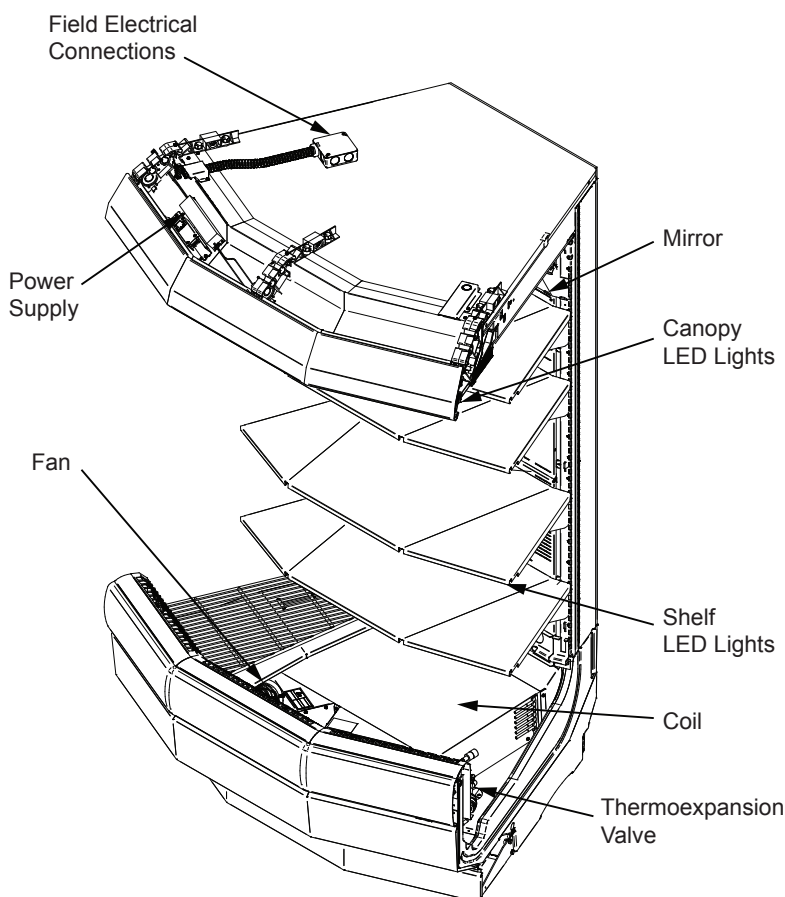


*Insight standard field electrical connections
are at the top left of the merchandiser*



Portion of parts removed for clarity.

Outside 45° wedge merchandiser shown.

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	Shelf Options	Page 6
Product Data (AHRI Statistics)	Page 2	Wiring Diagrams	Page 7
Cross Section	Page 3	Computing Refrigeration and Electrical Load	Page 9
Plan View	Page 4	QR Code for Parts and Product Information	Page 9
Electrical Loads	Page 5	Revision History	Page 9
Estimated Shipping Weights	Page 6		

Data sheet-Insight ID5SMO45

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 ID5SMO45
Dairy / Deli /
Beverage / Produce / Meat

Refrigeration Data ¹

ID5SMO45 Wedge		Optimal Shelf Life		Energy Comparison
Application		Dairy/Deli/ Beverage/ Produce	Convertible / Meat	AHRI 1200 Rating Point ³
Unlit Shelves	Discharge Air °F (°C)	33 (0.6)	32 (0.0)	35 (1.7)
	Average Evaporator °F (°C) ²	26 (-3.3)	24 (-4.4)	28 (-2.2)
	Parallel Btu/hr/case (Watts/case)	5702 (1671)	7764 (2275)	5500 (1612)
	Conventional Btu/hr/case (Watts/case)	6220 (1823)	8470 (2482)	6000 (1758)
Lit Shelves	Discharge Air °F (°C)	32 (0.0)	31 (-0.6)	34 (1.1)
	Average Evaporator °F (°C) ²	25 (-3.9)	23 (-5.0)	27 (-2.8)
	Parallel Btu/hr/case (Watts/case) ⁴	5757 (1687)	7819 (2292)	5555 (1628)
	Conventional Btu/hr/case (Watts/case) ⁴	6280 (1840)	8530 (2500)	6060 (1776)
Fan Speed ⁵	ID5SMO45 (8.25")	1600 ⁵	1600 ⁵	1600 ⁵

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. AHRI 1200 Rating Point for energy consumption comparison only.
4. Add 10 Btu/hr/case (2.9 Watts/case) per shelf row for LED shelf light fixtures.
5. Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator.

