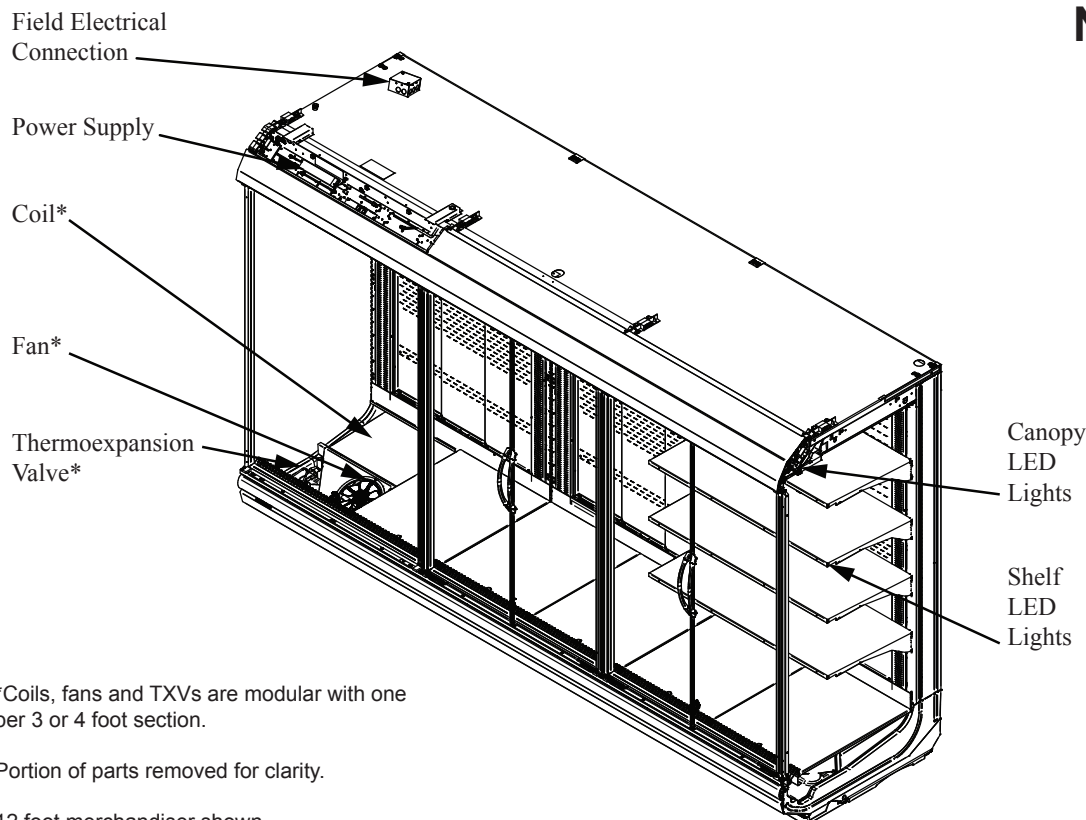


*Insight standard field electrical connections
are at the top left of the merchandiser*



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

Portion of parts removed for clarity.

12 foot merchandiser shown.

The rear of this merchandiser must be exposed to a refrigerated cooler for proper performance.

NSF Certification

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

IMPORTANT

**ONE FLOOR DRAIN IS
REQUIRED FOR EACH CASE.**

Performance Data	Page 2	Shelf Options	Page 7
Product Data (AHRI Statistics)	Page 2	Wiring Diagrams	Page 8
Cross Section	Page 3	Rear Views	Page 11
Plan View	Page 4	Computing Refrigeration and Electrical Load	Page 12
Electrical Loads	Page 6	QR Code and Revision History	Page 12
Estimated Shipping Weights	Page 7		

Data sheet-Insight IDD6SU-R

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.

