

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 IDD5SV

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 IDD5SV Dairy / Delicatessen

Refrigeration Data ¹									
	IDD5SV		Energy Comparison						
	Door Option		EcoVision		EcoVision HA	EcoVision HA+	EcoVision		
Application		Dairy/Deli/ Beverage/ Produce	Pegs⁴	Convertible/ Meat	NSF Type 2 Ambient⁵	Harsh Environment	AHRI 1200 Rating Point ⁶		
Unlit Mullions	Discharge Air °F (°C)	38 (3.33)	36 (2.22)	34 (1.11)	34 (1.11)	33 (0.55)	38 (3.33)		
	Average Evaporator °F (°C) ^{2,3}	34 (1.11)	33 (0.55)	31 (-0.55)	31 (-0.55)	30 (-1.11)	34 (1.11)		
	Parallel Btu/hr/ft (Watts/m)	245 (236)	265 (255)	270 (260)	280 (269)	350 (337)	245 (236)		
	Conventional Btu/hr/ft (Watts/m)	250 (241)	270 (260)	275 (264)	285 (274)	360 (346)	250 (241)		
	Discharge Air °F (°C)	37 (2.77)	35 (1.66)	33 (0.55)	33 (0.55)	32 (0)	37 (2.77)		
Lit	Average Evaporator °F (°C) ^{2,3}	33 (0.55)	32 (0)	30 (-1.11)	30 (-1.11)	29 (-1.67)	33 (0.55)		
Mullions	Parallel Btu/hr/ft (Watts/m)	272 (262)	292 (280)	297 (285)	306 (294)	369 (355)	272 (262)		
	Conventional Btu/hr/ft (Watts/m)	280 (269)	300 (288)	305 (293)	315 (303)	380 (365)	280 (269)		
Fan Speed ⁶	IDD5SV6 (8.25")	1500 ⁷	1500 ⁷	1500 ⁷	1500 ⁷	1500 ⁷	1500 ⁷		
	IDD5SV4, 8, 12 (8.25")	1500 ⁷	1500 ⁷	1500 ⁷	1500 ⁷	1500 ⁷	1500 ⁷		

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 5°F but not more than 10°F. An EPR valve should be used if the system suction temperature is below 24°F. 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. Hussmann Peg Shelves for Dairy/Deli applications only.

5. Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.

6. AHRI 1200 Rating Point for energy consumption comparison only.

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

Defrost Data			Conventional Controls	Estima	ted Charg	je ¹⁰ IC	DD5SV
	Type 1	Harsh Environment	IDD5SV Low Pressure Backup Control CI/CO ⁹	4 ft 6 ft 8 ft	0.6 lb 1.1 lb 1.5 lb	9.6 oz 17.6 oz 24 oz	0.3 kg 0.5 kg 0.7 kg
Frequency (hours b	etween defrost) 24	12	26°F /16°F –3.3°C / –8.9°C	12 ft	2.9 lb	46.4 oz	1.3 kg
Time (minutes)	40	30	Indoor Unit Only, Pressure Defrost	Actual re	efrigerant ch	e for all refrige arge may var	21
ELECTRIC OR GAS	Not A	vailable	Termination ⁹ 48°F (8.9°C)	imately	half a pound	l.	
Befrost Water ⁸ 8 (± 15% based on case co	1.0 lb/ft/day (1.5 kg/m) onfiguration and produ	2.3 lb/ft/day (3.4 kg/m) lot loading).	⁹ Use a Temperature Pressure Chart to determine PSIG conversions.				

Product Data

Gross Refrigerated Volume ¹¹ (Cu Ft/Ft) AHRI Total Display Area ¹² (Sq Ft/Ft) Shelf Area ¹³ (Sq Ft/Ft) 12.1 ft³/ft (1.12 m³/m) 4.87 ft²/ft (1.48 m²/m) 9.82 ft²/ft (2.99 m²/m)

¹¹ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

¹³ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (4) 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.

