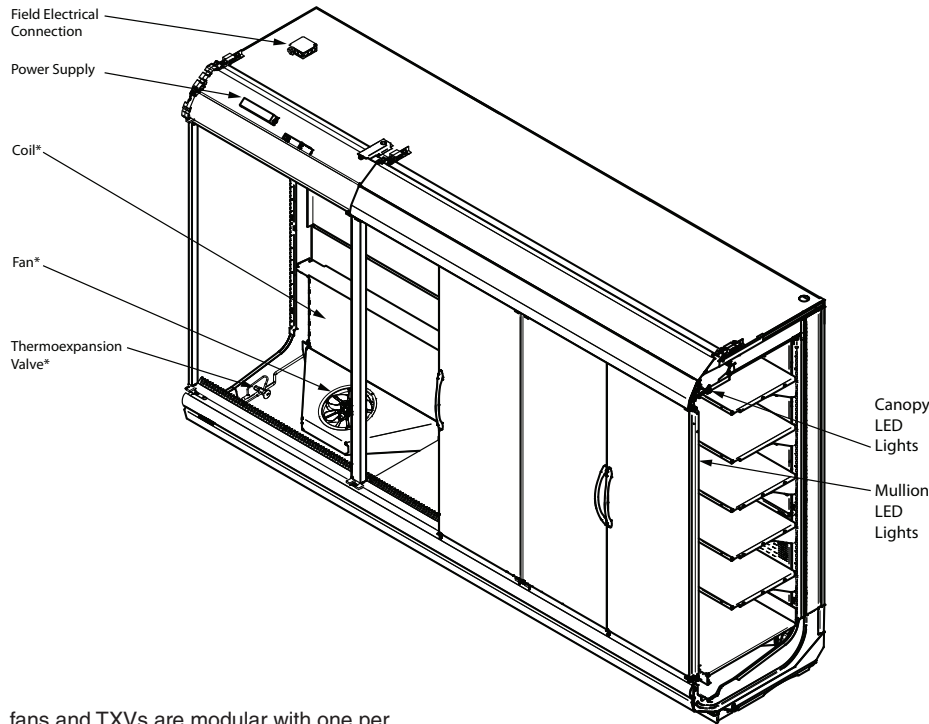


*Insight standard field electrical connections
are at the top left of the merchandiser*



*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.

IMPORTANT

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

Performance Data	Page 2	Estimated Shipping Weights	Page 7
Product Data (AHRI Statistics)	Page 2	Shelf Options	Page 7
Cross Section	Page 3	Replacement Parts List	Page 8
Plan View	Page 4	Wiring Diagrams	Page 9
Electrical Loads	Page 6	Computing Refrigeration and Electrical Load	Page 12
		Revision History	Page 12

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

Refrigeration Data ¹

IDD6NU		Optimal Shelf Life					Energy Comparison
Door Option		EcoVision			EcoVision HA	EcoVision HA+	EcoVision
Application		Dairy/Deli/ Beverage/ Produce	Pegs ⁴	Convertible/ Meat	NSF Type 2 Ambient ⁵	Harsh Environment	AHRI 1200 Rating Point ⁶
Unlit Mullions	Discharge Air °F (°C)	37 (2.77)	35 (1.67)	35 (1.67)	35 (1.67)	34 (1.11)	37 (2.77)
	Average Evaporator °F (°C) ^{2,3}	34 (1.11)	32 (0.00)	32 (0.00)	32 (0.00)	31 (-0.55)	34 (1.11)
	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)
Lit Mullions	Discharge Air °F (°C)	36 (2.22)	34 (1.11)	34 (1.11)	34 (1.11)	33 (0.55)	36 (2.22)
	Average Evaporator °F (°C) ^{2,3}	33 (0.55)	31 (-0.55)	31 (-0.55)	31 (-0.55)	30 (-1.11)	33 (0.55)
	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 Speed ⁷	IDD6NU6 (10.3")	1200 ⁷	1200 ⁷	1200 ⁷	1200 ⁷	1200 ⁷	1200 ⁷
	IDD6NU4, 8, 12 (10.3")	1200 ⁷	1200 ⁷	1200 ⁷	1200 ⁷	1200 ⁷	1200 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.
- 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).
- Hussmann Peg Shelves for Dairy/Deli applications only.
- Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
- AHRI 1200 Rating Point for energy consumption comparison only.
- 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		
Time (minutes)	40	30
ELECTRIC OR GAS	Not Available	
Defrost Water ⁸	1.5 lb/ft/day (2.2 kg/m)	2.3 lb/ft/day (3.4 kg/m)

