HUSSMANN

Insight® ID5NM

Dairy / Delicatessen / Meat

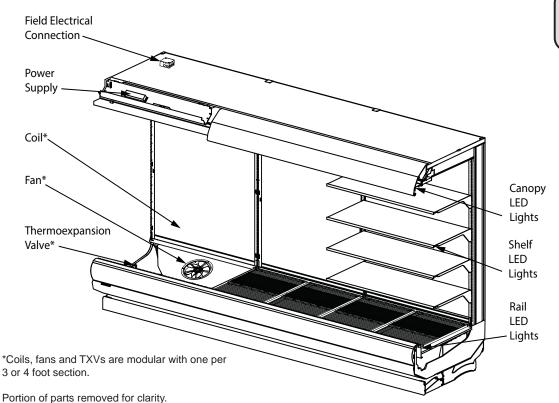
Merchandiser Data Sheet

P/N 0541505_J

NSF® Certified

September 2017

Insight standard field electrical connections are at the top left of the merchandiser









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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Data sheet-Insight ID5NM

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.

Insight ID5NM Dairy / Delicatessen/ Meat

Refrigeration Data 1

	ID5NM		Energy Comparison			
Application		Dairy/Deli/ Beverage/ Produce	Convertible/ Meat	NSF Type 2 Ambient ³	Pegs⁴	AHRI 1200 Rating Point ⁵
	Discharge Air °F (°C)	33 (0.55)	31 (-0.55)	30 (-1.11)	32 (0)	34 (1.11)
Unlit	Average Evaporator °F (°C) ²	28 (-2.22)	27 (-2.77)	26 (-3.33)	26 (-3.33)	30 (-1.11)
Shelves	Parallel Btu/hr/ft (Watts/m) ⁶	1055 (1015)	1110 (1068)	1320 (1269)	1375 (1323)	1020 (981)
	Conventional Btu/hr/ft (Watts/m) ⁶	1150 (1106)	1210 (1164)	1440 (1385)	1500 (1443)	1110 (1068)
	Discharge Air °F (°C)	31 (-0.55)	30 (-1.11)	29 (-1.66)	N/A	33 (0.55)
Lit	Average Evaporator °F (°C) ²	27 (-2.77)	26 (-3.33)	25 (-3.88)	N/A	29 (-1.66)
Shelves	Parallel Btu/hr/ft (Watts/m) 6,7	1070 (1029)	1130 (1087)	1345 (1293)	N/A	1030 (991)
	Conventional Btu/hr/ft (Watts/m) 6,7	1165 (1121)	1230 (1183)	1465 (1409)	N/A	1125 (1082)
Fan Chao da	ID5NM6 (8.25")	14008	1600 ⁸	1600 ⁸	14008	1400 ⁸
Fan Speed ⁸	ID5NM4, 8, 12 (8.25")	14008	1600 ⁸	1600 ⁸	14008	1400 ⁸

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.
- 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. Hussmann Peg Shelves for Dairy/Deli applications only.
- 5. AHRI 1200 Rating Point for energy consumption comparison only.
- 6. Subtract 60 Btu/hr/ft (57.7 Watts/m) for front glass (on applicable models).
- 7. Add 10 Btu/hr/ft (9.6 Watts/m) per shelf row for LED shelf light fixtures.
- 8. Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator.

Defrost Data

 $\begin{array}{ll} \textbf{Frequency} \ (\text{hours between defrost}) & 4 \\ \textbf{Defrost Water}^{\, 9} & 8.2 \ \text{lb/ft/day} \end{array}$

(12.2 kg/m)

⁹ (± 15% based on case configuration and product loading).

OFFTIME ID5NM Time (minutes) 20

ELECTRIC OR GAS Not Available

Conventional Controls

ID5N

Low Pressure Backup Control CI/CO ¹⁰

20°F /10°F -6.7°C / -12.2°C

Indoor Unit Only, Pressure Defrost Termination ¹⁰

48°F (8.9°C)

¹⁰ Use a Temperature Pressure Chart to determine PSIG conversions.

Estima	ID5NM		
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

¹¹ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

 Gross Refrigerated Volume 12 (Cu Ft/Ft)
 9.6 ft³/ft (0.89 m³/m)

 AHRI Total Display Area 13 (Sq Ft/Ft)
 4.27 ft²/ft (1.30 m²/m)

 Shelf Area 14 (Sq Ft/Ft)
 8.11 ft²/ft (2.47 m²/m)

¹² AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹³ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

¹⁴ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (4) rows of 18-in. shelves

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.

Shelf complement shown as tested:

Four rows of 18-in. shelves spaced equally between bottom display pan and interior top panel.

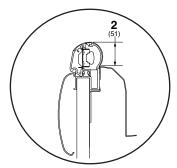
Other optional kits (top piping and vent fans) add to the overall case height.

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

3-in, between back to back cases.