1 1/2 In. (38 mm) Shelf complement shown as tested: Required **IDD5SV** Air Gap Four rows of 22-in. shelves spaced equally between bottom display pan and interior top panel. 43 7/8 (1114)Other optional kits . (top piping and vent 10 3/4 fans) add to the (273) I overall case height. A minimum 1 ¹/₂-in. clearance required to LOAD LIMIT LINE remove raceway 64 3/8 cover, 6¹/₂-in. for full (1635) Door Opening access. See the **58** 3/8 **88** 1/4 (2242) Installation manual for (1483) instructions. 3-in, between back to Shown with Ellipse **Option Canopy and** W С Α 0 L 29 7/8 L (759) 1 FANS 17 7/8 13 7/8 (454)(352)**5** 1/2 29 (140) (737)22 5/8 I 33 1/2 (575) (851) **35** 1/2 (902) 43 1/2

Dimensions shown as in. and (mm).

NSF Certification

back cases.

Bumper.

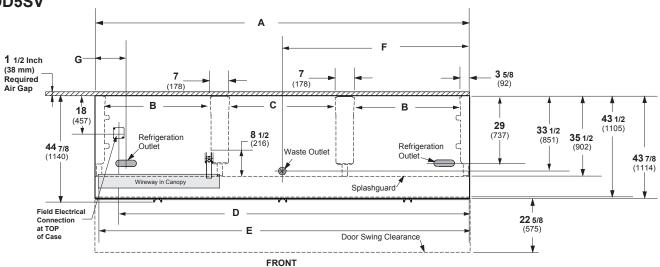
This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.

(1105)

Engineering Plan View

IDD5SU/IDD6SU/ IDD5SV

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.)		72 1/4(1835)	96 1/4 (2445)	144 3/8 (3667)
	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 <i>(top of case)</i>	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				
(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)

IDD5SV Merchandiser Data Sheet

Electrical Data

Number of Fans 8.25-in.			4 ft 1	6 ft 2	8 ft 2	12 ft 3				
				Amp	oeres		Watts			
Evapora	tor Fan		4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient	0.32	0.64	0.64	0.96	17	34	34	51
230V	50/60Hz	Energy Efficient	0.17	0.33	0.33	0.50	17	34	34	51
Minimur	n Circuit A	Ampacity								
120V	60Hz	Energy Efficient	0.52	0.84	0.84	1.16				
230V	50/60Hz	Energy Efficient	0.37	0.53	0.53	0.70				
Maximu	m Over Cu	Irrent Protection								
120V			20	20	20	20				
230V			15	15	15	15				
ONLY LIGHTING CONFIGURATIONS THAT ARE COMPL AVAILABLE FOR SALE FOR USE IN THE U.S.A. STANDARD LIGHTING EcoShine II Canopy 1 Row EcoShine II			0.16	тне U.S. 0.26	Dept. of 0.32	Energy (DC 0.48	DE) 2017 19.3	REGULAT 31.6	38.6	58.0
EcoShin	AL LIGHT e II Canop EcoShine	ру	0.22	0.33	0.44	0.66	26.5	39.5	53.0	79.4
Shelf None										
Mullion EcoSh	ine II 48-in		0.23	0.40	0.40	0.57	27.3	47.7	47.7	68.2
(Only wit	n ti-Conde h EcoVisio or Option)	e nsate Heaters in	0.39	0.60	0.65	0.90	50.6	75.5	81.4	112.1

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

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 DATAMerchandiser Drip Pipe (in.)1 1/4Schedule 40 PVC3/8Merchandiser Liquid Line (in.)3/8Merchandiser Suction Line (in.)5/8			
ESTIMATED SHIPPING WEIGHT †							
Case					Solid End		
	4 ft	6 ft	8 ft	12 ft	(each)		
lb (kg)	860 (390)	1090 (494)	1320 (599)	1780 (807)	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: 4

Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 0

Standard shelf complement for test purposes: (4) rows of 22-in. shelves evenly distributed vertically.

