

*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 IC3SL

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.

Refrigerati	on Data ¹							
	IC3SL		Optimal Shelf Life					
	Application	Convertible/ Meat	NSF Type 2 Ambient⁴	AHRI 1200 Rating Point⁵				
	Discharge Air °F (°C)	32 (0)	32 (0)	30 (-1.11)	34 (1.11)			
Unlit Shelves	Average Evaporator °F (°C) ²	28 (-2.22)	28 (-2.22)	26 (-3.33)	31 (-0.55)			
	Parallel Btu/hr/ft (Watts/m) 6	1015 (976)	975 (938)	1180 (1135)	920 (885)			
	Conventional Btu/hr/ft (Watts/m) 6	1105 (1063)	1065 (1025)	1285 (1236)	1005 (967)			
	Discharge Air °F (°C)	31 (-0.55)	31 (-0.55)	29 (-1.66)	34 (1.11)			
Lit	Average Evaporator °F (°C) ²	27 (-2.77)	27 (-2.77)	25 (-3.88)	30 (-1.11)			
Shelves	Parallel Btu/hr/ft (Watts/m) ^{6,7}	1040 (1000)	1025 (986)	1190 (1144)	935 (899)			
-	Conventional Btu/hr/ft (Watts/m) ^{6,7}	1135 (1092)	1120 (1077)	1295 (1245)	1020 (981)			
Fan Chaod ⁸	IC3SL6 (8.25")	1200 ⁸	1200 ⁸	1400 ⁸	1200 ⁸			
an Speed ⁸	IC3SL4, 8, 12 (8.25")	1200 ⁸	1200 ⁸	1400 ⁸	1200 ⁸			

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. 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		Conventional Controls	Estima	IC3SL			
Frequency (hours between	defrost) 4	IC3SL	4 ft	0.6 lb	9.6 oz	0.3 kg	
Defrost Water ⁹	6.3 lb/ft/day	Low Pressure Backup	6 ft	1.1 lb	17.6 oz	0.5 kg	
	(9.4 kg/m)	Control CI/CO ¹⁰	8 ft	1.5 lb	24 oz	0.7 kg	
⁹ (± 15% based on case con loading).		20°F /10°F –6.7°C / –12.2°C	12 ft	2.9 lb	46.4 oz	1.3 kg	
<i>Оғғтіме</i> Time (minutes)	IC3SL 20	Indoor Unit Only, Pressure Defrost Termination ¹⁰	types. A	0	0	gerant may vary by	
ELECTRIC OR GAS	Not Available	48°F (8.9°C)					
		¹⁰ Use a Temperature Pressure Chart to determine PSIG conversions.					
Product Data							
Gross Refrigerated \	/olume ¹² (Cu Ft/Ft)	6.3 ft³/ft (0.59 m³/m)					
AHRI Total Display A	Area ¹³ (Sq Ft/Ft)	3.95 ft²/ft (1.20 m²/m)					
Shelf Area 14 (Sq Ft/F	Ft)	6.35 ft²/ft (1.94 m²/m)					
¹³ Computed using AHRI 12	200 standard methodology	ume/Unit of Length, ft³/ft [m³/m] /: Total Display Area, ft² [m²]/Unit of	0		alvoa, 10 in	40 in . 40 in	

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.

Insight Multideck Merchandiser, Convertible, 3 Display Levels, Standard Bottom, Low Height Front



Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

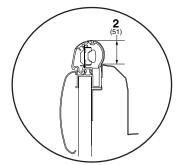
Dimensions shown as in. and (mm).

3-in. between back to back cases.

Shelf complement shown as tested:

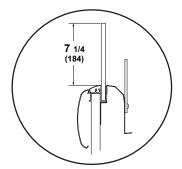
Three rows of shelves (12-in., 16-in., 18-in.) spaced equally between bottom display pan and interior top panel.

OPTIONAL RAIL LIGHT



Rail light cannot be used with glass front option.

OPTIONAL GLASS FRONT



Glass front cannot be used with rail light option.

IC3SL 1 1/2 In. (38 mm) Required Air Gap 23 3/8 5 (127)(594)**45** 5/8 47 3/8 (1159)(1203) **68** 1/4 (1734) W C 0 1 L Α 30 1/8 L (765)L **19** 1/2 FANS (495) **15**1/2 (394) 51/2 (140)29 7/8 (759)**34** 1/4 (870) 36 3/8 (924) **44** 3/8

