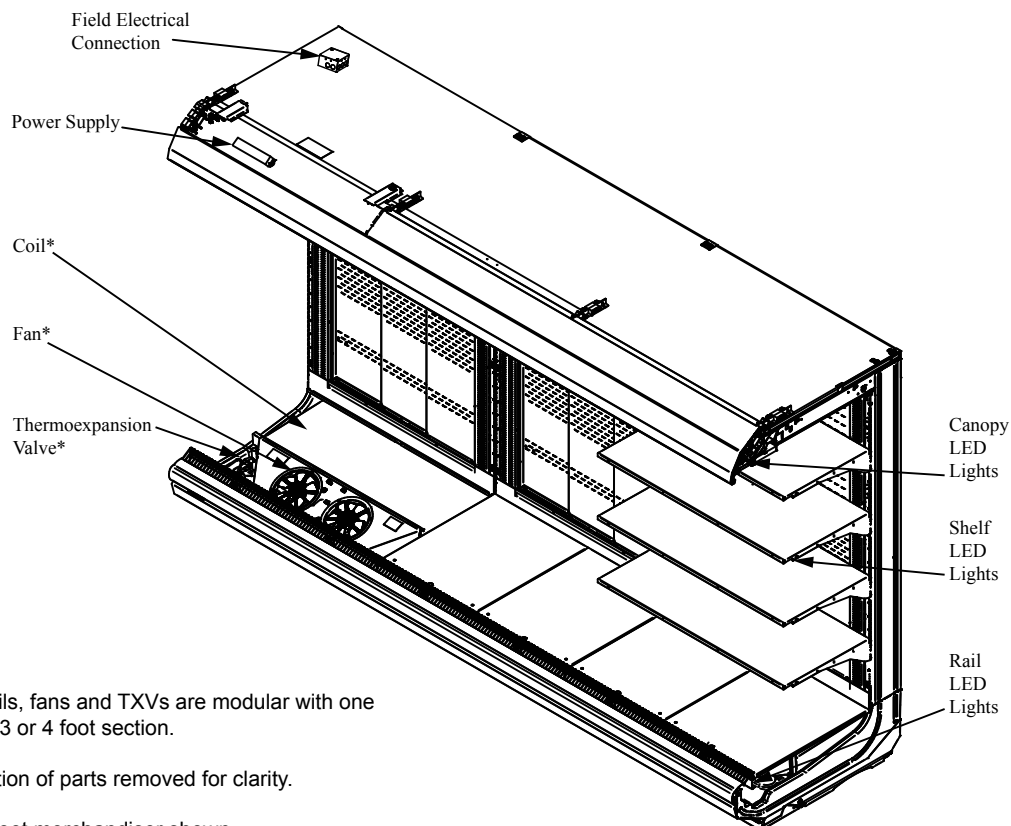


*Insight standard field electrical connections
are at the top left of the merchandiser*

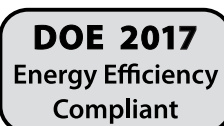


*Coils, fans and TXVs are modular with one per 3 or 4 foot section.

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

**DRAIN EXTENSION KIT
REQUIRED TO PIPE MULTIPLE
CASES TO ONE DRAIN OR TO
USE A RAISED HUB DRAIN**

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
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Data sheet-Insight ID6SU-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 ID6SU-R
Dairy / Deli /
Beverage / Produce

