HUSSMANN®

Insight® ID6NU

Dairy / Delicatessen / Meat

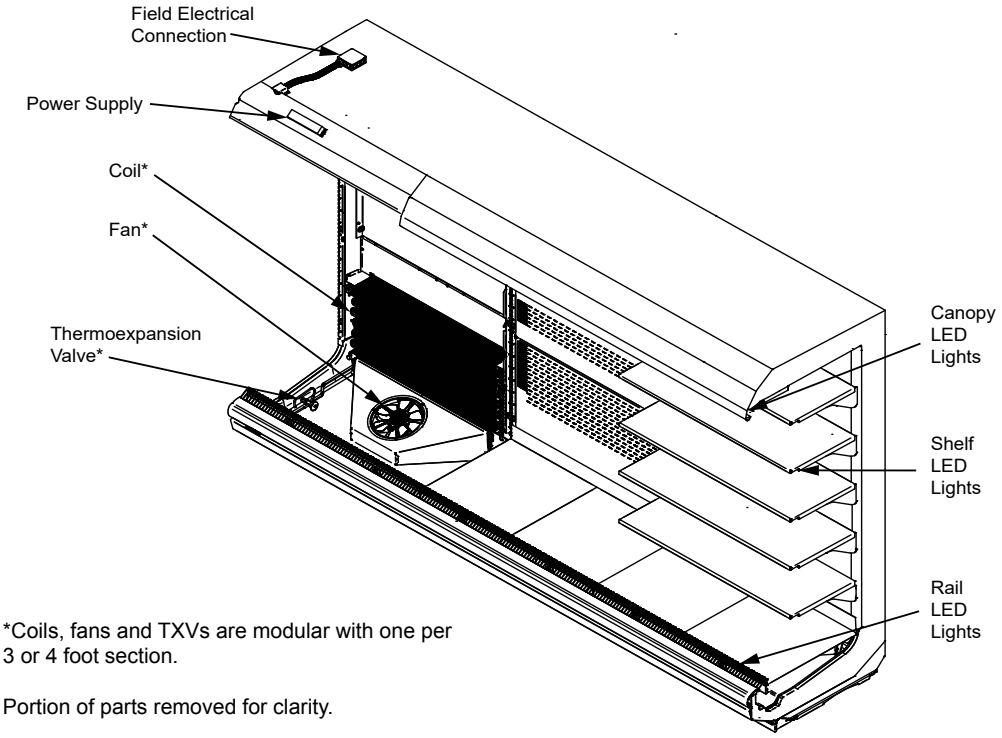
Merchandiser Data Sheet

P/N 3064394_C

NSF® Certified

January 2019

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.

DOE 2017 Energy Efficiency Compliant

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.

Spanish P/N 3064395

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 [3]	AHRI 1200 Rating Point[1, 4]
Unlit Shelves	Discharge Air °F (°C)	33 (0.6)	33 (0.6)	34 (1.1)	35 (1.7)
	Average Evaporator °F (°C) [2]	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[5]	Discharge Air °F (°C)	32 (0)	32 (0)	33 (0.55)	34 (1.1)
	Average Evaporator °F (°C) [2]	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[6]	ID6NU6 (10.3”)	1300[6]	1600[6]	1600[6]	1300[6]
	ID6NU4, 8, 12 (10.3”)	1300[6]	1600[6]	1600[6]	1300[6]

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. Add 10 Btu/hr/ft (9.6 Watts/m) per shelf row for LED shelf light fixtures.
6. Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator.

Defrost Data

Frequency (hours between defrost) 4

Defrost Water [7] 10.3 lb/ft/day (15.3 kg/m)

[7] **(± 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 [8]	20°F /10°F –6.7°C / –12.2°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]

			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

[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)	10.8 ft^3/ft (1.00 m^3/m)
AHRI Total Display Area [11] (Sq Ft/Ft)	5.55 ft^2/ft (1.69 m^2/m)
Shelf Area [12] (Sq Ft/Ft)	9.58 ft^2/ft (2.92 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: (5) rows of 18-in. shelves

Insight ID6NU
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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.

Dimensions shown as in. and (mm).

