HUSSMANN

Insight standard field electrical connections

are at the top left of the merchandiser

Insight® IDD6NU

Dairy / Delicatessen / Beverage

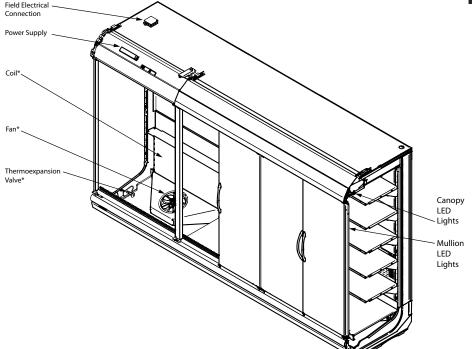
with EcoVision Doors

Merchandiser Data Sheet

P/N 3068393_A

NSF® Certified

September 2018









*Coils, fans and TXVs are modular with one per 3 or 4 foot section.

Portion of parts removed for clarity.

12 foot merchandiser shown.

IMPORTANT

ONE FLOOR DRAIN IS REQUIRED FOR EACH CASE.

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 7
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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.

Data sheet-Insight IDD6NU

Insight IDD6NU Dairy / Delicatessen

Refrigeration Data ¹							
	IDD6NU		Energy Comparison				
	Door Option	EcoVision E			EcoVision HA	EcoVision HA+	EcoVision
	Application	Dairy/Deli/ Beverage/ Pegs³ Convertible/ Produce Meat		NSF Type 2 Ambient ⁴	Harsh Environment	AHRI 1200 Rating Point ⁵	
	Discharge Air °F (°C)	37 (2.77)	35 (1.67)	35 (1.67)	35 (1.67)	34 (1.11)	37 (2.77)
Unlit	Average Evaporator °F (°C) ²	34 (1.11)	32 (0.00)	32 (0.00)	32 (0.00)	31 (-0.55)	34 (1.11)
Mullions	Parallel Btu/hr/ft (Watts/m)	287 (276)	311 (299)	316 (304)	350 (337)	389 (374)	287 (276)
	Conventional Btu/hr/ft (Watts/m)	295 (284)	320 (308)	325 (313)	360 (346)	400 (385)	295 (284)
	Discharge Air °F (°C)	36 (2.22)	34 (1.11)	34 (1.11)	34 (1.11)	33 (0.55)	36 (2.22)
Lit	Average Evaporator °F (°C) ²	33 (0.55)	31 (-0.55)	31 (-0.55)	31 (-0.55)	30 (-1.11)	33 (0.55)
Mullions	Parallel Btu/hr/ft (Watts/m)	301 (290)	326 (313)	331 (318)	335 (323)	403 (388)	301 (290)
	Conventional Btu/hr/ft (Watts/m)	310 (298)	335 (322)	340 (327)	345 (332)	415 (399)	310 (298)
Fan Chaad ⁶	IDD6NU6 (10.3")	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶
Fan Speed ⁶	IDD6NU4, 8, 12 (10.3")	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶	1200 ⁶

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
- 3. Hussmann Peg Shelves for Dairy/Deli applications only.
- 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. Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator.

Defrost Data							
	Type 1	Harsh					
		Environment					
Frequency (hours between defrost)							
	24	12					
OFFTIME	40	20					
Time (minutes)	40	30					
ELECTRIC OR GAS	Not A	vailable					
Defrost Water 7	1.5 lb/ft/day	2.3 lb/ft/day (3.4 kg/m)					
_							
⁷ (± 15% based on case confi guration and product loading).							

Conventional Controls						
IDD6NU						
Low Pressure Backup						
Control CI/CO ⁸						
26°F / 16°F						
−3.3°C / −8.9°C						

18 oz 6 ft 1.1 lb 0.5 kg 8 ft 1.5 lb 24 oz 0.7 kg 12 ft 2.9 lb 46 oz 1.3 kg

10 oz

IDD6NU

0.3 kg

Estimated Charge 9

4 ft

0.6 lb

Pressure Defrost Termination 8

48°F (8.89°C)

⁸ Use a Temperature Pressure Chart to determine PSIG conversions.

