

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.

Performance Data	Page 2	Estimated Shipping Weights	Page 6
Product Data (AHRI Statistics)	Page 2	Shelf Options	Page 6
Cross Section	Page 3	Wiring Diagrams	Page 7
Plan View	Page 4	Computing Refrigeration and Electrical Load	Page 10
Electrical Loads	Page 5	QR Code for Parts and Product Information	Page 10
		Revision History	Page 10

### Data sheet-Insight IC6SL

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.

Refrigeration	Data 1

	IC6SL		Energy Comparison			
	Application	Dairy/Deli/ Beverage/ Produce	Convertible/ Meat	NSF Type 2 Ambient⁴	Pegs⁵	AHRI 1200 Rating Point <sup>6</sup>
	Discharge Air °F (°C)	34 (1.11)	34 (1.11)	34 (1.11)	34 (1.11)	36 (2.22)
Unlit Shelves	Average Evaporator °F (°C) <sup>2</sup>	28 (-2.22)	26 (-3.33)	26 (-3.33)	26 (-3.33)	31 (-0.6)
	Parallel Btu/hr/ft (Watts/m) 7	1302 (1252)	1389 (1335)	1757 (1689)	1627 (1565)	1265 (1216)
	Conventional Btu/hr/ft (Watts/m) <sup>7</sup>	1420 (1365)	1515 (1457)	1860 (1789)	1775 (1707)	1380 (1327)
	Discharge Air °F (°C)	33 (0.55)	33 (0.55)	33 (0.55)	N/A	35 (1.66)
Lit	Average Evaporator °F (°C) <sup>2</sup>	27 (-2.77)	25 (-3-9)	25 (-3-9)	N/A	30 (-1.1)
Shelves	Parallel Btu/hr/ft (Watts/m) 7,8	1393 (1291)	1416 (1362)	1785 (1716)	N/A	1298 (1243)
	Conventional Btu/hr/ft (Watts/m) 7,8	1465 (1409)	1545 (1486)	1890 (1817)	N/A	1410 (1356)
Fan Encod9	IC6SL6 (10.3")	1300 <sup>9</sup>	1300 <sup>9</sup>	1500 <sup>9</sup>	1500 <sup>9</sup>	1300 <sup>9</sup>
Fan Speed <sup>9</sup>	IC6SL4, 8, 12 (10.3")	1300 <sup>9</sup>	1300 <sup>9</sup>	1500 <sup>9</sup>	1500 <sup>9</sup>	1300 <sup>9</sup>

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. For DX CO<sub>2</sub> 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. Hussmann Peg Shelves for Dairy/Deli applications only.

AHRI 1200 Rating Point for energy consumption comparison only.
Subtract 60 Btu/hr/ft (57.7 Watts/m) for front glass (on applicable models).

8. Add 10 Btu/hr/ft (9.6 Watts/m) per shelf row for LED shelf light fixtures.

9. Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator.

10. Reduce refrigeration load by 15% if fitted with CaseShieldPTM.

Defrost Data		Conventional Controls	Estima	ted Charg	<b>je</b> <sup>13</sup>	IC6SL
Frequency (hours between	defrost) 4	IC6SL	4 ft	0.6 lb	9.6 oz	0.3 kg
Defrost Water <sup>11</sup>	9.9 lb/ft/day	Low Pressure Backup	6 ft	1.1 lb	17.6 oz	0.5 kg
	(14.7 kg/m)	Control CI/CO <sup>12</sup>	8 ft	1.5 lb	24 oz	0.7 kg
<sup>11</sup> (± 15% based on case configuration and product loading).		20°F /10°F –6.7°C / –12.2°C	12 ft	2.9 lb	46.4 oz	1.3 kg
<i>Огғтіме</i> Time (minutes)	IC6SL 20	Indoor Unit Only, Pressure Defrost Termination <sup>12</sup>	Actual re	0	narge may va	gerant types. ary by approx-
ELECTRIC OR GAS	Not Available	48°F (8.9°C)				
		<sup>12</sup> Use a Temperature Pressure Chart to determine PSIG conversions.				
Product Data						
Gross Refrigerated Ve	olume <sup>14</sup> (Cu Ft/Ft)	12.7 ft³/ft (1.18 m³/m)				
AUDI Tatal Diamlaur A.		$E = 0.0 \frac{42}{44} \frac{4}{100} E = 0.000 \frac{2}{100}$				