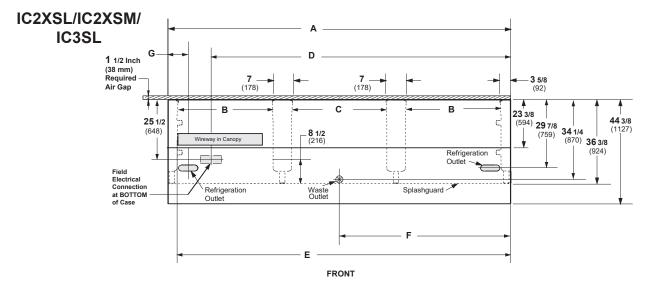
(1127)

NSF Certification

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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)	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 <i>(bottom of case)</i>	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)
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	l.		1	2	2	3				
				Am	peres			Wa	atts	
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 Cı	urrent 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	
LED LIGHTING Standard LED Canopy Lights 1 Row LED Canopy (Standard)	0.16	0.22	0.31	0.47	19	27	38	57	
Optional LED Shelf Lights									
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	
4 Rows of Shelves	0.22	0.30	0.44	0.67	27	36	53	80	
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

ENDS or Each standard end and adds 1 1/2 in. (38 mm) t view end with end burn	o case line up. Op	tional		PHYSIC Merchandiser Drip Schedule 4 Merchandiser Liquid Merchandiser Sucti	0 PVC d Line (in.) ³ / 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 14-inch 16-inch 18-inch 20-inch

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

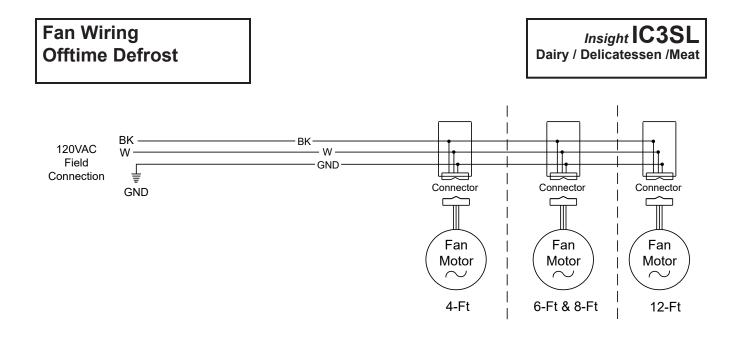
Minimum number of Shelves: 2

Optimal number of Shelves: 3

Maximum number of Shelves: 4

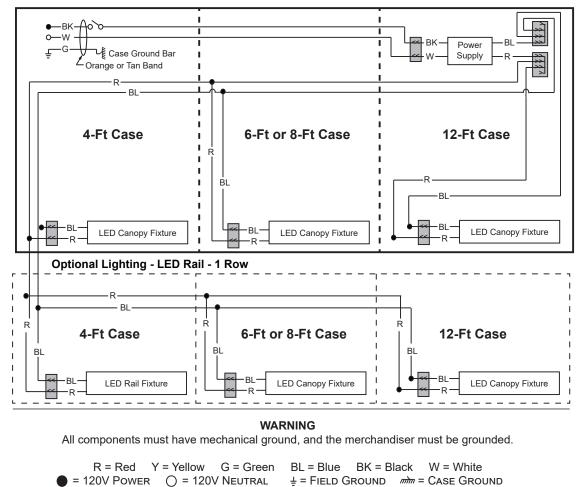
Maximum number of Lighted Shelves: 3

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



LED Canopy Light Circuits

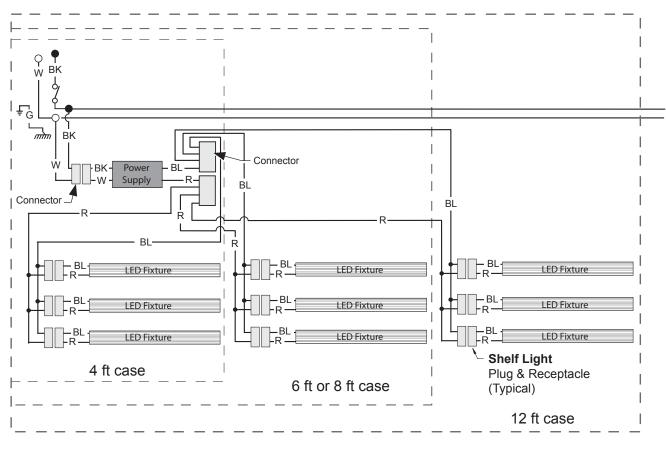
LED Canopy Lighting - 1 Row



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Optional LED Shelf Lighting

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 = B	lack	W = White
• = 120V Pov	VER 0 = 1	20V NEUTRAL	± = Field G	ROUND	mm =	CASE GROUND

Insight IC3SL Dairy / Delicatessen /Meat

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] (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.



Revision History

Revision A: May 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: December 2023: Updated fan and lighting information. Removed replacement parts page. Updated wiring diagrams.

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