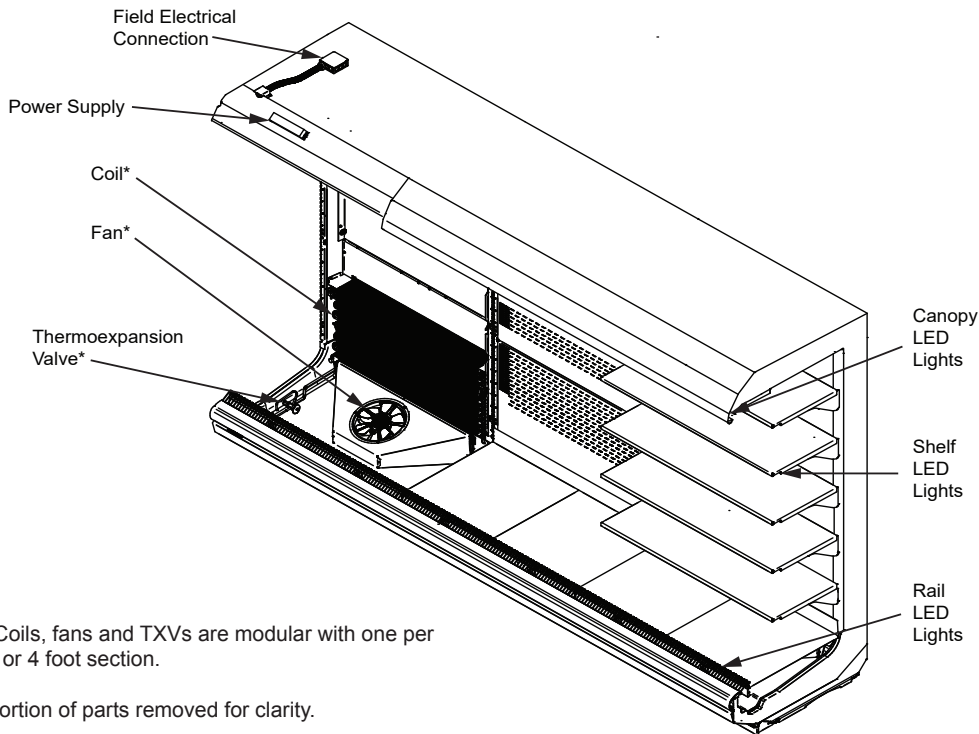


Insight standard field electrical connections are at the top left of the merchandiser



DOE 2017
Energy Efficiency
Compliant



IMPORTANT

DRAIN EXTENSION KIT REQUIRED TO PIPE MULTIPLE CASES TO ONE DRAIN, OR TO USE A RAISED HUB DRAIN. SEE PAGE 5 FOR DETAILS.

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 7
Product Data (AHRI Statistics)	Page 2	Shelf Options	Page 7
Cross Section	Page 3	Wiring Diagrams	Page 8
Plan View	Page 4	QR Code for Parts and Product Information	Page 11
Electrical Loads	Page 6	Revision History	Page 11

Data sheet-Insight ID6NU

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 ID6NU
Dairy / Delicatessen /
Meat

Refrigeration Data ¹

ID6NU		Optimal Shelf Life			Energy Comparison
Application		Dairy/Deli/ Beverage/ Produce ¹	Convertible / Meat ¹	NSF Type 2 Ambient ⁴	AHRI 1200 Rating Point ^{1,5}
Unlit Shelves	Discharge Air °F (°C)	33 (0.6)	33 (0.6)	34 (1.1)	35 (1.7)
	Average Evaporator °F (°C) ^{2,3}	28 (-2.2)	26 (-3.3)	26 (-3.3)	30 (-1.1)
	Parallel Btu/hr/ft (Watts/m)	1380 (1327)	1664 (1600)	1806 (1736)	1334 (1283)
	Conventional Btu/hr/ft (Watts/m)	1505 (1447)	1815 (1745)	1970 (1984)	1455 (1399)
Lit Shelves ⁶	Discharge Air °F (°C)	32 (0)	32 (0)	33 (0.55)	34 (1.1)
	Average Evaporator °F (°C) ^{2,3}	27 (-2.8)	25 (-3.9)	25 (-3.9)	29 (-1.7)
	Parallel Btu/hr/ft (Watts/m)	1389 (1335)	1673 (1609)	1815 (1745)	1343 (1291)
	Conventional Btu/hr/ft (Watts/m)	1515 (1457)	1825 (1755)	1980 (1904)	1465 (1409)
Fan Speed ⁷	ID6NU6 (10.3")	1300	1600 ⁷	1600 ⁷	1300
	ID6NU4, 8, 12 (10.3")	1300	1600 ⁷	1600 ⁷	1300