Indoor Unit Only,

⁹ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Gross Refrigerated Volume 10 (Cu Ft/Ft) 10.8 ft³/ft (1.00 m³/m) AHRI Total Display Area 11 (Sq Ft/Ft) 5.36 ft²/ft (1.63 m²/m) Shelf Area 12 (Sq Ft/Ft) 9.58 ft²/ft (2.92 m²/m)

¹⁰ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹¹ Computed using AHRI 1200 standard methodology: Total Display Area, ft2 [m²]/Unit of Length, ft [m]

¹² Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 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.

Shelf complement shown as tested:

Five rows of 22-in. shelves spaced equally between bottom display pan and interior top panel.

Other optional kits (top piping and vent fans) add to the overall case height.

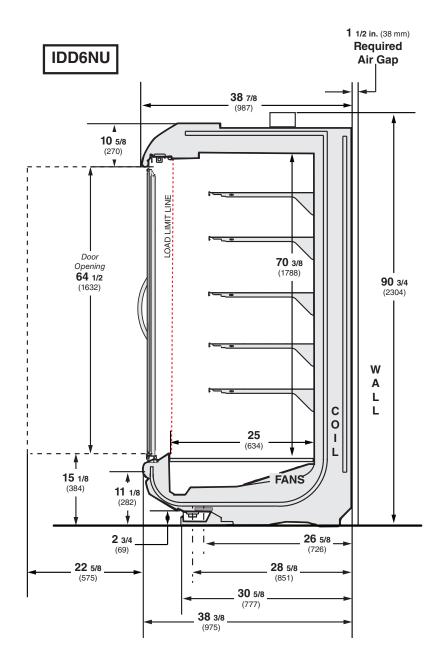
A minimum 2-in. clearance required between the discharge honeycomb and products when using larger shelves.

A minimum 1 ½-in. clearance required to remove raceway cover, 6 ½-in. for full access. See the Installation manual for instructions.

3-in. between back to back cases.

Shown with Ellipse Option Canopy and Bumper.

Dimensions shown as in. and (mm).



NSF Certification

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

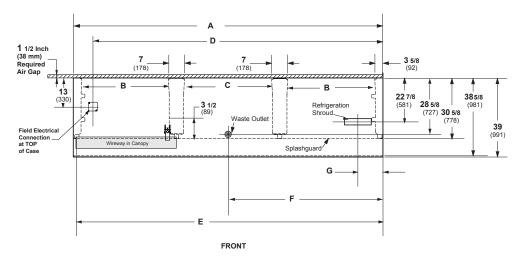
Engineering Plan View

IDD5NU/IDD6NU

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).

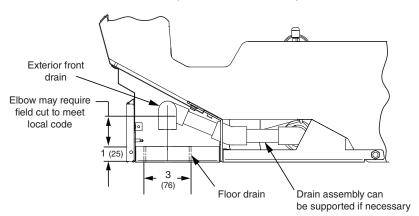


(12 Foot Model shown above)

		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)	38 5/8 (981)	38 5/8 (981)	38 5/8 (981)	38 5/8 (981)
	Back of case to front of splashguard	30 5/8 (778)	30 5/8 (778)	30 5/8 (778)	30 5/8 (778)
(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	3 1/4 (83)	3 1/4 (83)	3 1/4 (83)	3 1/4 (83)
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	13 (330)	13 (330)	13 (330)	13 (330)
	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)	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)	28 5/8 (727)
	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 Shroud				
(G)	Back of case to center of refrigeration shroud	22 7/8 (581)	21 1/8 (537)*	22 7/8 (581)	22 7/8 (581)
	End of case to center of refrigeration shroud	9 1/2 (241)	7 5/8 (194)*	9 1/2 (241)	9 1/2 (241)
	*6 foot case at 42° angle, parallel to the plenum.	•		•	

Drain Extension Option

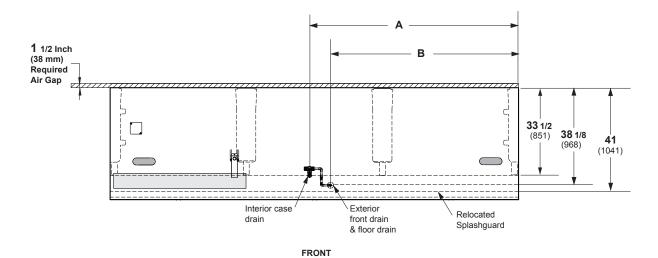
(Partial End View)



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

Engineering Plan View

Dimensions shown as in. and (mm).