Replacement Parts List

Part #	Description	Part	:#	Description	
FAN ASSEMBLIES		Coil	.S		
Standard HE Fan	Assembly		0534323	4 ft, 8 ft, 12 ft	
4 Ft, 6 Ft, 8 Ft & 12 Ft			0534322	6 ft only	
0535563	8.25-in. Fan Assembly				
0534013	Fan Speed Controller	ΗοΝ	HONEYCOMB - WHITE		
			0536831	4 ft, 8 ft, 12 ft	
FAN SPEED KEY			0536829	6 ft only	
1500 RPM					
0534361	4 ft, 8 ft, 12 ft	Тнер	RMO-EXPANSION	VALVE	
			Pre-set Adju	stable	
THERMOSTATS		Varies with Refrigerant and Size			
OPTIONAL					
		ECOVISION HA+ FRAME HEATERS (OPTIONAL)			
LED FIXTURES AND	POWER SUPPLY	4 Ft	, 8 Ft & 12 Ft		
0501213	Power Supply		0549873	Heater - Mullion End LH	
	LED Canopy Fixture		0549872	Heater - Mullion Center	
	Replace with like fixtures.		0548655	Heater - Retainer Bottom	
	LED Mullion Fixture		0549874	Heater - Mullion End RH	
	Replace with like fixtures.				
		6 Ft			
			0549873	Heater - Mullion End LH	
			0549875	Heater - Mullion Center	

0548656

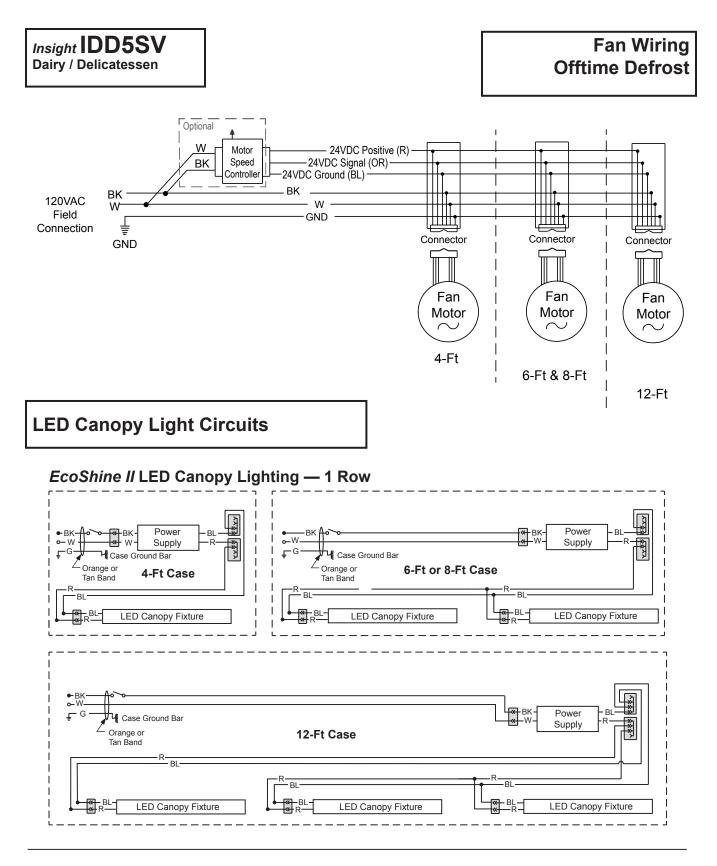
0549874

Heater - Retainer Bottom

Heater - Mullion End RH

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.