ID6NU

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

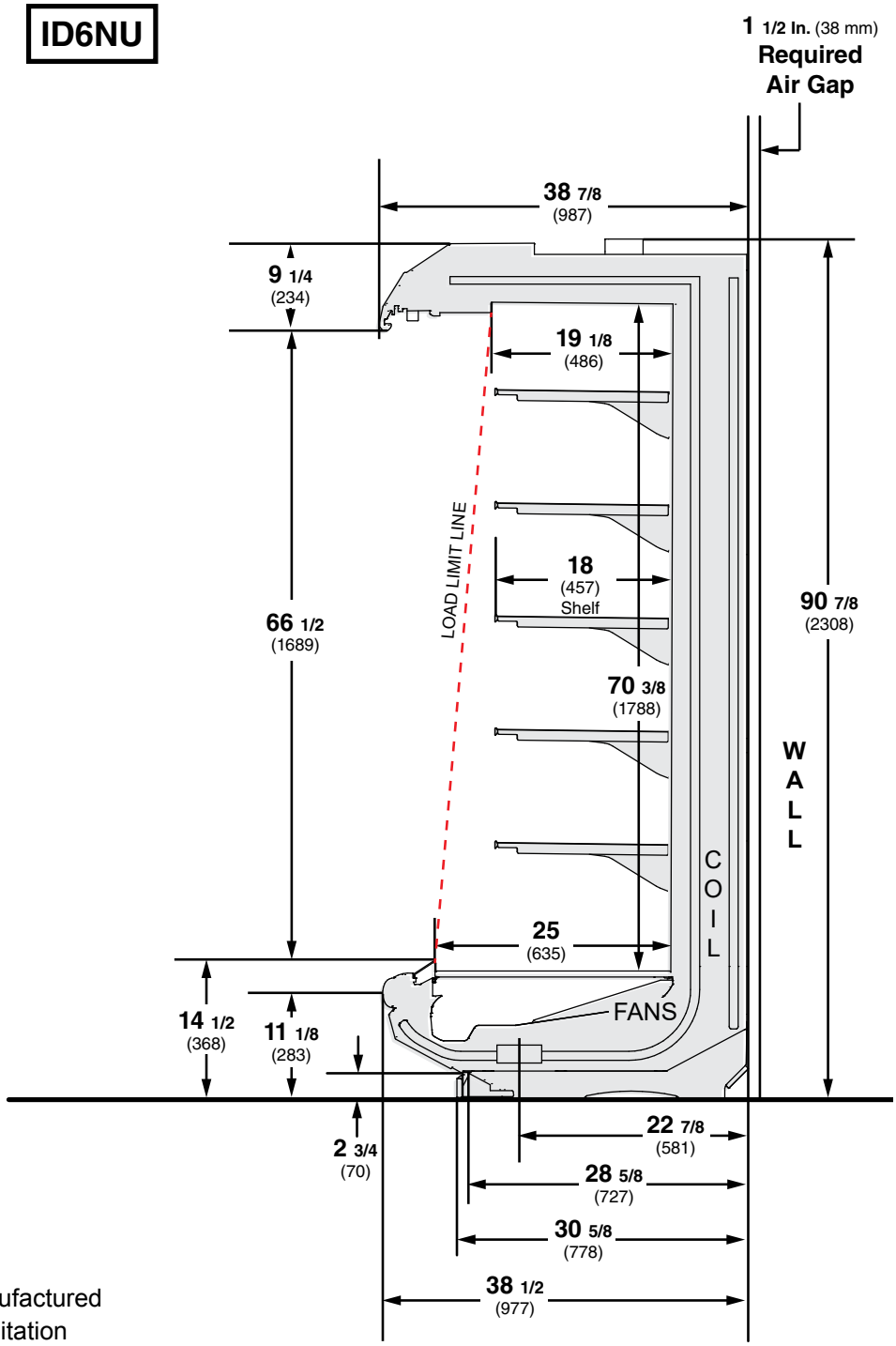
A minimum 1 ½-in. clearance required to remove raceway cover, 6 ½-in. for full access. See the Installation manual for instructions.

3-in. between back to back cases.