Insight **IDD6SU-R**
Dairy / Delicatessen / Beverage

Refrigeration Data ¹

IDD6SU-R		Optimal Shelf Life			Energy Comparison
Application		Dairy/Deli/ Beverage/ Produce	NSF Type 2 Ambient ³	Harsh Environment	AHRI 1200 Rating Point ⁴
Unlit Mullions	Discharge Air °F (°C)	36 (2.22)	36 (2.22)	36 (2.22)	38 (3.33)
	Average Evaporator °F (°C) ²	34 (1.11)	34 (1.11)	33 (0.55)	35 (1.66)
	Parallel Btu/hr/ft (Watts/m)	350 (337)	403 (388)	515 (495)	311 (299)
	Conventional Btu/hr/ft (Watts/m)	360 (346)	415 (399)	530 (510)	320 (308)
Lit Mullions	Discharge Air °F (°C)	36 (2.22)	36 (2.22)	36 (2.22)	38 (3.33)
	Average Evaporator °F (°C) ²	33 (0.55)	33 (0.55)	33 (0.55)	35 (-1.66)
	Parallel Btu/hr/ft (Watts/m)	374 (360)	423 (407)	535 (514)	331 (318)
	Conventional Btu/hr/ft (Watts/m)	385 (370)	435 (418)	550 (529)	340 (327)
Fan Speed ⁵	IDD6SU6R (2 x 8.25")	1600 ⁵	1600 ⁵	1600 ⁵	1600 ⁵
	IDD6SU4R, 8R, 12R (2 x 8.25")	1600 ⁵	1600 ⁵	1600 ⁵	1600 ⁵

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. Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
4. AHRI 1200 Rating Point for energy consumption comparison only.
5. Some lengths and/or applications require optional fan motor kits applied by the Hussmann Product Configurator (HPC).
6. This application data is based on testing with the rear of the case exposed to a 38°F cooler. A cooler is required for proper case performance.

Defrost Data

Frequency (hours between defrost)	24
Defrost Water ⁷	1.5 lb/ft/day (2.2 kg/m)
⁷ (± 15% based on case configuration and product loading).	
OFFTIME Time (minutes)	IDD6SU-R 40
ELECTRIC OR GAS	Not Available

Conventional Controls

IDD6SU-R
Low Pressure Backup Control CI/CO ⁸
26°F / 16°F -3.3°C / -8.9°C
Indoor Unit Only, Pressure Defrost Termination ⁸
48°F (8.9°C)

⁸ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ⁹ IDD6SU-R

4 ft	0.7 lb	11.2 oz	0.3 kg
6 ft	1.2 lb	19.2 oz	0.5 kg
8 ft	1.6 lb	25.6 oz	0.7 kg
12 ft	3.1 lb	49.6 oz	1.4 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)	13.2 ft ³ /ft (1.23 m ³ /m)
AHRI Total Display Area ¹¹ (Sq Ft/Ft)	5.36 ft ² /ft (1.63 m ² /m)
Shelf Area ¹² (Sq Ft/Ft)	11.69 ft ² /ft (3.56 m ² /m)

¹⁰ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹¹ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

¹² Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 22-in. shelves

Insight Multideck Merchandiser, EcoVision Doors,
6 Display Levels, Standard Bottom, Ultra Low Height
Front, Rear Load

Insight IDD6SU-R
Dairy / Delicatessen / Beverage

DOE 2017
Energy Efficiency
Compliant

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).

Shelf complement shown as tested:

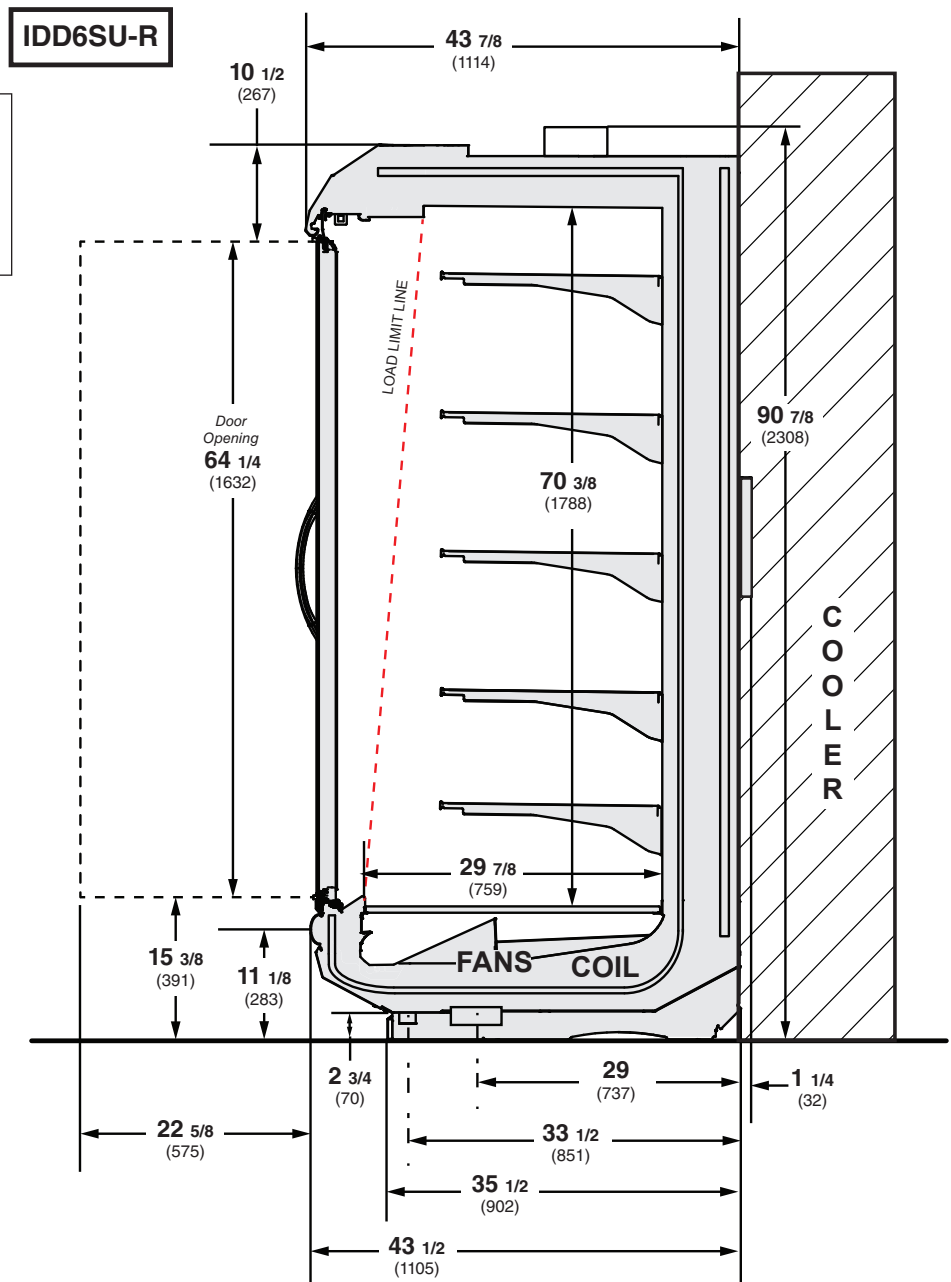
Five rows of 22-in. shelves spaced equally between bottom display pan and interior top panel.