⁸ (± 15% based on case configuration and product loading).

Conventional Controls

IDD6NU
Low Pressure Backup Control CI/CO ⁹
26°F / 16°F -3.3°C / -8.9°C
Indoor Unit Only, Pressure Defrost Termination ⁹
48°F (8.89°C)

⁹ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ¹⁰

IDD6NU
4 ft 0.6 lb 10 oz 0.3 kg
6 ft 1.1 lb 18 oz 0.5 kg
8 ft 1.5 lb 24 oz 0.7 kg
12 ft 2.9 lb 46 oz 1.3 kg

¹⁰ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Gross Refrigerated Volume ¹¹ (Cu Ft/Ft)	10.8 ft ³ /ft (1.00 m ³ /m)
AHRI Total Display Area ¹² (Sq Ft/Ft)	5.36 ft ² /ft (1.63 m ² /m)
Shelf Area ¹³ (Sq Ft/Ft)	9.58 ft ² /ft (2.92 m ² /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: (5) rows of shelves

Insight Multideck Merchandiser, EcoVision Doors,
6 Display Levels, Narrow Bottom, Ultra Low Height
Front

Insight IDD6NU
Dairy / Delicatessen / Beverage

DOE 2017
Energy Efficiency
Compliant

Husmann 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.

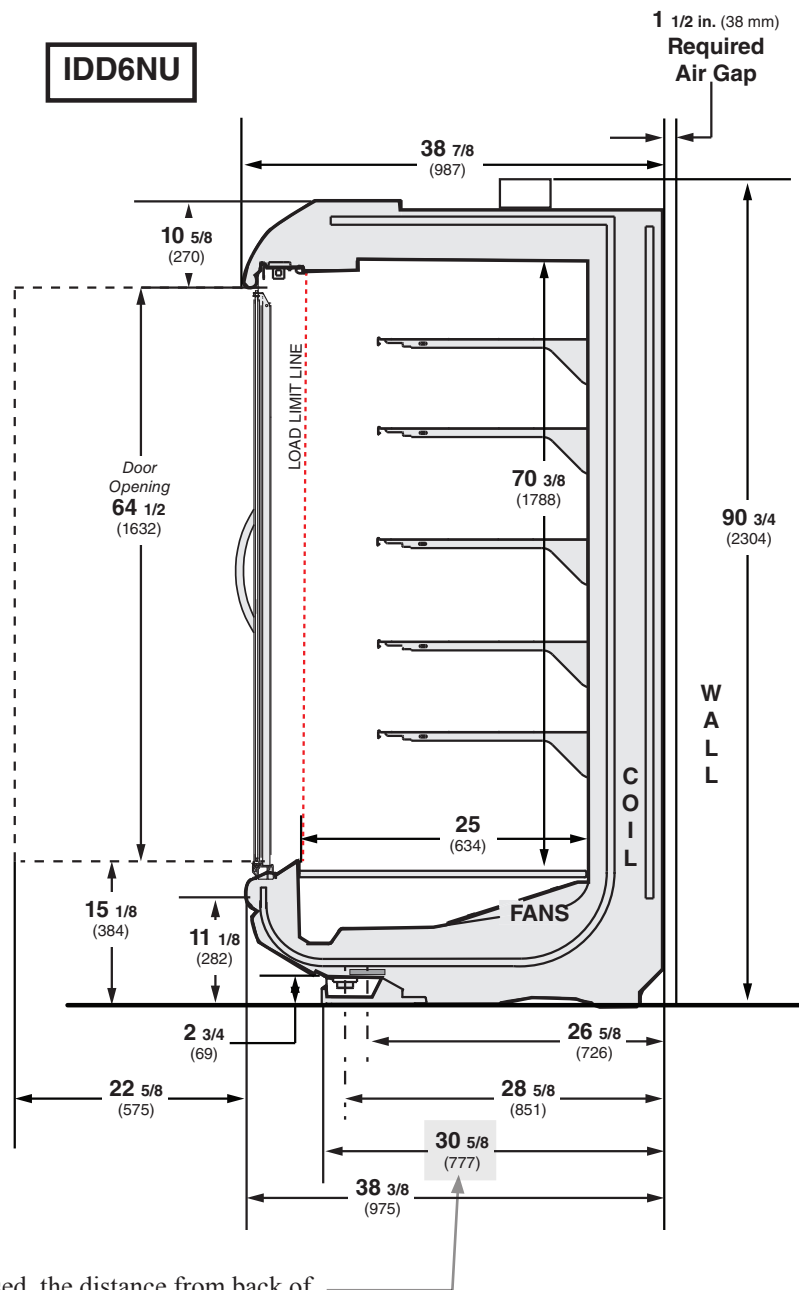
A minimum 2-in. clearance required between the discharge honeycomb and products when using larger shelves.