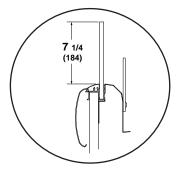
Shown with Ellipse Option Canopy and Bumper.

OPTIONAL RAIL LIGHT



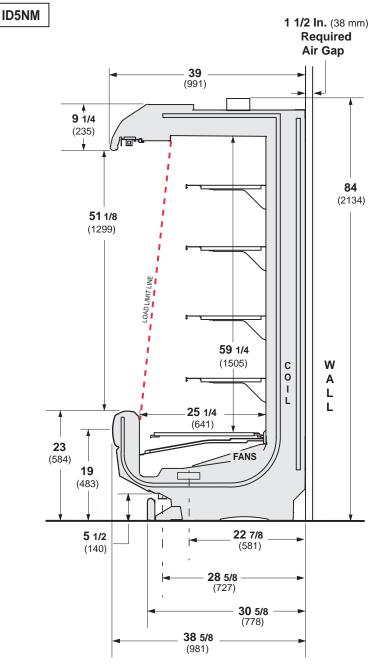
Rail light cannot be used with glass front option.

OPTIONAL GLASS FRONT



Glass front cannot be used with rail light option.

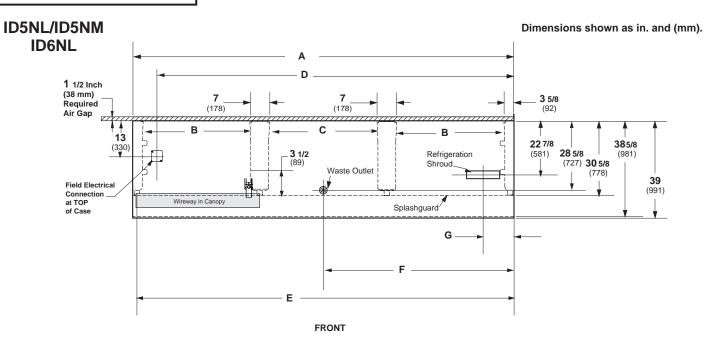
Dimensions shown as in. and (mm).



NSF Certification

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

Engineering Plan View



(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)	38 5/8 (981)	38 5/8 (981)	38 5/8 (981)	38 5/8 (981)
	Back of case to front of splashguard	30 5/8 (778)	30 5/8 (778)	30 5/8 (778)	30 5/8 (778)
(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	3 1/4 (83)	3 1/4 (83)	3 1/4 (83)	3 1/4 (83)
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 (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)	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)
	Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
Refri	geration Shroud				
(G)	Back of case to center of refrigeration shroud	22 7/8 (581)	21 1/8 (537)*	22 7/8 (581)	22 7/8 (581)
	End of case to center of refrigeration shroud *6 ft case at a 42° angle parallel to the plenum	9 1/2 (241)	7 5/8 (194)*	9 1/2 (241)	9 1/2 (241)

Electrical Data

Number	of Fans		4 ft	6 ft	8 ft	12 ft				
8.25-in	١.		1	2	2	3				
				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	0.25	0.50	0.50	0.75	16	32	32	48
230V	50/60Hz	Energy Efficient	0.13	0.26	0.26	0.39	16	32	32	48
Minimur	n Circuit A	Ampacity								
120V	60Hz	Energy Efficient	0.45	0.70	0.70	0.95				
230V	50/60Hz	Energy Efficient	0.33	0.46	0.46	0.59				
Maximu	m Over Cເ	ırrent 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
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
6 Rows of Shelves	0.49	0.70	0.99	1.48	59.3	84.5	118.6	178.0
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

Insight ID5NM Dairy / Delicatessen/ Meat

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)	800 (363)	1000 (454)	1200 (544)	1400 (635)	100 (45)

† 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

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 18-in. shelves evenly distributed vertically.

Replacement Parts List

Part #	Description	Part #	Description
FAN ASSEMBLIES		LED FIXTURES A	ND POWER SUPPLY
Standard HE Fan	Assembly	0501213	Power Supply
4 Ft, 6 Ft, 8 Ft & 1	12 Ft		LED Canopy Fixture
0535563	8.25-in. Fan Assembly		Replace with like fixtures.
0534013	Fan Speed Controller		LED Shelf Fixture
			Replace with like fixtures.
FAN SPEED KEY (OF	PTIONAL)		LED Rail Fixture
8.25 In Fan			Replace with like fixtures.
0534359	1400 RPM		
0534363	1600 RPM (as specified)	Coils	
		0534323	4 ft, 8 ft, 12 ft
THERMOSTATS		0534322	6 ft only
O PTIONAL			
		HONEYCOMB - WI	HITE
		0536831	4 ft, 8 ft, 12 ft
		0536829	6 ft only

