

8 foot merchandiser shown.

NSF Certification

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

Performance Data Product Data (AHRI Statistics) Cross Section Plan View Electrical Loads

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Data sheet-Insight IP4SL

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.

	IP4SL		Optimal Shelf Life		Energy Comparison
	Application	Cut Produce	Bulk Produce	NSF Type 2 Ambient ³	AHRI 1200 Rating Point⁴
	Discharge Air °F (°C)	35 (1.66)	42 (5.55)	31 (-0.55)	35 (1.66)
Unlit Shelves	Average Evaporator °F (°C) ²	29 (-1.66)	37 (2.77)	27 (-2.77)	29 (-1.66)
	Parallel Btu/hr/ft (Watts/m)	1065 (962)	775 (745)	1345 (1294)	1065 (962)
	Conventional Btu/hr/ft (Watts/m)	1160 (1115)	840 (808)	1470 (1414)	1160 (1115)
	Discharge Air °F (°C)	34 (1.11)	41 (5.55)	30 (-1.11)	34 (1.11)
Lit	Average Evaporator °F (°C) ²	28 (-2.22)	36 (2.77)	26 (-3.33)	28 (-2.22)
Shelves	Parallel Btu/hr/ft (Watts/m) ⁵	1075 (1034)	785 (755)	1365 (1313)	1075 (1034)
	Conventional Btu/hr/ft (Watts/m) 5	1175 (1130)	850 (817)	1490 (1433)	1175 (1130)
Fan Snoodh	IP4SL6 (8.25")	1400 ⁶	1400 ⁶	1600 ⁶	1400 ⁶
Fan Speed ⁶	IP4SL4, 8, 12 (10.3")	1050	1050	1300 ⁶	1050

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 — Cut Product		Conventional Controls	Estima	Estimated Charge ⁹ IF		
Frequency (hours between defrost) 4		IP4SL	4 ft	0.6 lb	10 oz	0.3 kg
		Low Pressure Backup	.ow Pressure Backup 6 ft 1.1 lb 1			
OFFTIME	IP4SL	Control CI/CO ⁸	8 ft	1.5 lb	24 oz	0.7 kg
Time (minutes)	20	20°F / 10°F –6.67°C / –12.2°C	12 ft	2.9 lb	46 oz	1.3 kg
ELECTRIC OR GAS	Not Available					
		Indoor Unit Only,	⁹ This is	an average f	for all refrige	erant types.
Defrost Water ⁷	7.8 lb/ft/day (11.6kg/m)	Pressure Defrost Termination ⁸		efrigerant cha half a pound.	0 ,	ry by approx-
⁷ (± 15% based on case configuration and product		48°F (8.89°C)				
loading).		⁸ Use a Temperature Pressure Chart to				
		determine PSIG conversions.				

Product Data

Gross Refrigerated Volume ¹⁰ (Cu Ft/Ft) AHRI Total Display Area ¹¹ (Sq Ft/Ft) Shelf Area ¹² (Sq Ft/Ft) 8.9 ft³/ft (0.83 m³/m) 3.97 ft² /ft (1.21 m²/m) 7.02 ft² /ft (2.14 m²/m)

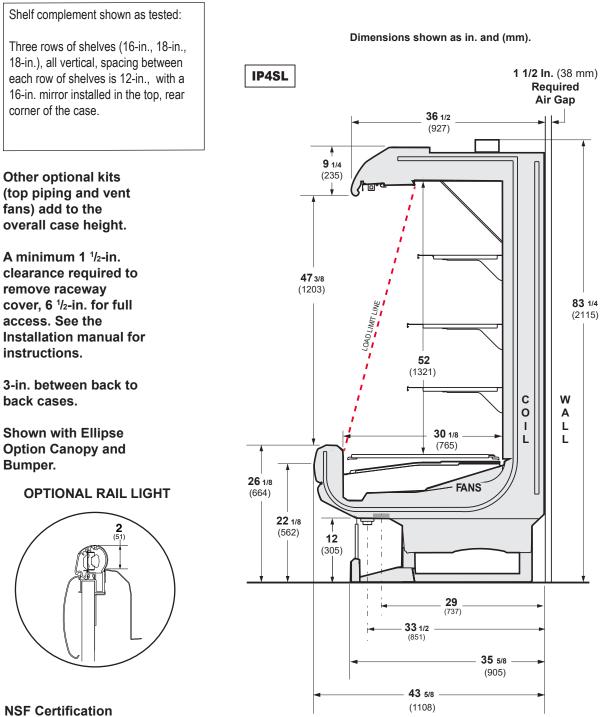
¹⁰ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

- ¹¹ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- ¹² Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (3) rows of shelves: 16-in., 18-in., 18-in.