Defrost Data

Frequency (hours between defrost) 4

OFFTIME ID5SMO45
Time (minutes) 20

ELECTRIC OR GAS Not Available

Defrost Water ⁶ **46.1** lb/day
(20.9 kg/day)

⁶ (± 15% based on case configuration and product loading).

Conventional Controls

ID5SMO45
Low Pressure Backup
Control CI/CO ⁷
20°F / 10°F
-6.67°C / -12.2°C

Indoor Unit Only,
Pressure Defrost
Termination ⁷
48°F (8.89°C)

⁷ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ⁸ **ID5SMO45**
O45 0.6 lb 9.6 oz 0.3 kg

⁸ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Gross Refrigerated Volume ⁹ (Cu Ft) 43.96 ft³ (1.24 m³)
AHRI Total Display Area ¹⁰ (Sq Ft) 20.27 ft² (1.88 m²)
Shelf Area ¹¹ (Sq Ft) 38.87 ft² (3.61 m²)

⁹ AHRI Gross Refrigerated Volume: Refrigerated Volume, ft³ [m³]

¹⁰ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]

¹¹ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 20-inch shelves

Insight Multideck Merchandiser, 5 Display Levels,
Standard Bottom, Medium Height Front,
Outside Wedge

Insight ID5SMO45
Dairy / Deli /
Beverage / Produce / Meat

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 20-in. shelves spaced
equally between bottom display pan and
interior top panel.

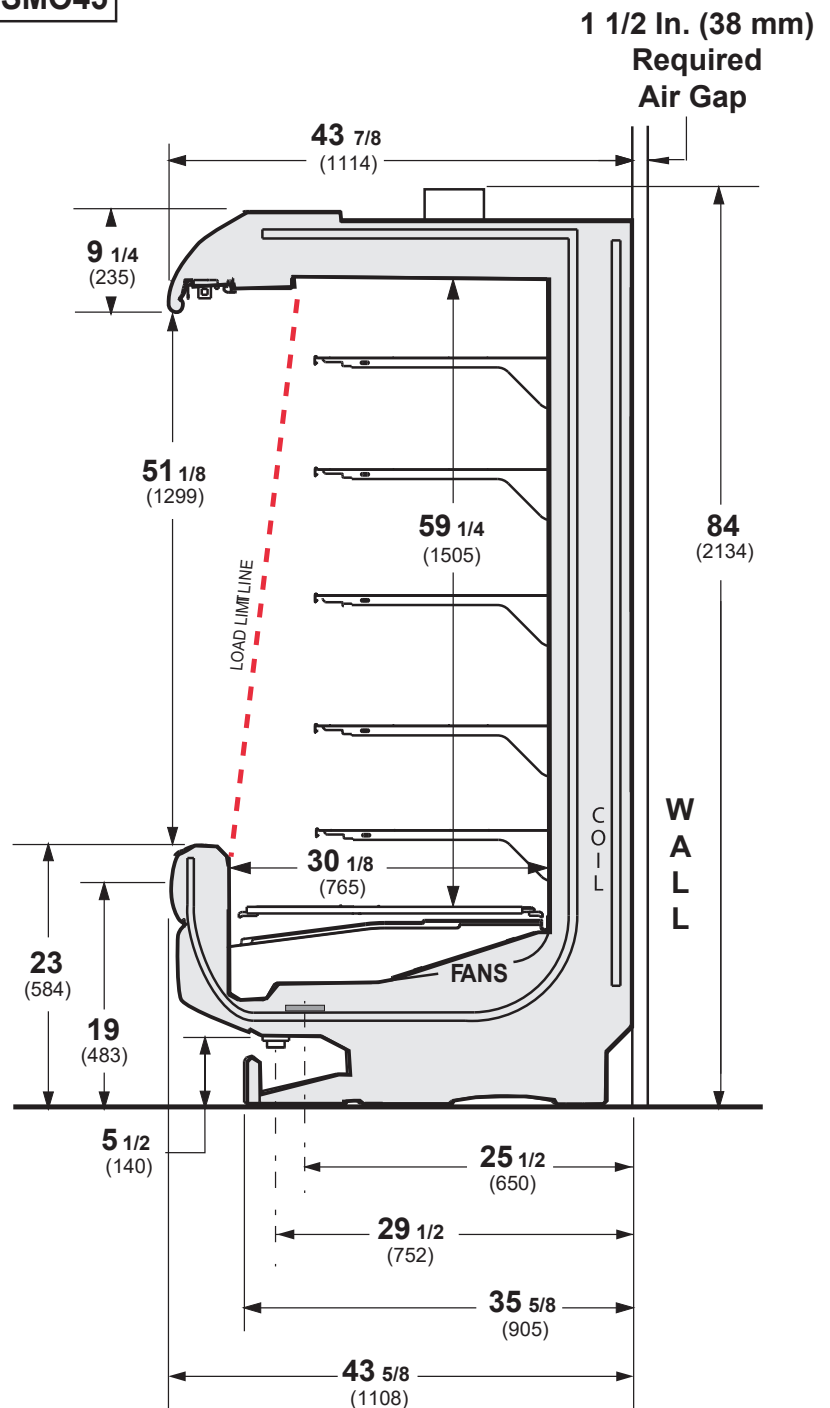
**Other optional kits (top piping
and vent fans) add to the overall
case height.**

