HUSSMANN®

Insight® IP1SL

Bulk Produce

Merchandiser Data Sheet

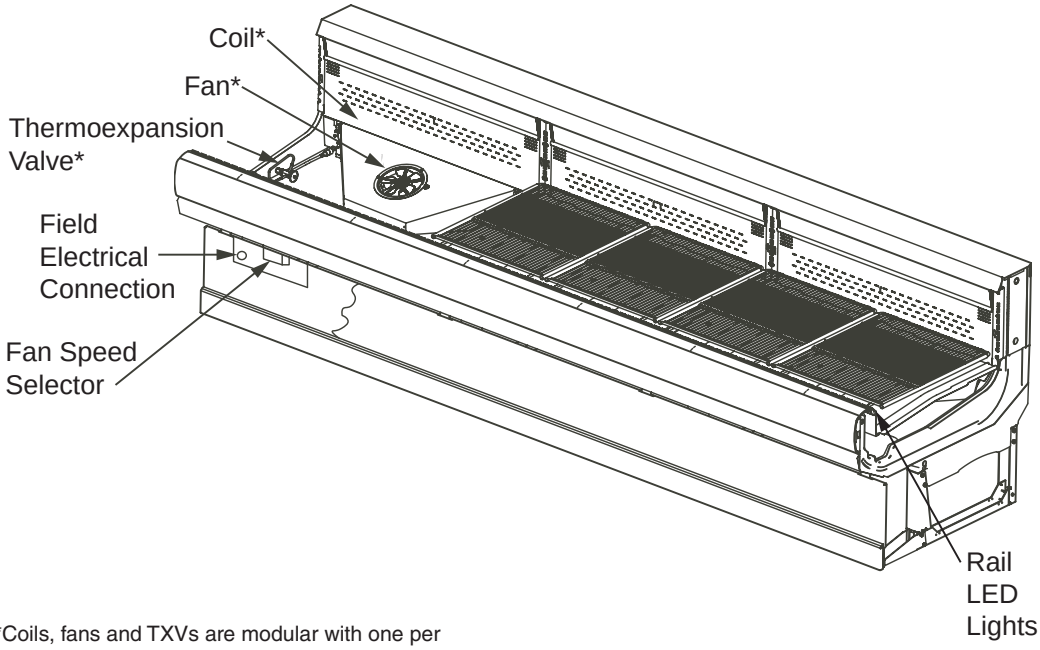
P/N 0551248_F

NSF® Certified

September 2017

Insight standard field electrical connections are at the bottom 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.

NSF Certification

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

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Spanish P/N 0551249

Insight **IP1SL**
Produce

Refrigeration Data [1]

IP1SL		Optimal Shelf Life			Energy Comparison
Application		Bulk Produce	Bulk NSF Type 2 Ambient[3]	Cut Produce	AHRI 1200 Rating Point[4]
Unlit	Discharge Air °F (°C)	37 (2.77)	33 (0.55)	31 (-0.55)	31 (-0.55)
	Average Evaporator °F (°C) [2]	31 (-0.55)	27 (-2.77)	26 (-3.33)	26 (-3.33)
	Parallel Btu/hr/ft (Watts/m)	255 (245)	295 (284)	430 (414)	430 (414)
	Conventional Btu/hr/ft (Watts/m)	285 (274)	330 (317)	485 (466)	485 (466)
Lit	Discharge Air °F (°C)	N/A	N/A	N/A	N/A
	Average Evaporator °F (°C) [2]	N/A	N/A	N/A	N/A
	Parallel Btu/hr/ft (Watts/m)	N/A	N/A	N/A	N/A
	Conventional Btu/hr/ft (Watts/m)	N/A	N/A	N/A	N/A
Fan Speed[5]	IP1SL6 (7")	1200[5]	1200[5]	1200[5]	1200[5]
	IP1SL4, 8, 12 (7")	1200[5]	1200[5]	1200[5]	1200[5]

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. Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator.

Defrost Data

Frequency (hours between defrost) 6

Offtime	IP1SL
Time (minutes)	20
Electric or Gas	Not Available
Defrost Water [6]	2.5 lb/ft/day (3.7 kg/m)

[6] **(± 15%** based on case configuration and product loading).

