

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.

Performance Data	Page 2	Shelf Options	Page 6
Product Data (AHRI Statistics)	Page 2	Wiring Diagrams	Page 7
Cross Section	Page 3	Rear Views	Page 10
Plan View	Page 4	Computing Refrigeration and Electrical Load	Page 11
Electrical Loads	Page 5	QR Code for Parts and Product Information	Page 11
Estimated Shipping Weights	Page 6	Revision History	Page 11

Data sheet-Insight ID5SM-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.

	ID5SM-R	Optimal	Optimal Shelf Life		
	Application	Dairy/Deli/ Beverage/ Produce	NSF Type 2 Ambient ³	AHRI 1200 Rating Point ⁴	
	Discharge Air °F (°C)	34 (1.11)	33 (0.55)	36 (2.22)	
Unlit Shelves	Average Evaporator °F (°C) ²	26 (-3.33)	25 (-3.88)	29 (-1.66)	
	Parallel Btu/hr/ft (Watts/m) 6	1135 (1091)	1385 (1322)	980 (942)	
	Conventional Btu/hr/ft (Watts/m) 6	1245 (1197)	1515 (1457)	1075 (1034)	
	Discharge Air °F (°C)	33 (0.55)	32 (0.00)	35 (1.66)	
Lit	Average Evaporator °F (°C) ²	25 (-3.88)	24 (-4.44)	28 (-2.22)	
Shelves	Parallel Btu/hr/ft (Watts/m) ^{5, 6}	1155 (1111)	1400 (1346)	995 (957)	
	Conventional Btu/hr/ft (Watts/m) 5,6	1285 (1236)	1535 (1476)	1090 (1048)	
Fan Snood ⁷	ID5SL6R (8.25")	14007	1700 ⁷	1400 ⁷	
Fan Speed ⁷	ID5SL4R, 8R, 12R (8.25")	14007	1700 ⁷	14007	

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 speed control kits applied by the Hussmann Product Configurator.

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		Conventional Controls	Estima	ted Charg	je ¹² ID	5SM-R
Frequency (hours between Defrost Water ¹⁰	en defrost) 4 9.5 lb/ft/day (14.2 kg/m) configuration and product	ID5SM-R Low Pressure Backup Control CI/CO ¹¹ 18°F /8°F -7.8°C / -13.3°C Indoor Unit Only, Pressure Defrost		•	9.6 oz 17.6 oz 24 oz 46.4 oz e for all refrige narge may var	
Time (minutes) ELECTRIC OR GAS	20 Not Available	Termination ¹¹ 48°F (8.9°C) ¹¹ Use a Temperature Pressure Chart to determine PSIG conversions.		half a pound	• •	
Product Data Gross Refrigerated AHRI Total Display Shelf Area ¹⁵ (Sq Fi		11.7 ft³/ft (1.08 m³/m) 4.27 ft²/ft (1.30 m²/m) 9.85 ft²/ft (3.00 m²/m)				

¹³ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹⁴ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

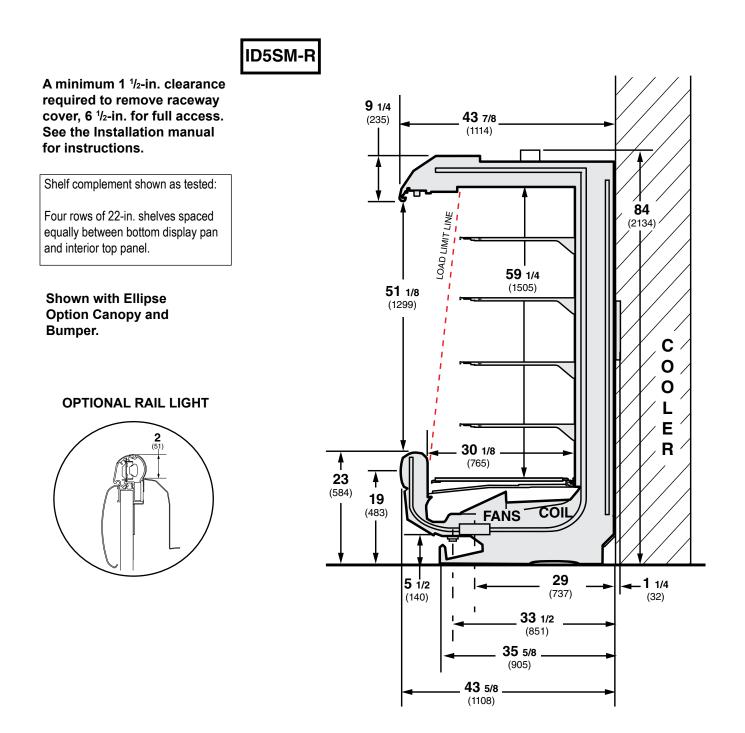
¹⁵ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (4) rows of 22-in. shelves

