

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.

| Item                                  | Part #                 | Description                                  | Wiring Item # | Item                      | Part #                            | Description | Wiring Item # |
|---------------------------------------|------------------------|--|---------------|---------------------------|-----------------------------------|-------------|---------------|
| <b>FAN ASSEMBLIES AND THERMOSTATS</b> |                        |  |               | <b>HEATERS</b>            |                                   |             |               |
| A.                                    | <u>6W Fan Assembly</u> |  | (1)           | D.                        | Canopy Anti-Sweat Heater          |             | (4)           |
|                                       | 0058698                | Fan Motor, Evaporator                        |               |                           | NA                                | 4 ft        |               |
|                                       | 0142780                | Fan Blade embossing toward motor             |               |                           | 0109417                           | 6 ft        |               |
|                                       |                        |  |               |                           | 0109417                           | 8 ft        |               |
|                                       |                        |  |               |                           | 0109418                           | 12 ft       |               |
| B.                                    | 0311588                | Standard Non-adjustable Defrost Thermostat   | (2)           | <b>LAMPS AND BALLASTS</b> |                                   |             |               |
| C.                                    | 0137880                | Optional Adjustable Refrigeration Thermostat | (3)           | E.                        | Ballast, Electronic               |             | (5)           |
|                                       |                        |  |               |                           | 0376409                           | 2 lamps     |               |
|                                       |                        |  |               |                           | 0376410                           | 3 lamps     |               |
|                                       |                        |  |               | F.                        | Fluorescent Lamp                  |             | (6)           |
|                                       |                        |  |               |                           | <i>Replace with like fixtures</i> |             |               |

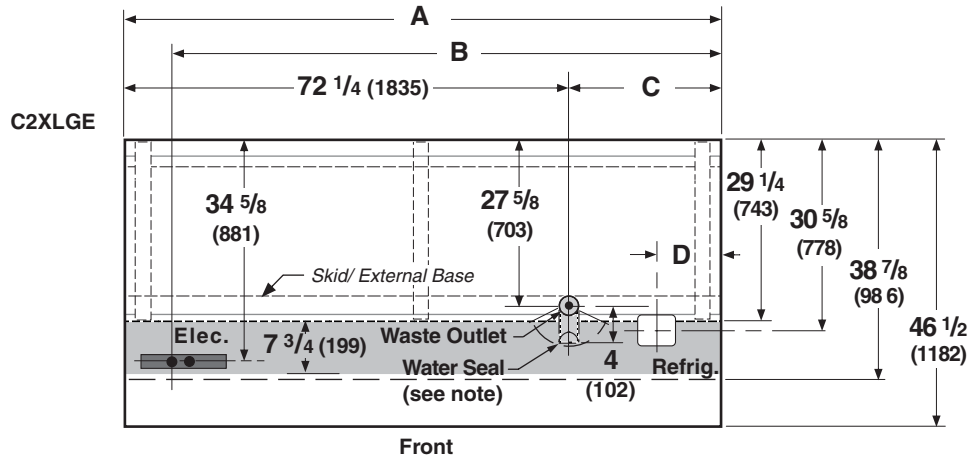
**Note: Changed items have been underlined.**  
**Revision C corrects statistical data on Page 3.**

# Engineering Plan Views

Dimensions shown as inches and (mm).

