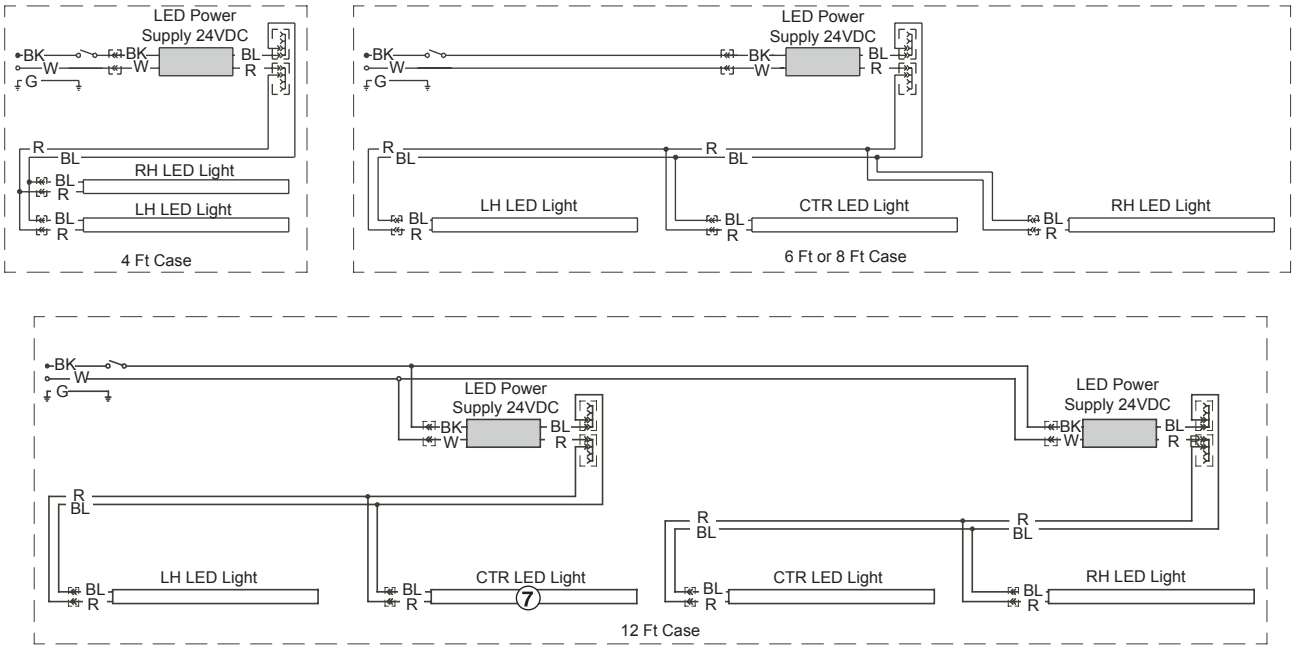
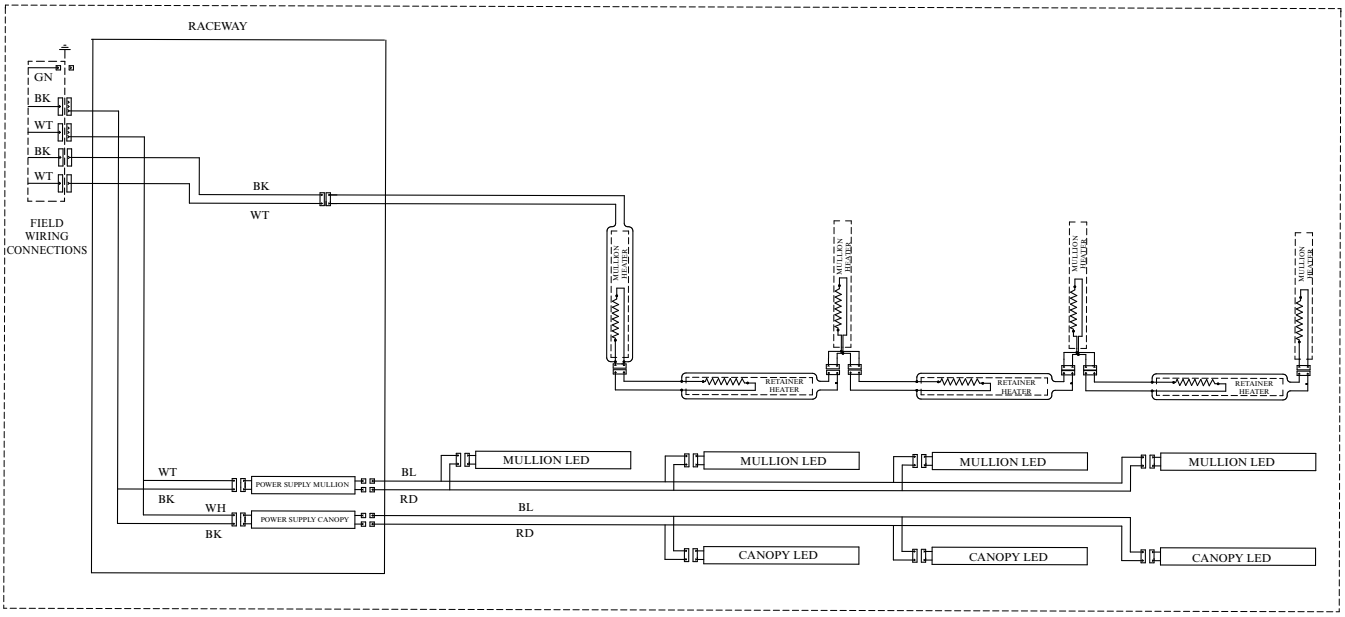
Mullion LED Lighting