AHRI Total Display Area <sup>15</sup> (Sq Ft/Ft) Shelf Area <sup>16</sup> (Sq Ft/Ft)

5.03 ft<sup>2</sup>/ft (1.53 m<sup>2</sup>/m) 11.68 ft²/ft (3.56 m²/m)

<sup>14</sup> AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

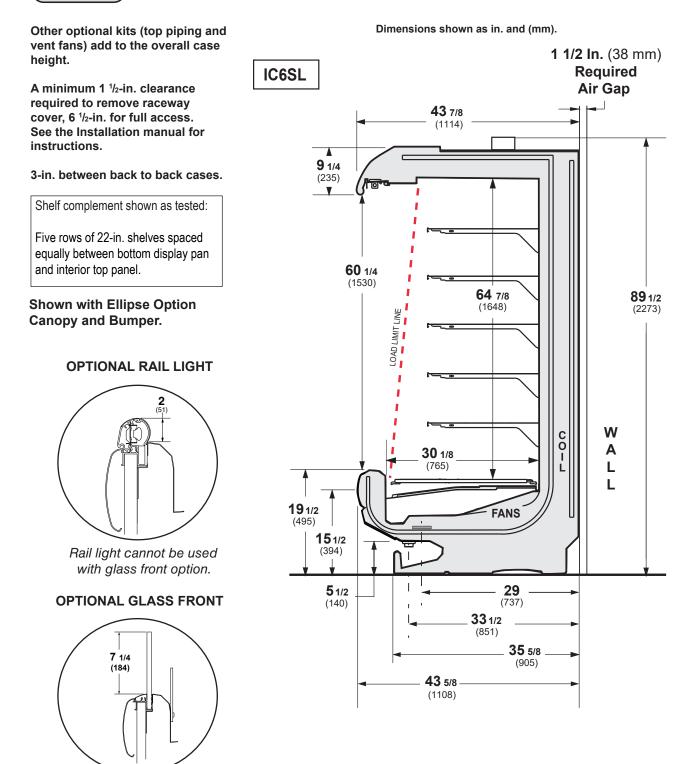
<sup>15</sup> Computed using AHRI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]

<sup>16</sup> Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 22-in. shelves

## Insight Multideck Merchandiser, Convertible, 6 Display Levels, Standard Bottom, Low Height Front

DOE 2017 Energy Efficiency Compliant

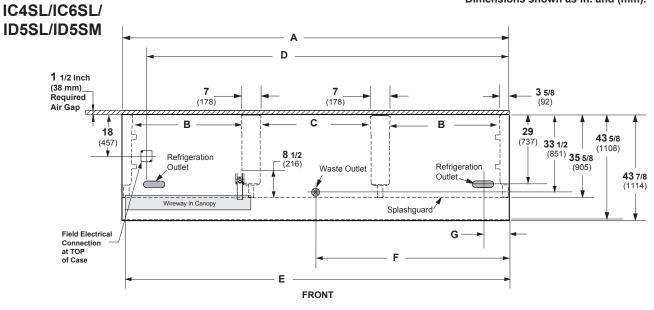
Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.



Glass front cannot be used with rail light option.