## Dairy / Delicatessen Precut & Packaged Produce

11-2003

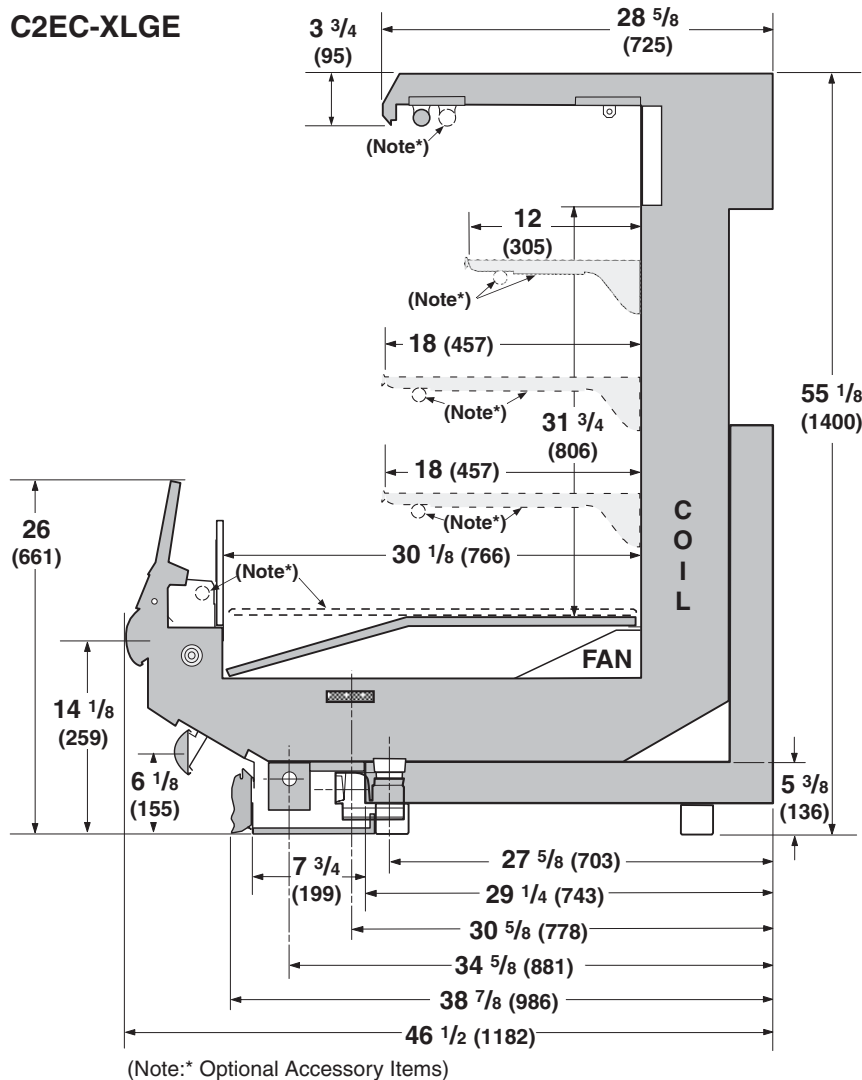


|  | 4 ft          | 6 ft          | 8 ft          | 12 ft          |
|--|---------------|---------------|---------------|----------------|
| <b>General</b>   |               |               |               |                |
| (A) Case Length <i>(without ends or partitions)</i><br><i>(Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)</i> | 48 1/4 (1226) | 72 3/8 (1838) | 96 3/8 (2448) | 144 1/2 (3670) |
| Maximum O/S dimension of case  |               |               |               |                |
| back to front <i>(includes bumper)</i>   | 46 1/2 (1182) | 46 1/2 (1182) | 46 1/2 (1182) | 46 1/2 (1182)  |
| Back of case to front of splashguard   | 38 7/8 (986)  | 38 7/8 (986)  | 38 7/8 (986)  | 38 7/8 (986)   |
| Back of case to O/S edge of front skid rail  | 29 1/4 (743)  | 29 1/4 (743)  | 29 1/4 (743)  | 29 1/4 (743)   |
| Width of skid rail   | 4 1/2 (114)   | 4 1/2 (114)   | 4 1/2 (114)   | 4 1/2 (114)    |
| RH end of case to outside edge of external support   | 5 1/2 (140)   | 5 1/2 (140)   | 5 1/2 (140)   | 5 1/2 (140)    |
| Distance between edges of external and center supports   | NA            | 31 1/8 (790)  | 40 5/8 (1032) | 40 5/8 (1032)  |
| Distance between edges of center supports  | 41 1/4 (1048) | NA            | NA            | 44 (1118)      |
| Stub-up area between front skid rail and splashguard   | 7 3/4 (199)   | 7 3/4 (199)   | 7 3/4 (199)   | 7 3/4 (199)    |
| <b>Electrical Service</b> <i>(Electrical Field Wiring connection point)</i>  |               |               |               |                |
| (B) RH End of case to center of farthest knockout  | 38 1/4 (972)  | 64 3/8 (1635) | 88 3/8 (2245) | 136 1/2 (3467) |
| Back O/S of case to center of knockout   | 34 5/8 (881)  | 34 5/8 (881)  | 34 5/8 (881)  | 34 5/8 (881)   |
| Length of electrical raceway   | 16 1/8 (410)  | 34 1/2 (876)  | 35 5/8 (903)  | 35 5/8 (903)   |
| <b>Waste Outlet</b>  |               |               |               |                |
| (C) 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)  |
| LH End of case to the center of waste outlet   | 24 1/8 (613)  | 48 1/4 (1226) | 72 1/4 (1835) | 72 1/4 (1835)  |
| <b>Water Seal</b>  |               |               |               |                |
| Edge of water seal to center of waste outlet   | 4 (102)       | 4 (102)       | 4 (102)       | 4 (102)        |