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 2°F but not more than 5°F. An EPR valve should be used if the system suction temperature is more than 5 degrees below the published case evaporator temperature. 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).
- Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
- AHRI 1200 Rating Point for energy consumption comparison only.
- Add 10 Btu/hr/ft (9.6 Watts/m) per shelf row for LED shelf light fixtures.
- Some lengths and/or applications require optional fan motor kits applied by the Hussmann Product Configurator (HPC).

Defrost Data

Frequency (hours between defrost)	4
Defrost Water ⁸	10.3 lb/ft/day (15.3 kg/m)
⁸ (± 15% based on case configuration and product loading).	
OFFTIME	ID6NU
Time (minutes)	20
ELECTRIC OR GAS	Not Available

Conventional Controls

ID6NU
Low Pressure Backup Control CI/CO ⁹
20°F / 10°F -6.7°C / -12.2°C
Indoor Unit Only, Pressure Defrost Termination ⁹
48°F (8.9°C)

⁹ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ¹⁰

	ID6NU
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

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)	10.8 ft ³ /ft (1.00 m ³ /m)
AHRI Total Display Area ¹² (Sq Ft/Ft)	5.55 ft ² /ft (1.69 m ² /m)
Shelf Area ¹³ (Sq Ft/Ft)	9.58 ft ² /ft (2.92 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 18-in. shelves

Insight Multideck Merchandiser, 6 Display Levels,
Narrow Bottom, Ultra Low Front

Insight ID6NU
Dairy / Delicatessen /
Meat

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.

Dimensions shown as in. and (mm).