Refrigeration Data ¹

ID6SU-R		Optimal Shelf Life		Energy Comparison
Application		Dairy/Deli/ Beverage/ Produce	NSF Type 2 Ambient ³	AHRI 1200 Rating Point ⁴
Unlit Shelves	Discharge Air °F (°C)	31 (-0.55)	31 (-0.55)	35 (1.66)
	Average Evaporator °F (°C) ²	26 (-3.33)	24 (-4.44)	31 (-0.55)
	Parallel Btu/hr/ft (Watts/m)	1510 (1452)	1810 (1741)	1360 (1308)
	Conventional Btu/hr/ft (Watts/m)	1645 (1582)	1965 (1890)	1480 (1423)
Lit Shelves	Discharge Air °F (°C)	31 (-0.55)	31 (-0.55)	35 (1.66)
	Average Evaporator °F (°C) ²	25 (-3.88)	23 (-5.00)	30 (-1.11)
	Parallel Btu/hr/ft (Watts/m) ⁵	1525 (1426)	1820 (1750)	1370 (1317)
	Conventional Btu/hr/ft (Watts/m) ⁵	1655 (1591)	1975 (1899)	1490 (1433)
Fan Speed ⁶	ID6SU6R (2 x 8.25")	1600 ⁶	1600 ⁶	1600 ⁶
	ID6SU4R, 8R, 12R (2 x 8.25")	1600 ⁶	1600 ⁶	1600 ⁶

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.
- 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 speed control kits applied by the Hussmann Product Configurator.
- 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.**
- Reduce refrigeration load by 15% if fitted with CaseShieldPTM.

Defrost Data

Frequency (hours between defrost)	4
Defrost Water ⁹	9.5 lb/ft/day (14.2 kg/m)
⁹ (± 15% based on case configuration and product loading).	
OFFTIME	ID6SU-R
Time (minutes)	20
ELECTRIC OR GAS	Not Available

Conventional Controls

ID6SU-R
Low Pressure Backup
Control CI/CO ¹⁰
18°F /8°F -7.8°C / -13.3°C
Indoor Unit Only,
Pressure Defrost
Termination ¹⁰
48°F (8.9°C)

¹⁰ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ¹¹ ID6SU-R

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

¹¹ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Gross Refrigerated Volume ¹² (Cu Ft/Ft)	13.2 ft ³ /ft (1.23 m ³ /m)
AHRI Total Display Area ¹³ (Sq Ft/Ft)	5.55 ft ² /ft (1.69 m ² /m)
Shelf Area ¹⁴ (Sq Ft/Ft)	11.66 ft ² /ft (3.55 m ² /m)

¹² AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹³ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

¹⁴ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 22-in. shelves

Insight ID6SU-R
Dairy / Deli /
Beverage / Produce

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

ID6SU-R

9 1/4 (235)

43 7/8 (1114)

66 1/2 (1689)

70 3/8 (1788)

90 7/8 (2308)

LOAD LIMIT LINE

29 7/8 (759)

14 1/2 (368)

11 1/8 (283)

2 3/4 (70)

29 (737)

33 1/2 (851)

35 1/2 (902)

43 1/2 (1105)

1 1/4 (32)

FANS

COIL

COOLER

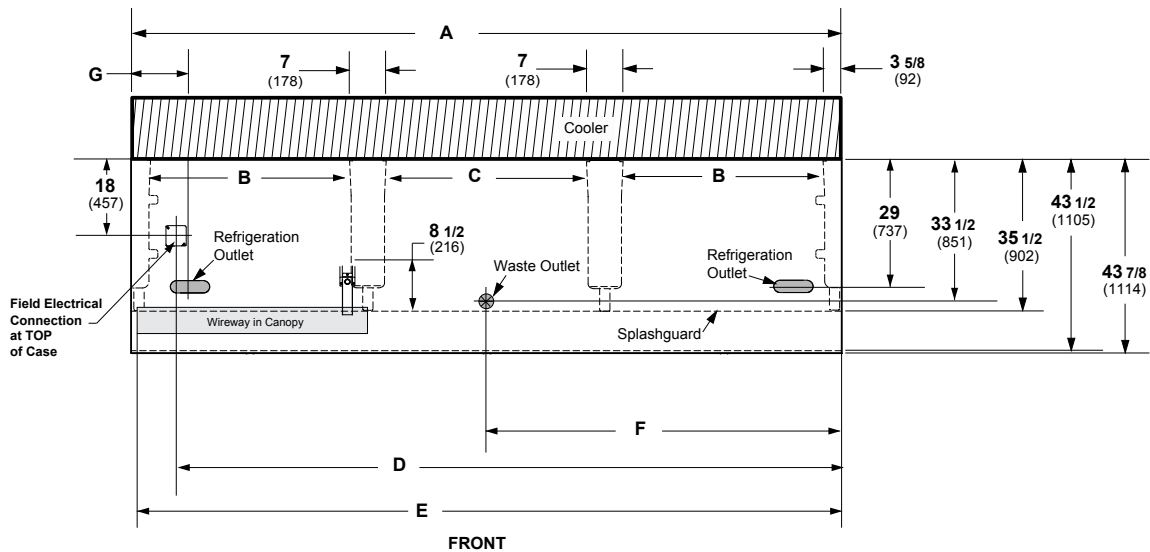
Technical drawing of a cable tie. A dimension line indicates a height of 2 (51).