Conventional Controls

	IP1SL
Low Pressure Backup Control CI/CO [7]	27°F / 17°F –2.78°C / –8.33°C
Indoor Unit Only, Pressure Defrost Termination [7]	48°F (8.89°C)

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

Estimated Charge [8]

			IP1SL
4 ft	0.5 lb	8 oz	0.2 kg
6 ft	0.8 lb	13 oz	0.4 kg
8 ft	1.1 lb	18 oz	0.5 kg
12 ft	1.9 lb	30 oz	0.9 kg

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

Product Data

Gross Refrigerated Volume [9] (Cu Ft/Ft)	1.67 ft^3/ft (0.16 m^3/m)
AHRI Total Display Area [10] (Sq Ft/Ft)	2.57 ft^2/ft (0.78 m^2/m)
Shelf Area [11] (Sq Ft/Ft)	2.53 ft^2/ft (0.77 m^2/m)

[9] AHRI Refrigerated Volume: Refrigerated Volume/Unit of Length, ft^3/ft [m^3/m]
[10] Computed using AHRI 1200 standard methodology: Total Display Area, ft^2 [m^2]/Unit of Length, ft [m]
[11] Shelf surface area is composed of bottom deck plus standard shelf complement for this model: None.

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).

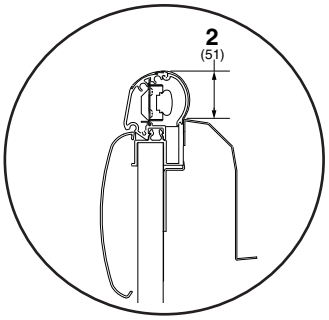
3-in. between back to back cases.

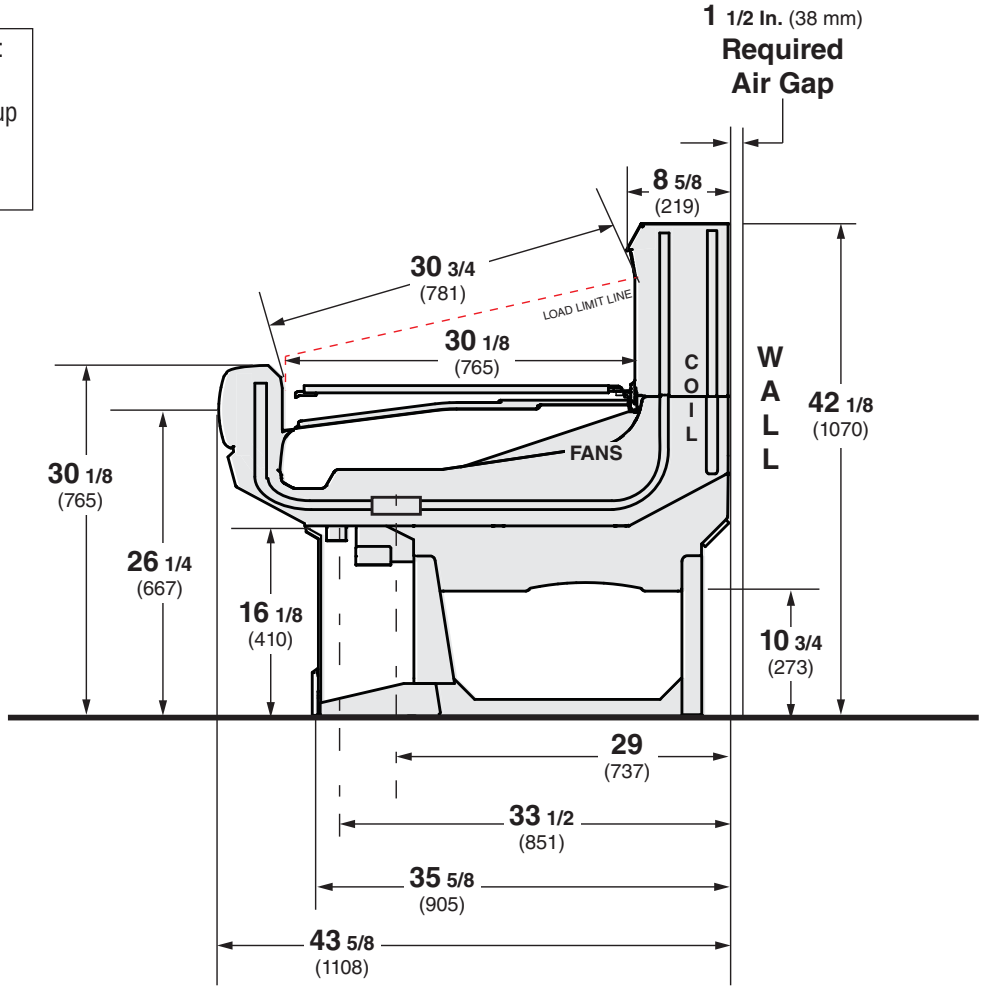
IP1SL

Shelf complement shown as tested:

No shelves; wire racks are angled up in the back, positioned 6-in. above the bottom-most (flat) location.