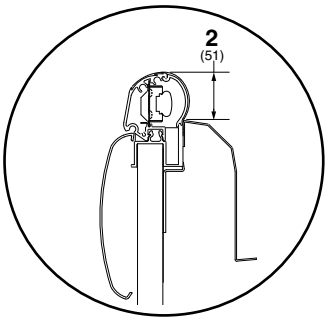
Shelf complement shown as tested:

Five rows of 18-in. shelves spaced equally between bottom display pan and interior top panel.

Shown with Standard Faceted Canopy.



OPTIONAL RAIL LIGHT



NSF Certification

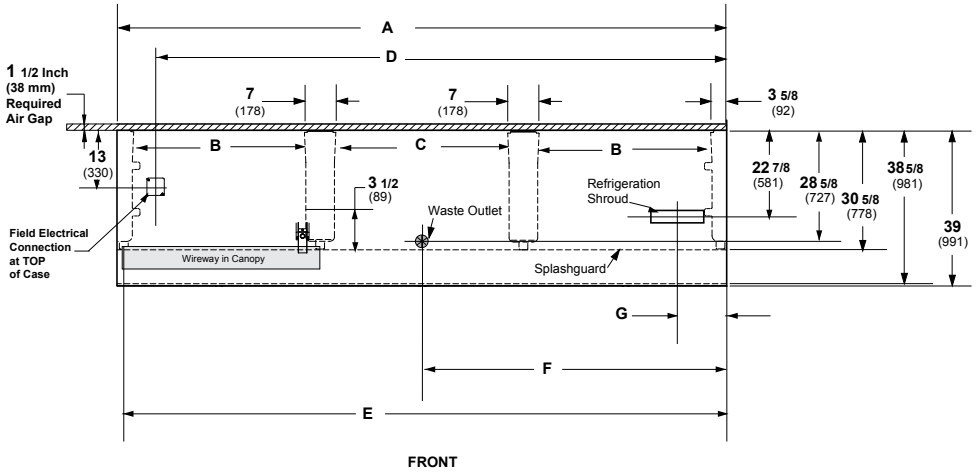
This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.

Engineering
Plan View

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

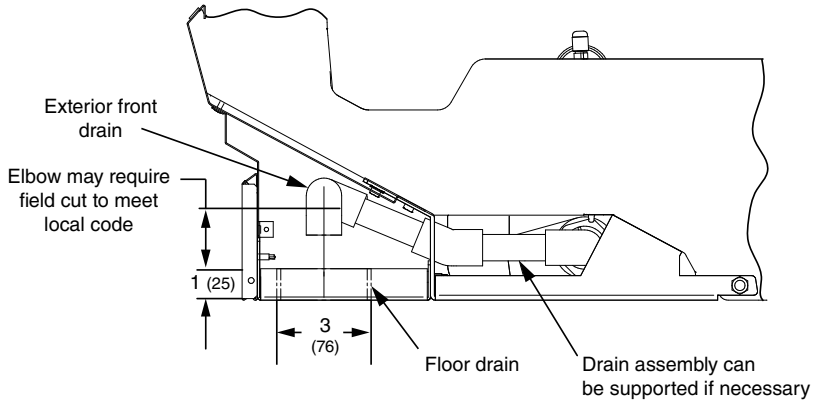


(12 Foot Model shown above)

		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)
Floor Drain must be located within 24 inches of Waste Outlet.					
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.*				

Drain Extension Option

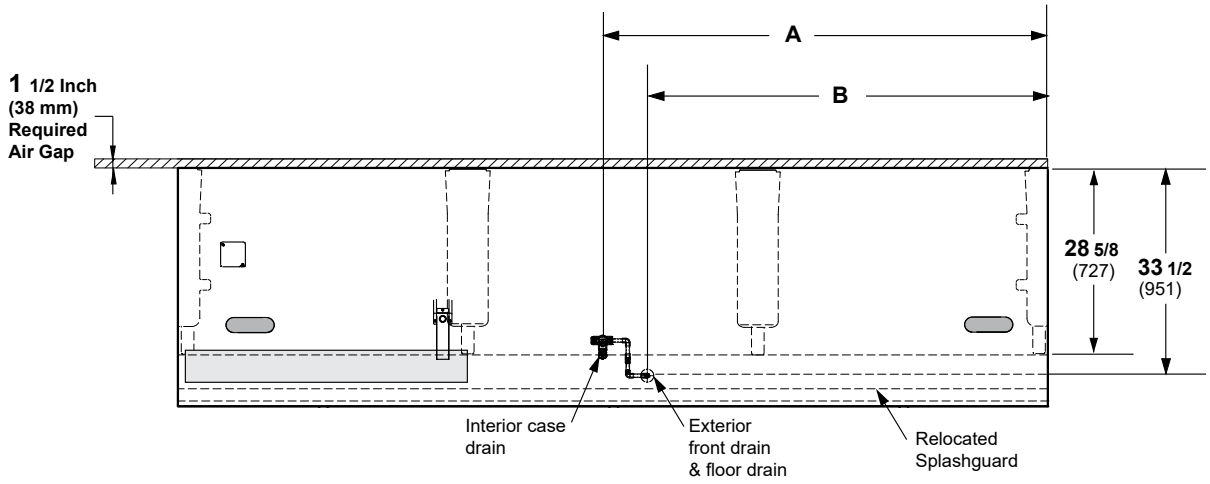
(Partial End View)



