HUSSMANN

Insight® IC4SL

Dairy / Delicatessen / Beverage / Meat

Merchandiser Data Sheet

P/N 0551686 F

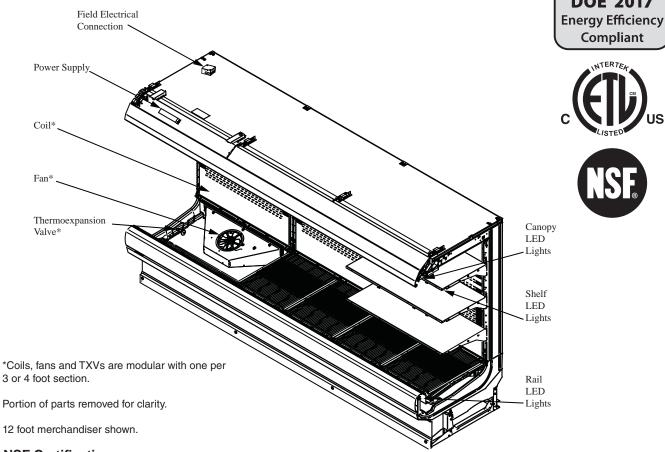
NSF® Certified

September 2017

DOE 2017

Compliant

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



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 IC4SL

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 IC4SL Dairy / Delicatessen / Beverage / Meat

Refrigeration Data 1

	IC4SL		Optimal S	Energy Comparison		
Application		Dairy/Deli/ Beverage/ Produce	Convertible/ Meat	NSF Type 2 Ambient ³	Pegs⁴	AHRI 1200 Rating Point ⁵
	Discharge Air °F (°C)	32 (0)	31 (-0.55)	30 (-1.11)	30 (-1.11)	36 (2.22)
Unlit	Average Evaporator °F (°C) ²	28 (-2.22)	27 (-2.77)	26 (-3.33)	26 (-3.33)	32 (0)
Shelves	Parallel Btu/hr/ft (Watts/m) ⁶	985 (947)	1015 (976)	1360 (1308)	1245 (1197)	955 (918)
	Conventional Btu/hr/ft (Watts/m) ⁶	1070 (1029)	1100 (1058)	1475 (1418)	1360 (1308)	1040 (1000)
	Discharge Air °F (°C)	31 (-0.55)	30 (-1.11)	29 (-1.66)		35 (1.66)
Lit	Average Evaporator °F (°C) ²	27 (-2.77)	26 (-3.33)	25 (-3.88)		31 (-0.55)
Shelves	Parallel Btu/hr/ft (Watts/m) 6,7	995 (957)	1030 (990)	1370 (1317)		965 (928)
	Conventional Btu/hr/ft (Watts/m) 6,7	1080 (1039)	1120 (1070)	1490 (1433)		1055 (1014)
	IC4SL6 (8.25")	1300	1300	1500 ⁸	1300	1300
Fan Speed ⁸	IC4SL4, 8, 12 (8.25")	1300	1300	1500 ⁸	1300	1300

Notes:

- 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 120 Btu/hr/ft (115.4 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 Frequency (hours between defrost) 4 OFFTIME IC4SL Time (minutes) 20 ELECTRIC OR GAS Not Available Defrost Water 9 8.1 lb/ft/day (12 kg/m)

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

Conventional Controls				
IC4SL				
Low Pressure Backup				
ontrol CI/CO 10				
20°F / 10°F				
−6.67°C / −12.2°C				

Indoor Unit Only, Pressure Defrost Termination ¹⁰

48°F (8.89°C)

¹⁰ Use a Temperature Pressure Chart to determine PSIG conversions.

Estima	ted Charge	11	IC4SL
4 ft	0.6 lb	10 oz	0.3 kg
6 ft	1.1 lb	18 oz	0.5 kg
8 ft	1.5 lb	24 oz	0.7 kg
12 ft	2.9 lb	46 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)
 10.15 ft³/ft (0.94 m³/m)

 AHRI Total Display Area 13 (Sq Ft/Ft)
 3.94 ft²/ft (1.20 m²/m)

 Shelf Area 14 (Sq Ft/Ft)
 8.02 ft²/ft (2.44 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: (3) rows of 22-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:

Three rows of 22-in. shelves spaced equally between bottom display pan and interior top panel.

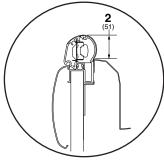
Other optional kits (top piping and vent fans) add to the overall case height.

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.

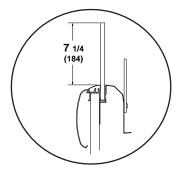
Shown with Ellipse Option Canopy and Bumper.

OPTIONAL RAIL LIGHT



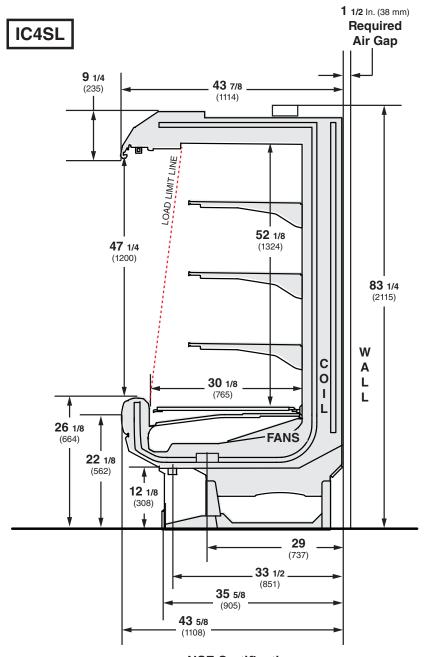
Rail light cannot be used with glass front option.

