

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 Estimated Shipping Weights

Page 2	Electrical Loads	Page 6
Page 2	Replacement Parts List	Page 7
Page 3	Wiring Diagrams	Page 7
Page 4	Computing Refrigeration and Electrical Load	Page 9
Page 5	Revision History	Page 9

Data sheet-Insight IM1SM

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.

IM1SM			Optimal Shelf Life					
	Application	Meat Meat with Glass Front ³		NSF Type 2 Ambient⁴	AHRI 1200 Rating Point⁵			
	Discharge Air °F (°C)	32 (0)	33 (0.55)	29 (-1.66)	32 (0)			
Unlit	Average Evaporator °F (°C) ²	27 (-2.77)	29 (-1.66)	24 (-4.44)	27 (-2.77)			
	Parallel Btu/hr/ft (Watts/m)	340 (327)	285 (274)	400 (385)	340 (327)			
	Conventional Btu/hr/ft (Watts/m)	385 (370)	320 (308)	450 (433)	385 (370)			
	Discharge Air °F (°C)	N/A	N/A	N/A	N/A			
1:4	Average Evaporator °F (°C) ²	N/A	N/A	N/A	N/A			
Lit	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			
Fair Circado	IM1SM6 (7")	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶			
Fan Speed ⁶	IM1SM4, 8, 12 (7")	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶			

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. See second column of data for glass front loads and settings.

4. Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.

5. AHRI 1200 Rating Point for energy consumption comparison only.

6. Some lengths and/or applications require fan speed control.

Defrost Data		Conventional Controls	Estima	9 ⁹	IM1SM	
Frequency (hours betwe	en defrost) 6	IM1SM	4 ft	0.5 lb	8 oz	0.2 kg
OFFTIME	IM1SM	Low Pressure Backup Control CI/CO ⁸	6 ft 8 ft	0.8 lb 1.1 lb	13 oz 18 oz	0.4 kg 0.5 kg
Time (minutes)	40	18°F / 8°F –7.78°C / –13.3°C	12 ft	1.9 lb	30 oz	0.9 kg
ELECTRIC OR GAS	Not Available	Indeer Unit Only	⁹ Thio io	an average f	for all rafrig	aront types
Defrost Water ⁷	2.5 lb/ft/day (3.7 kg/m)	Indoor Unit Only, Pressure Defrost Termination ⁸	Actual r	0	arge may va	ary by approx-
⁷ (± 15% based on case configuration and product loading).		48°F (8.89°C)				
		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) 1.7 ft³/ft (0.16 m³/m) 2.46 ft²/ft (0.75 m²/m) 2.52 ft²/ft (0.77 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]

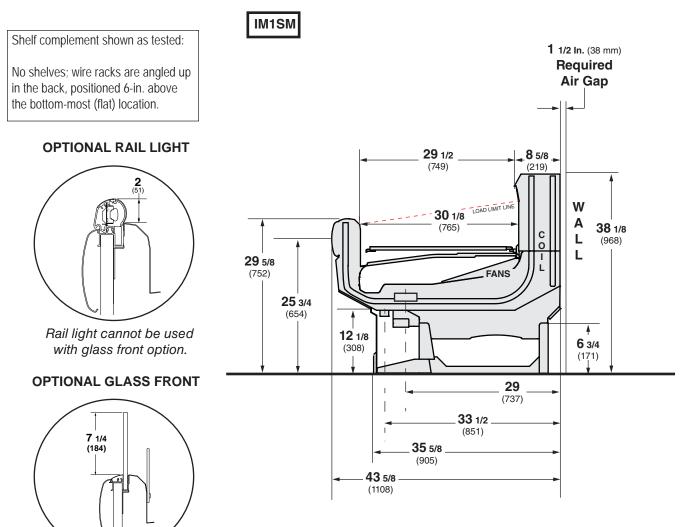
¹² Shelf surface area is composed of bottom deck plus standard shelf complement for this model: None.

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.



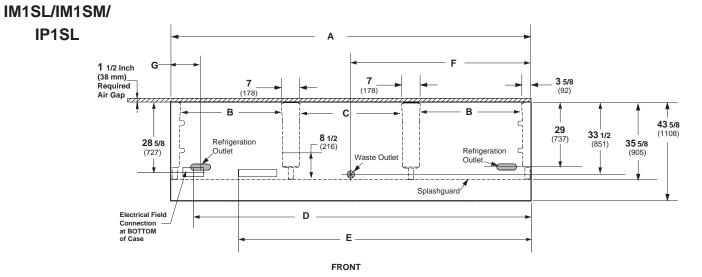
Glass front cannot be used with rail light option.