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)

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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 LIGHTING								
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
EcoShine II Shelf								
1 Row of Shelves	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7
2 Rows of Shelves	0.16	0.23	0.33	0.49	19.8	28.2	39.5	59.3
3 Rows of Shelves	0.25	0.35	0.49	0.74	29.7	42.3	59.3	89.0
4 Rows of Shelves	0.33	0.47	0.66	0.99	39.5	56.4	79.1	118.6
5 Rows of Shelves	0.41	0.59	0.82	1.24	49.4	70.5	98.9	148.3
6 Rows of Shelves	0.49	0.70	0.99	1.48	59.3	84.5	118.6	178.0
7 Rows of Shelves	0.58	0.82	1.15	1.73	69.2	98.6	138.4	207.6
EcoShine II Rail Light								
1 Row	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7

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.) Schedule 40 PVC	1 1/4
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.

Replacement Parts List

Part #	Description
Fan Assemblies	
Standard HE Fan Assembly	
4 Ft, 6 Ft, 8 Ft & 12 Ft	
0535564	10.3-in. Fan Assembly
0534013	Fan Speed Controller
Fan Speed Key	
10.3-In. Fan	
0534357	1300 RPM
0534363	1600 RPM
Thermostats	
Optional	
LED Fixtures and Power Supply	
3018291	Power Supply
	LED Canopy Fixture
	Replace with like fixtures.
	LED Shelf Fixture
	Replace with like fixtures.
	LED Rail Fixture
	Replace with like fixtures.

Part #	Description
Coils	
0547194	4 ft, 8 ft, 12 ft
0547193	6 ft only
Honeycomb - White	
0536831	4 ft, 8 ft, 12 ft
0536829	6 ft only
Thermo-expansion Valve	
	Pre-set Adjustable
	Varies with Refrigerant and Size

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.**

For additional parts information, visit http://www.hussmann.com/en/Pages/Aftermarket-Parts.aspx