3-in. between back to back cases.

**Shown with Ellipse Option
Canopy and Bumper.**

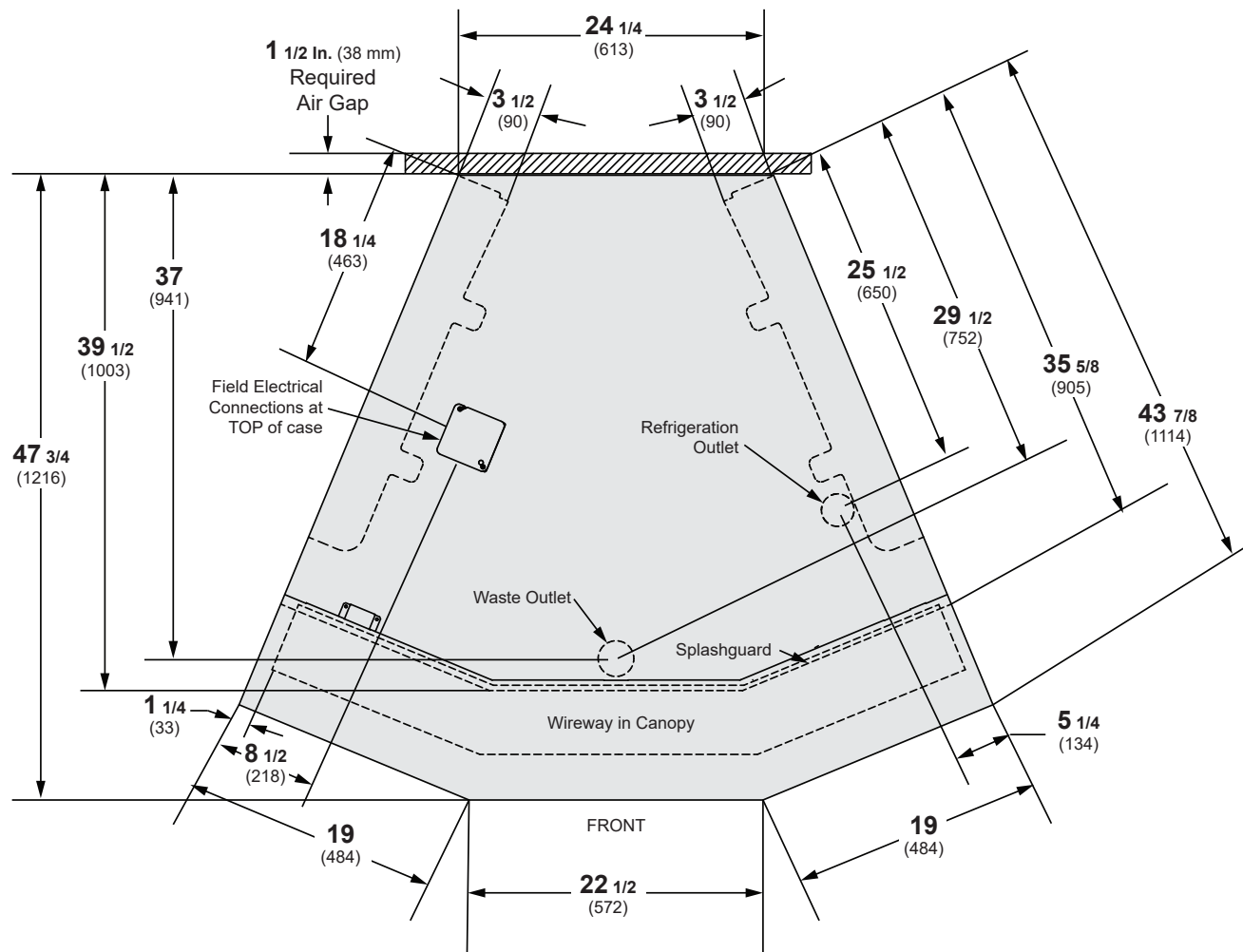
Dimensions shown as in. and (mm).

