## HUSSMANN

## Insight® IDDF6SV

Dairy / Delicatessen / Beverage

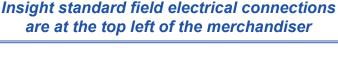
with EcoVision Doors

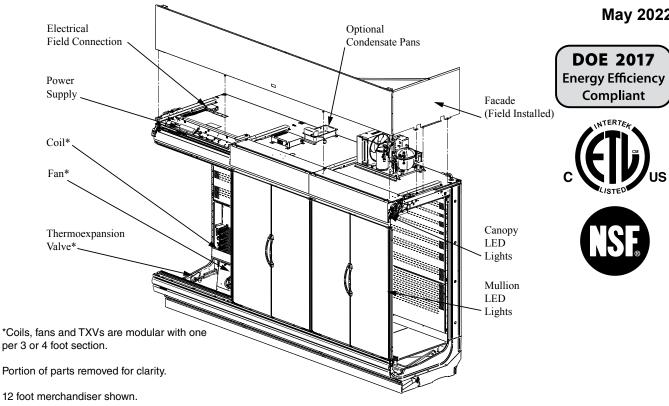
**Merchandiser Data Sheet** 

P/N 3023391 J

**NSF**® Certified

May 2022





#### **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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| Product Data (AHRI Statistics) | Page 2 | Shelf Options                               | Page 7  |
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#### Data sheet-Insight IDDF6SV

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 IDDF6SV Dairy / Delicatessen

#### Refrigeration Data 1

|                        | IDDF6SV                                       |                                     | Energy<br>Comparison |                      |                                    |                      |                                        |
|------------------------|-----------------------------------------------|-------------------------------------|----------------------|----------------------|------------------------------------|----------------------|----------------------------------------|
| Door Option            |                                               |                                     | EcoVision            |                      | EcoVision HA                       | EcoVision<br>HA+     | EcoVision                              |
| Application            |                                               | Dairy/Deli/<br>Beverage/<br>Produce | Pegs³                | Convertible/<br>Meat | NSF Type 2<br>Ambient <sup>4</sup> | Harsh<br>Environment | AHRI 1200<br>Rating Point <sup>5</sup> |
|                        | Discharge Air °F (°C)                         | 38 (3.33)                           | 36 (2.22)            | 34 (1.11)            | 34 (1.11)                          | 33 (0.55)            | 38 (3.33)                              |
| Unlit                  | Average Evaporator °F (°C) <sup>2</sup>       | 34 (1.11)                           | 33 (0.55)            | 31 (-0.55)           | 31 (-0.55)                         | 30 (-1.11)           | 34 (1.11)                              |
| Mullions               | Parallel Btu/hr/ft (Watts/m)                  | 253 (243)                           | 272 (262)            | 277 (266)            | 287 (276)                          | 360 (346)            | 253 (246)                              |
|                        | Conventional Btu/hr/ft (Watts/m)              | 260 (250)                           | 280 (269)            | 285 (274)            | 295 (284)                          | 370 (356)            | 260 (250)                              |
|                        | 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) <sup>2</sup>       | 33 (0.55)                           | 32 (0)               | 30 (-1.11)           | 30 (-1.11)                         | 29 (-1.67)           | 33 (0.55)                              |
| Mullions               | Parallel Btu/hr/ft (Watts/m) <sup>6</sup>     | 282 (271)                           | 301 (290)            | 306 (294)            | 316 (304)                          | 379 (365)            | 282 (271)                              |
|                        | Conventional Btu/hr/ft (Watts/m) <sup>6</sup> | 290 (279)                           | 310 (298)            | 315 (303)            | 325 (313)                          | 390 (375)            | 290 (279)                              |
| Fan Snood6             | IDDF6SV6 (10.3")                              | 1150 <sup>6</sup>                   | 1150 <sup>6</sup>    | 1150 <sup>6</sup>    | 1150 <sup>6</sup>                  | 1150 <sup>6</sup>    | 1150 <sup>6</sup>                      |
| Fan Speed <sup>6</sup> | IDDF6SV4, 8, 12 (10.3")                       | 1150 <sup>6</sup>                   | 1150 <sup>6</sup>    | 1150 <sup>6</sup>    | 1150 <sup>6</sup>                  | 1150 <sup>6</sup>    | 1150 <sup>6</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. 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<br>Environment |  |  |  |
| Frequency (hours b            | etween defrost)       |                      |  |  |  |
|                               | 12                    | 12                   |  |  |  |
| <i>Offtime</i> Time (minutes) | 30                    | 30                   |  |  |  |
| ELECTRIC OR GAS               | Not Available         |                      |  |  |  |
| Defrost Water <sup>7</sup>    | 1.0 lb/ft/day         | 2.3 lb/ft/day        |  |  |  |
|                               | (1.5 kg/m)            | (3.4 kg/m)           |  |  |  |
| 7 (+ 15% based on case co     | nfiguration and produ | ict loading)         |  |  |  |