OPTIONAL RAIL LIGHT





NSF Certification

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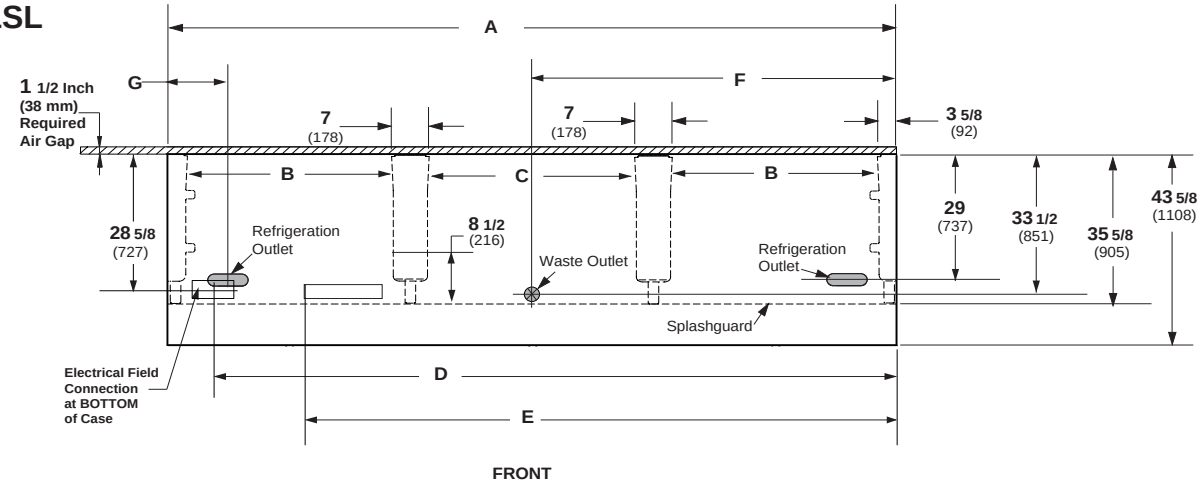
Engineering
Plan View

Dimensions shown as in. and (mm).

IM1SL/IM1SM/ IP1SL



(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 1/8 (206)	8 1/8 (206)	8 1/8 (206)	8 1/8 (206)
Electrical Service *(Field Electrical Wiring Connection)*					
(D)	RH End of case to center of Field Electrical Wiring Connection *(bottom of case)*	12 (305)	60 1/4 (1530)	84 3/8 (2143)	132 1/2 (3366)
	Back of case to center of Field Electrical Wiring Connection	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)
	Length of electrical wireway	20 (508)	20 (508)	20 (508)	20 (508)
(E)	RH end of case to LH end of electrical wireway *(bottom of case)*	44 3/4 (1137)	26 3/8 (670)	71 5/8 (1819)	119 3/4 (3042)
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)

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 1/4
Schedule 40 PVC	
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)*	500 (227)	575 (261)	625 (284)	750 (340)	40 (18)

† Actual weights will vary according to optional kits included.

***Insight* IP1SL**
Produce

Electrical Data

Number of Fans	**4 ft**	**6 ft**	**8 ft**	**12 ft**
7.0-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	0.12	0.24	0.24	0.36	8	16	16	24
230V	50/60Hz	Energy Efficient	0.06	0.12	0.12	0.18	8	16	16	24

Minimum Circuit Ampacity						
120V	60Hz	Energy Efficient	0.32	0.44	0.44	0.56
230V	50/60Hz	Energy Efficient	0.26	0.32	0.32	0.38

Maximum Over Current Protection 120V	**20**	**20**	**20**	**20**
Maximum Over Current 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

None

OPTIONAL LIGHTING

EcoShine II Rail Light								
1 Row	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7