(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	13 3/4 (349)	13 3/4 (349)	13 3/4 (349)	61 ⁷ /8 (1572)

Electrical Data

Number	of Fans		4 ft	6 ft	8 ft	12 ft				
10.3-in			1	2	2	3				
			Amperes				Watts			
Evapora	tor Fan		4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient	0.40	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				
Maximur	ท Over Cเ	irrent Protection 120V	20	20	20	20				
Maximun	n Over Cur	rent Protection 230V	15	15	15	15				
STANDA	RD LIGHT	ΓING								

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.

STANDARD LIGHTING EcoShine II Canopy 1 Row EcoShine II	0.16	0.26	0.32	0.48	19.3	31.6	38.6	58.0
OPTIONAL LIGHTING EcoShine II Canopy 1 Row EcoShine II HO	0.22	0.33	0.44	0.66	26.5	39.5	53.0	79.4
Shelf None								
Mullion EcoShine II 60-in.	0.28	0.51	0.51	0.74	34.1	61.4	61.4	88.6
Frame Anti-Condensate Heaters (Only with EcoVision HA+ Door Option)	0.41	0.63	0.68	0.94	55.5	82.3	88.1	120.8

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 ½ in. (38 mm) to case line up. Optional view end with end bumper adds 3 ¼ in. (95 mm).

PHYSICAL DATA

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)

 Ib (kg)
 1030 (467)
 1260 (572)
 1490 (676)
 1950 (885)
 90 (41)

† Actual weights will vary according to optional kits included.

Shelf Options

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

14-inch

16-inch

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: 0

Standard shelf complement for test purposes: (5) rows of 18-in. shelves evenly distributed vertically.

Replacement Parts List

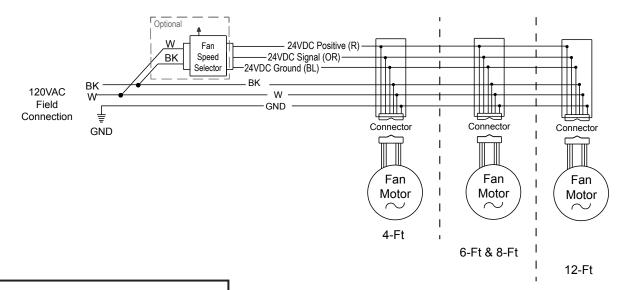
Description	Part #	Description
	HONEYCOMB - WHITE	
2 Ft	0536831	4 ft, 8 ft, 12 ft
Assembly	0536829	6 ft only
10.3-in. Fan Assembly		
	OTHER	
	0534013	Fan Speed Selector
		(Standard)
	0534355	Fan Speed Key 1200 RPM
OWER SUPPLY	Varies	Thermo-expansion Valve
Power Supply		
LED Canopy Fixture	EcoVision HA+ FRA	AME HEATERS (OPTIONAL)
Replace with like fixtures.	4 Ft, 8 Ft & 12 Ft	
LED Mullion Fixture	0549867	Heater - Mullion End LH
Replace with like fixtures.	0549870	Heater - Mullion Center
	0548655	Heater - Retainer Bottom
	0549868	Heater - Mullion End RH
4 ft, 8 ft, 12 ft (84 pass)		
6 ft only (84 pass)	6 Ft	
	0549867	Heater - Mullion End LH
	0549869	Heater - Mullion Center
	0548656	Heater - Retainer Bottom
	0549868	Heater - Mullion End RH
	Power Supply Power Supply Power Supply LED Canopy Fixture Replace with like fixtures. LED Mullion Fixture Replace with like fixtures.	HONEYCOMB - WHITE 2 Ft

