HUSSMANN®

Insight® ID5SL-R

Dairy / Deli / Beverage / Produce

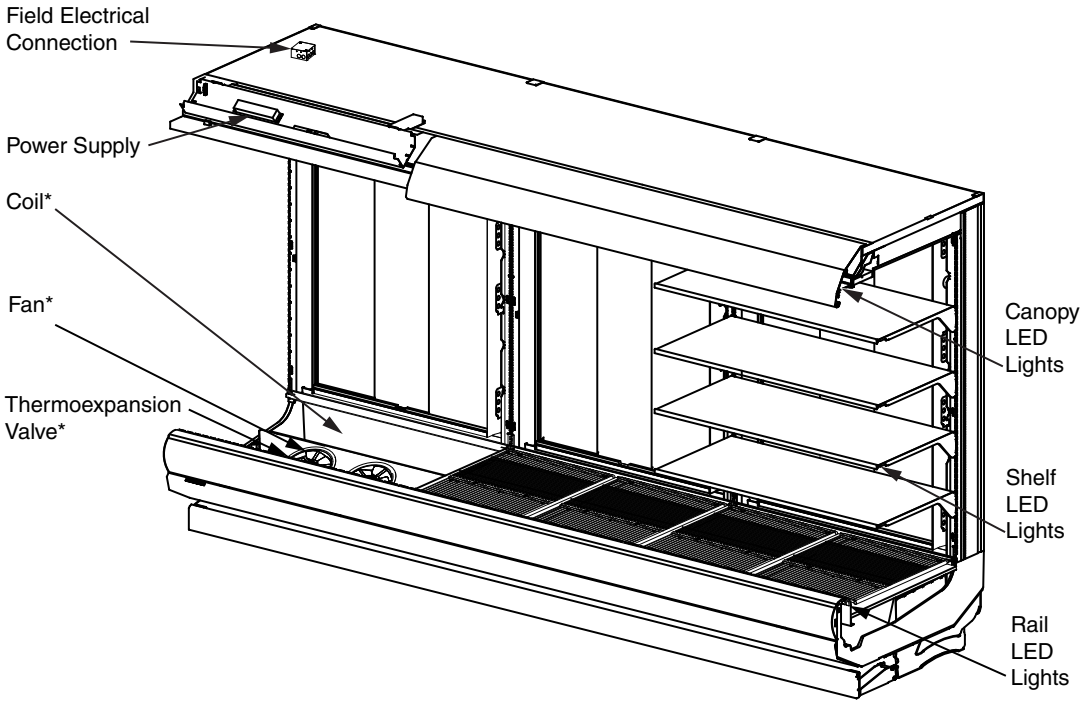
Merchandiser Data Sheet

P/N 0539595_L

NSF® Certified

December 2023

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.

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.

Data sheet-Insight ID5SL-R

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Spanish P/N 0539596

Insight ID5SL-R
Dairy / Deli / Beverage / Produce

Refrigeration Data [1]

ID5SL-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)	34 (1.11)	33 (0.55)	36 (2.22)
	Average Evaporator °F (°C) [2]	26 (-3.33)	25 (-3.88)	29 (-1.66)
	Parallel Btu/hr/ft (Watts/m) [6]	1185 (1140)	1435 (1380)	1030 (991)
	Conventional Btu/hr/ft (Watts/m) [6]	1295 (1246)	1565 (1505)	1125 (1082)
Lit Shelves	Discharge Air °F (°C)	33 (0.55)	32 (0.00)	35 (1.66)
	Average Evaporator °F (°C) [2]	25 (-3.88)	24 (-4.44)	28 (-2.22)
	Parallel Btu/hr/ft (Watts/m) [5, 6]	1205 (1159)	1450 (1394)	1045 (1005)
	Conventional Btu/hr/ft (Watts/m) [5, 6]	1315 (1265)	1585 (1524)	1140 (1079)
Fan Speed[6]	ID5SL6R (8.25" x 2)	1400[7]	1700[7]	1400[7]
	ID5SL4R, 8R, 12R (8.25" x 2)	1400[7]	1700[7]	1400[7]

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. Subtract 60 Btu/hr/ft (57.7 Watts/m) for front glass (on applicable models).
7. Some lengths and/or applications require optional fan motor kits applied by the Hussmann Product Configurator (HPC).
8. **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.**
9. Reduce refrigeration load by 15% if fitted with CaseShieldPTM.