SHELF OPTIONS

None

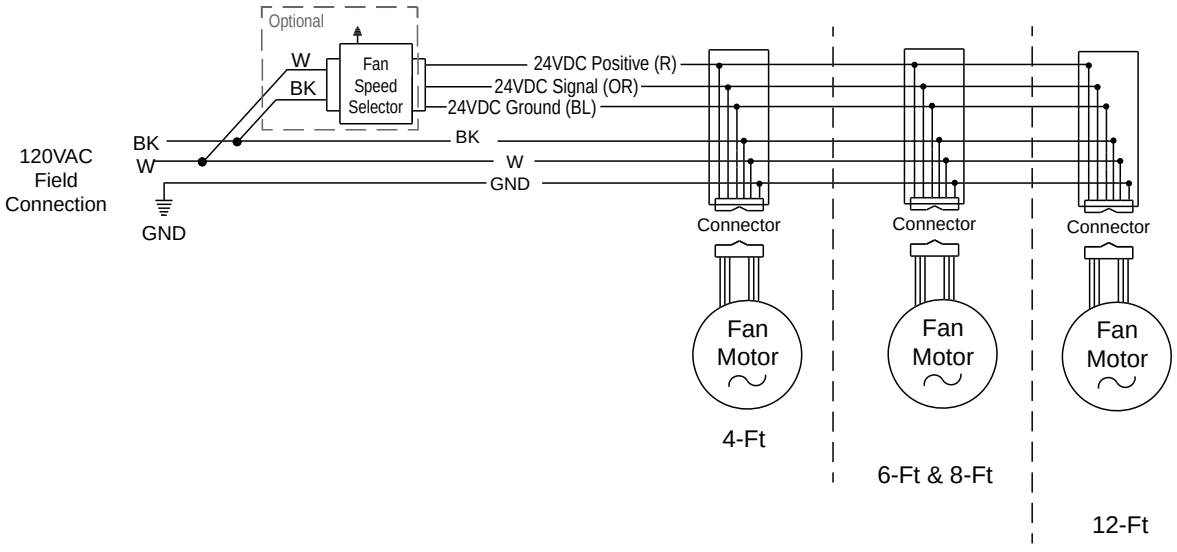
Replacement Parts List

Part #	Description
Fan Assemblies	
4 Ft, 6 Ft, 8 Ft & 12 Ft	
Standard HE Fan Assembly	
0535562	7-in. Fan Blade Assembly
Thermostats	
Optional	
Coils	
0534327	4 ft, 8 ft, 12 ft
0534326	6 ft Only

Part #	Description
LED Fixtures	
	LED Rail Fixture
	Replace with like fixtures.
Other	
0534355	Fan Speed Key 1200 RPM
0534013	Fan Speed Selector (Standard on IP1SL)
Varies	Thermo-expansion Valve

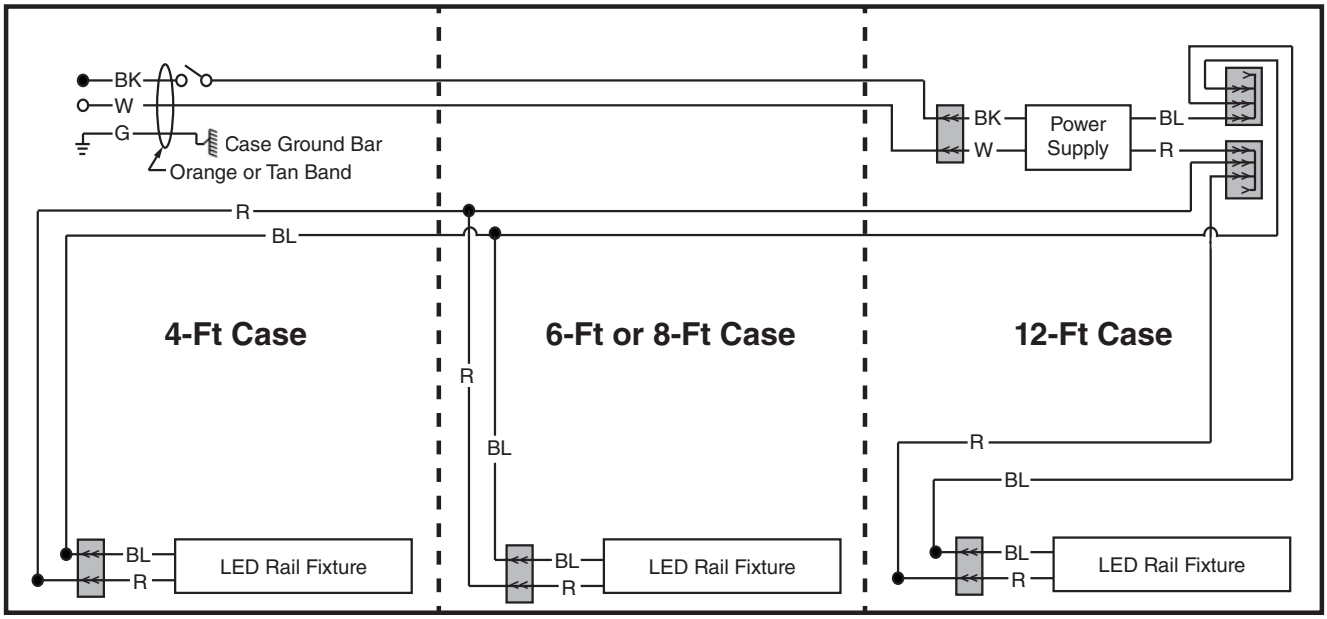
For additional parts information, visit
http://www.hussmann.com/en/Pages/Aftermarket-Parts.aspx

Fan Wiring Offtime Defrost



LED Light Circuits

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

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 with or without front glass, 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.

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 0.18 Amps and the MCA is 0.38. 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.

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: February 2016: Original Issue

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

Revision C: August 2016: Updated cross section.

Revision D: January 2017: Added rail light updates.

Revision E: April 2017. Updated LED energy values.

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