Fan Wiring
Offtime Defrost

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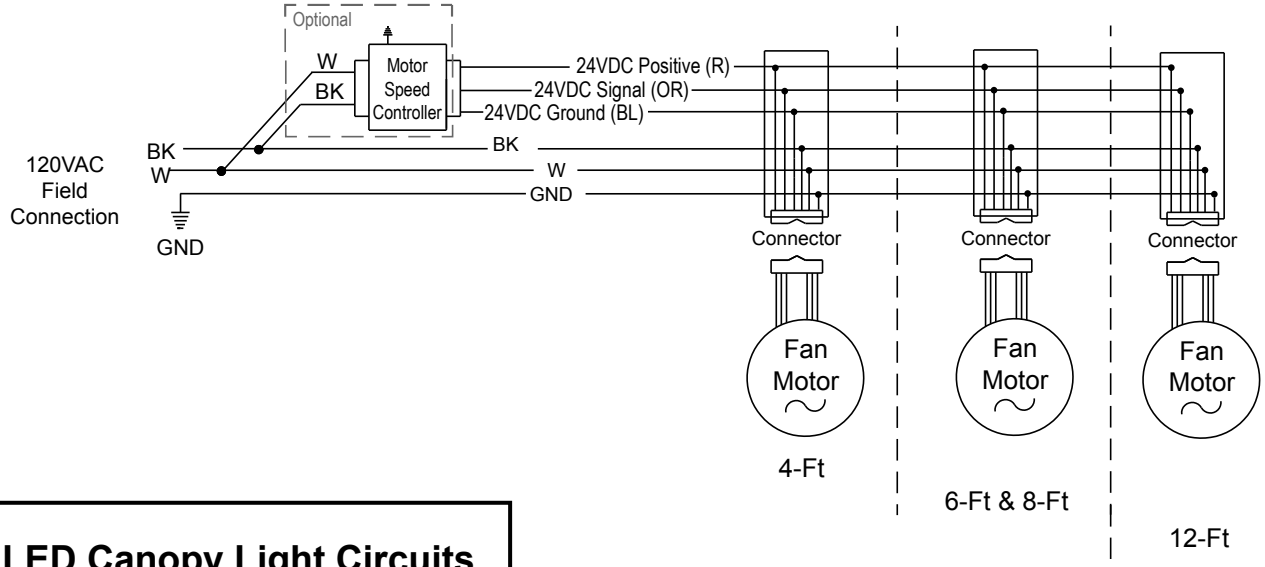
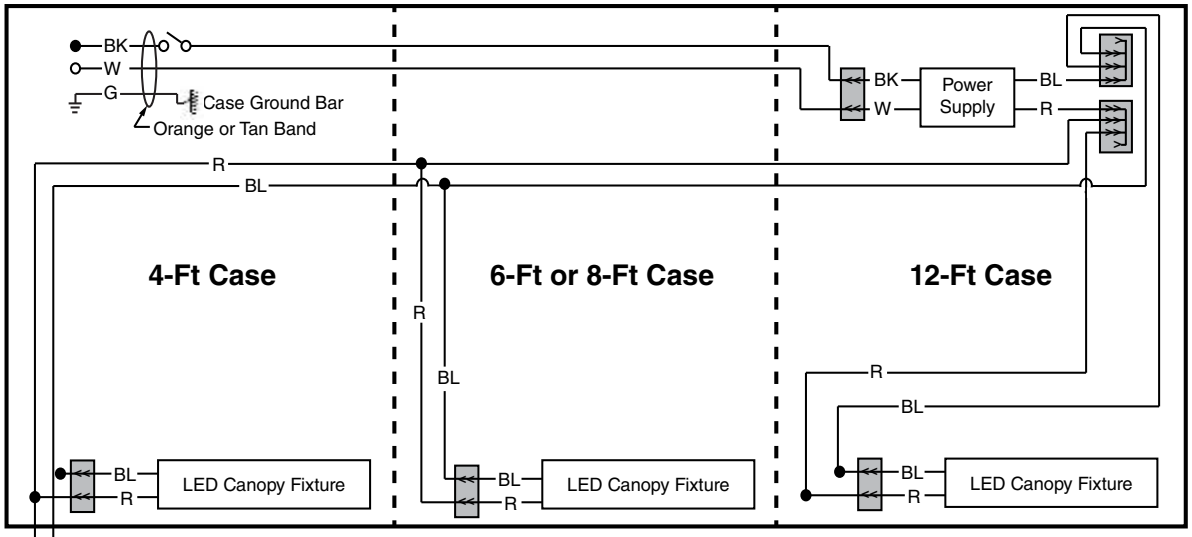
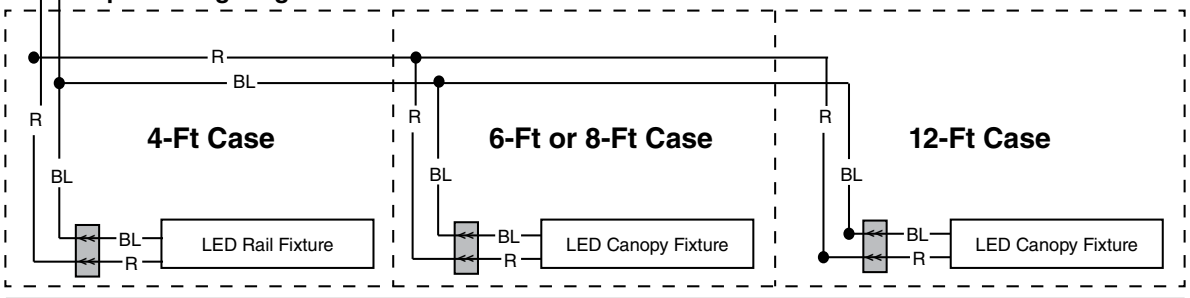