# 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.)		72 1/4 (1835)	96 <sup>1</sup> /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 <sup>3</sup> /8 (1000)	63 <sup>1</sup> /2 (1613)	87 <sup>1</sup> / <sub>2</sub> (2223)	135 1/2 (3442)
	Back of case to center of Field Electrical Wiring Connection	18 (457)	18 (457)	18 (457)	18 (457)
	Length of electrical wireway	44 5/8 (1133)	33 <sup>1</sup> / <sub>2</sub> (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 <sup>1</sup> /2(851)	33 <sup>1</sup> / <sub>2</sub> (851)	33 <sup>1</sup> /2(851)	33 <sup>1</sup> / <sub>2</sub> (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				
10.3-in			1	2	2	3				
				Am	peres			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	0.40	0.80	0.80	1.20	24	48	48	72
230V	50/60Hz	Energy Efficient	0.21	0.42	0.42	0.62	24	48	48	72
Minimun	n Circuit A	Ampacity								
120V	60Hz	Energy Efficient	0.60	1.00	1.00	1.40				
230V	50/60Hz	Energy Efficient	0.41	0.62	0.62	0.82				
Maximu	m Over Cı	Irrent 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									
EcoShine ULTRA Canopy Lights									
1 Row EcoShine ULTRA	0.16	0.26	0.36	0.54	19	31	43	64	
EcoShine II Canopy Lights									
1 Row EcoShine II	0.16	0.26	0.32	0.48	19	32	39	58	
1 Row EcoShine II HO	0.22	0.33	0.44	0.66	27	40	53	79	
EcoShine II Shelf Lights									
1 Row of Shelves	0.08	0.12	0.16	0.25	10	14	20	30	
2 Rows of Shelves	0.16	0.23	0.33	0.49	20	28	40	59	
3 Rows of Shelves	0.25	0.35	0.49	0.74	30	42	59	89	
4 Rows of Shelves	0.33	0.47	0.66	0.99	40	56	79	119	
5 Rows of Shelves	0.41	0.59	0.82	1.24	49	71	99	148	
6 Rows of Shelves	0.49	0.70	0.99	1.48	59	85	119	178	
EcoShine II Rail Light-1 Row	0.08	0.12	0.16	0.25	10	14	20	30	

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting 230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

<b>ENDS or PARTITIONS</b> Each standard end and each insulated partition adds 1 <sup>1</sup> / <sub>2</sub> in. (38 mm) to case line up. Optional view end with end bumper adds 3 <sup>3</sup> / <sub>4</sub> in. (95 mm).				PHYSIC Merchandiser Drip Schedule 4 Merchandiser Liqui Merchandiser Sucti	0 PVC d Line (in.) <sup>3/</sup>	8		
ESTIMATED SHIPPING WEIGHT †								
Case					Solid End			
	4 ft	6 ft	8 ft	12 ft	(each)			
lb (kg)	800 (363)	1000 (454)	1200 (544)	1600 (726)	100 (45)			
† 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.