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

A minimum 1 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.

Shown with Ellipse Option Canopy and Bumper.



NSF Certification

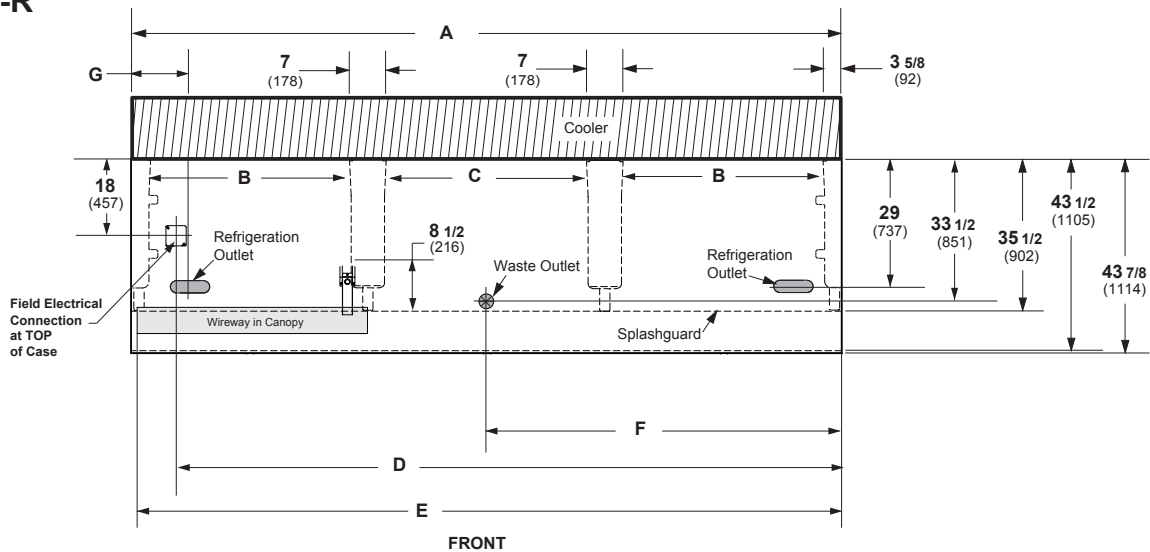
This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.

Engineering Plan View

IDD5SU-R/
IDD6SU-R

**WARNING: Floor Drain must be located within 24 inches of Waste Outlet.
See page 5 for Drain Extension Option
(must be used with hub-style floor drains).**

Dimensions shown as in. and (mm).