ID5SMO45



ID5SMO45

Dimensions shown as in. and (mm).



(ID5SMO45 Wedge shown above)

Electrical Data

Number of Fans

8.25-in.

O45

2

Evaporator Fan

120V 60Hz Energy Efficient
 230V 50/60Hz Energy Efficient

Amperes

O45

0.74
 0.39

Watts

O45

54
 54

Minimum Circuit Ampacity

120V 60Hz Energy Efficient
 230V 50/60Hz Energy Efficient

0.94
 0.59

Maximum Over Current Protection 120V

20

Maximum Over Current Protection 230V

15

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

Amperes

O45

0.16

Watts

O45

19.3

OPTIONAL LIGHTING

EcoShine II Canopy

1 Row of EcoShine II HO

0.22

26.5

OPTIONAL LIGHTING

EcoShine II Shelf

1 Row of Shelves
 2 Rows of Shelves
 3 Rows of Shelves
 4 Rows of Shelves
 5 Rows of Shelves
 6 Rows of Shelves

0.04
 0.08
 0.13
 0.17
 0.21
 0.25

5
 10
 15
 20
 25
 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

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

O45

lb (kg)

650 (295)

† 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: 3

Optimal number of Shelves: 4

Maximum number of Shelves: 8

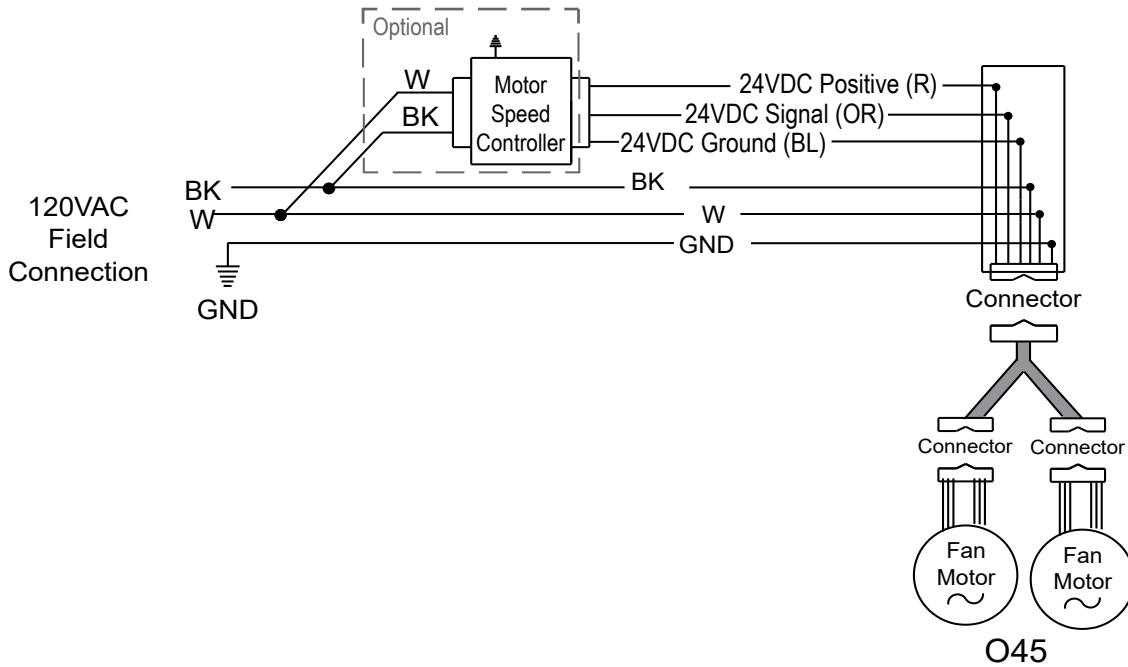
Maximum number of Lighted Shelves: 6

Standard shelf complement for test purposes: (5) 20-in. shelves, evenly distributed vertically