Engineering Plan View

ID6SU-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)

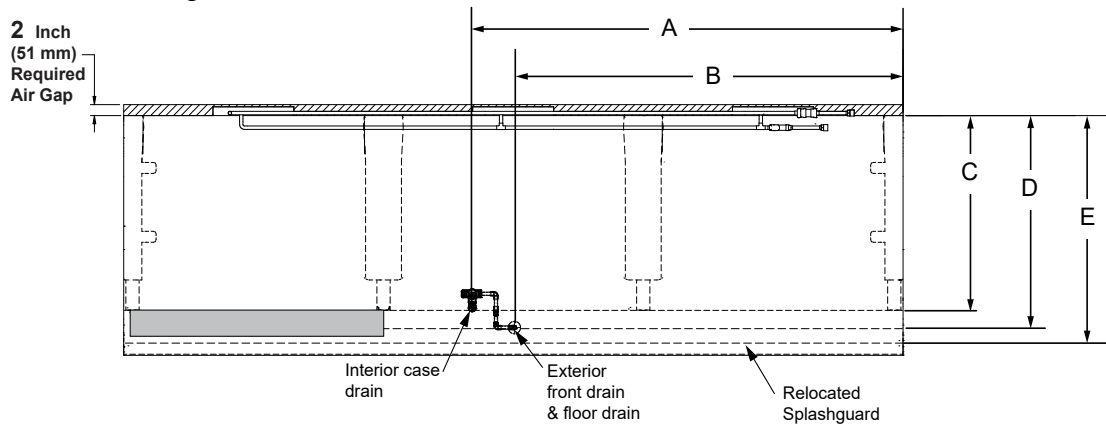
	4 ft	6 ft	8 ft	12 ft
General				
(A) Case Length (without ends or partitions) (Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)	48 1/8 (1222)	72 1/4 (1835)	96 1/4 (2445)	144 3/8 (3668)
Maximum O/S dimension of case back to front (includes bumper)	43 1/2 (1105)	43 1/2 (1105)	43 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	20 1/4 (514)	20 1/4 (514)	20 1/4 (514)	20 1/4 (514)
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)
<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)

Engineering Plan View

Insight ID6SU-R
Dairy / Deli /
Beverage / Produce

Waste Outlet Drain Extension Option

Dimensions shown as in. and (mm).