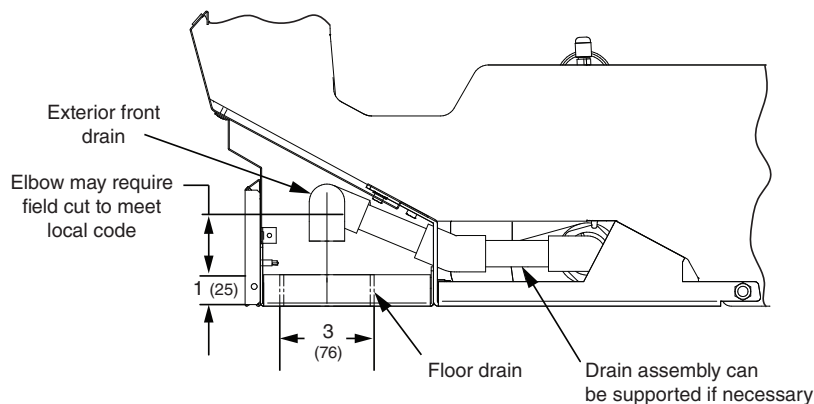
(12 Foot Model shown above)

	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 (3668)
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 (see page 5 for drain extension option)				
(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)
Floor Drain must be located within 24 inches of Waste Outlet.				
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)

Waste Outlet Drain Extension Option

Insight IDD6SU-R
Dairy / Delicatessen / Beverage

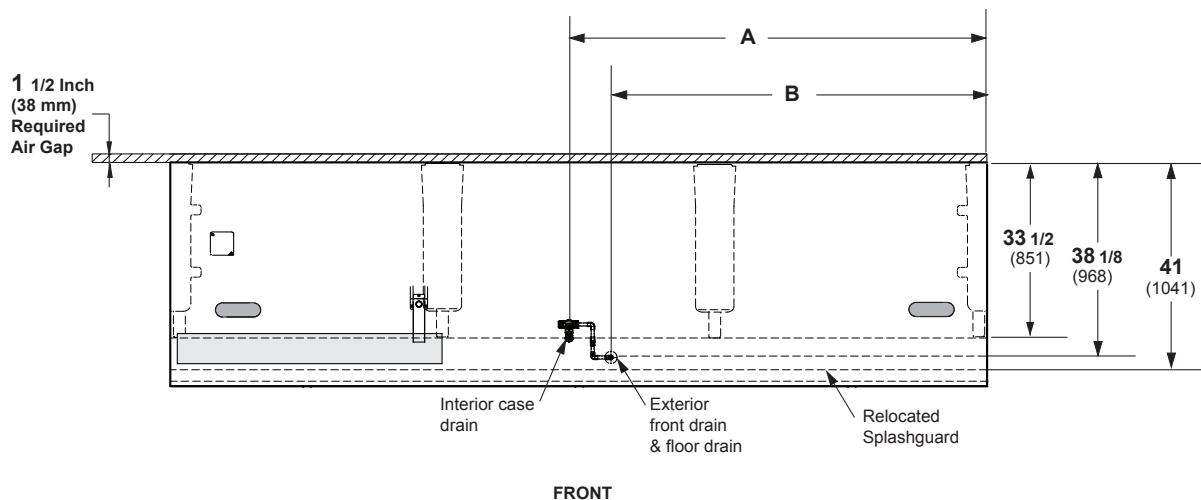
Drain Extension Option (Partial End View)



IMPORTANT: If hub drain is used in lieu of flush floor sink, a drain extension kit must be installed. Hub drains must be located in front of the waste outlet to achieve adequate air gap.

Engineering Plan View

Dimensions shown as in. and (mm).



(12 Foot Model shown above)

	4 ft	6 ft	8 ft	12 ft
Waste Outlet Drain Option				
(A) RH of case to center of interior case drain	24 1/8 (613)	24 1/8 (613)	24 1/8 (613)	72 1/4 (1835)
(B) RH of case to center of exterior front drain and floor drain	13 3/4 (349)	13 3/4 (349)	13 3/4 (349)	61 7/8 (1572)

Electrical Data

Number of Fans	4 ft	6 ft	8 ft	12 ft
8.25 in.	2	4	4	6

				Amperes				Watts			
Evaporator Fan				4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient		0.64	1.28	1.28	1.92	34	68	68	102
230V	50/60Hz	Energy Efficient		0.33	0.67	0.67	1.00	34	68	68	102

Minimum Circuit Ampacity				4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient		0.84	1.48	1.48	2.12
230V	50/60Hz	Energy Efficient		0.53	0.87	0.87	1.20

Maximum Over Current Protection				4 ft	6 ft	8 ft	12 ft
120V				20	20	20	20
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.