| <b>Conventional Controls</b>                                                 |             |  |  |  |  |
|------------------------------------------------------------------------------|-------------|--|--|--|--|
|                                                                              | IDDF6SV     |  |  |  |  |
| Low Pressure Bac                                                             | :kup        |  |  |  |  |
| Control CI/CO 8                                                              |             |  |  |  |  |
|                                                                              | 26°F /16°F  |  |  |  |  |
| -3.3                                                                         | °C / –8.9°C |  |  |  |  |
| Indoor Unit Only, Pressure Defrost Termination <sup>8</sup>                  |             |  |  |  |  |
| 4                                                                            | 8°F (8.9°C) |  |  |  |  |
| <sup>8</sup> Use a Temperature Pressure Chart to determine PSIG conversions. |             |  |  |  |  |

#### **Product Data**

 Gross Refrigerated Volume 9 (Cu Ft/Ft)
 12.40 ft³/ft (1.15 m³/m)

 AHRI Total Display Area 10 (Sq Ft/Ft)
 4.87 ft²/ft (1.48 m²/m)

 Shelf Area 11 (Sq Ft/Ft)
 11.69 ft²/ft (3.56 m²/m)

- AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- <sup>10</sup> Computed using AHRI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]
- 11 Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 22-in. shelves

### **Refrigeration Data Continued**

Total Working Refrigerant Charge 12

#### Air-Cooled

With Recommended Condensing Unit Installed

| 4 ft  | 1 lb, 11 oz | 1 | 0.77 kg |
|-------|-------------|---|---------|
| 6 ft  | 2 lb, 8 oz  | 1 | 1.14 kg |
| 8 ft  | 2 lb, 14 oz | / | 1.32 kg |
| 12 ft | 4 lb, 8 oz  | 1 | 2.04 kg |

#### Water-Cooled

With Recommended HMDSLMT Condensing Unit Installed

```
4 ft
       2 lb, 10 oz /
                           1.18 kg
6 ft
       3 lb, 2 oz /
                          1.41 kg
8 ft
       3 lb, 8 oz /
                          1.59 kg
12 ft
       4 lb, 14 oz /
                           2.22 kg
```

<sup>&</sup>lt;sup>12</sup> The Total Refrigerant Charge includes the case and condensing unit. Both ship pre-charged with a portion of the total refrigerant.

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.

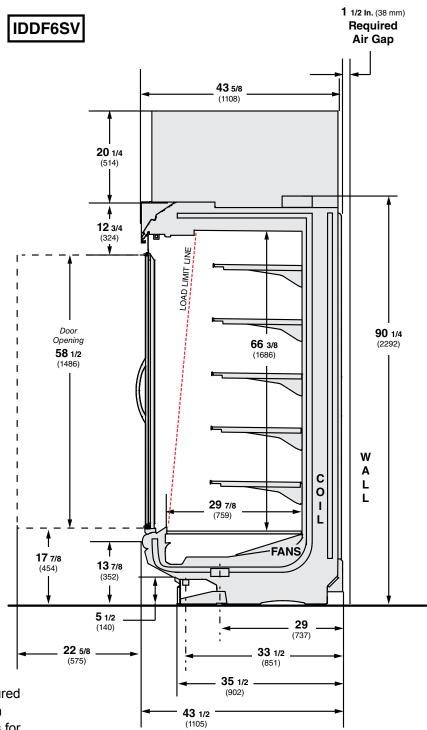
#### Dimensions shown as in. and (mm).

Shelf complement shown as tested:

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

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.



#### **NSF Certification**

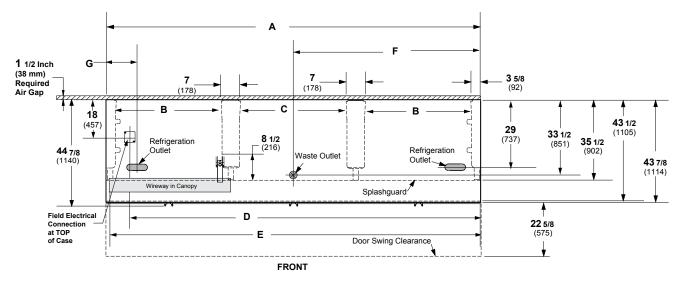
This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.