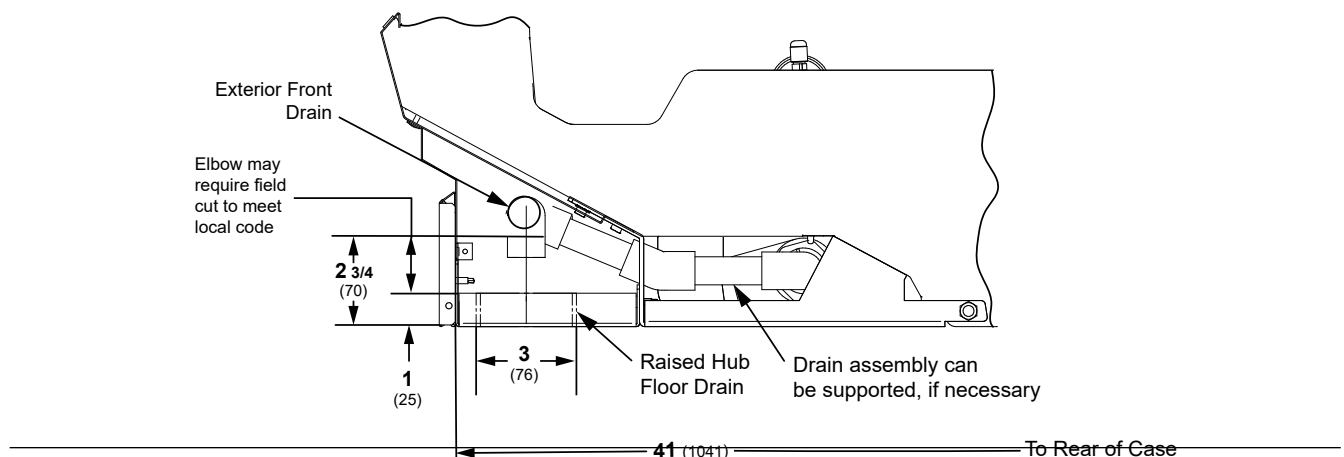


FRONT

(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* *Drain extension shown piped to the right but may be either direction	13 3/4 (349)	13 3/4 (349)	13 3/4 (349)	61 7/8 (1572)
(C) Back of case to center of original waste outlet	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
(D) Back of case to center of relocated waste outlet (with drain extension kit)	38 1/4 (972)	38 1/4 (972)	38 1/4 (972)	38 1/4 (972)
(E) Back of case to the back of the relocated splashguard (with drain extension kit)	41 (1041)	41 (1041)	41 (1041)	41 (1041)

Partial End View



IMPORTANT:
DRAIN EXTENSION KIT REQUIRED TO PIPE MULTIPLE CASES TO ONE DRAIN OR TO USE A RAISED HUB DRAIN

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

Electrical Data

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

Evaporator Fan	Amperes				Watts			
	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V 60Hz Energy Efficient	0.64	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				
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				
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								
EcoShine ULTRA Canopy Lights								
1 Row EcoShine ULTRA	0.16	0.26	0.36	0.54	19	31	43	64
EcoShine II Canopy Lights								
1 Row EcoShine II	0.16	0.26	0.32	0.48	19	32	39	58
1 Row EcoShine II HO	0.22	0.33	0.44	0.66	27	40	53	79
EcoShine II Shelf Lights								
1 Row of Shelves	0.08	0.12	0.16	0.25	10	14	20	30
2 Rows of Shelves	0.16	0.23	0.33	0.49	20	28	40	59
3 Rows of Shelves	0.25	0.35	0.49	0.74	30	42	59	89
4 Rows of Shelves	0.33	0.47	0.66	0.99	40	56	79	119
5 Rows of Shelves	0.41	0.59	0.82	1.24	49	71	99	148
6 Rows of Shelves	0.49	0.70	0.99	1.48	59	85	119	178
7 Rows of Shelves	0.58	0.82	1.15	1.73	69	99	138	208
EcoShine II Rail Light-1 Row								
	0.08	0.12	0.16	0.25	10	14	20	30

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

Merchandise Drip Pipe (in.)	1 1/4
Schedule 40 PVC	
Merchandise Liquid Line (in.)	3/8
Merchandise Suction Line (in.)	7/8

ESTIMATED SHIPPING WEIGHT †

Case	4 ft	6 ft	8 ft	12 ft	Solid End (each)
lb (kg)	650 (295)	1050 (476)	1300 (590)	1750 (794)	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: 3