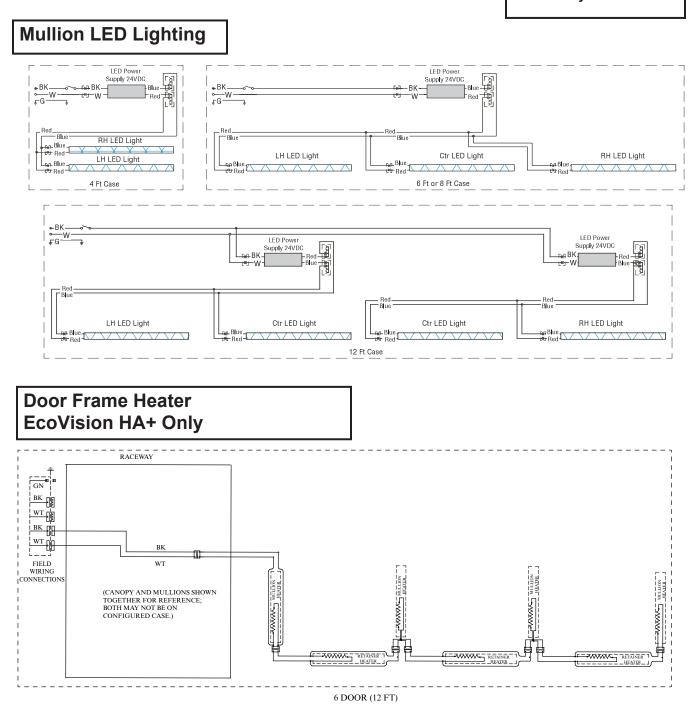
For additional parts information, visit http://www.hussmann.com/en/Pages/Aftermarket-Parts.aspx



WARNING

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

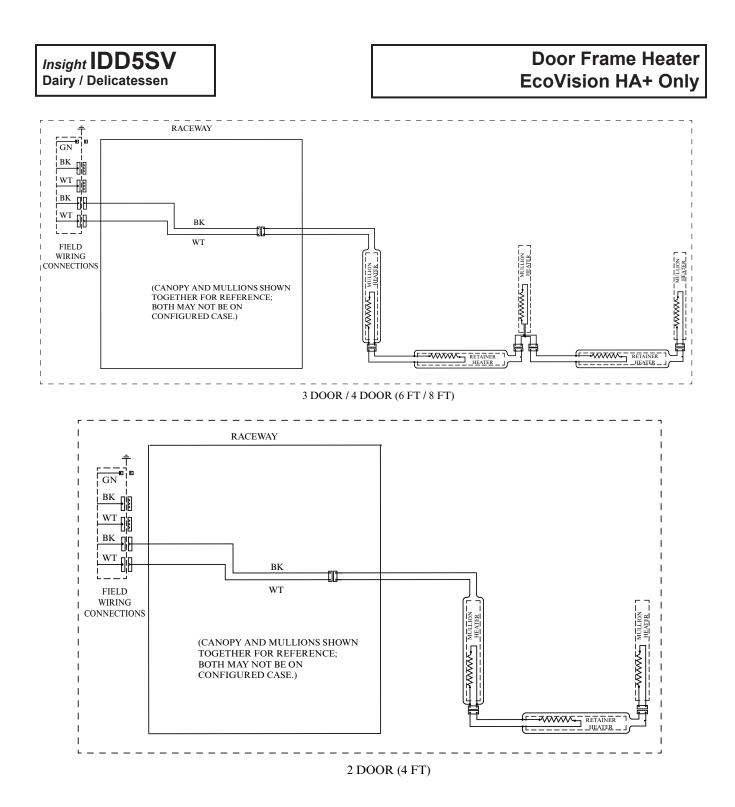
R = RedY = YellowG = GreenBL = BlueBK = BlackW = White• = 120V Power• = 120V Neutral \downarrow = Field Groundmm = Case Ground



WARNING

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

R = RedY = YellowG = GreenBL = BlueBK = BlackW = White● = 120VPower○ = 120VNeutral↓ = FieldGroundmm = CaseGround



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
 ○ = 120V NEUTRAL
 ↓ = FIELD GROUND
 mm = 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 0.50 Amps and the MCA is 0.70. 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 mullion lighting [maximum for which case is wired] (0.57 for EcoShine II 48 mullion lights); then add together [0.48 + 0.57 = 1.05 amps for 120V] (for 230V, multiply 1.05 * 0.52 = 0.55).

Line Sizing — Refer to store legend.

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



Revision History

Revision A: January 2017: Original Issue.

- Revision B: January 2017: Updated cross section.
- Revision C: April 2017: Updated LED energy values.
- Revision D: April 2017: Updated LED energy values.
- Revision E: September 2017: Updated notes page.
- Revision F: May 2018: Updated lighting information.

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