A minimum 1 1/2-in. clearance required to remove raceway cover, 6 1/2-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).



NOTE:

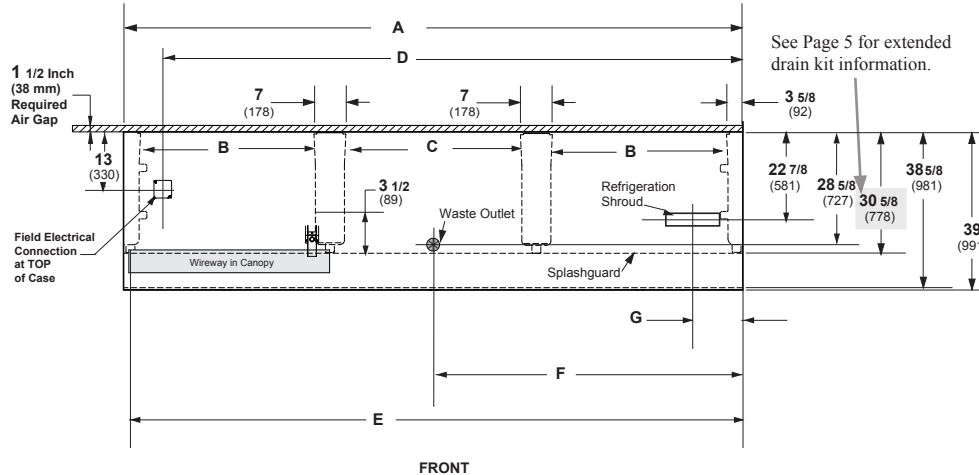
If extended drain kits are used, the distance from back of case (not including air gap) increases to 35 1/8 inches. This may affect floor drain layout. See Page 5 for more details.

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).

IDD5NU/IDD6NU

Dimensions shown as in. and (mm).



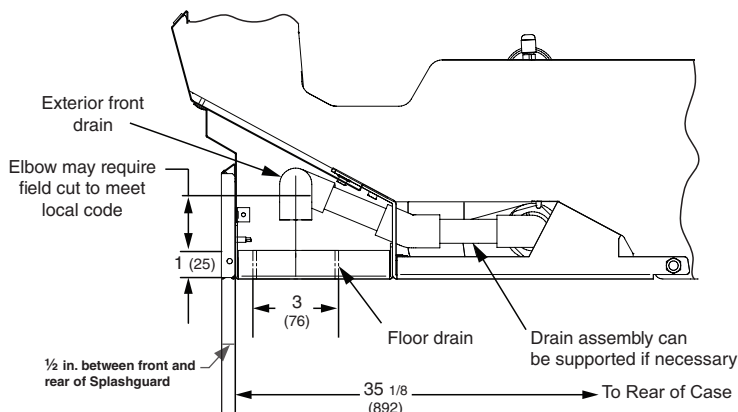
(12 Foot Model shown above)

	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.)	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)
Electrical 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)
Waste 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)
<i>Floor Drain must be located within 24 inches of Waste Outlet.</i>				
Refrigeration 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.				