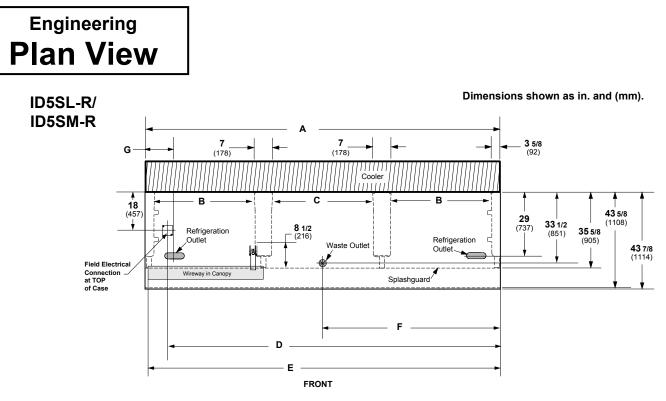
Insight Multideck Merchandiser, Standard Bottom, Medium Height Front, Rear Load, 5 Display Levels



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).





(12 Foot Model shown above)

		4 ft	6 ft	8 ft	12 ft
Gene	ral				
(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)
Elect	rical 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)
Wast	e 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)
Refri	geration 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				
				Amp	eres			Wa	itts	
Evapora	tor 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
Minimur	n Circuit A	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				
Maximu	m Over Cı	urrent 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	0.40			0 5 4	40		40	~ ~ ~
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
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

Merchandiser Drip Pipe (in.)1 1/4Schedule 40 PVCMerchandiser Liquid Line (in.)3/8Merchandiser 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	l 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.