| Outside diameter of the drip pipe  | 1 1/2 (38)    | 1 1/2 (38)    | 1 1/2 (38)    | 1 1/2 (38)     |
| <i>Note: Water seal outlet must clear front skid rail.</i>   |               |               |               |                |
| <b>Refrigeration Outlet</b>  |               |               |               |                |
| Back of case to center of refrigeration outlet   | 30 5/8 (778)  | 30 5/8 (778)  | 30 5/8 (778)  | 30 5/8 (778)   |
| (D) RH end of case to center of refrigeration outlet   | 9 (230)       | 9 (230)       | 9 (230)       | 9 (230)        |

Multi-deck, Extended Canopy, 4 Display Levels

Dimensions shown as inches and (mm).

**C2EC-XLGE**



**NSF Certification**

These merchandisers are manufactured to meet ANSI /National Sanitation Foundation (NSF®) Standard #7 requirements.

**Impact C2EC-XLGE Dairy / Delicatessen Precut & Packaged Produce**

**REFRIGERATION DATA**

Note: This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H.

|                    | <b>C2EC-XLGE</b> |
|--------------------|------------------|
| Discharge Air (°F) | 29               |
| Evaporator (°F)    | 21               |
| Unit Sizing (°F)   | 19               |

| <i>Btu/hr/ft*</i> | <b>C2EC-XLGE</b> |
|-------------------|------------------|
| Parallel          | 1080             |
| Conventional      | 1155             |

\*For all refrigeration equipment other than Hussmann, use conventional Btu values.

**DEFROST DATA**

|                           | <b>C2EC-XLGE</b> |
|---------------------------|------------------|
| Frequency (hr)            | 6                |
| Defrost Water (lb/ft/day) | 7                |

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

| <i>OFFTIME</i>     | <b>C2EC-XLGE</b> |
|--------------------|------------------|
| Temp Term (°F)     | 48°F             |
| Failsafe (minutes) | 30               |

*ELECTRIC OR GAS* Not Recommended

**Standard Defrost Thermostat**

Close on rise: close 48°F — open 33°F

**CONVENTIONAL CONTROLS**

| <b>Low Pressure Backup Control</b> | <b>C2EC-XLGE</b> |
|------------------------------------|------------------|
| C/CO**                             | 17°F/7°F         |

**Indoor Unit Only, Pressure Defrost Termination\*\***

|               |      |
|---------------|------|
| Termination** | 48°F |
|---------------|------|

\*\*Use a Temperature Pressure Chart to determine PSIG conversions.

