

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. **IMPORTANT**

DRAIN EXTENSION KIT REQUIRED TO PIPE MULTIPLE CASES TO ONE DRAIN, OR TO USE A RAISED HUB DRAIN. SEE PAGE 5 FOR DETAILS.

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Data sheet-Insight ID6SU

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.

Refrigerat	ion Data ¹					
	ID6SU		Energy Comparison			
	Application	Dairy/Deli/ Beverage/ Produce ¹	AHRI 1200 Rating Point ^{1, 6}			
	Discharge Air °F (°C)	33 (0.55)	32 (0)	33 (0.55)	32 (0)	35 (1.66)
Unlit Shelves	Average Evaporator °F (°C) ^{2,3}	28 (-2.22)	26 (-3.33)	26 (-3.33)	26 (-3.33)	30 (-1.11)
	Parallel Btu/hr/ft (Watts/m)	1545 (1486)	1705 (1640)	2063 (1983)	1998 (1922)	1490 (1433)
	Conventional Btu/hr/ft (Watts/m)	1685 (1621)	1860 (1789)	2250 (2164)	2180 (2096)	1625 (1563)
	Discharge Air °F (°C)	32 (0)	32 (0)	33 (0.55)	N/A	34 (1.11)
Lit	Average Evaporator °F (°C) ²	27 (-2.77)	25 (-3.88)	25 (-3.88)	N/A	29 (-1.66)
Shelves	Parallel Btu/hr/ft (Watts/m) 7	1570 (1510)	1714 (1648)	2072 (1992)	N/A	1515 (1457)
	Conventional Btu/hr/ft (Watts/m) ⁷	1710 (1645)	1870 (1798)	2260 (2173)	N/A	1650 (1587)
	ID6SU6 (10.3")	1300 ⁸	1600 ⁸	1600 ⁸	1600 ⁸	1300 ⁸
Fan Speed ⁸	ID6SU4, 8, 12 (10.3")	1300 ⁸	1600 ⁸	1600 ⁸	1600 ⁸	1300 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. 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

 2. Average evaporator temperature shown use dew point of high glue temperatures to tail sizing. Cale should be taken to use the dew point of a 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 bed 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 of approximately 50 psig. For operating conditions that provide a pressure drop across the valve of approximately 50 psig. For operating conditions that provide a 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.
6. AHRI 1200 Rating Point for energy consumption comparison only.

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.

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

Defrost Data	Conventional Controls	Estimated Charge ¹² ID6SU				
Frequency (hours between defrost) 4 Defrost Water ¹⁰ 10.3 lb/ft/day (15.3 kg/m) ¹⁰ (± 15% based on case configuration and product loading).	ID6SU Low Pressure Backup Control CI/CO ¹¹ 20°F /10°F –6.7°C / –12.2°C	4 ft 0.7 lb 11.2 oz 0.3 kg 6 ft 1.2 lb 19.2 oz 0.5 kg 8 ft 1.6 lb 25.6 oz 0.7 kg 12 ft 3.1 lb 49.6 oz 1.4 kg				
OFFTIME ID6SU Time (minutes) 20 ELECTRIC OR GAS Not Available	Indoor Unit Only, Pressure Defrost Termination ¹¹ 48°F (8.9°C) ¹¹ Use a Temperature Pressure Chart to determine PSIG conversions.	¹² This is an average for all refrigerant types. Actual refrigerant charge may vary by approx imately half a pound.				
Product Data Gross Refrigerated Volume ¹³ (Cu Ft/Ft) AHRI Total Display Area ¹⁴ (Sq Ft/Ft) Shelf Area ¹⁵ (Sq Ft/Ft)	13.2 ft³/ft (1.23 m³/m) 5.55 ft²/ft (1.69 m²/m) 11.69 ft²/ft (3.56 m²/m)					

¹³ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹⁴ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

¹⁵ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 22-in. shelves

Insight Multideck Merchandiser, 6 Display Levels, Standard Bottom, Ultra Low 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.