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

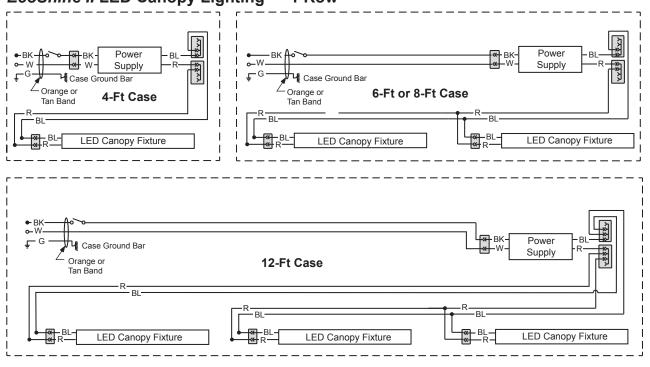
Fan Wiring Offtime Defrost

Insight IDD6NU Dairy / Delicatessen / Beverage



LED Canopy Light Circuits

EcoShine II LED Canopy Lighting — 1 Row

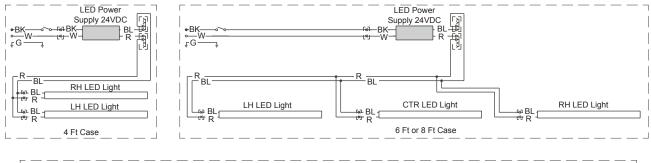


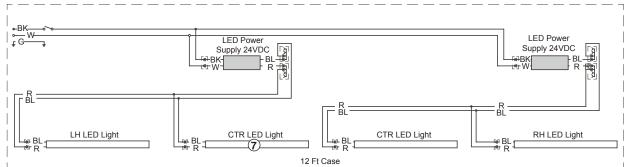
WARNING

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

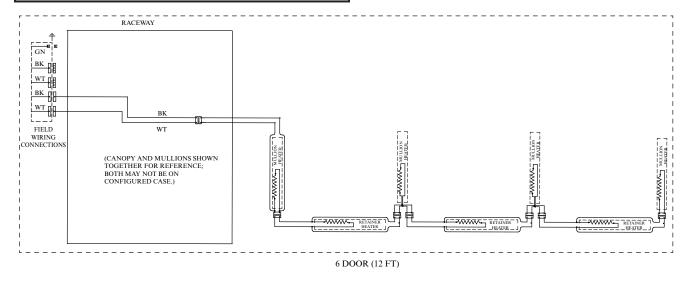
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
$$\bullet$$
 = 120V Power \circ = 120V Neutral $\stackrel{\perp}{=}$ = Field Ground $\stackrel{min}{=}$ = Case Ground

Mullion LED Lighting





Door Frame Heater EcoVision HA+ Only



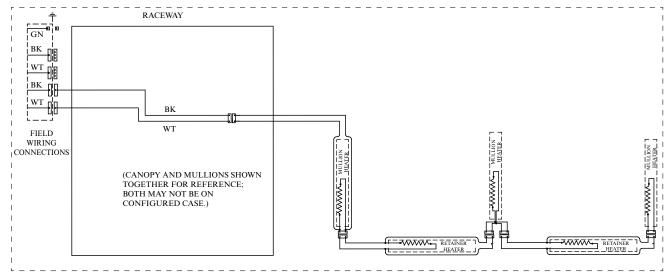
WARNING

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

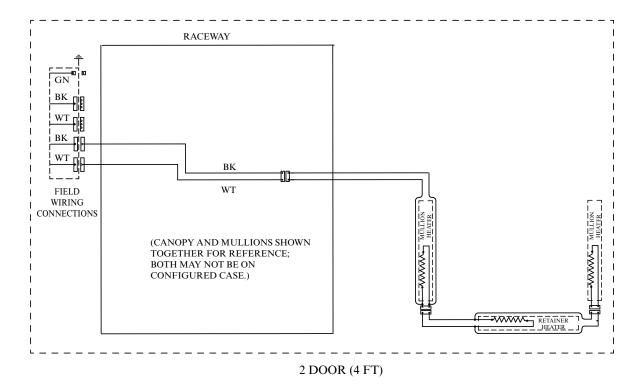
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
$$\bullet$$
 = 120V Power \circ = 120V Neutral $\frac{1}{2}$ = Field Ground $\stackrel{\text{min}}{\text{min}}$ = Case Ground

Door Frame Heater EcoVision HA+ Only

Insight IDD6NU Dairy / Delicatessen / Beverage



3 DOOR / 4 DOOR (6 FT / 8 FT)



WARNING

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

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 mullion lighting [maximum for which case is wired] (0.74 for EcoShine II 60 mullion lights); 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 QR code to access product information on your mobile device.

Revision History

Revision A: September 2018: Original Issue