ID6NU

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

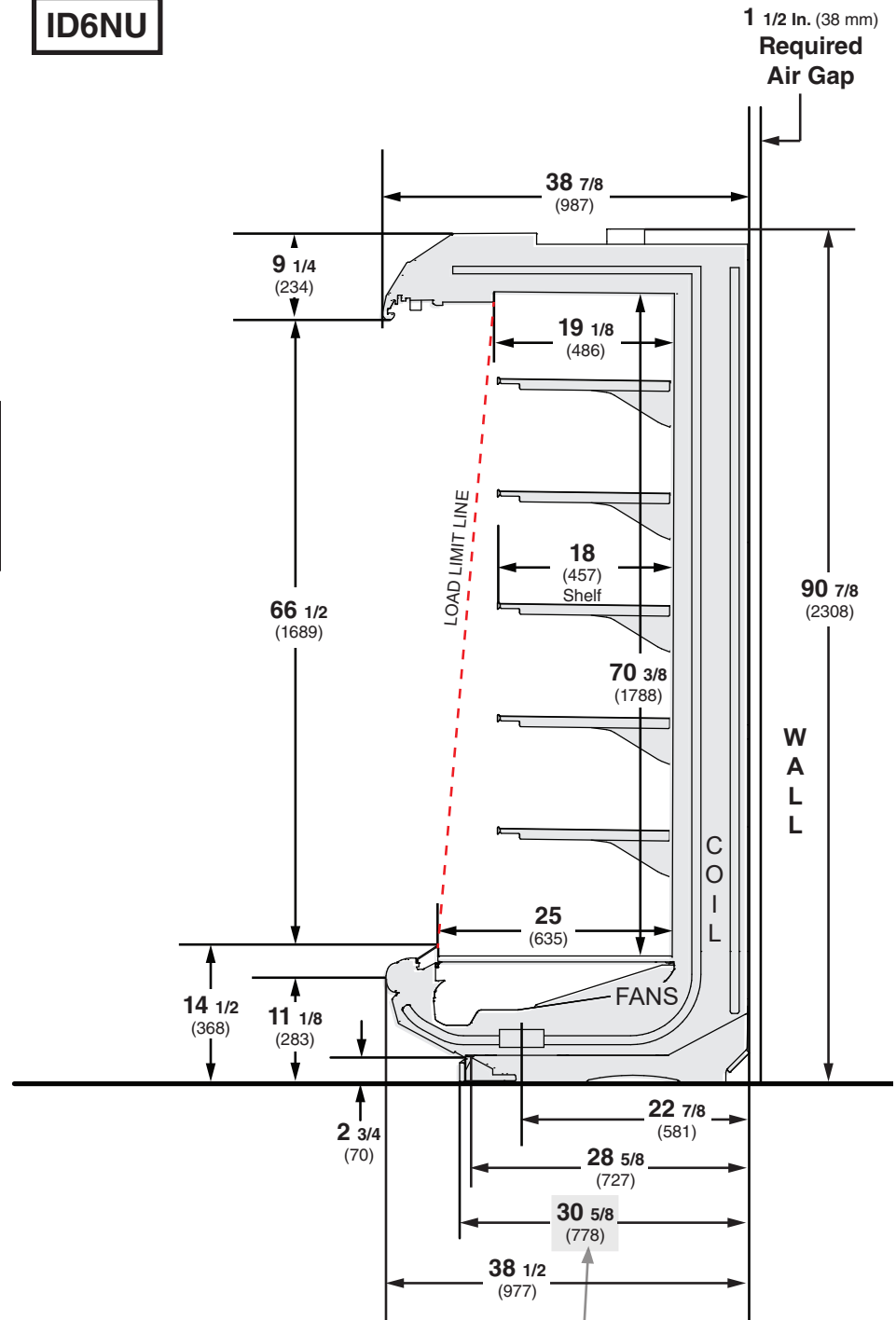
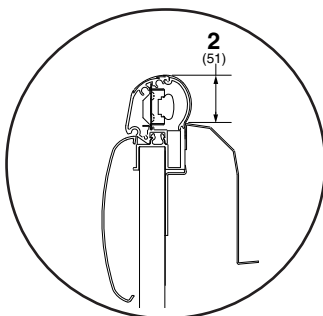
A minimum 1 1/2-in. clearance required to remove raceway cover, 6 1/2-in. for full access. See the Installation manual for instructions.

3-in. between back to back cases.

Shelf complement shown as tested:
Five rows of 18-in. shelves spaced equally between bottom display pan and interior top panel.

Shown with Standard Faceted Canopy.

OPTIONAL RAIL LIGHT



NOTE:

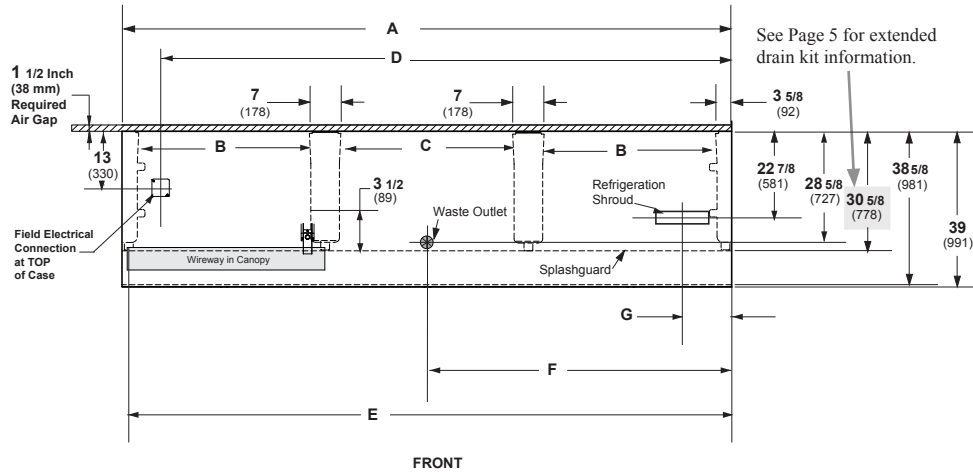
If extended drain kits are used, the distance from back of case (not including air gap) increases to 35 1/8 inches. This may affect floor drain layout. See Page 5 for more details.