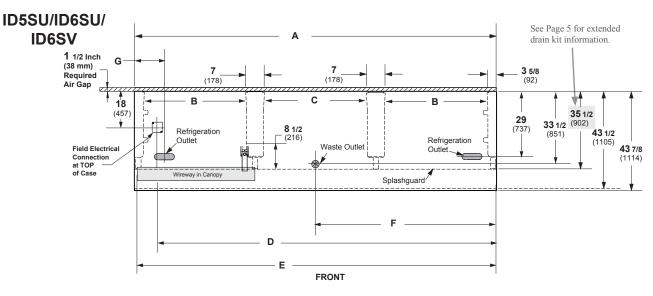
Dimensions shown as in. and (mm).

1 1/2 In. (38 mm) Required **ID6SU** Other optional kits (top piping Air Gap and vent fans) add to the overall case height. 43 7/8 (1114)A minimum 1 ¹/₂-in. clearance required to remove raceway Å cover, 6 ¹/₂-in. for full access. 9 1/4 See the Installation manual for (234)instructions. V 3-in. between back to back cases. **66** 1/2 Shelf complement shown as tested: (1689) 70 3/8 90 7/8 Five rows of 22-in. shelves spaced I (1788) (2308) LOAD LIMIT LINE equally between bottom display pan and interior top panel. Shown with Ellipse Option Canopy and Bumper. 1 с 0 W Α L L L 29 7/8 L (759) **OPTIONAL RAIL LIGHT** 4 14 1/2 2 (368) (51) 11 1/8 (283) V 2 5/8 29 (67) (737)33 1/2 (851) 35 1/2 (902) **43** 1/2 (1105) NOTE: If extended drain kits are used, the distance from back of case (not including air gap) increases to 41 inches. This may affect floor drain layout. See Page 5 for more details.

Engineering Plan View

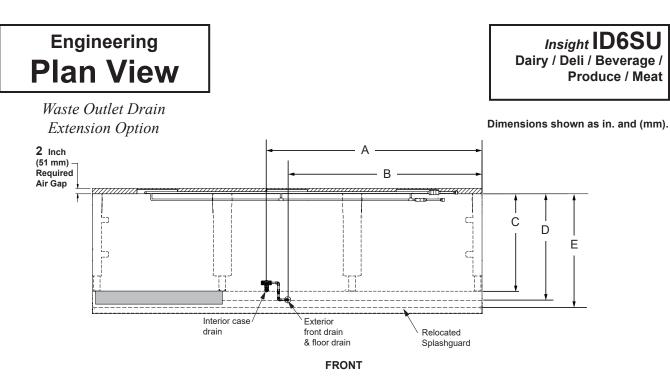
WARNING: Floor Drain must be located within 24 inches of Waste Outlet. See page 5 for Drain Extension Option (must be used with hub-style floor drains).

Dimensions shown as in. and (mm).



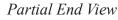
(12 Foot Model shown above)

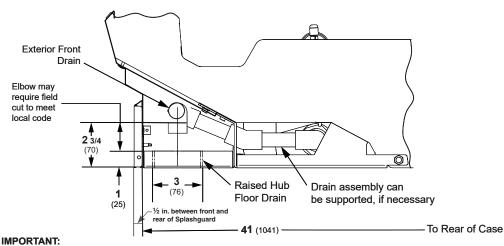
		4 ft	6 ft	8 ft	12 ft
Gene	ral				
(A)	Case Length (without ends or partitions) (Each end and insulated partition adds $1^{1/2}$ in. (38 mm) to case line up.)	48 1/8 (1222)	72 1/4 (1835)	96 1/4 (2445)	144 3/8 (3668)
	Maximum O/S dimension of case back to front (includes bumper)	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)
	Back of case to front of splashguard	35 1/2 (902)	35 ¹ / ₂ (902)	35 ¹ / ₂ (902)	35 ¹ /2(902)
(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	18 (457)	18 (457)	18 (457)	18 (457)
	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 (see page 5 for drain extension option)				
(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)
Floor	Drain must be located within 24 inches of Waste Outlet.				
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)