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Engineering Plan View

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 ¹ /8(206)	8 1/8 (206)	8 1/8 (206)
Elect	rical Service (Field Electrical Wiring Connection)				
(D)	RH End of case to center of Field Electrical Wiring Connection (<i>bottom of case</i>)	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 ¹ /2(673)	71 3/4 (1822)	119 3/4 (3042)
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)

ENDS or PARTITIONS Each standard end and each insulated partition				PHYSICAL DATAMerchandiser Drip Pipe (in.)1 1/4				
adds 1 $\frac{1}{2}$ in. (38 mm) to case line up. Optional view end with end bumper adds 3 $\frac{3}{4}$ in. (95 mm).				Schedule 4 Merchandiser Liqui Merchandiser Sucti	d Line (in.)	³ /8 5/8		
	ESTIMATED SHIPPING WEIGHT †							
Case	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.								

Electrical Data

Number	of Fans		4 ft	6 ft	8 ft	12 ft				
7.0-in.			1	2	2	3				
				Am	peres			Wa	tts	
Evapora	tor 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
Minimur	n Circuit A	mpacity								
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.

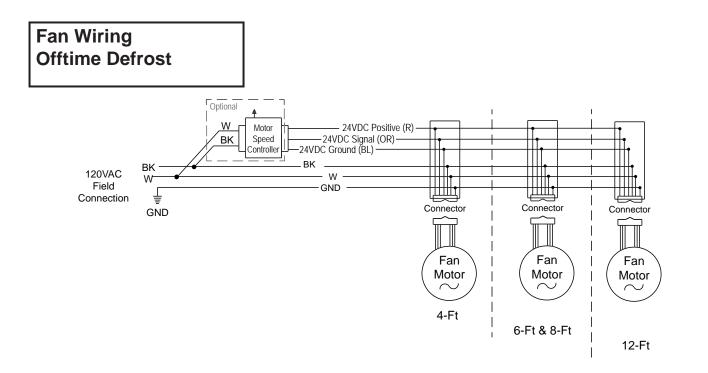
STANDARD LIGHTING None								
OPTIONAL LIGHTING								
EcoShine II Rail Light 1 Row	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7

SHELF OPTIONS

None

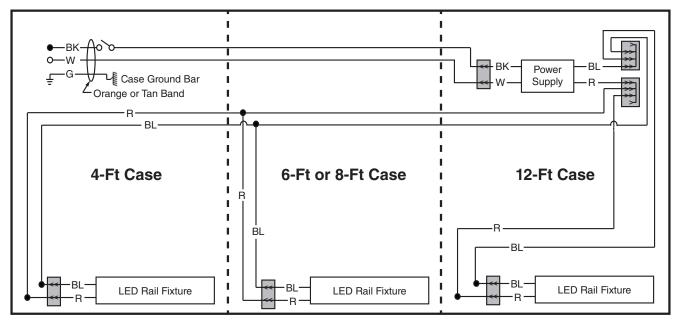
Replacement Parts List

Part #	Description	Part #	Description
FAN ASSEMBLIES		LED FIXTURES	
4 Ft, 6 Ft, 8 Ft & 1	2 Ft		LED Rail Fixture
Standard HE Fan	Assembly		Replace with like fixtures.
0535562	7-in. Fan Blade Assembly		
		Нопеусомв - White	
THERMOSTATS		0536583	4 ft, 8 ft, 12 ft
Optional		0536582	6 ft only
Coils		OTHER	
0534327	4 ft, 8 ft, 12 ft	0538458	Fan Speed Key 1200 RPM
0534326	6 ft Only	0534013	Fan Speed Selector
			(Standard on IM1SM)
		Varies	Thermo-expansion Valve
For additional parts	INFORMATION, VISIT		
http://www.hussmann	.com/en/Pages/Aftermarket-Parts.aspx		



LED Canopy Light Circuits

Optional Lighting - EcoShine II LED Rail - 1 Row



WARNING

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

 $R = Red \quad Y = Yellow \quad G = Green \quad BL = Blue \quad BK = Black \quad W = White$ $= 120V \quad Power \quad \bigcirc = 120V \quad Neutral \quad \stackrel{1}{=} = Field \quad Ground \quad mm = Case \quad Ground$

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.



Revision History

Revision A: March 2016: Original Issue

Revision B: April 2016: Updated cover image, updated application data, added Gross Refrigerated Volume, added optional glass front, 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..