**PHYSICAL DATA**

|                                 |       |
|---------------------------------|-------|
| Merchandiser Drip Pipe (in.)    | 1 1/2 |
| Merchandiser Liquid Line (in.)  | 3/8   |
| Merchandiser Suction Line (in.) | 7/8   |

**Estimated Charge (lb)\*\*\***

|       |     |
|-------|-----|
| 4 ft  | 1.3 |
| 6 ft  | 1.8 |
| 8 ft  | 2.3 |
| 12 ft | 3.3 |

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

|  |
|--|
| <b>Impact C2EC-XLGE</b><br><b>Dairy / Delicatessen</b><br><b>Precut &amp; Packaged Produce</b> |
|--|

**Electrical Data**

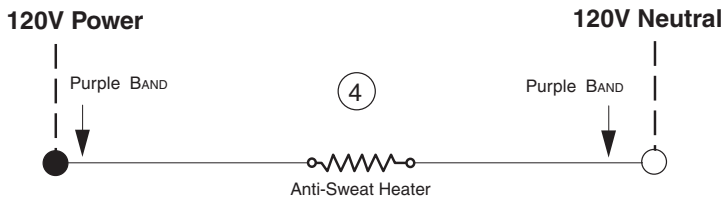
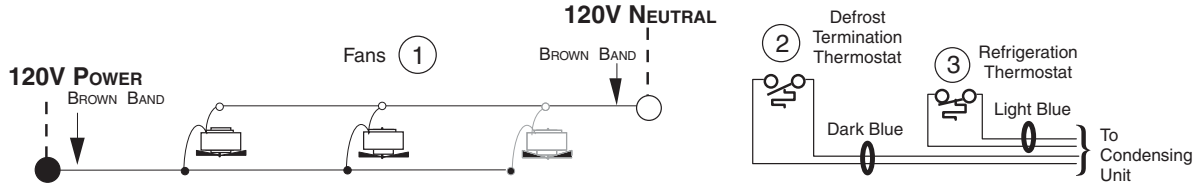
|   |      |                  | <b>4 ft</b>    | <b>6 ft</b> | <b>8 ft</b> | <b>12 ft</b> |              |             |             |              |
|---|------|------------------|----------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| <b>Number of Fans</b>                       |      |                  | <b>1</b>       | <b>2</b>    | <b>2</b>    | <b>3</b>     |              |             |             |              |
|   |      |                  | <b>Amperes</b> |             |             |              | <b>Watts</b> |             |             |              |
|   |      |                  | <b>4 ft</b>    | <b>6 ft</b> | <b>8 ft</b> | <b>12 ft</b> | <b>4 ft</b>  | <b>6 ft</b> | <b>8 ft</b> | <b>12 ft</b> |
| <b>Evaporator Fan</b>                       |      |                  |                |             |             |              |              |             |             |              |
| 120V  | 60Hz | Standard         | 0.51           | 1.00        | 1.00        | 1.50         | 38           | 78          | 78          | 117          |
| 120V  | 50Hz | Standard         | 0.55           | 1.10        | 1.10        | 1.65         | 42           | 84          | 84          | 126          |
| 230V  | 60Hz | Export           | 0.25           | 0.50        | 0.50        | 0.75         | 40           | 80          | 80          | 120          |
| 230V  | 50Hz | Export           | 0.28           | 0.56        | 0.56        | 0.84         | 44           | 88          | 88          | 132          |
| 120V  | 60Hz | Energy Efficient | 0.26           | 0.52        | 0.52        | 0.78         | 18           | 36          | 36          | 54           |
| 230V  | 60Hz | Energy Efficient | NA             |             |             |              |              |             |             |              |
| <b>Canopy Anti-sweat Heaters</b>            |      |                  | NA             | 0.75        | 0.75        | 1.00         | 45           | 90          | 90          | 120          |
| <b>Minimum Circuit Ampacity</b>             |      |                  |                |             |             |              |              |             |             |              |
| 120V  | 60Hz | Standard         | 0.71           | 1.95        | 1.95        | 2.70         |              |             |             |              |