					Amperes		Watts					
					4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
LED LIGHTING												
Standard LED Canopy Lights												
1 Row LED Canopy (Standard)					0.16	0.22	0.31	0.47	19	27	38	57

Shelf
None

Mullion				4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
60-in.				0.28	0.50	0.50	0.72	33	60	60	87

Frame Anti-Condensate Heaters				4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
(Only with EcoVision HA+ Door Option)				0.41	0.63	0.68	0.94	56	82	88	121

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)	1030 (467)	1260 (572)	1490 (676)	1950 (885)	90 (41)

† 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.

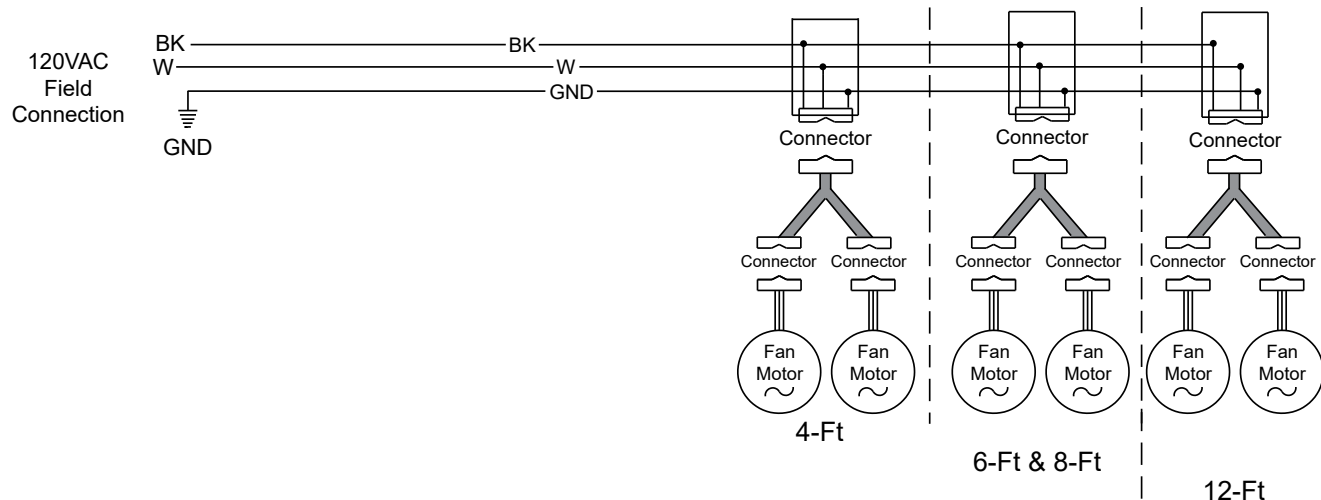
Minimum number of Shelves: 4

Optimal number of Shelves: 5

Maximum number of Shelves: 8

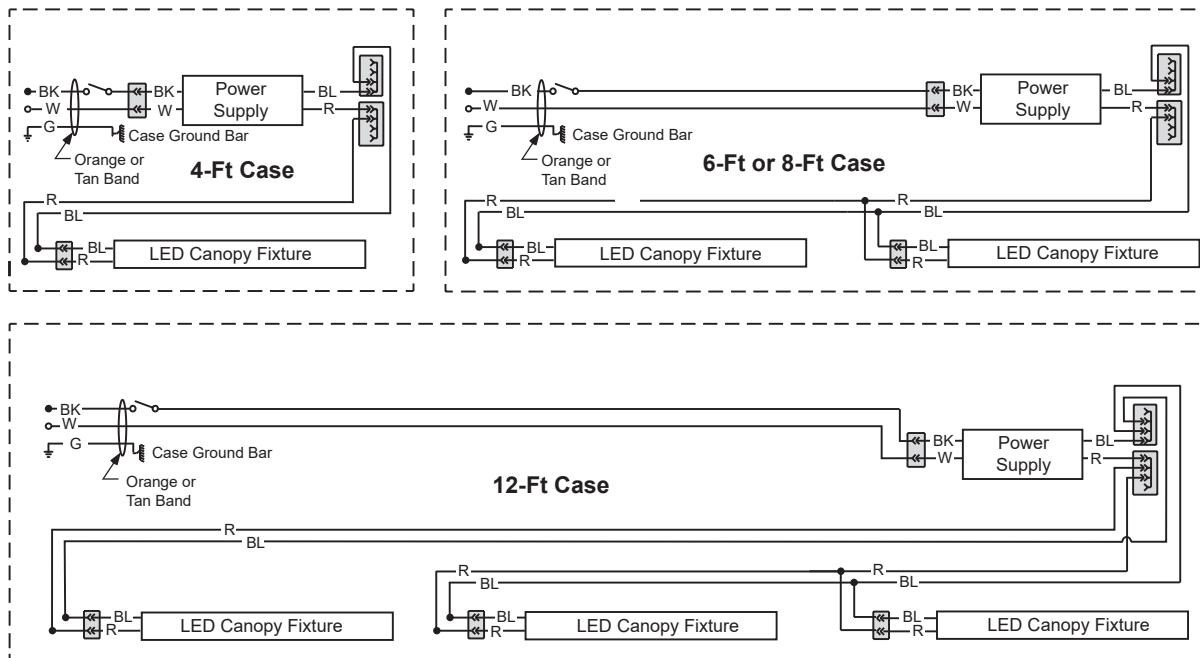
Maximum number of Lighted Shelves: 0

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



LED Canopy Light Circuits

LED Canopy Lighting — 1 Row

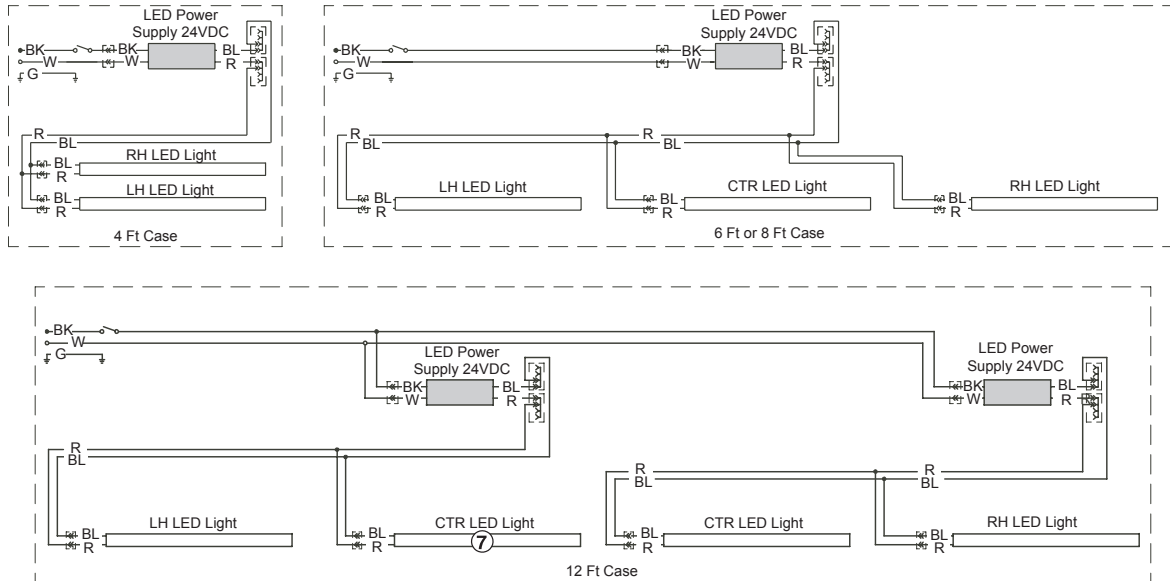


WARNING

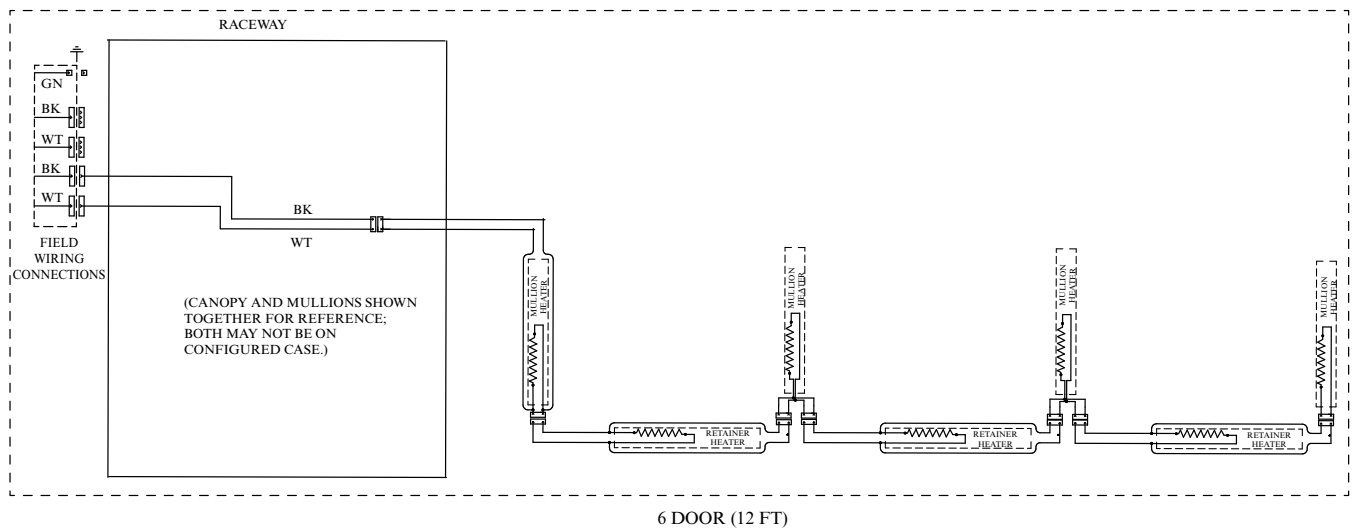
All components must have mechanical ground, and the merchandiser must be grounded.