Defrost Data

Frequency (hours between defrost) 4

Defrost Water [10] 9.5 lb/ft/day (14.2 kg/m)

[10] **(± 15%** based on case configuration and product loading).

Offtime	ID5SL-R
Time (minutes)	20
Electric or Gas	Not Available

Conventional Controls

	ID5SL-R
Low Pressure Backup Control CI/CO [11]	18°F /8°F –7.8°C / –13.3°C
Indoor Unit Only, Pressure Defrost Termination [11]	48°F (8.9°C)

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

Estimated Charge [12]

			ID5SL-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

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

Product Data

Gross Refrigerated Volume [13] (Cu Ft/Ft)	11.5 ft^3 /ft (1.07 m^3 /m)
AHRI Total Display Area [14] (Sq Ft/Ft)	4.56 ft^2 /ft (1.39 m^2 /m)
Shelf Area [15] (Sq Ft/Ft)	9.85 ft^2 /ft (3.00 m^2 /m)

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

Insight Multideck Merchandiser, 5 Display Levels,
Standard Bottom, Low Height Front, Rear Load

Insight ID5SL-R
Dairy / Deli / Beverage / Produce

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).

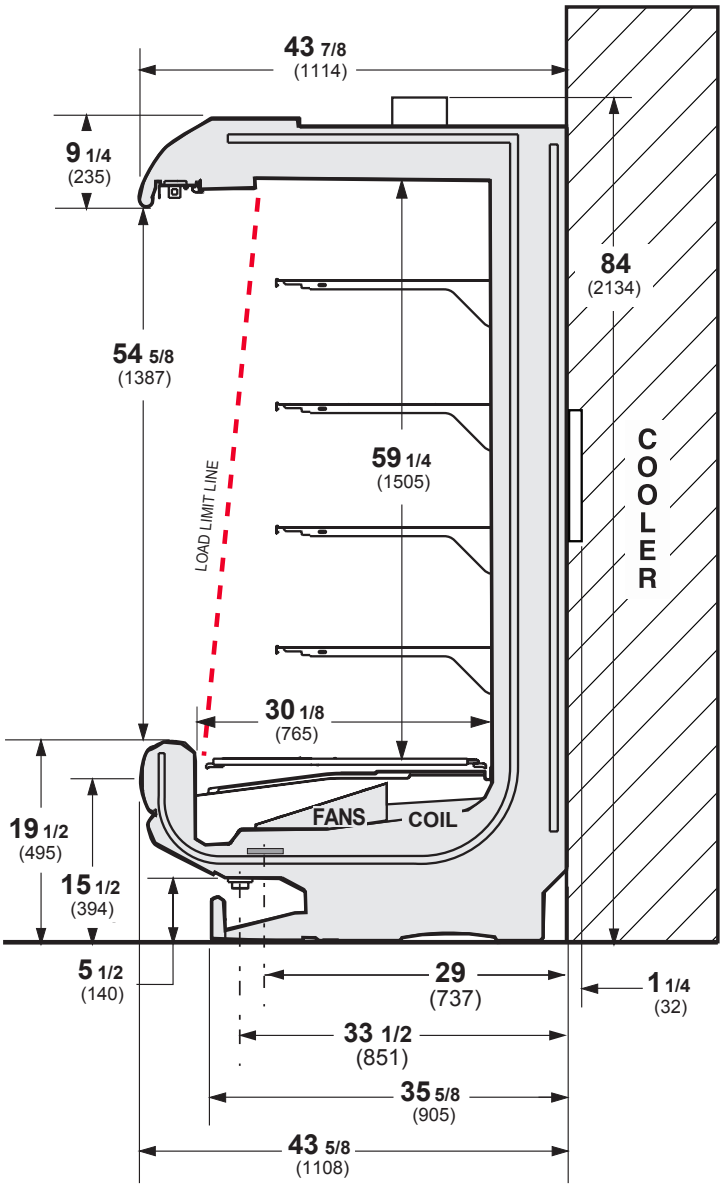
A minimum 1 ½-in clearance required to remove raceway cover, 6 ½-in for full access. See the Installation manual for instructions.