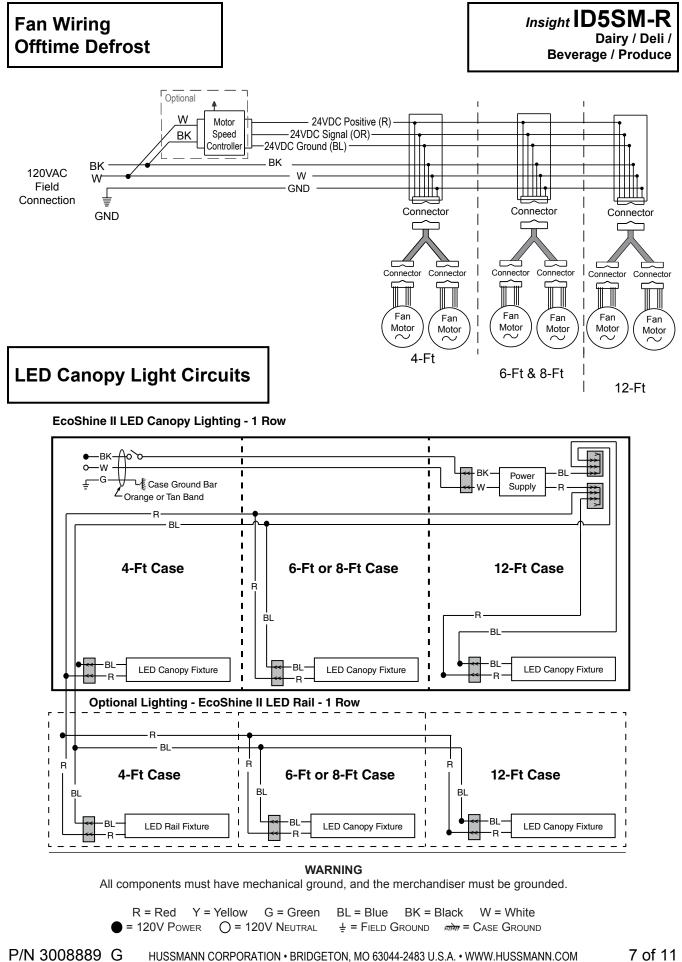
Minimum number of Shelves: 3

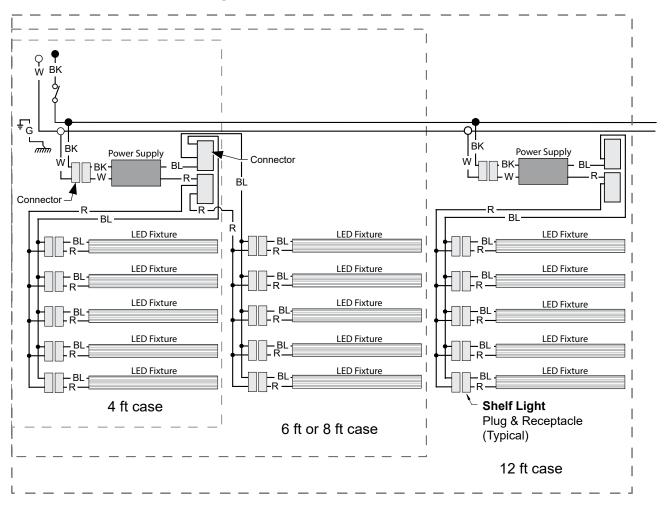
Optimal number of Shelves: 4

Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 6

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



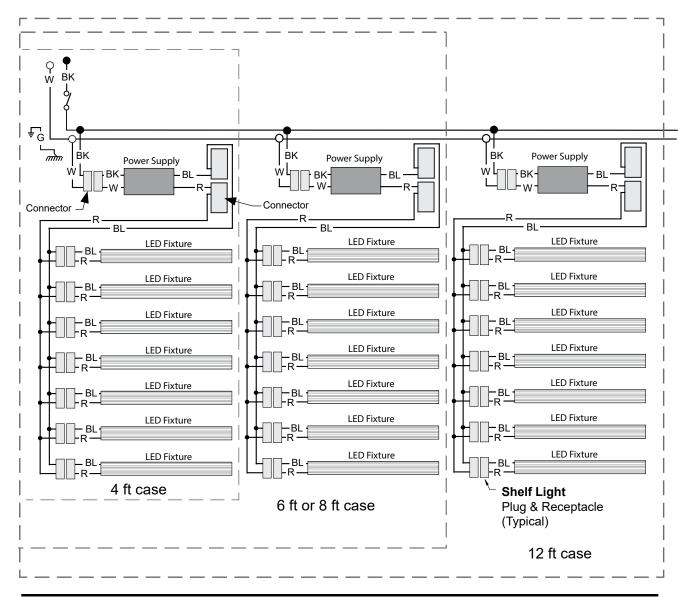


Shelf Harness and LED Light Circuits for 4 or 5 Rows of Shelves

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 mm = CASE GROUND



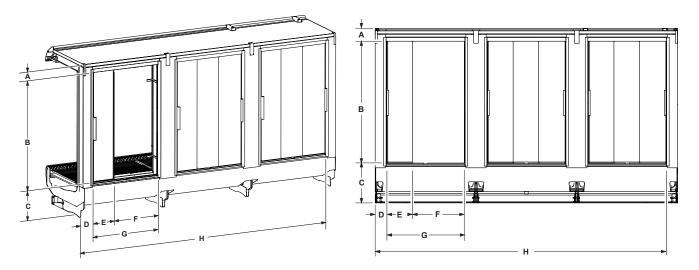
Shelf Harness and LED Light Circuits for 6 or 7 Rows of Shelves

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 \circ = 120V Neutral $\frac{1}{2}$ = Field Ground mm = Case Ground





Dimensions shown as in. and (mm).

Item	Merchandisers								
nem	4 Ft	6 Ft 8 Ft		12 Ft					
Α	6 ¹ / ₈ (155)								
В		58 ¹ / ₄ (1478)							
С	19 ¹ / ₈ (484)								
D	5 5/8 (142)								
E	12 ¹ / ₄ (309)	12 ¹ / ₄ (309) 8 ¹ / ₈ (206) 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							
Н	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 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: June 2016: Original Issue.

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

Revision C: January 2017: Added rail light updates.

Revision D: April 2017. Updated LED energy values.

Revision E: April 2017. Updated LED energy values.

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

Revision G: July 2019. Updated parts list, lighting and CaseShieldPTM.