OPTIONAL GLASS FRONT



Glass front cannot be used with rail light option.

Dimensions shown as in. and (mm).

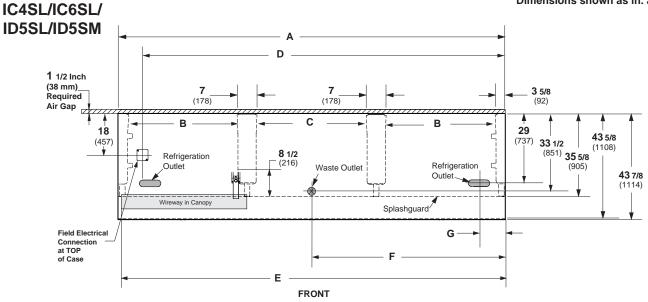


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Engineering Plan View

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 (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			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
Minimun	n Circuit A	mpacity								
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				
Maximur	n Over Cu	rrent Protection 120V	20	20	20	20				
Maximun	n Over Cur	rent 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

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ENDS or PARTITIONS

Each standard end and each insulated partition adds 1 ½ in. (38 mm) to case line up. Optional view end with end bumper adds 3 ¾ 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 (<i>kg</i>)	700 (318)	850 (386)	1000 (454)	1200 (544)	80 (36)

† Actual weights will 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: 2

Optimal number of Shelves: 3

Maximum number of Shelves: 5

Maximum number of Lighted Shelves: 5

Standard shelf complement for test purposes: (3) rows of 22-in. shelves evenly distributed vertically.

Replacement Parts List

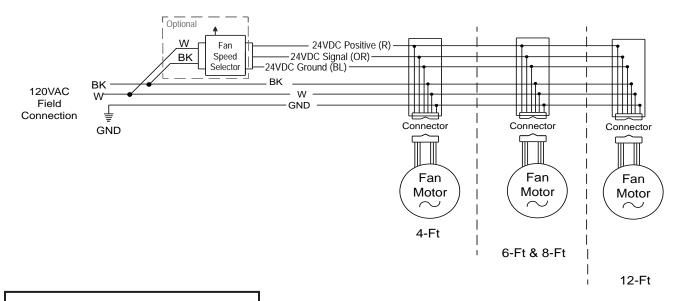
Part #	Description	Part #	Description
FAN ASSEMBLIES		Coils	
4 Ft, 6 Ft, 8 Ft & 1	2 Ft	0534323	4 ft, 8 ft, 12 ft
Standard HE Fan	Assembly	0534322	6 ft only
0535563	8.25-in. Fan Assembly		
		HONEYCOMB - WHITE	
THERMOSTATS		0536831	4 ft, 8 ft, 12 ft
OPTIONAL		0536829	6 ft only
LED FIXTURES AND	Power Supply	OTHER	
0501213	Power Supply	0534013	Fan Speed Selector
	LED Canopy Fixture	0534361	Fan Speed Key 1500 RPM
	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

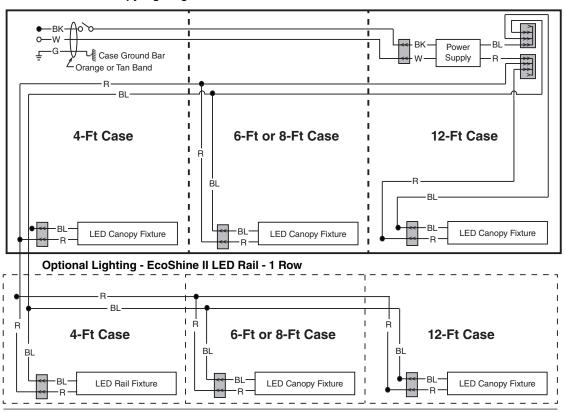
HTTP://www.hussmann.com/en/Pages/Aftermarket-Parts.aspx

Fan Wiring Offtime Defrost



LED Canopy Light Circuits

EcoShine II LED Canopy Lighting - 1 Row

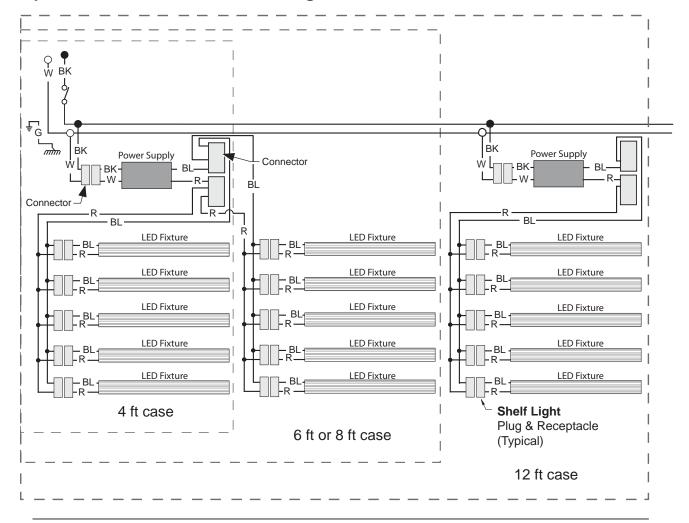


WARNING

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

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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 per foot per hour 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 0.39 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] (1.24 for five shelves); then add together [0.48 + 1.24 = 1.72 amps for 120V] (for 230V, multiply 1.72 * 0.52 = 0.89).

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: 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.