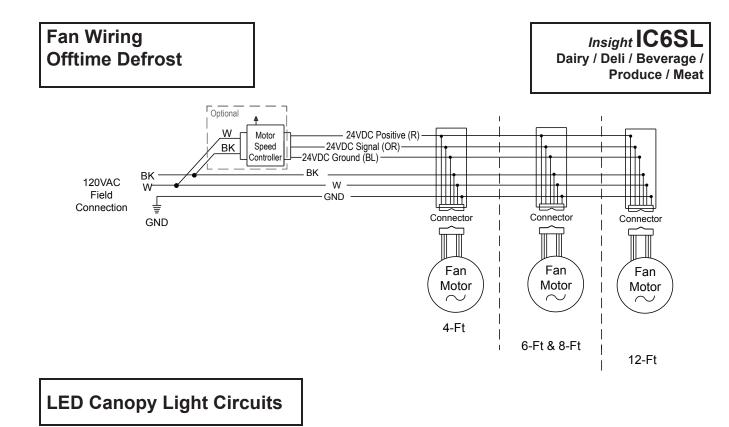
Minimum number of Shelves: 4

Optimal number of Shelves: 5

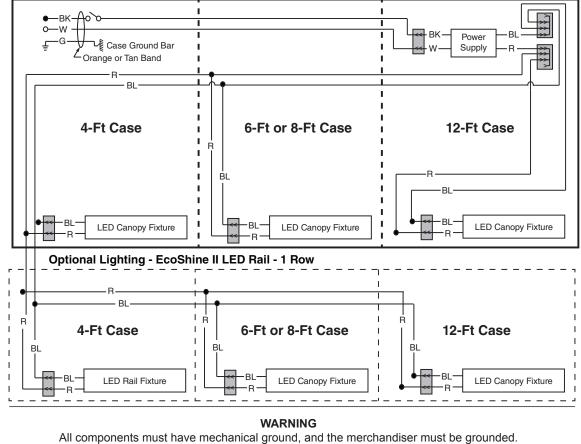
Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 6

Standard shelf complement for test purposes: (5) rows of 22-in. shelves evenly distributed vertically.

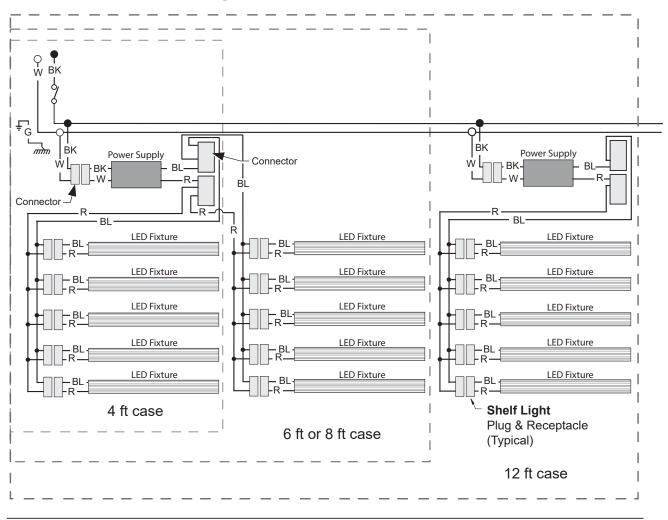


#### EcoShine II LED Canopy Lighting - 1 Row



recomponents must have meenanical ground, and the merchandiser must be grounde

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White ● = 120V Power ○ = 120V Neutral ÷ = Field Ground mm = Case Ground



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

#### Q ¶ ₩ BK ĘG вк ΒK ΒK mm Power Supply Power Supply Power Supply wĿ w└∟ ŵĿ }ΒK-BL BK-BL BK-ΒL -w Ŵ -R-۱۸ Connector Connector $\mathcal{J}$ R R R BI - BL BI LED Fixture LED Fixture LED Fixture BL - BL BL R -LED Fixture LED Fixture LED Fixture BL - BL LED Fixture LED Fixture LED Fixture BL BL - BL R LED Fixture LED Fixture LED Fixture ΒL - BL - BL ·R --R LED Fixture LED Fixture LED Fixture · BL ·BL ·BL LED Fixture LED Fixture LED Fixture -BL -R-·BL · BL -R--R Shelf Light Plug & Receptacle 4 ft case (Typical) 6 ft or 8 ft case 12 ft case

## Shelf Harness and LED Light Circuits for 6 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 • = 120V Power  $\circ$  = 120V Neutral  $\frac{1}{2}$  = FIELD GROUND  $\overrightarrow{mm}$  = CASE GROUND Insight IC6SL Dairy / Deli / Beverage / Produce / 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 0.62 Amps and the MCA is 0.82. 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 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: 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 and updated plan view.

Revision D: July 2016: Updated cross section and 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.

Revision K: January 2018. Updated cross section.

Revision L: February 2018. Updated cross section.

Revision M: July 2019. Updated parts list, lighting and CaseShieldPTM.

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

10 of 10 U.S. & CANADA 1-800-922-1919 • MEXICO 1-800-890-2900