Engineering Plan View

**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).

ID6NU



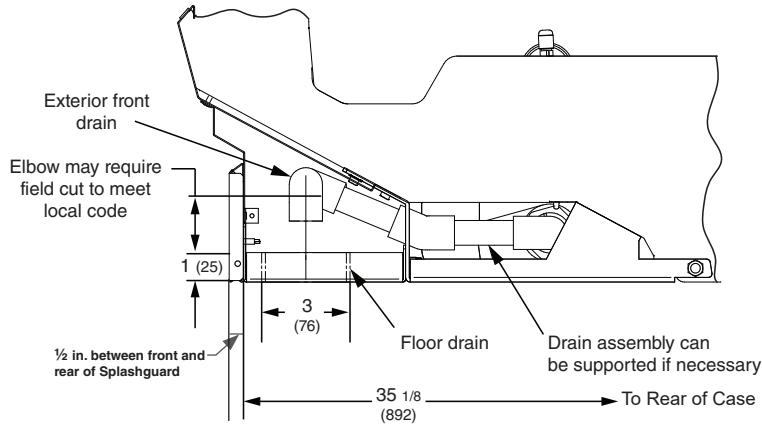
(12 Foot Model shown above)

	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)	38 5/8 (981)	38 5/8 (981)	38 5/8 (981)	38 5/8 (981)
Back of case to front of splashguard	30 5/8 (778)	30 5/8 (778)	30 5/8 (778)	30 5/8 (778)
(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	3 1/4 (83)	3 1/4 (83)	3 1/4 (83)	3 1/4 (83)
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	13 (330)	13 (330)	13 (330)	13 (330)
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)	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)
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 Shroud				
(G) Back of case to center of refrigeration shroud	22 7/8 (581)	21 1/8 (537)*	22 7/8 (581)	22 7/8 (581)
End of case to center of refrigeration shroud	9 1/2 (241)	7 5/8 (194)*	9 1/2 (241)	9 1/2 (241)
*6 foot case at 42° angle, parallel to the plenum.				

Waste Outlet Drain Extension Option

Insight ID6NU
Dairy / Delicatessen /
Meat

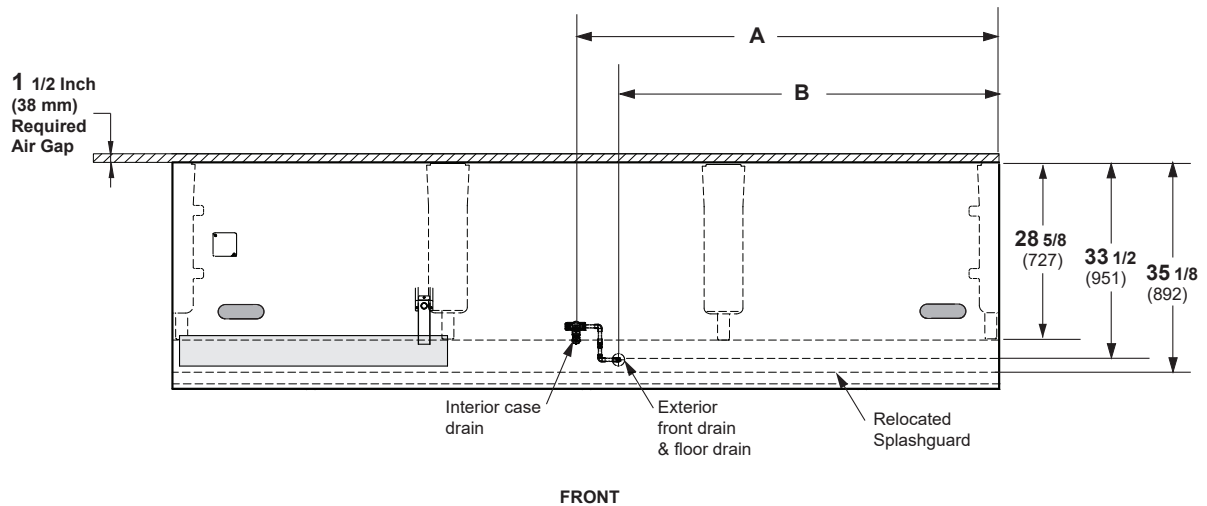
Drain Extension Option (Partial End View)