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

Mullion LED Lighting





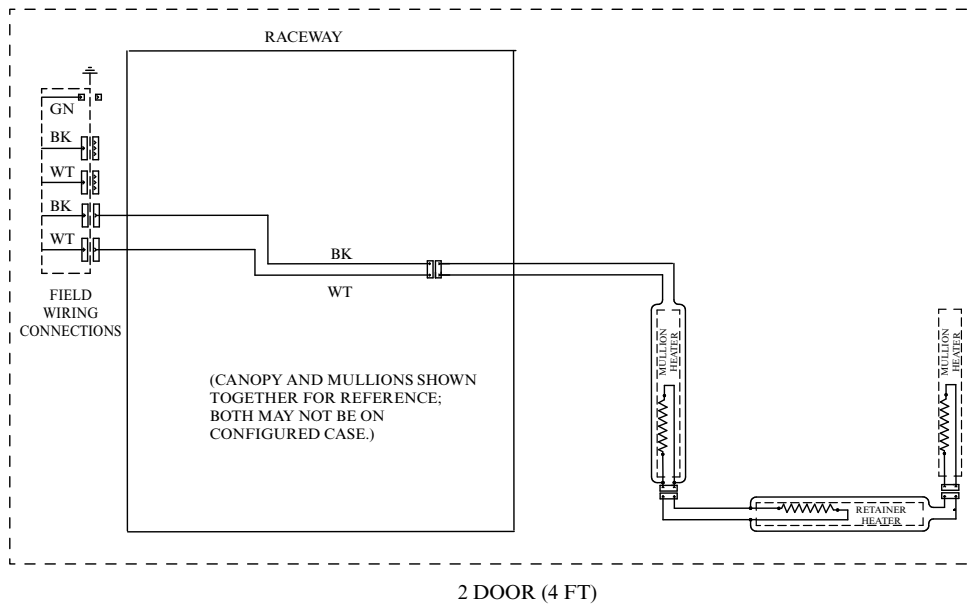
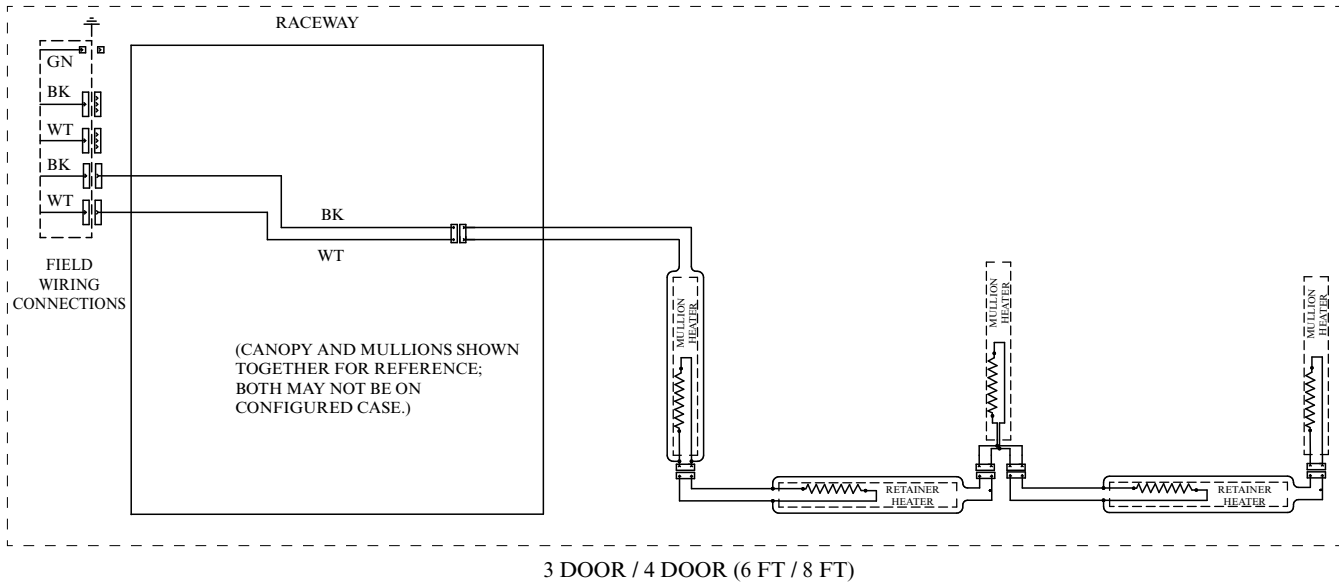
Door Frame Heater EcoVision HA+ Only