LED Canopy Light Circuits

EcoShine II LED Canopy Lighting - 1 Row



Optional Lighting - EcoShine II LED Rail - 1 Row



WARNING

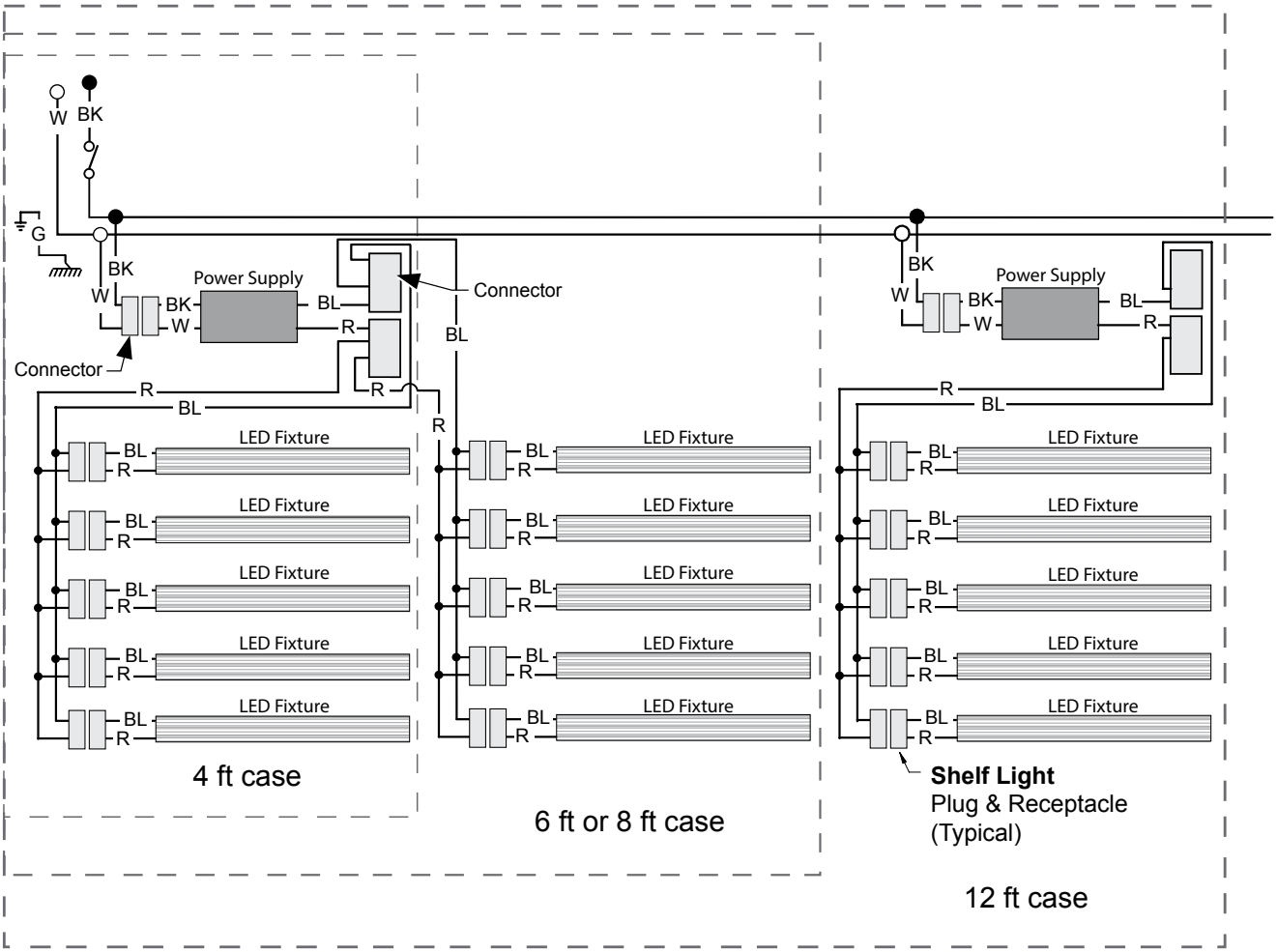
All components must have mechanical ground, and the merchandiser must be grounded.