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)

Insight ID6NU Dairy / Delicatessen / Meat
--

Electrical Data

Number of Fans	4 ft	6 ft	8 ft	12 ft
10.3-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		0.40	0.80	0.80	1.20	24	48	48	72
230V	50/60Hz	Energy Efficient		0.21	0.42	0.42	0.62	24	48	48	72

Minimum Circuit Ampacity						
120V	60Hz	Energy Efficient	0.60	1.00	1.00	1.40
230V	50/60Hz	Energy Efficient	0.41	0.62	0.62	0.82

Maximum Over Current Protection						
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
STANDARD LED LIGHTING											
LED Canopy Lights											
1 Row				0.16	0.22	0.31	0.47	19	27	38	57
OPTIONAL LED LIGHTING											
2 Rows of Canopy Lights				0.32	0.44	0.62	0.94	38	54	76	114
LED SHELF LIGHTING											
1 Row of Shelves				0.06	0.07	0.11	0.17	7	9	13	20
2 Rows of Shelves				0.11	0.15	0.22	0.33	13	18	27	40
3 Rows of Shelves				0.17	0.22	0.33	0.50	20	27	40	60
4 Rows of Shelves				0.22	0.30	0.44	0.67	27	36	53	80
5 Rows of Shelves				0.28	0.37	0.56	0.83	33	44	67	100
6 Rows of Shelves				0.33	0.44	0.67	1.00	40	53	80	120
7 Rows of Shelves				0.39	0.51	0.78	1.17	47	62	93	140
LED Rail Light											
1 Row				0.06	0.07	0.11	0.17	7	9	13	20

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf 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.)	7/8

ESTIMATED SHIPPING WEIGHT †

Case					Solid End
	4 ft	6 ft	8 ft	12 ft	(each)
lb (kg)	850 (386)	1050 (476)	1250 (567)	1650 (748)	100 (45)

† Actual weights will vary according to optional kits included.