Shelf complement shown as tested:

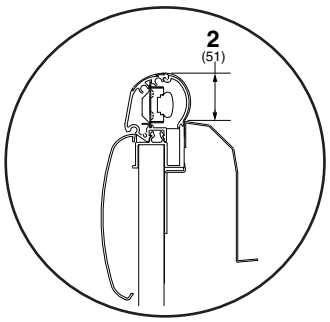
Four rows of 22-in. shelves spaced equally between bottom display pan and interior top panel.

Shown with Ellipse Option Canopy and Bumper

ID5SL-R

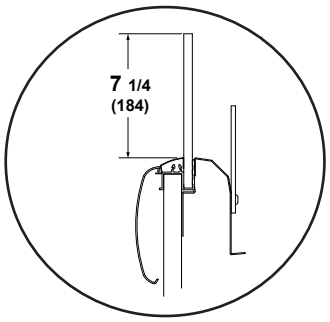


OPTIONAL RAIL LIGHT



Rail light cannot be used with glass front option.

OPTIONAL GLASS FRONT

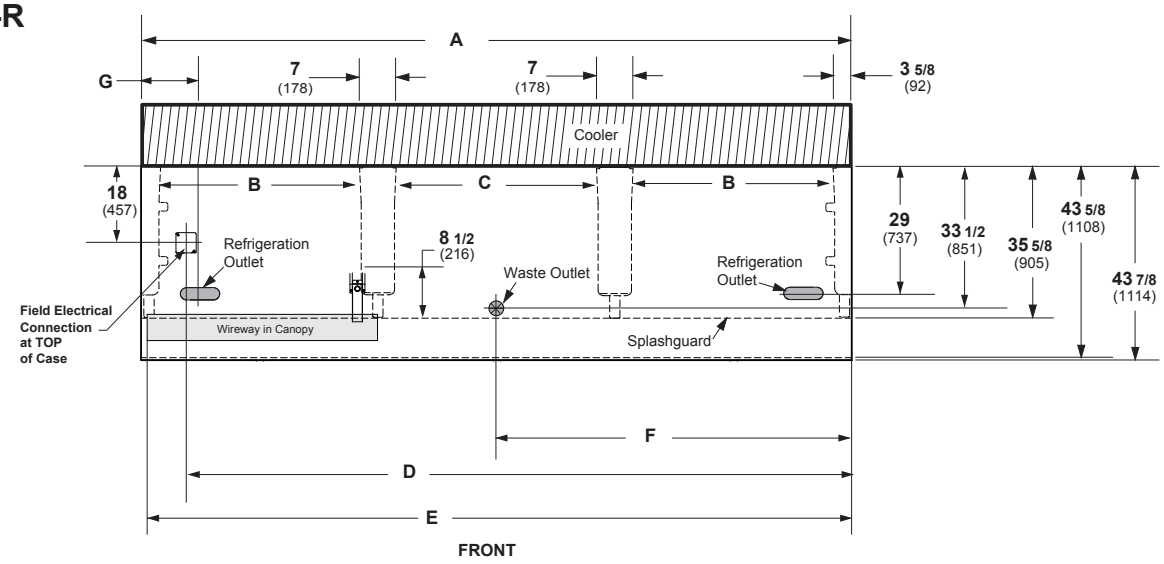


Glass front cannot be used with rail light option.

Engineering
Plan View

ID5SL-R/
ID5SM-R

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 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.	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										
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								
Standard LED Canopy Lights								
1 Row LED Canopy (Standard)	0.16	0.22	0.31	0.47	19	27	38	57
Optional LED Shelf Lights								
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
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.) 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)*	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: 4

Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 6

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

Fan Wiring
Offtime Defrost

***Insight* ID5SL-R**
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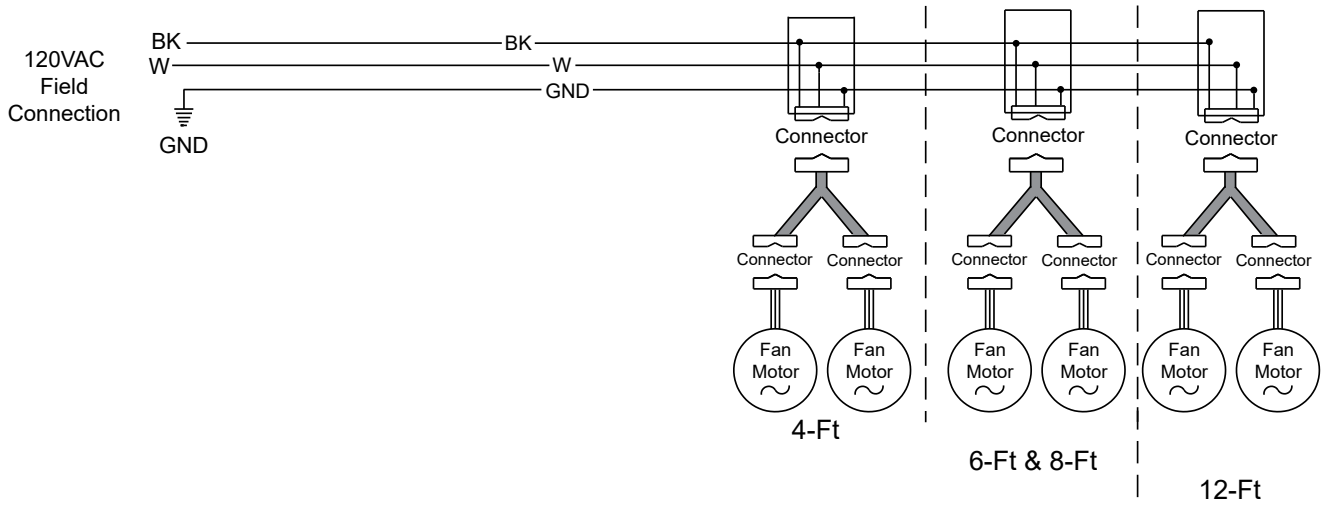
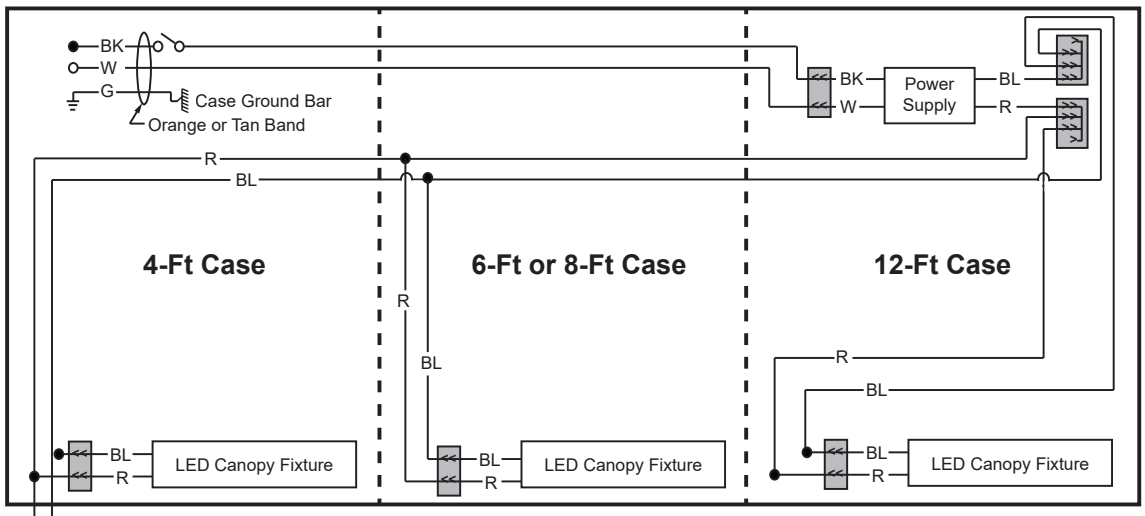
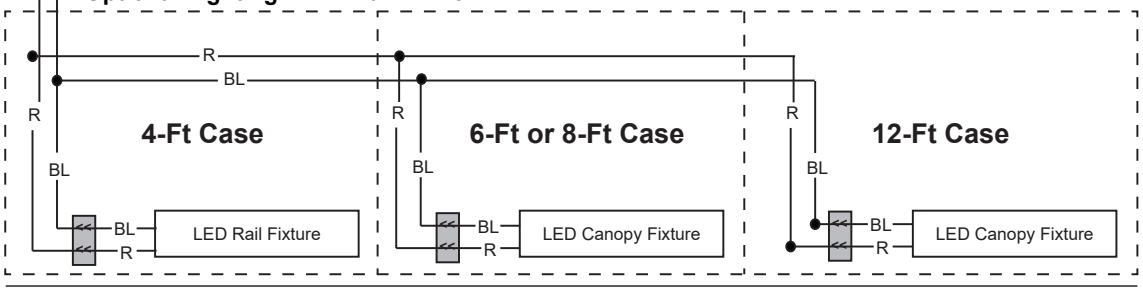