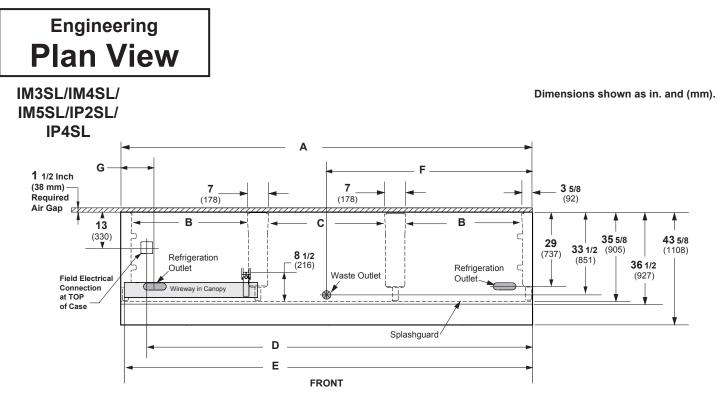
Insight Multideck Merchandiser, 4 Display Levels, Standard Bottom, Low Height Front



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



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



		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	13 (330)	13 (330)	13 (330)	13 (330)
	Length of electrical wireway	44 5/8 (1133)	33 ¹ / ₂ (851)	45 ⁷ /8 (1191)	45 7/8 (1191)
(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 (3623)
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	-	-				
10.3-in			1	-	2	3				
					Amperes	-			Watts	
-	6 F				•		4.54	0.64		10.5
Evapora	tor Fan		4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient	0.40	0.60	0.80	1.20	24	36	48	72
230V	50/60Hz	Energy Efficient	0.21	0.31	0.42	0.62	24	36	48	72
Minimur	n Circuit A	Ampacity								
120V	60Hz	Energy Efficient	0.60	0.80	1.00	1.40				
230V	50/60Hz	Energy Efficient	0.41	0.51	0.62	0.82				
Maximum Over Current Protection 120V			20	20	20	20				
Maximur	n Over Cu	rrent Protection 230V	15	15	15	15				

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.

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
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.)1 1/4Schedule 40 PVCMerchandiser Liquid Line (in.)3/8Merchandiser Suction Line (in.)5/8

ESTIMATED SHIPPING WEIGHT †								
Case	4 ft	6 ft	8 ft	12 ft	Solid End (each)			
lb (kg)	700 (318)	850 (386)	950 (431)	1200 (544)	70 (32)			
† 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 20-inch 22-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: 6

Maximum number of Lighted Shelves: 5

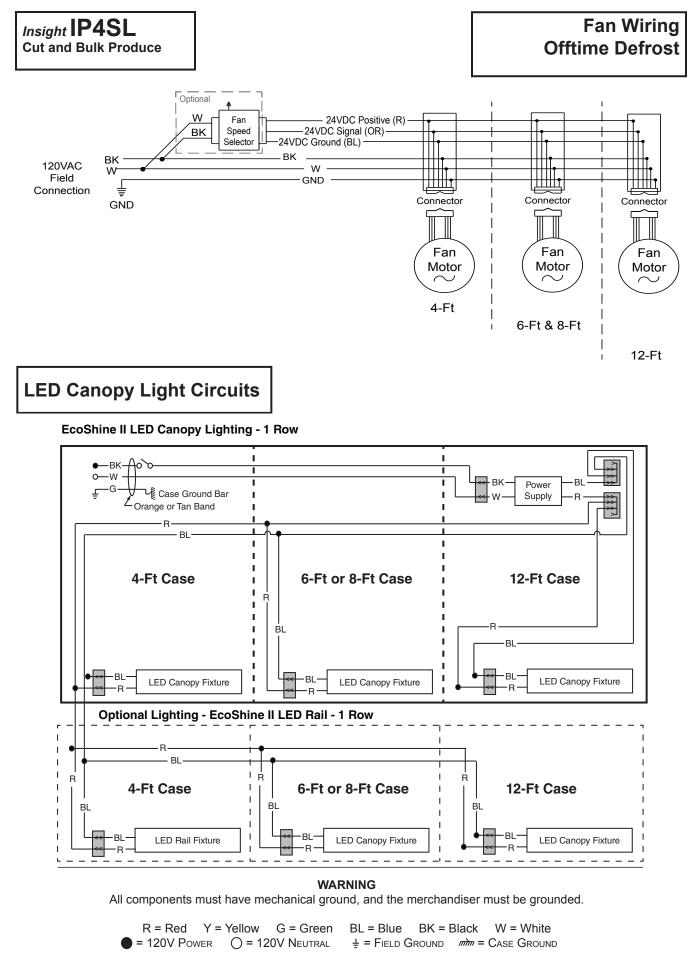
Standard shelf complement for test purposes: (3) rows of shelves (16-in., 18-in., 18-in.), all vertical with a 16-in. mirror, spacing between each row of shelves is 12-in.

