HUSSMANN

Insight® IC2XSL

Dairy / Delicatessen / Meat

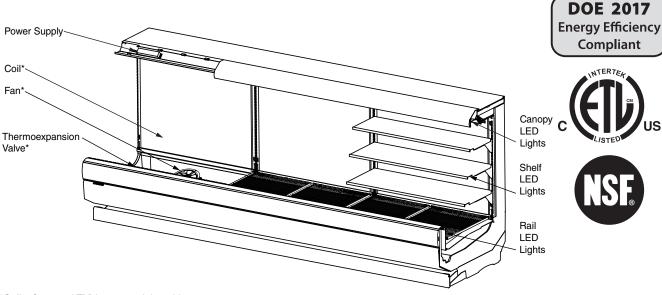
Merchandiser Data Sheet

P/N 0539597_L

NSF® Certified

November 2023

Insight standard field electrical connections are at the bottom of the merchandiser



*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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Data sheet-Insight IC2XSL

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 IC2XSL Dairy / Delicatessen /Meat

Refrigeration Data 1

IC2XSL			Optimal Shelf Life				
Application		Dairy/Deli/ Beverage/ Produce	Convertible / Meat	NSF Type 2 Ambient⁴	AHRI 1200 Rating Point⁵		
	Discharge Air °F (°C)	32 (0)	31 (-0.55)	30 (-1.11)	34 (1.11)		
Unlit Shelves	Average Evaporator °F (°C) ²	28 (-2.22)	27 (-2.77)	26 (-3.33)	30 (-1.11)		
	Parallel Btu/hr/ft (Watts/m) ⁶	765 (736)	780 (750)	905 (870)	675 (649)		
	Conventional Btu/hr/ft (Watts/m) ⁶	835 (803)	850 (818)	985 (947)	735 (707)		
	Discharge Air °F (°C)	31 (-0.55)	30 (-1.11)	29 (-1.66)	33 (0.55)		
Lit	Average Evaporator °F (°C) ²	27 (-2.77)	26 (-3.33)	25 (-3.88)	29 (-1.66)		
Shelves	Parallel Btu/hr/ft (Watts/m) 6,7	780 (750)	795 (765)	925 (889)	685 (659)		
	Conventional Btu/hr/ft (Watts/m) 6,7	850 (818)	865 (832)	1000 (962)	745 (717)		
Fan Chaad8	IC2XSL6 (7.0")	1600	1700 ⁸	1700 ⁸	1600		
Fan Speed ⁸	IC2XSL4, 8, 12 (7.0")	1600	17008	1700 ⁸	1600		

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. For DX CO₂ applications the average evaporator temperature may be lowered by 2°F but not more than 5°F. An EPR valve should be used if the system suction temperature is more than 5 degrees below the published case evaporator temperature. A 31°F flash tank temperature with a 24°F evaporator temperature is used when sizing default EEV selections to provide a minimum pressure drop across the valve of approximately 50 psig. For operating conditions that provide a pressure drop across the valve above 65 psig or below 35 psig, the electronic expansion valve size should be determined using the valve vendor sizing program and selected from the pull down list in the Hussmann Product Configurator (HPC).
- 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. 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 motor kits applied by the Hussmann Product Configurator (HPC).

Defrost Data

Frequency (hours between defrost) 4

Defrost Water 8 5.1 lb/ft/day (7.6 kg/m)

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

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OFFTIME IC2XSL Time (minutes) 20

ELECTRIC OR GAS Not Available

Conventional Controls

IC2XSL

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	ited Charg	e ¹¹	IC2XSL
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 11 (Cu Ft/Ft)
 4.9 ft³/ft (0.46 m³/m)