LED Canopy Light Circuits

LED Canopy Lighting - 1 Row



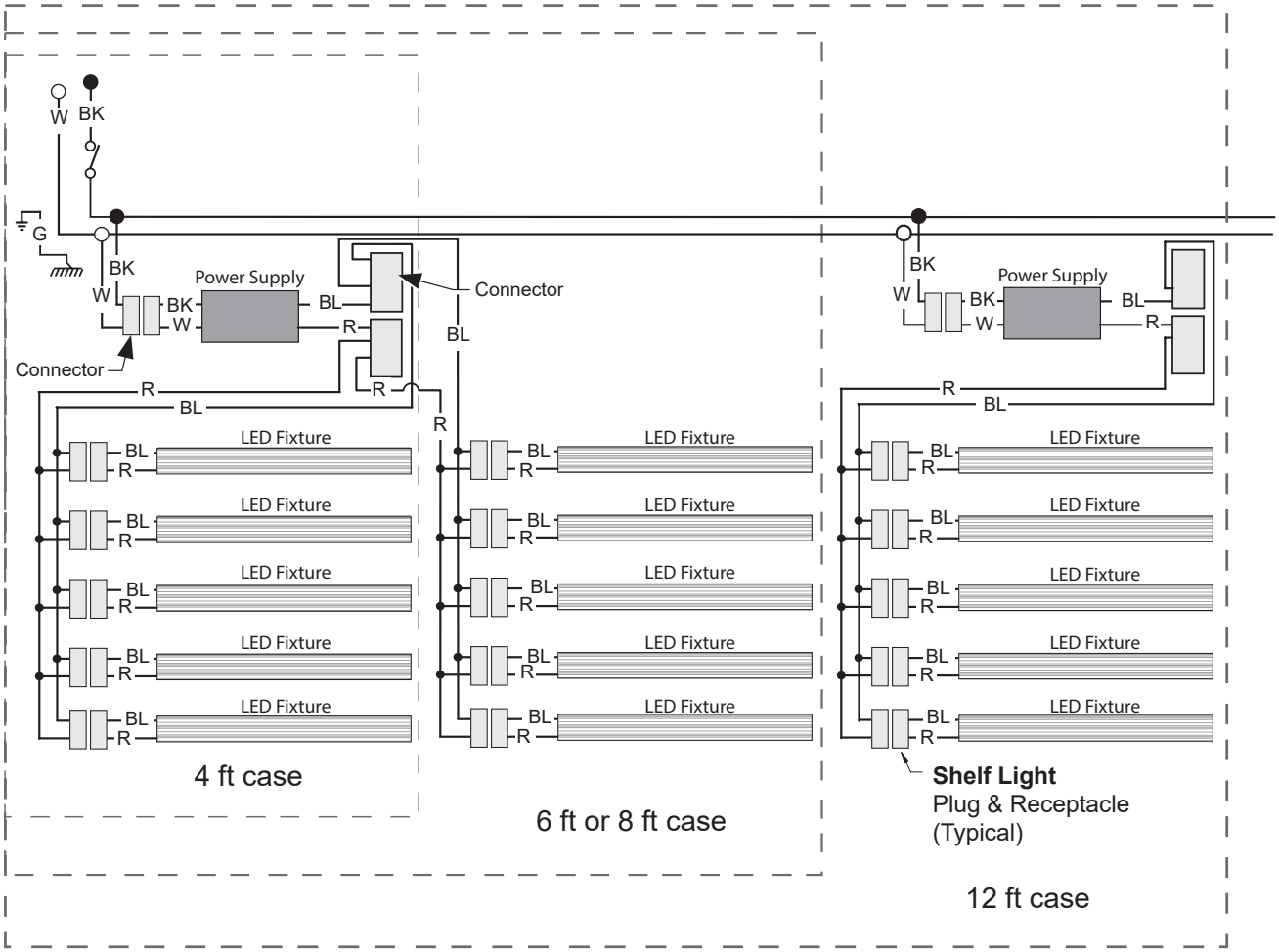
Optional Lighting - LED Rail - 1 Row



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

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



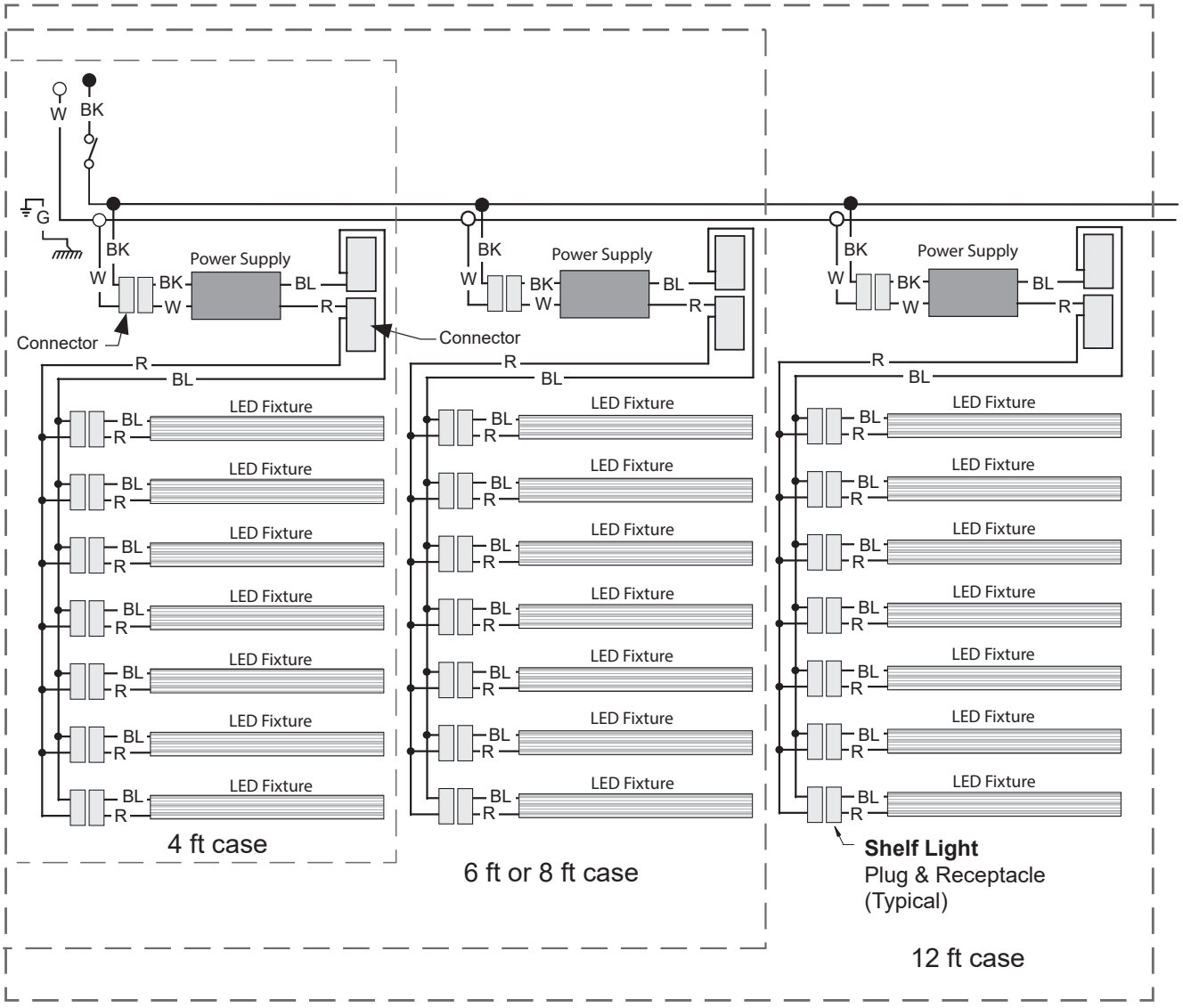
WARNING

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 = Case Ground

***Insight* ID5SL-R**
Dairy / Deli /
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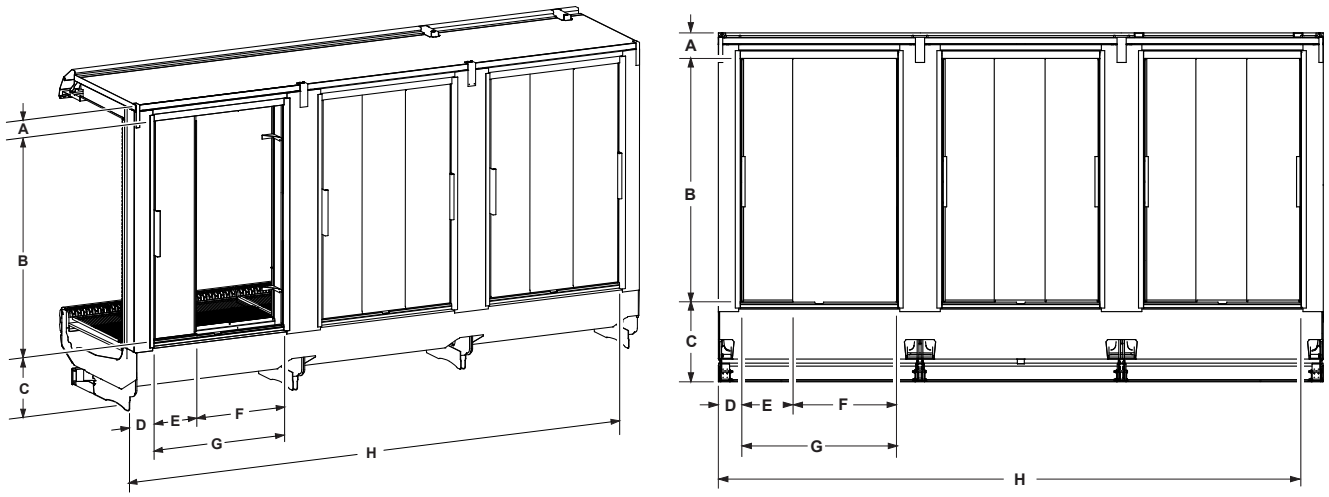
Rear Views



Dimensions shown as in. and (mm).

Item	*Merchandisers*			
	4 Ft	**6 Ft**	**8 Ft**	**12 Ft**
A	6 1/8 (155)			
B	58 1/4 (1478)			
C	19 1/8 (484)			
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. Add 10 BTU per foot per hour for each row of LED shelf 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 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] (1.48 for six shelves); then add together [0.48+ 1.48 = 1.96 amps for 120V] (for 230V, multiply 1.96 * 0.52 = 1.02).

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 2014: Original Issue
Revision B: December 2015: Updated cross section and plan view.
Revision C: April 2016: Updated cover image, updated application data, added Gross Refrigerated Volume and updated plan view.
Revision D: June 2016: Updated cover image.
Revision E: August 2016: Updated cross section and plan view.
Revision F: January 2017: Added rail light updates.
Revision G: April 2017: Updated LED energy values.
Revision H: April 2017: Updated LED energy values.
Revision J: September 2017: Updated notes page. Other changes marked with a bar, circle or underline.
Revision K: July 2019: Updated parts list, lighting and CaseShieldPTM.
Revision L: December 2023: Updated fan and lighting information. Removed replacement parts page. Updated wiring diagrams.