# Engineering Plan View

Insight IDDF6SV
Dairy / Delicatessen

## IDD5SU/IDD6SU/IDD5SV/IDDF6SV

Dimensions shown as in. and (mm).



(12 Foot Model shown above)

|         |                                                                                                                       | 4 ft          | 6 ft          | 8 ft          | 12 ft                     |
|---------|-----------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------------------|
| General |                                                                                                                       |               |               |               |                           |
| (A)     | (A) Case Length (without ends or partitions) (Each end and insulated partition adds 1 ½ 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 (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 <sup>7</sup> /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)               |

## Insight IDDF6SV Dairy / Delicatessen

#### **Electrical Data**

| Number   | of Fans     |                  | 4 ft | 6 ft | 8 ft  | 12 ft |                |    |      |       |
|----------|-------------|------------------|------|------|-------|-------|----------------|----|------|-------|
| 10.3-in. |             | 1                | 2    | 2    | 3     |       |                |    |      |       |
|          |             |                  |      |      |       |       |                |    |      |       |
|          |             |                  |      | Amp  | oeres |       |                | Wa | atts |       |
| 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    |
| Condens  | sate Pump   | •                |      |      |       |       |                |    |      |       |
| 120V     | 60Hz        |                  | 1.9  | 1.9  | 1.9   | 1.9   |                |    |      |       |
| 230V     | 60Hz        |                  | 1.0  | 1.0  | 1.0   | 1.0   |                |    |      |       |
| Minimun  | n Circuit A | mpacity          |      |      |       |       |                |    |      |       |
| 120V     | 60Hz        | Energy Efficient | 3.40 | 4.23 | 4.36  | 5.33  |                |    |      |       |
| 230V     | 50/60Hz     | Energy Efficient | 1.79 | 2.21 | 2.28  | 2.79  |                |    |      |       |
| Maximu   | m Over Cu   | rrent Protection |      |      |       |       |                |    |      |       |
| 120V     |             |                  | 20   | 20   | 20    | 20    |                |    |      |       |
| 230V     |             |                  | 15   | 15   | 15    | 15    |                |    |      |       |
| OTANDA   |             | - IN O           |      |      |       |       |                |    |      |       |

#### **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

| STANDARD LIGHTING  LED Canopy  1 Row                                | 0.16 | 0.26 | 0.32 | 0.48 | 19.3 | 31.6 | 38.6 | 58.0  |
|---------------------------------------------------------------------|------|------|------|------|------|------|------|-------|
| OPTIONAL LIGHTING LED Canopy 1 Row HO                               | 0.22 | 0.33 | 0.44 | 0.66 | 26.5 | 39.5 | 53.0 | 79.4  |
| Shelf<br>None                                                       |      |      |      |      |      |      |      |       |
| <b>Mullion</b> 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) | 0.39 | 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  $\frac{1}{2}$  in. (38 mm) to case line up. Optional view end with end bumper adds 3  $\frac{3}{4}$  in. (95 mm).

#### **PHYSICAL DATA**

Merchandiser Drip Pipe (in.) 1 <sup>1</sup>/<sub>4</sub>
Schedule 40 PVC
Merchandiser Liquid Line (in.) <sup>3</sup>/<sub>8</sub>

Merchandiser Suction Line (in.) 5/8

#### **ESTIMATED SHIPPING WEIGHT †**

 Case
 Solid End

 4 ft
 6 ft
 8 ft
 12 ft
 (each)

 Ib (kg)
 930 (423)
 1170 (530)
 1400 (635)
 1870 (848)
 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