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

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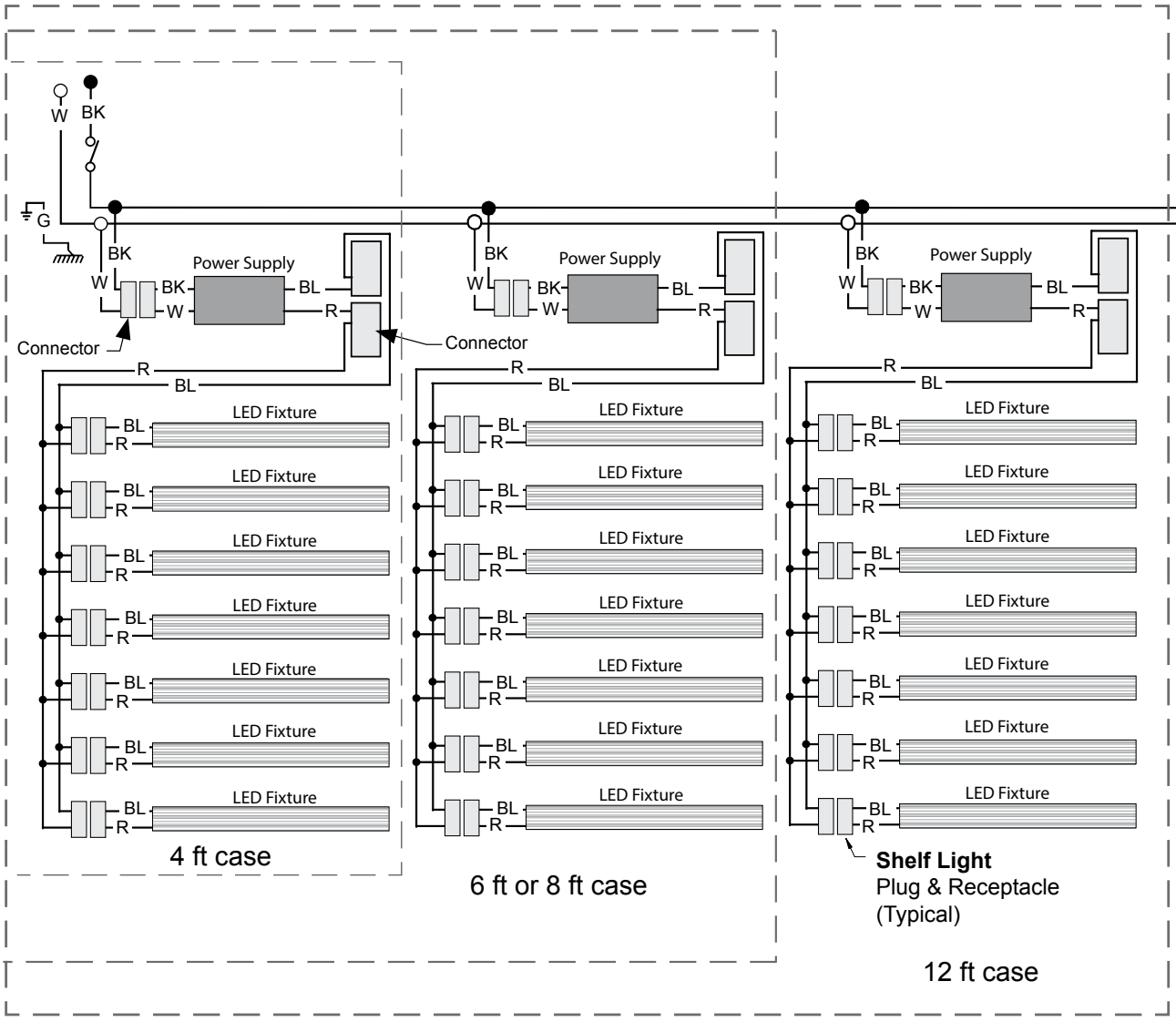
Optional Shelf Lighting—LED Fixtures

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



WARNING

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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 QR code to access product information on your mobile device.

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.