(12 Foot Model shown above)

		4 ft	6 ft	8 ft	12 ft
Wast	e Outlet Drain Option				
(A)	RH of case to center of interior case drain	24 1/8 (613)	24 1/8 (613)	24 1/8 (613)	72 1/4 (1835)
(B)	RH of case to center of exterior front drain and floor drain* *Drain extension shown piped to the right but may be either direction	13 ³ / ₄ (349)	13 ³ / ₄ (349)	13 ³ / ₄ (349)	61 7/8 (1572)
(C)	Back of case to center of original waste outlet	33 ¹ / ₂ (851)			
(D)	Back of case to center of relocated waste outlet (with drain extension kit)	38 1/4 (972)	38 1/4 (972)	38 1/4 (972)	38 ¹ / ₄ (972)
(E)	Back of case to the back of the relocated splashguard (with drain extension kit)	41 (1041)	41 (1041)	41 (1041)	41 (1041)





DRAIN EXTENSION KIT REQUIRED TO PIPE MULTIPLE CASES TO ONE DRAIN OR TO USE A RAISED HUB DRAIN

IMPORTANT: If the hub drain is used instead of a flush floor sink, a drain extension kit must be installed. Hub drains must be located in front of the waste outlet because of the reguired air gap.

Electrical Data

Number	of Fans		4 ft	6 ft	8 ft	12 ft				
10.3-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	0.40	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				Wa	atts		
	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
7 Rows of Shelves	0.58	0.82	1.15	1.73	69	99	138	208
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

Each standard end an adds 1 1/2 in. (38 mm)	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).			PHYSIC Merchandiser Drip Schedule 4 Merchandiser Liqui Merchandiser Suct	40 PVC id Line (in.)	1 ¹ /4 ³ /8 ⁷ /8
	E	STIMATED SHI	PPING WEIGHT	.4		
Case					Solid En	
	4 ft	6 ft	8 ft	12 ft	(each)	
lb (kg)	900 (408)	1100 (499)	1300 (590)	1700 (771)	100 (45	5)
† Actual weights will vary	according to optiona	l 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.