Door Frame Heater
EcoVision HA+ Only



6 DOOR (12 FT)

WARNING

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Door Frame Heater
EcoVision HA+ Only

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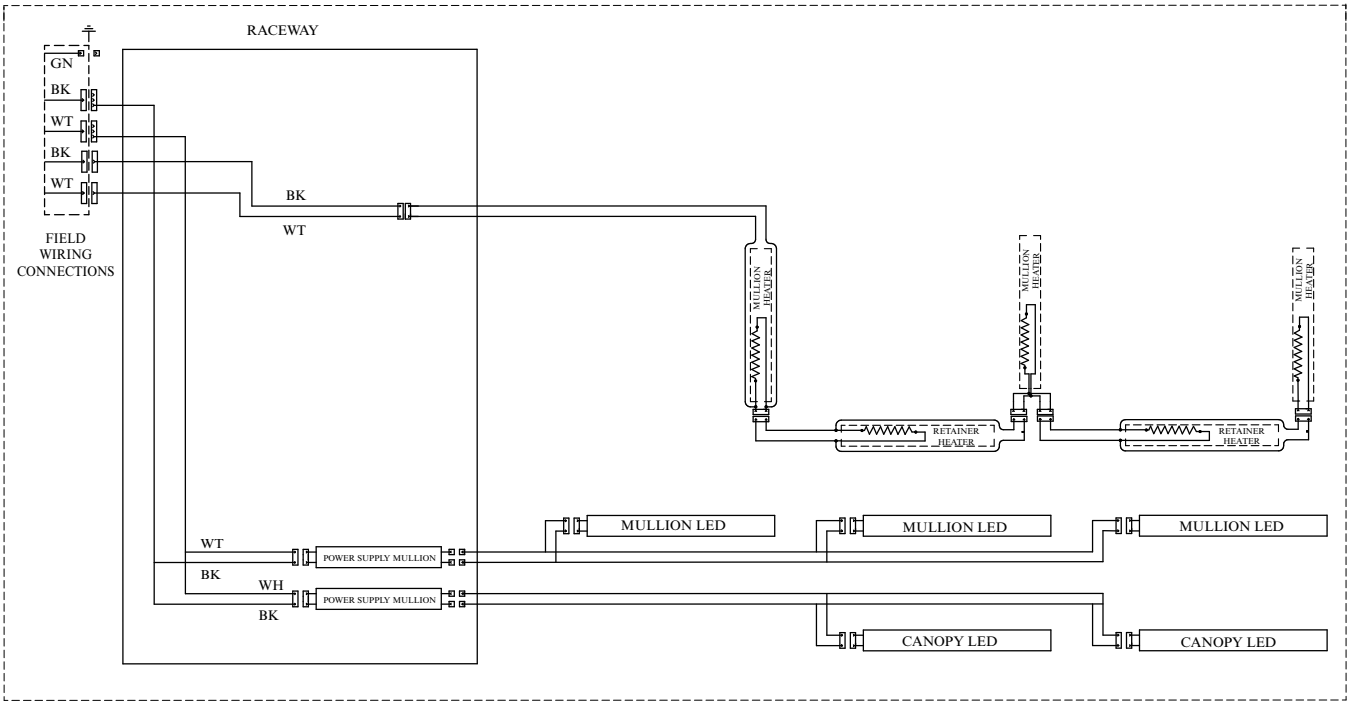
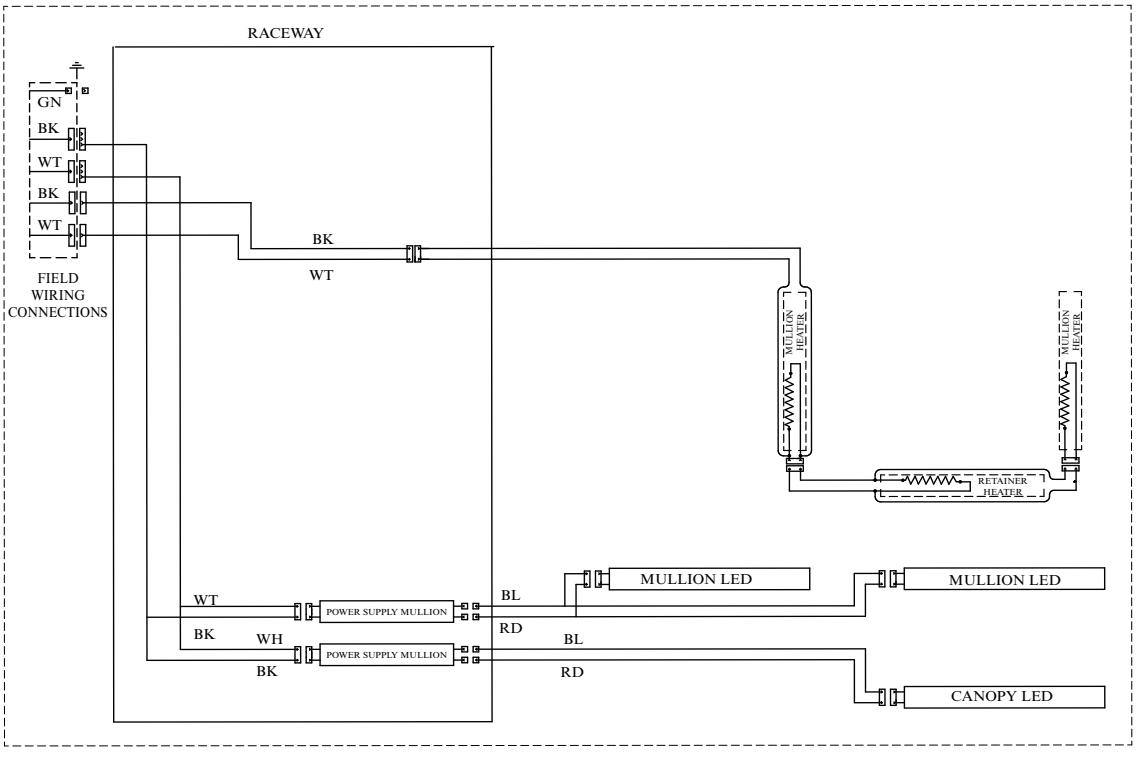


3 DOOR / 4 DOOR (6 FT / 8 FT)



2 DOOR (4 FT)

WARNING

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

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● = 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. Add 10 BTU/HR/FT for LED Mullion Lights.

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 0.39 Amps and the MCA is 0.59. 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 the QR code with your mobile device to access additional product information or order parts.

Parts may also be ordered at:
parts.hussmann.com
Call toll free: 1.855.487.7778

Revision History

Revision A: January 2024: Original Issue