Waste Outlet Drain Extension Option

Insight IDD6NU
Dairy / Delicatessen / Beverage

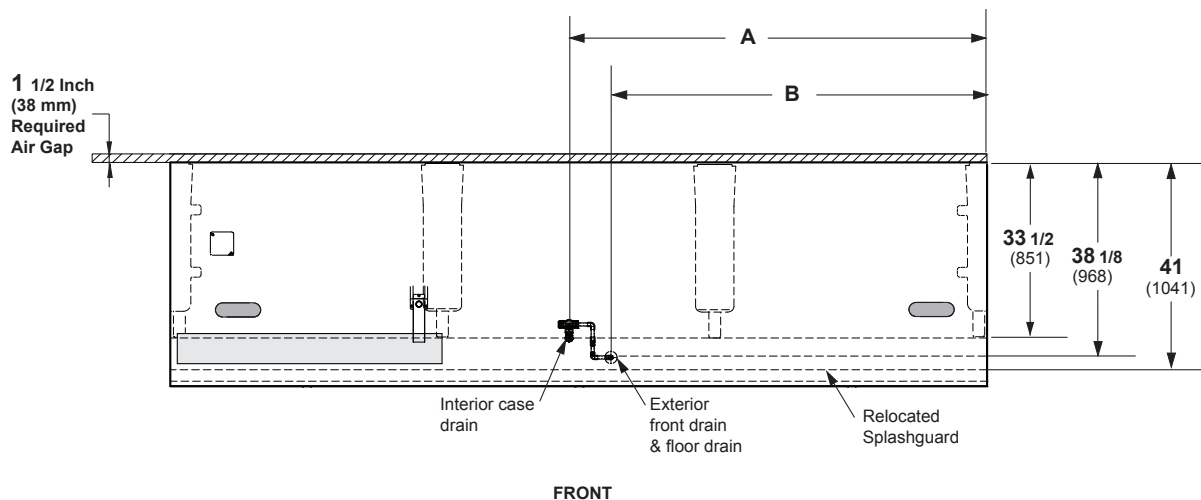
Drain Extension Option (Partial End View)



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
Waste 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			
Evaporator 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

Minimum Circuit 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

Maximum Over Current Protection 120V	20	20	20	20
Maximum Over Current Protection 230V	15	15	15	15

STANDARD 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.

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 1/2 in. (38 mm) to case line up. Optional view end with end bumper adds 3 3/4 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	4 ft	6 ft	8 ft	12 ft	Solid End (each)
lb (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