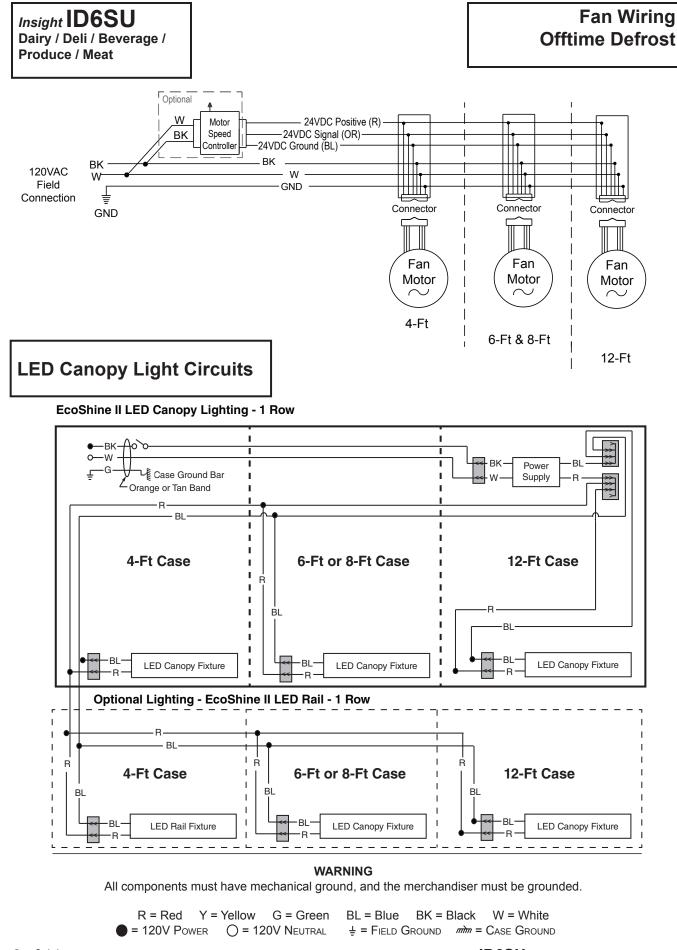
Minimum number of Shelves: 4

Optimal number of Shelves: 5

Maximum number of Shelves: 8

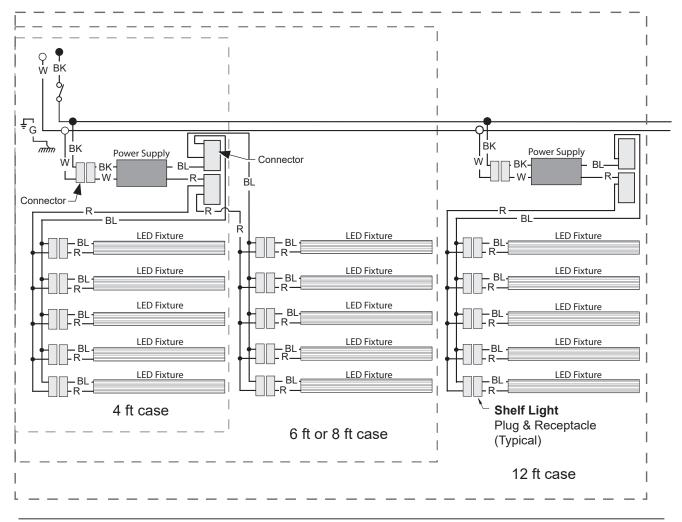
Maximum number of Lighted Shelves: 7

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



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

ID6SU Merchandiser Data Sheet



Shelf Harness and LED Light Circuits for 4 or 5 Rows of Shelves

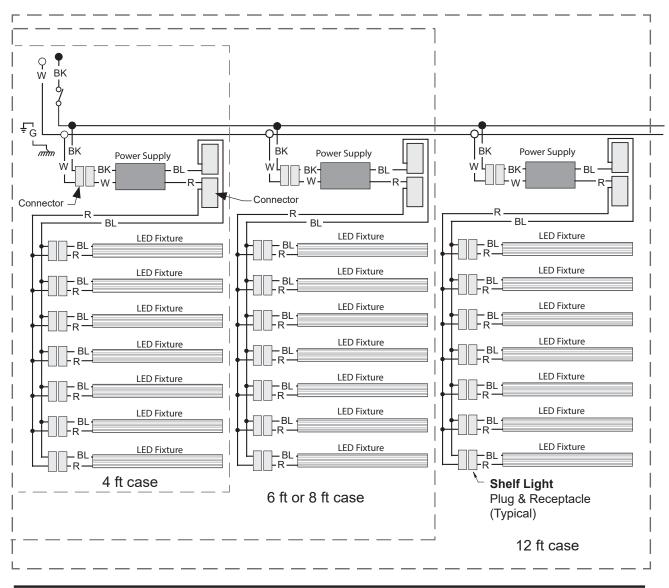
WARNING

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	α 0 = 120 [∨]	V NEUTRAL	⊥ = Field G	ROUND	= CASE GROUND

Optional Shelf Lighting—LED Fixtures

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 = RedY = YellowG = GreenBL = BlueBK = BlackW = White• = 120V Power• = 120V Neutral $\frac{1}{2}$ = FIELD GROUNDmm= 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 0.62 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] (1.73 for seven shelves); then add together [0.48 + 1.73 = 2.21 amps for 120V] (for 230V, multiply 2.21 * 0.52 = 1.15).

Line Sizing — Refer to store legend.

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



Scan QR code to order parts or access additional product information on your mobile device or visit: parts.hussmann.com Call toll free: 1.855.487.7778

Revision History

Revision A: March 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: August 2016: Updated cross section and plan view.

Revision E: September 2016: added meat application data.

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.

Revision K: December 2017. Updated Refrigeration data on page 2.

Revision L: July 2019. Updated parts list, lighting, CaseShieldPTM and drain information.

Revision M: July 2022. Added notes for Extended Drain Kit Option

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