| 120V  | 50Hz | Standard         | 0.75           | 2.05        | 2.05        | 2.85         |              |             |             |              |
| 230V  | 60Hz | Export           | 0.45           | 1.45        | 1.45        | 1.95         |              |             |             |              |
| 230V  | 50Hz | Export           | 0.48           | 1.51        | 1.51        | 2.04         |              |             |             |              |
| 120V  | 60Hz | Energy Efficient | 0.46           | 1.47        | 1.47        | 1.98         |              |             |             |              |
| 230V  | 60Hz | Energy Efficient | NA             |             |             |              |              |             |             |              |
| <b>Maximum Over Current Protection 120V</b> |      |                  | <b>20</b>      | <b>20</b>   | <b>20</b>   | <b>20</b>    |              |             |             |              |
| <b>Maximum Over Current Protection 230V</b> |      |                  | 15             | 15          | 15          | 15           |              |             |             |              |
| <b>Standard Lighting</b>                    |      |                  |                |             |             |              |              |             |             |              |
| 1 Row Canopy                                |      |                  | 0.26           | 0.51        | 0.51        | 0.77         | 30           | 59          | 59          | 85           |
| <b>Optional Lighting</b>                    |      |                  |                |             |             |              |              |             |             |              |
| Additional 1 Row Canopy                     |      |                  | 0.26           | 0.51        | 0.51        | 0.77         | 30           | 59          | 59          | 85           |
| Additional 2 Row Canopy                     |      |                  | 0.51           | 1.02        | 1.02        | 1.54         | 59           | 118         | 118         | 170          |
| 1 Row Rail Light                            |      |                  | 0.26           | 0.51        | 0.51        | 0.77         | 30           | 59          | 59          | 85           |
| 1 Row Ledge Light                           |      |                  | 0.26           | 0.51        | 0.51        | 0.77         | 30           | 59          | 59          | 85           |
| <b>Optional Shelf Lighting</b>              |      |                  |                |             |             |              |              |             |             |              |
| 1 Row Shelf Receptacle                      |      |                  | 0.26           | 0.51        | 0.51        | 0.77         | 30           | 59          | 59          | 85           |
| 2 Row Shelf Receptacle                      |      |                  | 0.51           | 1.02        | 1.02        | 1.53         | 59           | 118         | 118         | 177          |