Optimal number of Shelves: 5

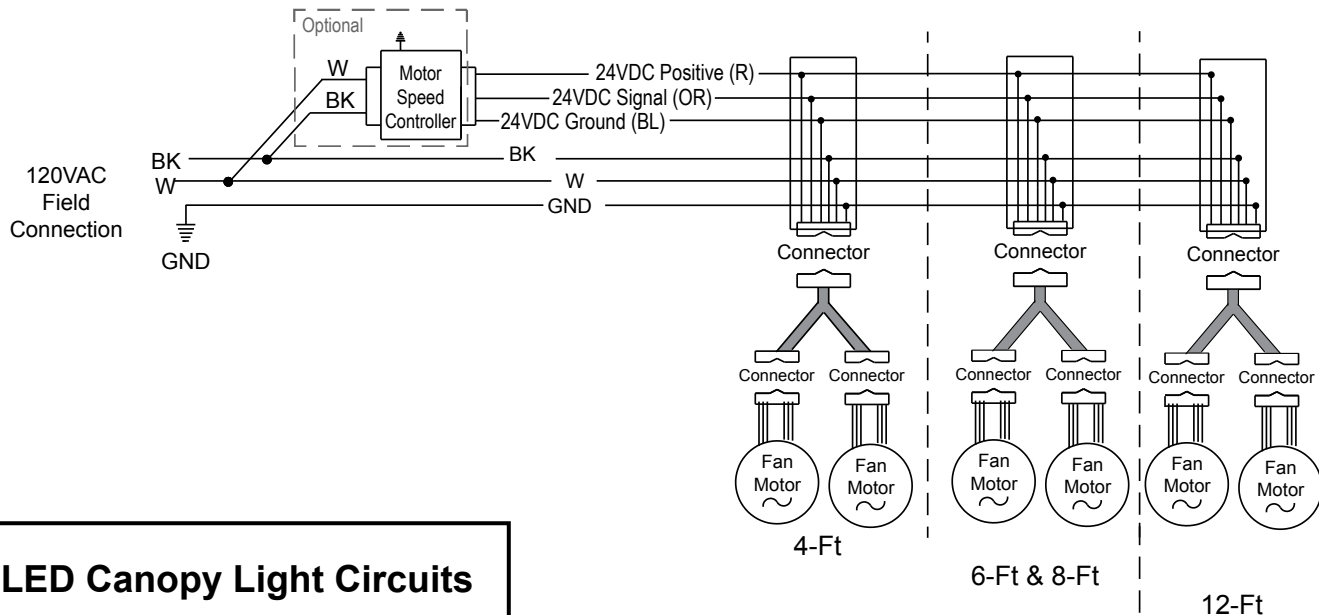
Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 7

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

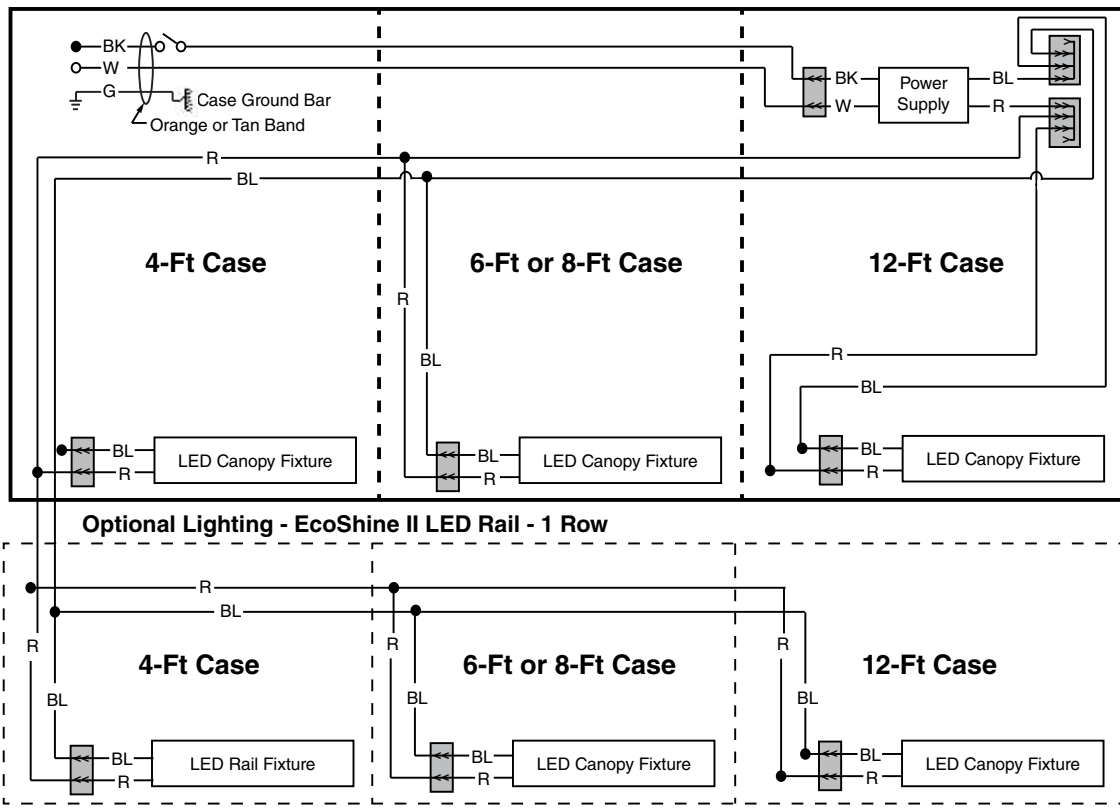
Insight ID6SU-R
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Fan Wiring
Offtime Defrost