Replacement Parts List

Part #	E	Description	Part #	Description
FAN A	SSEMBLIES		Coils	
Stand	l ard HE Fan <i>i</i>	Assembly	0534323	4 ft, 8 ft, 12 ft
4 Ft, 8 Ft & 12 Ft			0534322	6 ft only
	0535564	10.3-in. Fan Assembly		
			Нолеусомв - Шніте	
6 Ft			0536831	4 ft, 8 ft, 12 ft
	0535563	8.25-in. Fan Assembly	0536829	6 ft only
THERM	OSTATS		Other	
	OPTIONAL		0534357	Fan Speed Key 1300 RPM
			0534359	Fan Speed Key 1400 RPM
LED F	IXTURES AND F	OWER SUPPLY	0534363	Fan Speed Key 1600 RPM
	0501213	Power Supply	0534013	Fan Speed Selector
		LED Canopy Fixture		(Standard on 6 ft model)
		Replace with like fixtures.	Varies	Thermo-expansion Valve
		LED Shelf Fixture		
		Replace with like fixtures.		
		LED Rail Fixture		
		Replace with like fixtures.		

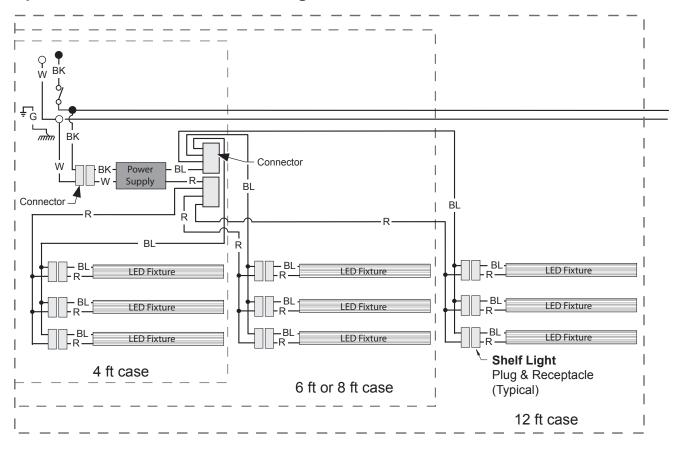
NOTE: For LED lighting parts contact your Hussmann service representative at 1-800-922-1919. Please have your model and serial number available. Descriptions including size and color are at http://www.hussmann.com/ EN/PRODUCTS/LED-LIGHTING/PAGES/DEFAULT.ASPX.

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



U.S. & CANADA 1-800-922-1919 • MEXICO 1-800-890-2900

IP4SL Merchandiser Data Sheet

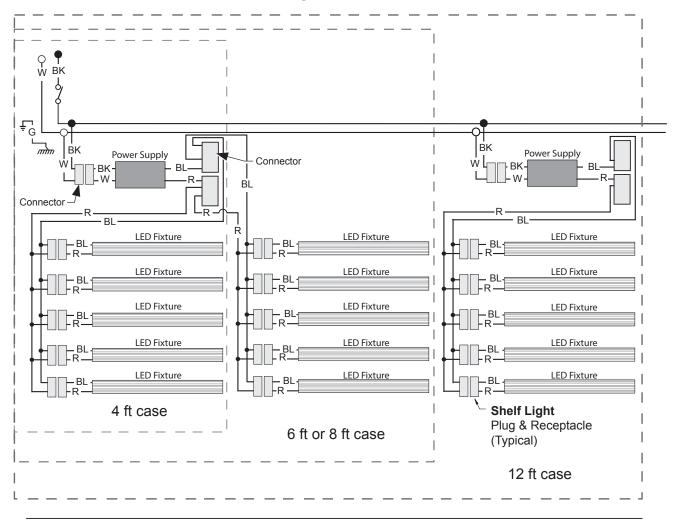


Optional Shelf Harness and LED Light Circuits for 2 or 3 Rows of Shelves

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



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 Pov	ver 0 = 1	20V Neutral	± = Field G	ROUND mm	= 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. Add 10 BTU/HR/FT 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 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] (1.24 for five shelves); then add together [0.48 + 1.24 = 1.72 amps for 120V] (for 230V, multiply $1.72 \times 0.52 = 0.89$).

Line Sizing — Refer to store legend.

Hussmann Line Sizing Charts are engineered for use with Hussmann refrigeration equipment.



Revision History

Revision A: August 2013: Original Issue

Revision B: October 2015: Updated application data.

Revision C: December 2015: Updated cross section and plan view.

Revision D: April 2016: Updated application data, added Gross Refrigerated Volume and updated plan view.

Revision E: August 2016: Updated cross section and updated plan view.

Revision F: January 2017: Added rail light updates.

Revision G: April 2017: Updated LED energy values.

Revision H: September 2017: Updated notes page.

Revision J: September 2017: Updated notes page.

Revision K: February 2018: Updated cross section.