115V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting  
 230V Lighting Circuit Total = Multiply 115V Lighting Circuit Total by 0.52

## 1, 2 & 3 Fans

- 4 ft — 1 Fan
- 6 ft — 2 Fans
- 8 ft — 2 Fans
- 12 ft — 3 Fans

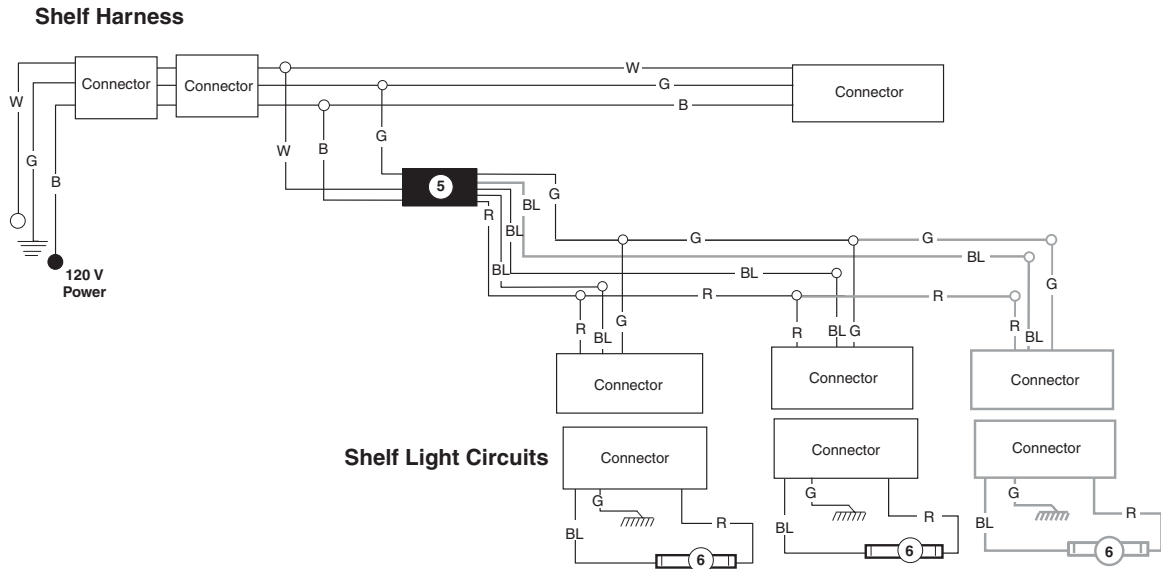
## Fan Wiring Offtime Defrost



## Canopy Anti-Sweat Heater

## Optional Shelf Harness and Light Circuits for One Row of Shelves

## Shelf Lighting



### WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

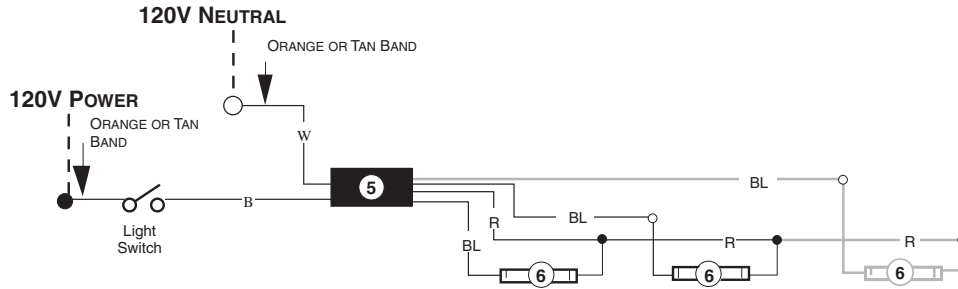
Grayed components in 12 foot models only.

R = Red Y = Yellow G = Green BL = Blue B = Black W = White

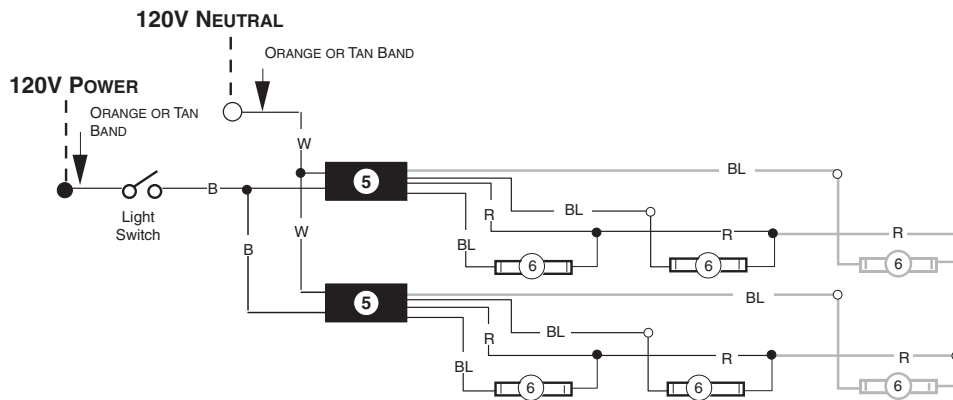
● = 120V POWER    ○ = 120V NEUTRAL    ≡ = Field GROUND    ≡ = Case GROUND

# Light Circuits

## Standard Lighting 1 Row Canopy or Optional 1 Row Rail



## Optional Lighting 2 Rows Canopy



### WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

Grayed components in 12 foot models only.