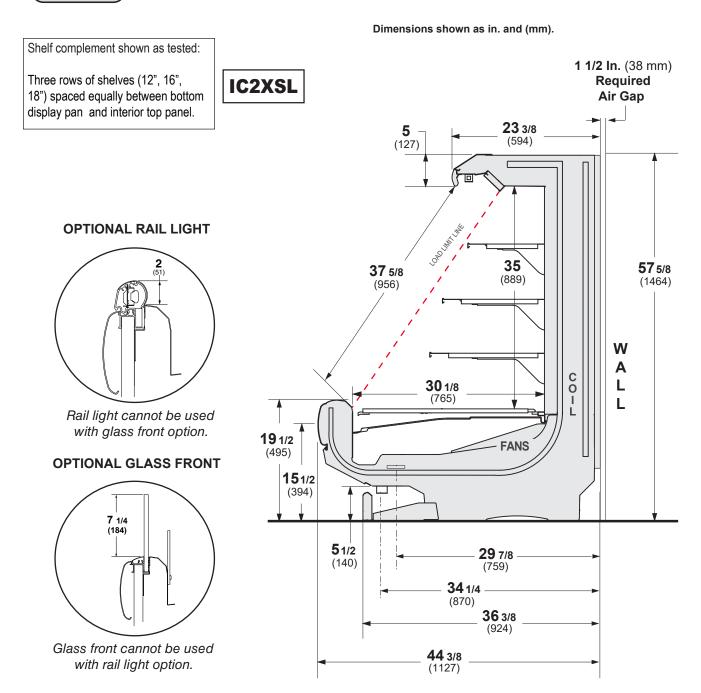
 AHRI Total Display Area 12 (Sq Ft/Ft)
 3.33 ft² /ft (1.01 m²/m)

 Shelf Area 13 (Sq Ft/Ft)
 6.38 ft² /ft (1.94 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 shelves: 12-in., 16-in., 18-in.

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.

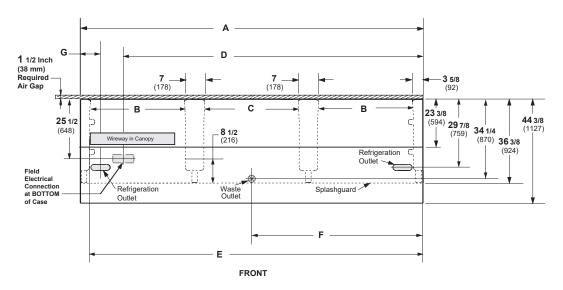


NSF Certification

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

Engineering Plan View

Dimensions shown as in. and (mm).



(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)	44 3/8 (1127)	44 3/8 (1127)	44 3/8 (1127)	44 3/8 (1127)
	Back of case to front of splashguard	36 3/8 (924)	36 ³ / ₈ (924)	36 3/8 (924)	36 3/8 (924)
(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 (bottom of case)	30 3/8 (772)	54 3/8 (1381)	78 1/2 (1994)	126 5/8 (3216)
	Back of case to center of Field Electrical Wiring Connection	25 1/2 (648)	25 1/2 (648)	25 1/2 (648)	25 1/2 (648)
	Length of electrical wireway	32 1/2 (826)	22 1/2 (572)	32 1/2 (826)	32 1/2 (826)
(E)	RH end of case to LH end of electrical wireway (bottom of case)	44 1/8 (1121)	68 1/4 (1734)	92 1/4 (2343)	140 1/2 (3569)
Waste	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				
7.0-in.			1	2	2	3				
				Amp	eres			Wa	ıtts	
Evapora	tor Fan		4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient	0.14	0.27	0.27	0.41	9	18	18	27
230V	50/60Hz	Energy Efficient	0.07	0.14	0.14	0.21	9	18	18	27
Minimun	n Circuit A	mpacity								
120V	60Hz	Energy Efficient	0.34	0.47	0.47	0.61				
230V	50/60Hz	Energy Efficient	0.27	0.34	0.34	0.41				
Maximur	n Over Cu	rrent 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 LED LIGHTING LED Canopy Lights 1 Row	0.16	0.22	0.31	0.47	19	27	38	57
OPTIONAL LED LIGHTING								
2 Rows of Canopy Lights	0.32	0.44	0.62	0.94	38	54	76	114
LED SHELF LIGHTING								
1 Row of Shelves	0.06	0.07	0.11	0.17	7	9	13	20
2 Rows of Shelves	0.11	0.15	0.22	0.33	13	18	27	40
3 Rows of Shelves	0.17	0.22	0.33	0.50	20	27	40	60
LED Rail Light								
1 Row	0.06	0.07	0.11	0.17	7	9	13	20

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 $^{1}/_{2}$ 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.)

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)	600 (272)	800 (363)	1000 (454)	1200 (544)	75 (34)

† Actual weights will vary according to optional kits included.

Shelf Options

Approved shelf sizes for standard (horizontal, 2-3 position brackets) displays:

12-inch

16-inch

14-inch

18-inch

20-inch

Contact engineering for non-standard (4 position brackets or other) display recommendations.