Shelf Options

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

- 14-inch
- 16-inch
- 18-inch

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

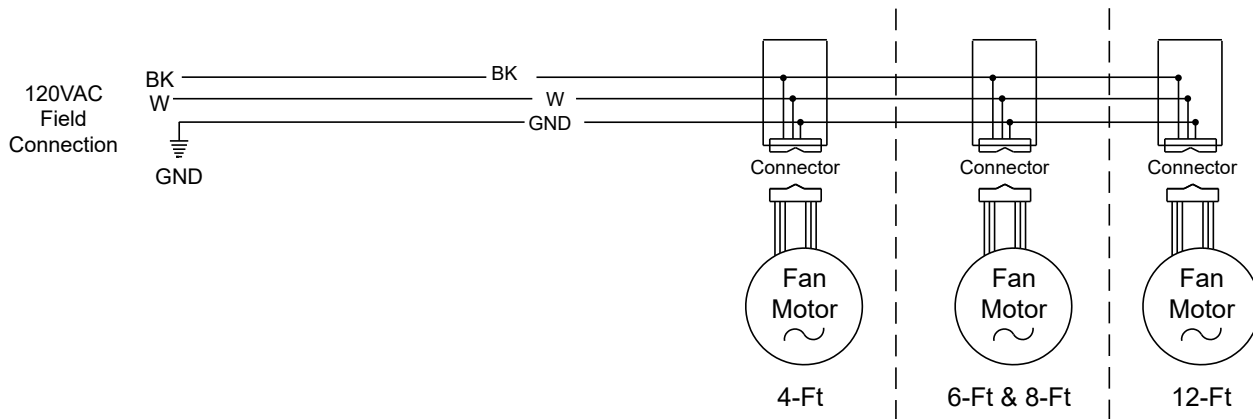
Minimum number of Shelves: 4

Optimal number of Shelves: 5

Maximum number of Shelves: 8

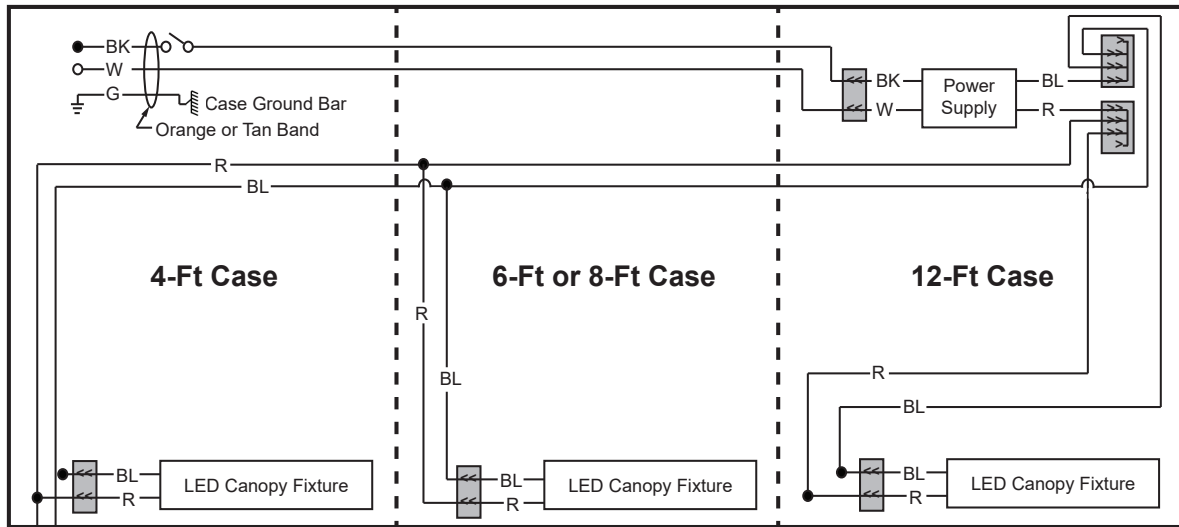
Maximum number of Lighted Shelves: 7

Standard shelf complement for test purposes: (5) rows of 18-in. shelves evenly distributed vertically.