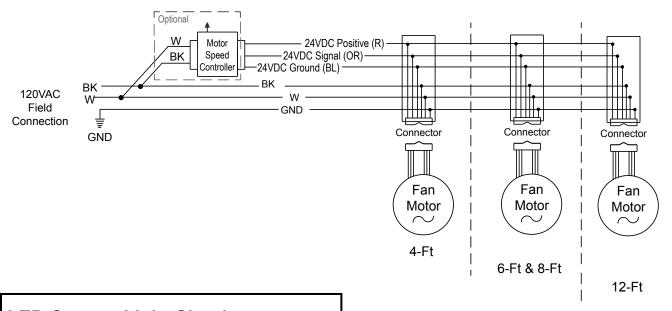
Maximum number of Shelves: 8

Maximum number of Lighted Shelves: 0

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

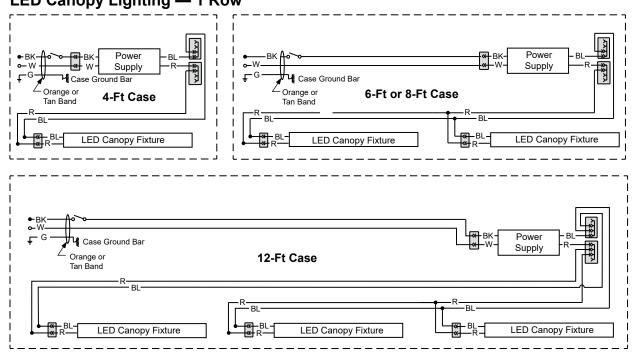
### Insight IDDF6SV Dairy / Delicatessen

### **Fan Wiring Offtime Defrost**



### **LED Canopy Light Circuits**

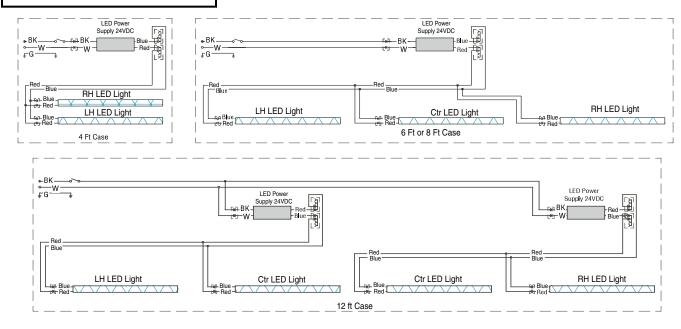




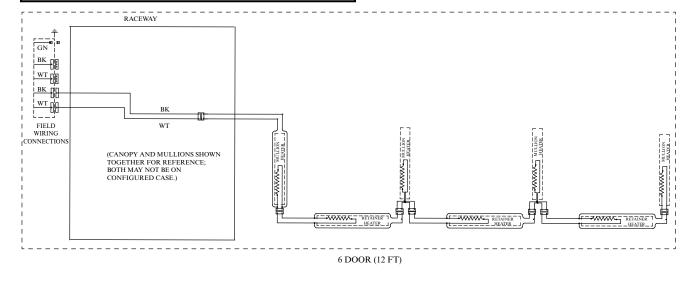
#### **WARNING**

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

## Mullion LED Lighting



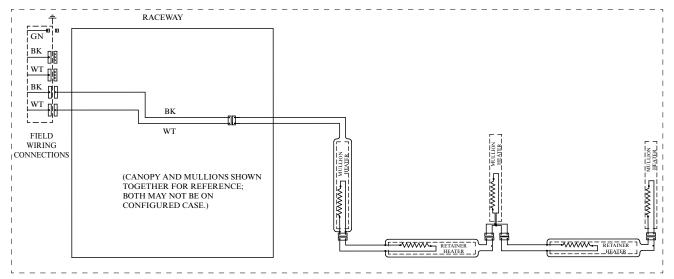
## Door Frame Heater EcoVision HA+ Only



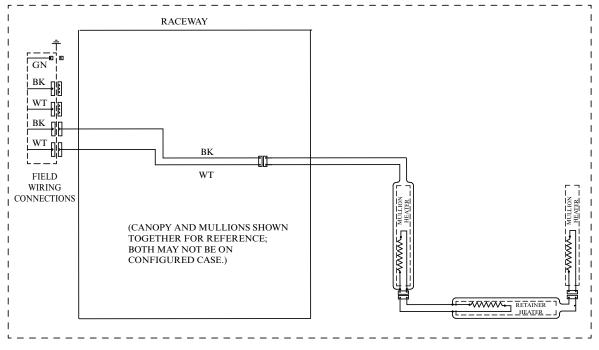
#### **WARNING**

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

### Door Frame Heater EcoVision HA+ Only



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 
$$\bullet$$
 = 120V Power  $\circ$  = 120V Neutral  $\stackrel{\perp}{=}$  = Field Ground  $\stackrel{\text{min}}{=}$  = 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 1.95. 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.



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: January 2017: Original Issue.

Revision B: April 2017: Updated LED energy values.

Revision C: April 2017: Updated LED energy values.

Revision D: September 2017: Updated notes page.

Revision E: May 2018: Updated lighting information.

Revision F: October 2018: Updated refrigerant charges.

Revision G: May 2019: Changed Defrost Data.

Revision H: September 2020. Updated refrigeration and electrical data; removed replacement parts page.

Revision J: May 2022. Updated refrigeration and electrical data.