Minimum number of Shelves: 2

Optimal number of Shelves: 3

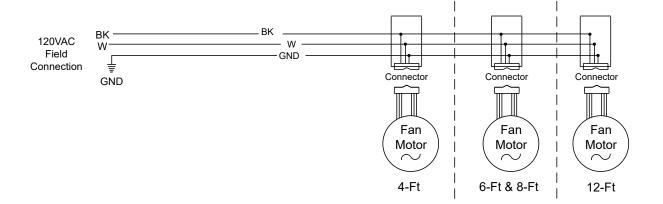
Maximum number of Shelves: 3

Maximum number of Lighted Shelves: 3

Standard shelf complement for test purposes: (3) rows of shelves (12", 16", 18"), evenly distributed vertically.

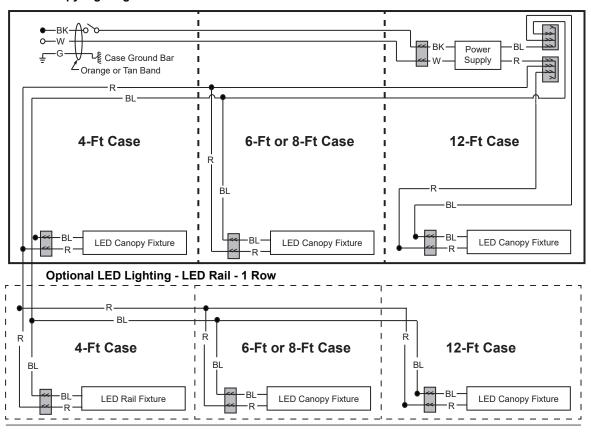
Fan Wiring Offtime Defrost

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Canopy LED Light Circuits

LED Canopy Lighting - 2 Rows



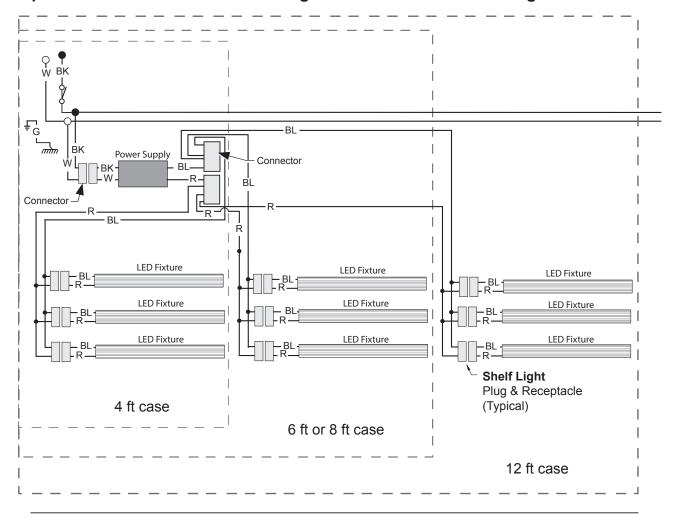
WARNINGAll components must have mechanical ground, and the merchandiser must be grounded.

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



Optional Shelf Lighting — LED Fixtures

Optional Shelf Harness and LED Light Circuits for 3 Rows of Lighted 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 $\stackrel{min}{m}$ = 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 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 0.21 Amps and the MCA is 0.41. 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] (0.74 for three shelves); then add together [0.48 + 0.74 = 1.22 amps for 120V] (for 230V, multiply 1.22 * 0.52 = 0.63).

Line Sizing — Refer to store legend.

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



Scan the QR code with your mobile device to access additional product information or order parts.

Parts may also be ordered at:

parts.hussmann.com
Call toll free: 1.855.487.7778

Revision History

Revision A: January 2014: Original Issue

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

Revision C: April 2016: Updated cover image, updated application data, added Gross

Refrigerated Volume, added optional glass front kit and updated plan view.

Revision D: August 2016: Updated cross section and plan view.

Revision E: January 2017: Added rail light updates.

Revision F: April 2017. Updated LED energy values.

Revision G: April 2017. Updated LED energy values.

Revision H: September 2017. Updated notes page.

Revision J: February 2018. Updated cross section and plan view.

Revision K: January 2023. Added CO₂ note, Page 2.

Revision L: November 2023: Updated fan and lighting information.