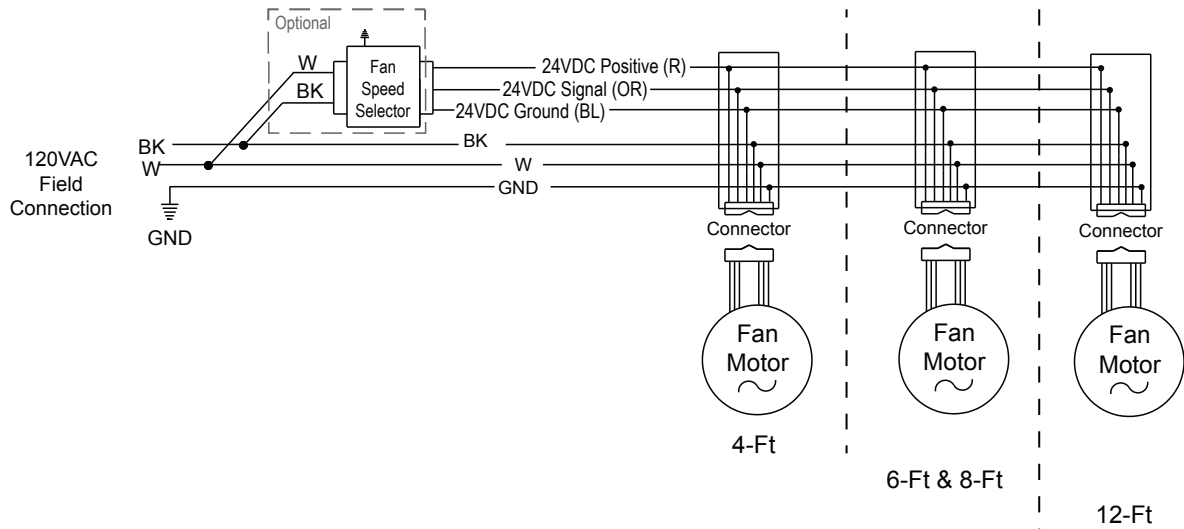
Part #	Description	Part #	Description
FAN ASSEMBLIES		HONEYCOMB - WHITE	
4 Ft, 6 Ft, 8 Ft & 12 Ft		0536831	4 ft, 8 ft, 12 ft
Standard HE Fan Assembly		0536829	6 ft only
0535564	10.3-in. Fan Assembly		
THERMOSTATS		OTHER	
OPTIONAL		0534013	Fan Speed Selector (Standard)
LED FIXTURES AND POWER SUPPLY		0534355	Fan Speed Key 1200 RPM
0501213	Power Supply	Varies	Thermo-expansion Valve
	LED Canopy Fixture		
	<i>Replace with like fixtures.</i>		
	LED Mullion Fixture		
	<i>Replace with like fixtures.</i>		
COILS		EcoVISION HA+ FRAME HEATERS (OPTIONAL)	
0534331	4 ft, 8 ft, 12 ft (84 pass)	4 Ft, 8 Ft & 12 Ft	
0534330	6 ft only (84 pass)	0549867	Heater - Mullion End LH
		0549870	Heater - Mullion Center
		0548655	Heater - Retainer Bottom
		0549868	Heater - Mullion End RH
		6 Ft	
		0549867	Heater - Mullion End LH
		0549869	Heater - Mullion Center
		0548656	Heater - Retainer Bottom
		0549868	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](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](http://www.hussmann.com/en/pages/aftermarket-parts.aspx)