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  = FIELD GROUND  = CASE GROUND

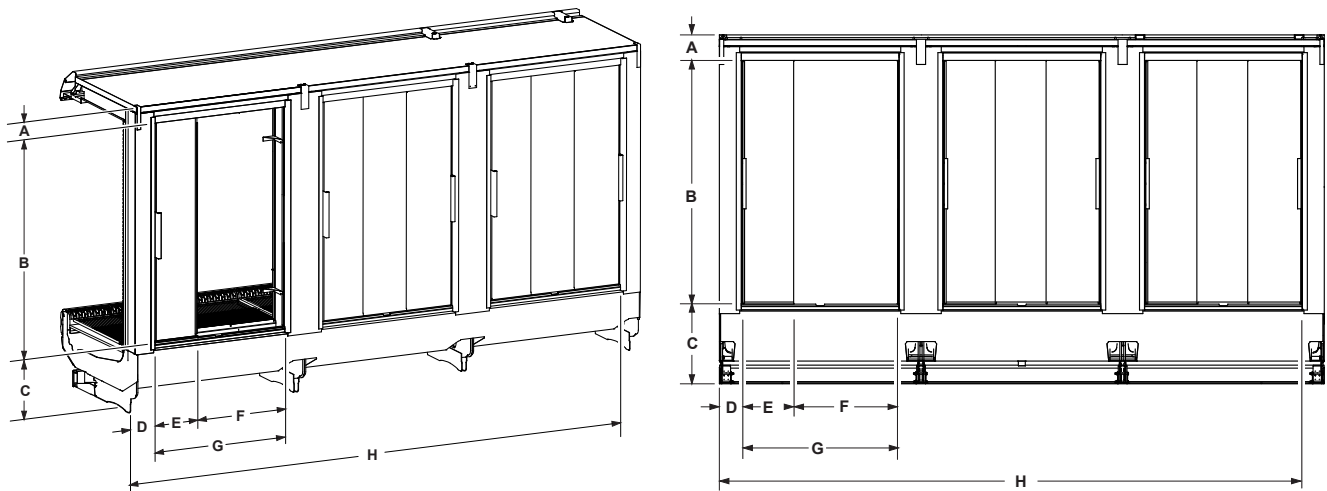


WARNING

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

Rear Views



Dimensions shown as in. and (mm).

Item	Merchandisers			
	4 Ft	6 Ft	8 Ft	12 Ft
A	6 1/8 (155)			
B	67 1/4 (1708)			
C	16 5/8 (422)			
D	5 5/8 (142)			
E	12 1/4 (309)	8 1/8 (206)	12 1/4 (309)	12 1/4 (309)
F	24 7/8 (631)	17 (430)	24 7/8 (631)	24 7/8 (631)
G	37 1/8 (941)	25 1/8 (636)	37 1/8 (941)	37 1/8 (941)
H	42 5/8 (1082)	66 3/4 (1694)	90 3/4 (2305)	138 7/8 (3526)

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

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 1.00 Amps and the MCA is 1.20. 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] (0.74 for EcoShine II 60 mullion lights); then add together $[0.48 + 0.74 = 1.22 \text{ amps for } 120\text{V}]$ (for 230V, multiply $1.22 * 0.52 = 0.63$).

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: September 2016: Original Issue.

Revision B: January 2017: Removed EcoShine "Plus" references.

Revision C: April 2017: Updated LED energy values.

Revision D: April 2017: Updated LED energy values.

Revision E: September 2017: Updated notes page.

Revision F: May 2018: Updated lighting information.

Revision G: December 2023: Updated fan and lighting information. Removed replacement parts page. Updated wiring diagrams.