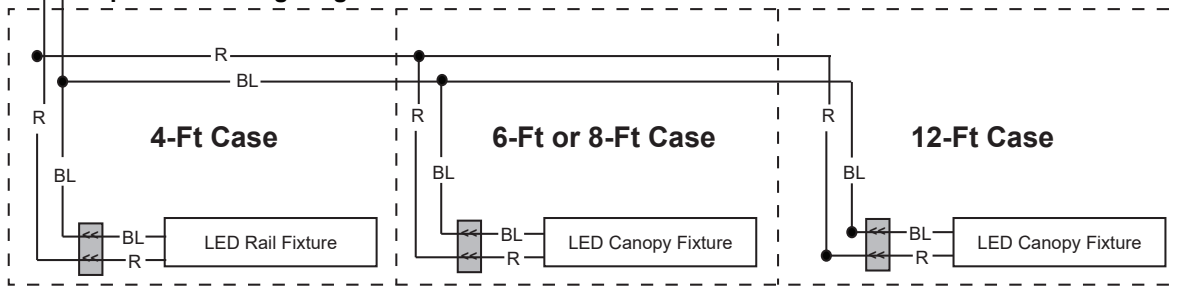


LED Canopy Light Circuits

LED Canopy Lighting - 2 Rows



Optional LED Lighting - LED Rail - 1 Row



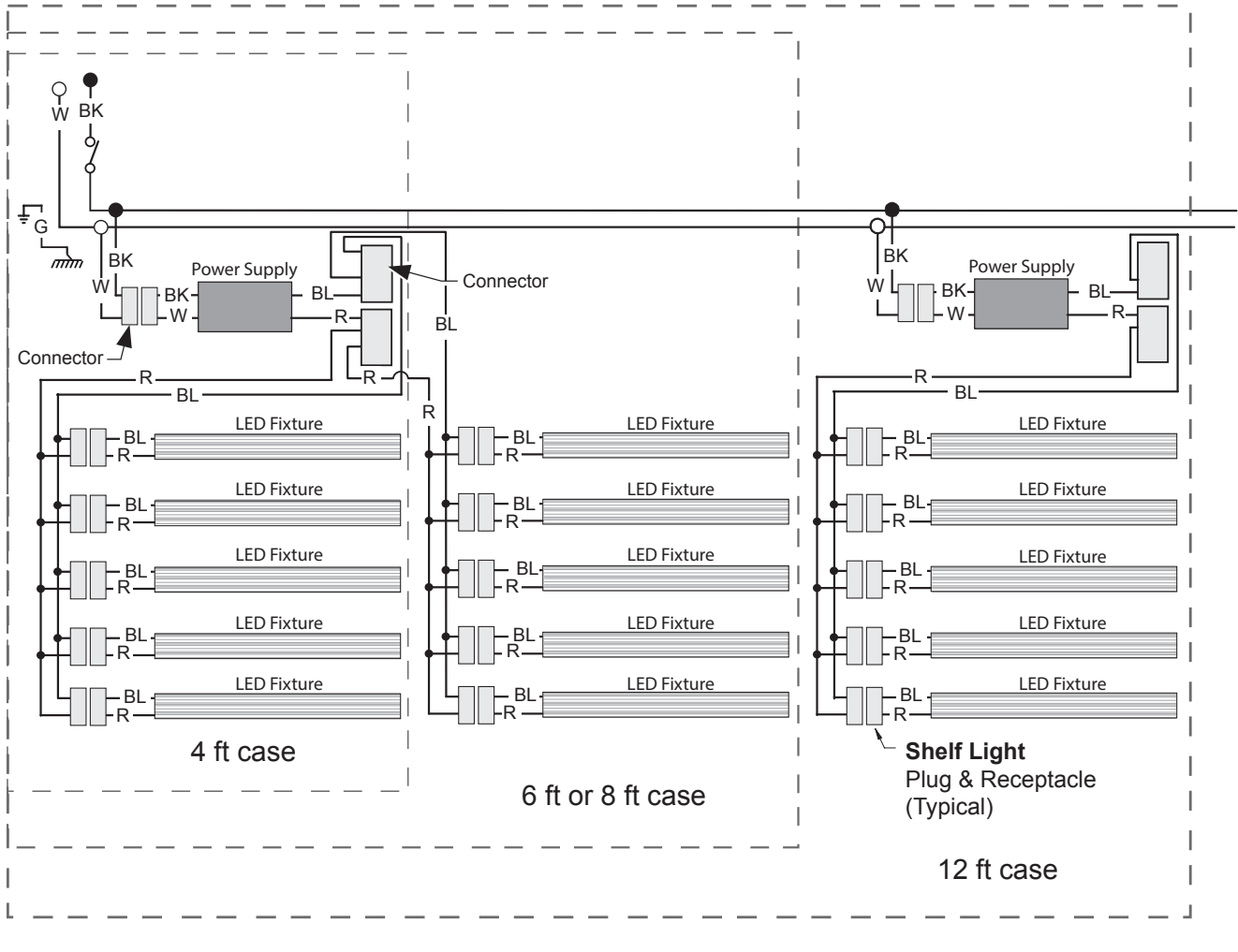
WARNING

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

Optional Shelf Lighting—LED Fixtures

Optional Shelf Harness and LED Light Circuits for 4 or 5 Rows of Shelves



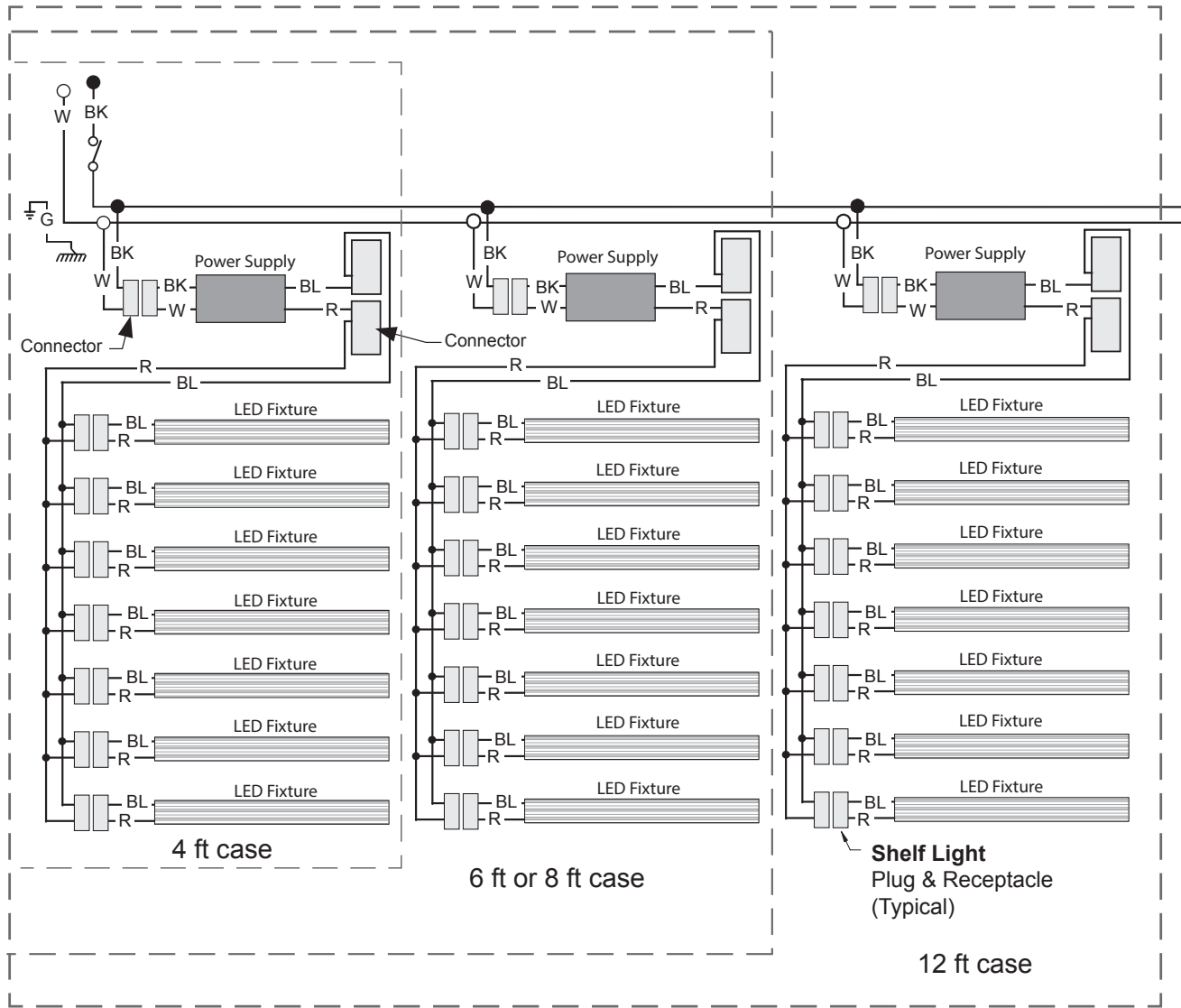
WARNING

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 mmm = CASE GROUND

Optional Shelf Lighting—LED Fixtures

Optional Shelf Harness and LED Light Circuits for 6 or 7 Rows of Shelves



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 0.62 Amps and the MCA is 0.82. 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 shelf or rail lighting [maximum for which case is wired] (1.73 for seven shelves); then add together $[0.48 + 1.73 = 2.21$ amps for 120V] (for 230V, multiply $2.21 * 0.52 = 1.15$).

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: June 2018: Original Issue

Revision B: December 2018: Updated refrigeration data.

Revision C: January 2019: Updated document headings and part numbers on page 8.

Revision D: March 2021: Updated lighting, drain extension options and removed replacement parts page.

Revision E: July 2022. Added notes for Extended Drain Kit Option.

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

Revision G: November 2023: Updated fan and lighting information.