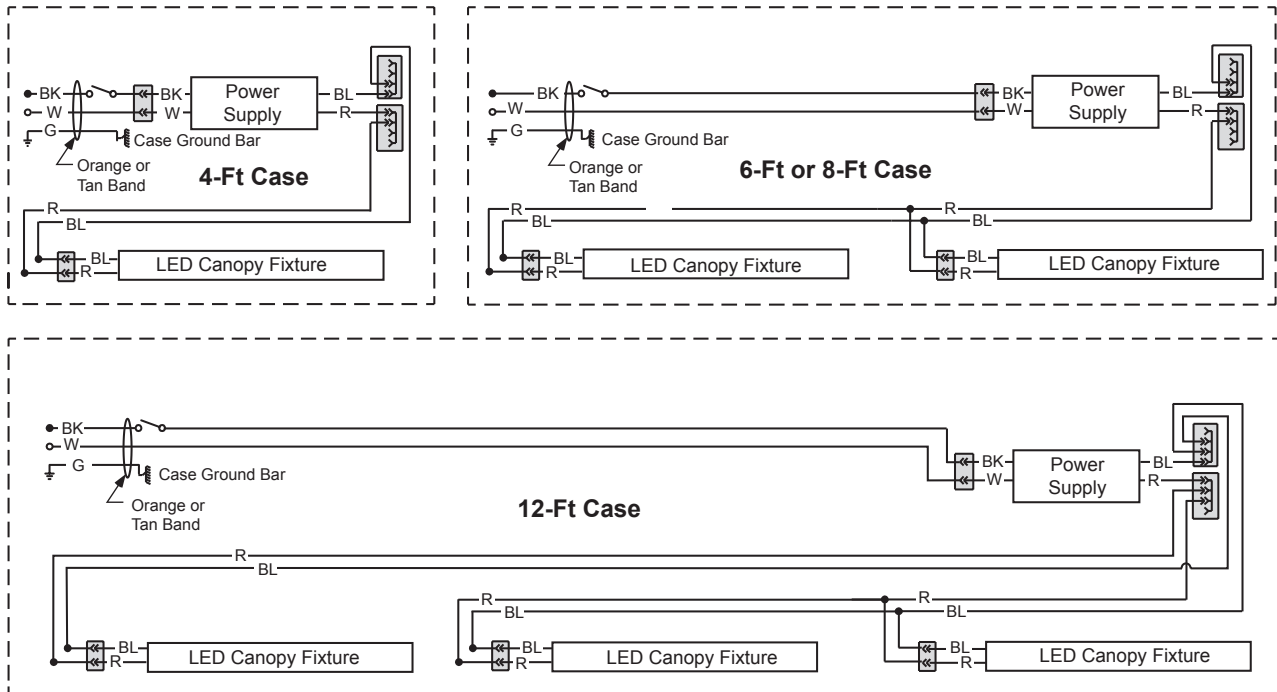
Fan Wiring Offtime Defrost

Insight **IDD6NU**
Dairy / Delicatessen / Beverage



LED Canopy Light Circuits

EcoShine II LED Canopy Lighting — 1 Row



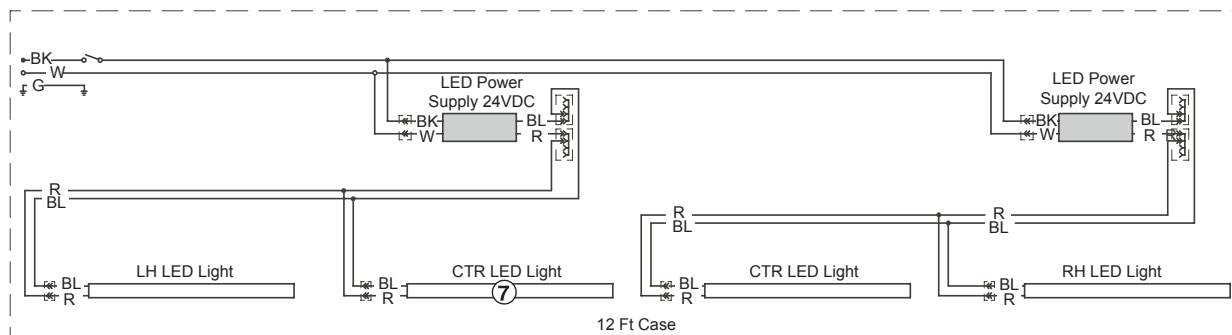
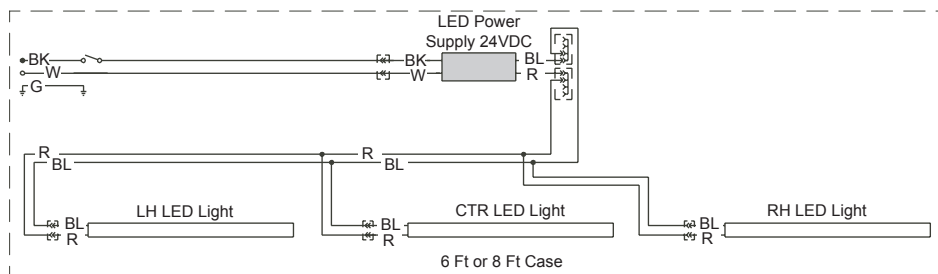
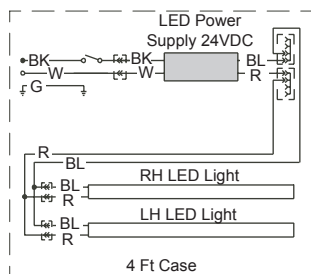
WARNING