Fan Wiring Offtime Defrost

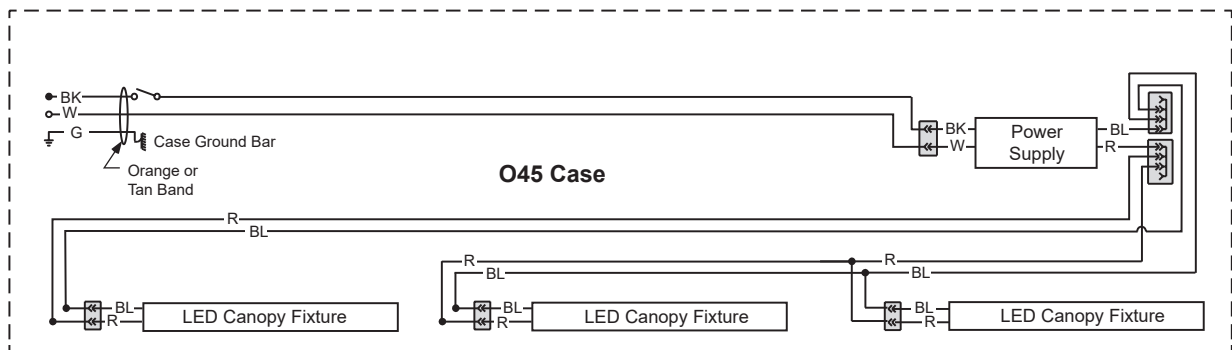
Insight ID5SMO45

Dairy / Deli /
Beverage / Produce / Meat




LED Canopy Light Circuits

EcoShine II LED Canopy Lighting — 1 Row



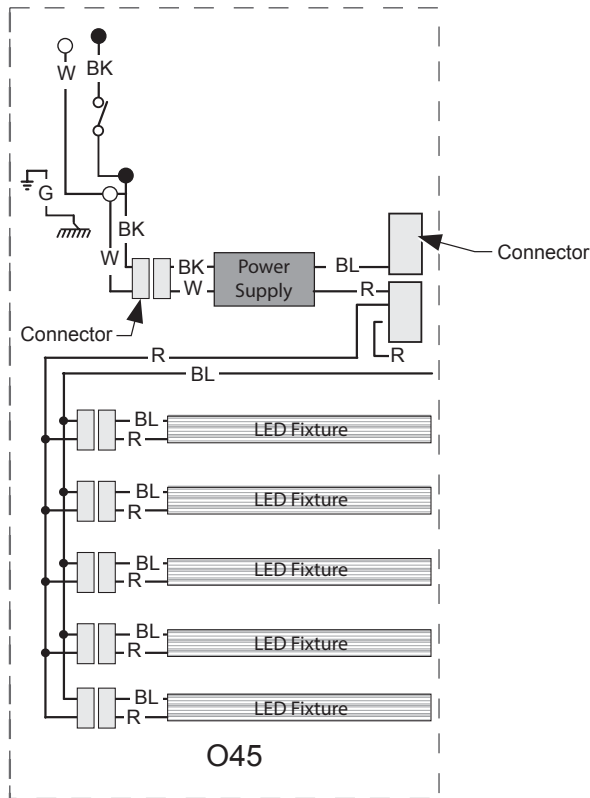
WARNING

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

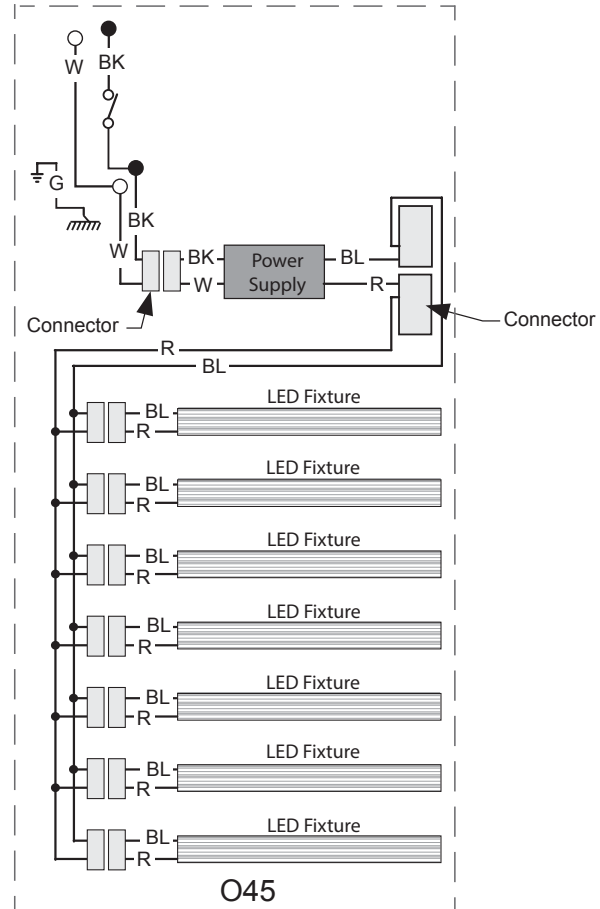
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
 ● = 120V POWER ○ = 120V NEUTRAL ⚡ = FIELD GROUND  = CASE GROUND

Optional Shelf Harness and LED Light Circuits

For 4 or 5 Rows of Shelves



For 6 or 7 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 ○ = 120V NEUTRAL ⊥ = FIELD GROUND mmm = 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/case. Add 10 BTU/HR/FT for each row of LED shelf lights.

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 5. The store legend specifies fans on a 230V circuit. In this instance, fans use 0.39 Amps and the MCA is 0.59. 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 canopy lighting [standard or optional] (here 0.16 for standard), and shelf lighting [maximum for which case is wired] (0.21 for EcoShine II for 5 rows of shelves); then add together $[0.16 + 0.21 = 0.37 \text{ amps for } 120\text{V}]$ (for 230V, multiply $0.37 * 0.52 = 0.19$).

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: December 2017: Original Issue

Revision B: August 2018: Updated cover image, cross section and plan view. Other changes marked with a bar, circle or underline.

Revision C: October 2019: Updated Refrigeration Data, removed Replacement Parts page.