LED Canopy Light Circuits

EcoShine II LED Canopy Lighting - 1 Row



WARNING

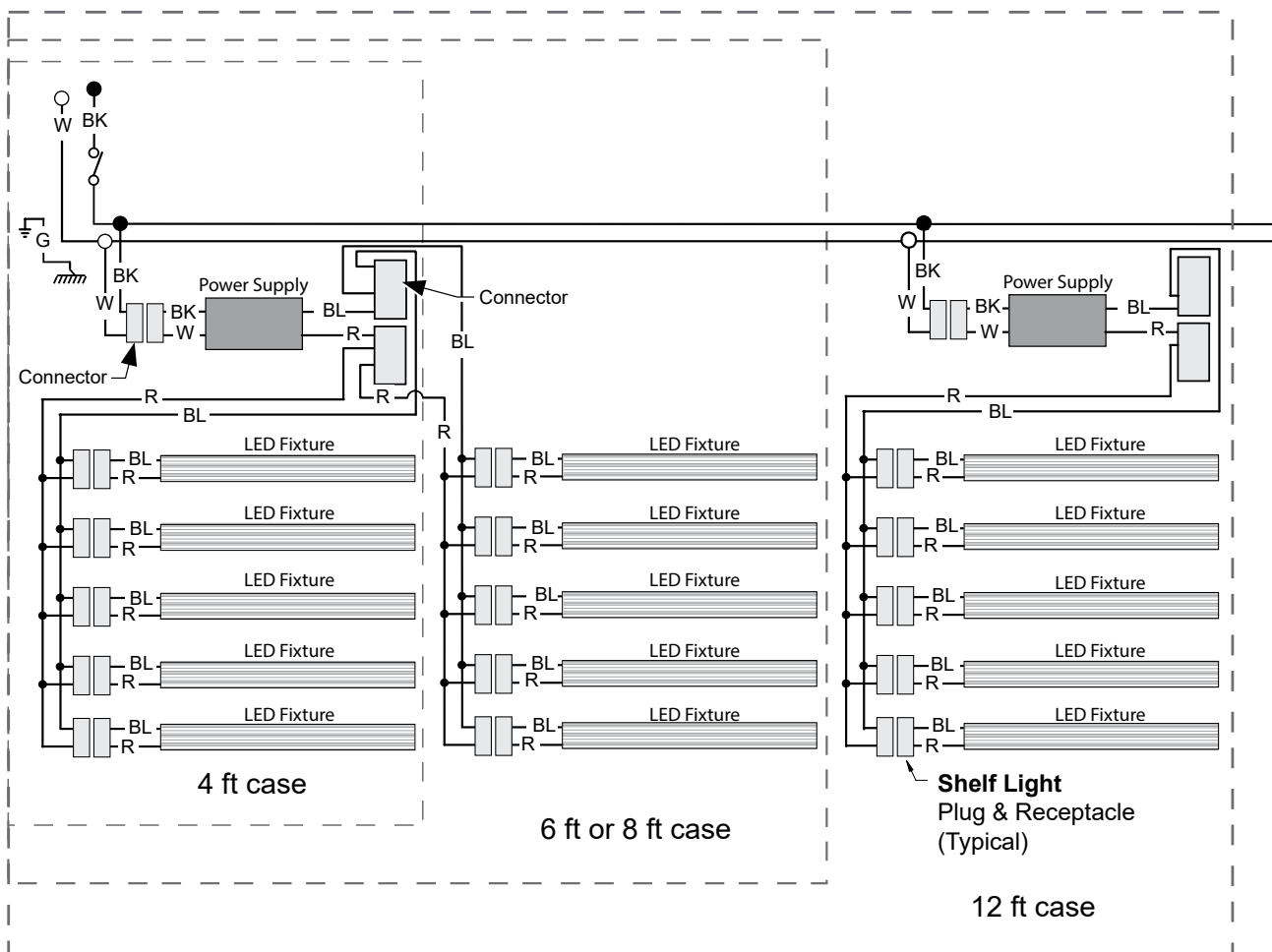
All components must have mechanical ground, and the merchandiser must be grounded.