THERMO-EXPANSION VALVE

Pre-set Adjustable

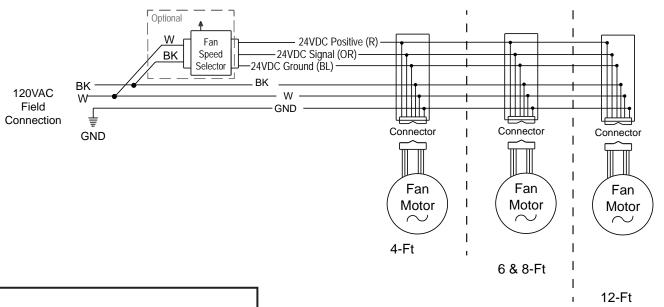
Varies with Refrigerant and Size

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

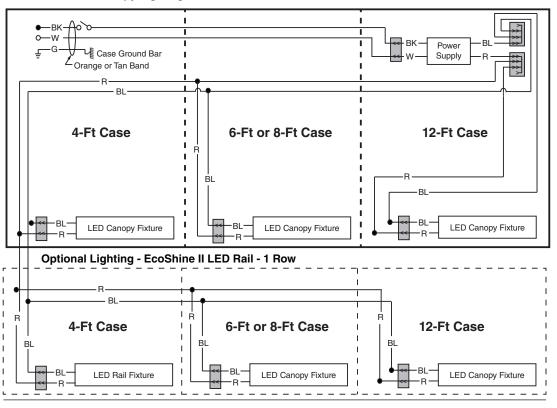
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Fan Wiring Offtime Defrost



LED Canopy Light Circuits

EcoShine II LED Canopy Lighting - 1 Row



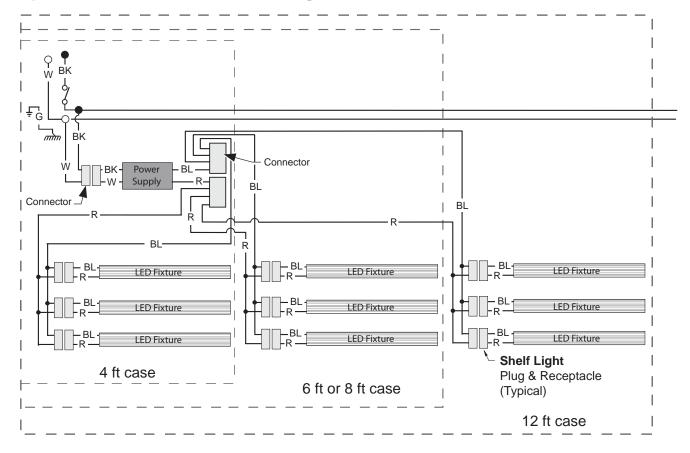
WARNING

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

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
$$\blacksquare$$
 = 120V Power \bigcirc = 120V Neutral $\frac{1}{2}$ = Field Ground $\frac{1}{1000}$ = Case Ground

Optional Shelf Lighting—LED Fixtures

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



WARNING

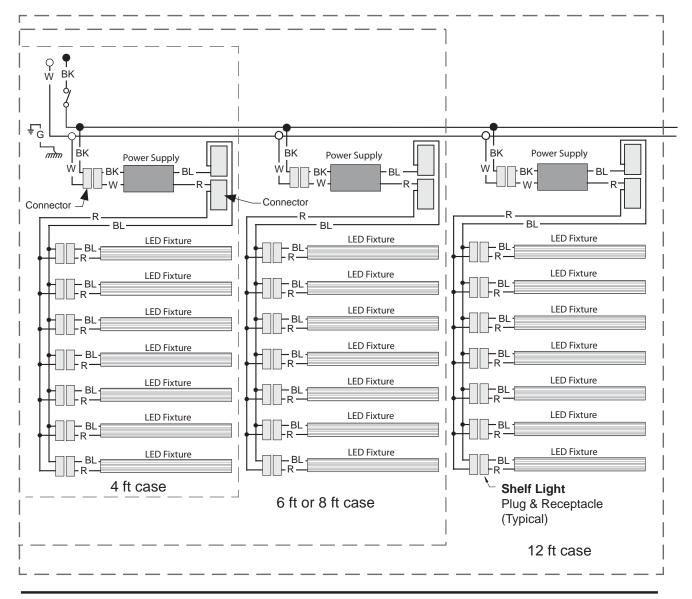
All components must have mechanical ground, and the merchandiser must be grounded.

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
$$\bullet$$
 = 120V Power \circ = 120V Neutral $\frac{1}{2}$ = Field Ground $\stackrel{\text{min}}{\text{min}}$ = Case Ground



Optional Shelf Lighting—LED Fixtures

Optional 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
$$\bullet$$
 = 120V Power \circ = 120V Neutral \bot = Field Ground $\stackrel{min}{\longrightarrow}$ = 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.

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 0.39 Amps and the MCA is 0.59. 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 QR code to access product information on your mobile device.

Revision History

Revision A: May 2014: Original Issue

Revision B: April 2015: Updated cover drawing on page 1. Updated Refrigeration Data and Product Data on page 2.

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

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

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.