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

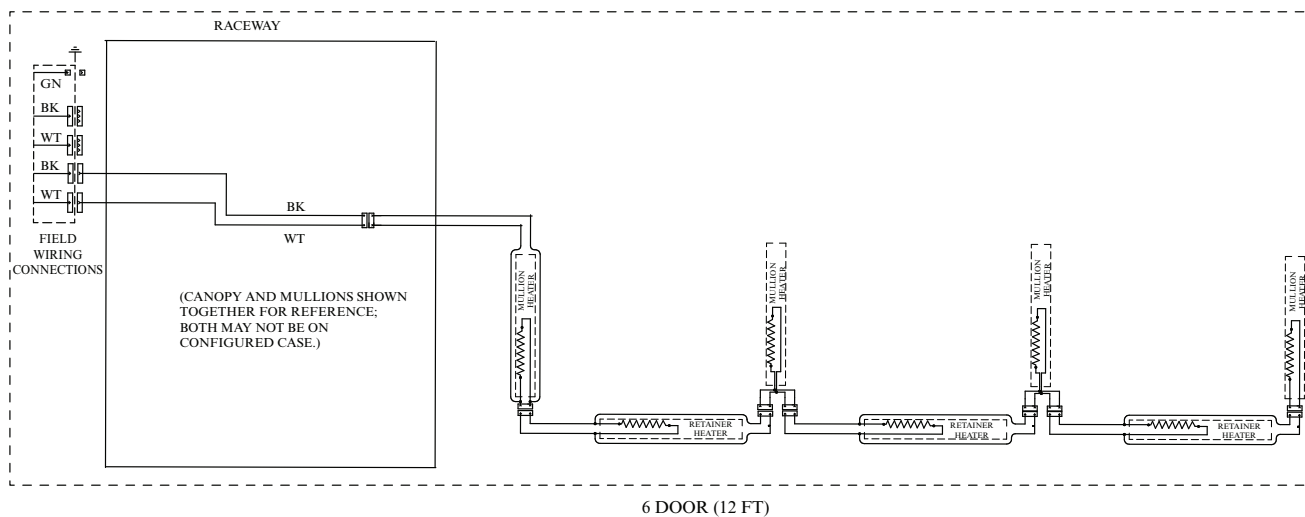
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