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

Optional LED Shelf Lighting

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

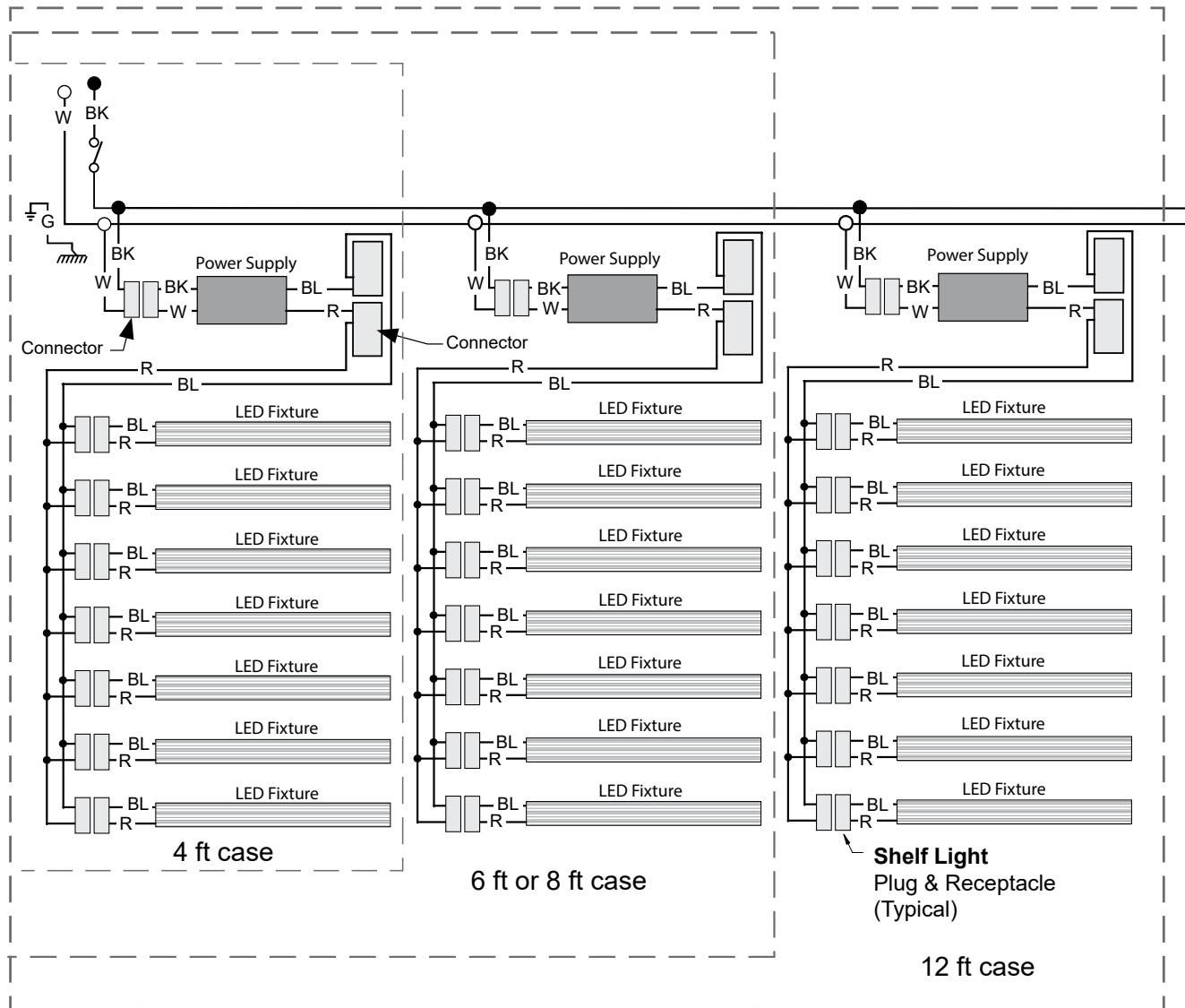


WARNING

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 ~~~ = CASE GROUND

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

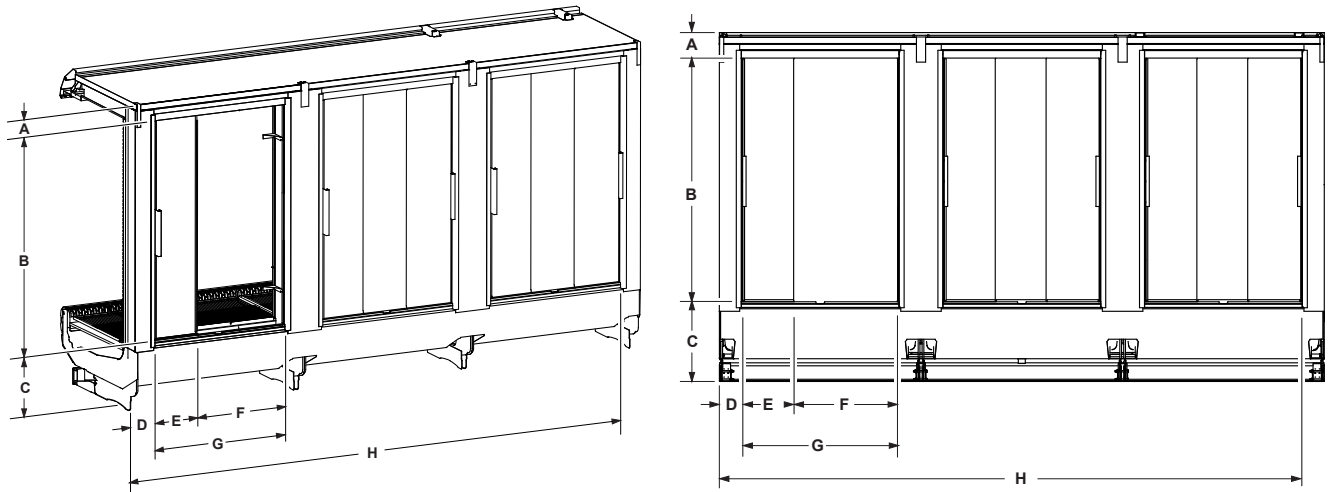


WARNING

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 mm = 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.

Insight ID6SU-R
Dairy / Deli /
Beverage / Produce

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

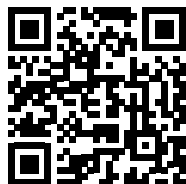
Refer to store legend to determine number of circuits. Lighting should be specified in store legend.

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 shelf or rail lighting [maximum for which case is wired] (1.73 for seven shelves); then add together $[0.48 + 1.73 = 2.21 \text{ amps for 120V}]$ (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 2016: Original Issue.

Revision B: July 2016: Updated cross section and plan view.

Revision C: August 2016: Updated cross section and plan view.

Revision D: January 2017: Added rail light updates.

Revision E: April 2017. Updated LED energy values.

Revision F: April 2017. Updated LED energy values.

Revision G: September 2017. Updated notes page. Other changes marked with a bar, circle or underline.

Revision H: July 2019. Updated parts list, lighting, CaseShieldPTM and drain information.