Insight **IDD6NU** Dairy / Delicatessen / Beverage

Mullion LED Lighting



Door Frame Heater EcoVision HA+ Only



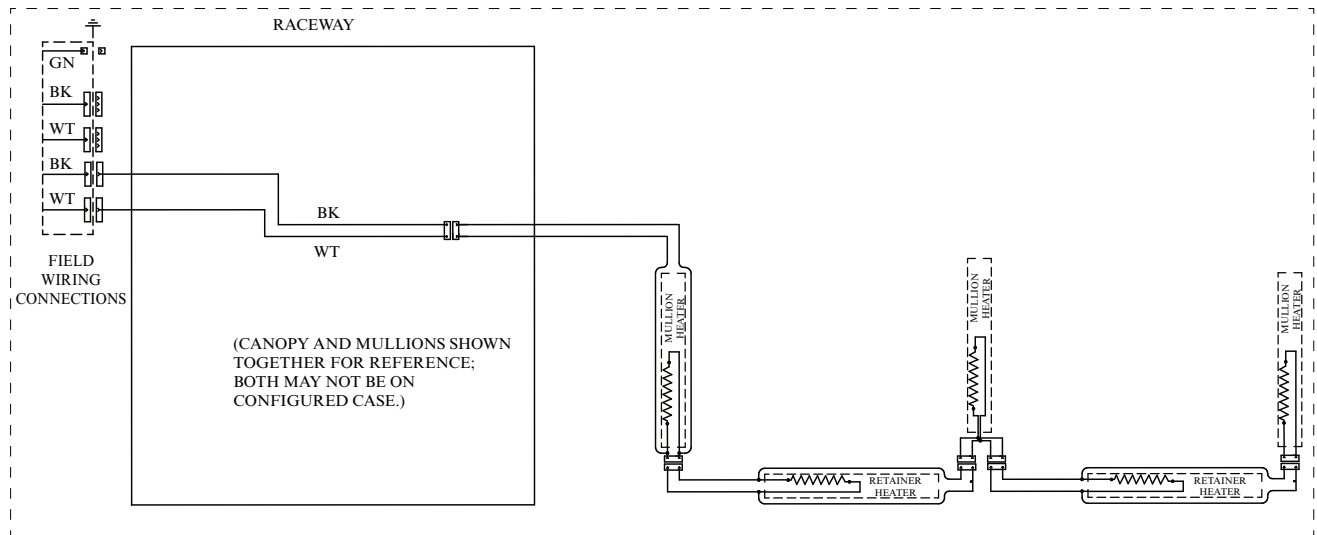
WARNING

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

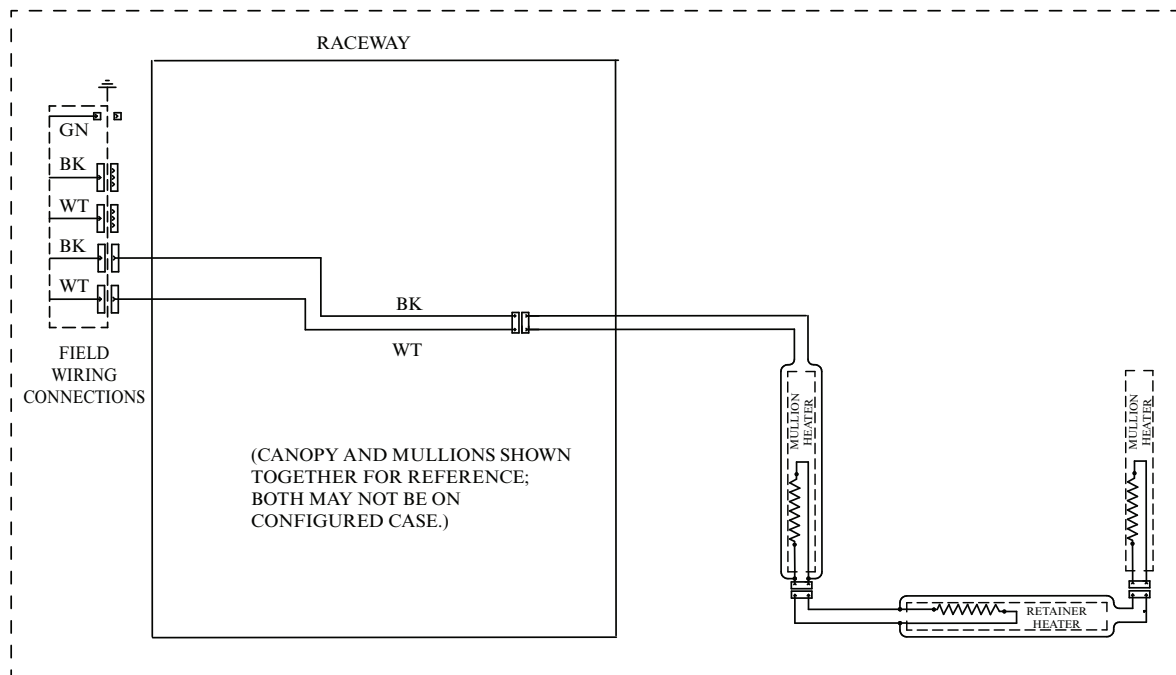
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
 ● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

Door Frame Heater EcoVision HA+ Only

Insight IDD6NU
Dairy / Delicatessen / Beverage




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



2 DOOR (4 FT)

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  = 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 mullion lighting [maximum for which case is wired] (0.74 for EcoShine II 60 mullion lights); then add together $[0.48 + 0.74 = 1.22 \text{ amps for } 120\text{V}]$ (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

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

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