R = Red Y = Yellow G = Green BL = Blue B = Black W = White

● = 120V POWER ○ = 120V NEUTRAL

**SHELF CONFIGURATION**

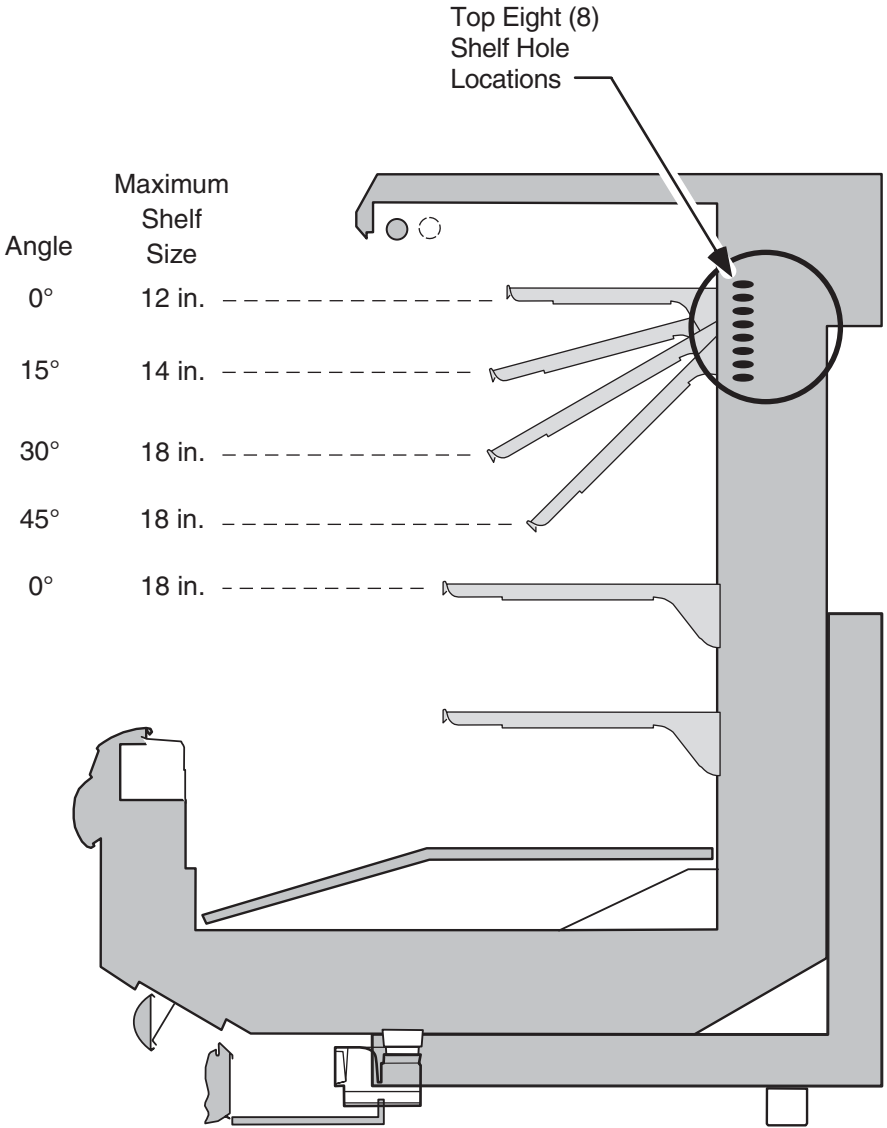
This merchandiser is designed for one, two or three shelves.

The depth of the shelf used in the top eight (8) shelf hole locations is critical to case performance.

If a shelf is placed in one of the top eight (8) locations, it must comply with the angle/depth requirements listed below.

| <b>Shelf Angle</b> | <b>Maximum Shelf Depth</b> |
|--------------------|----------------------------|
| 0°                 | 12 in.                     |
| 15°                | 14 in. or less             |
| 30°                | 18 in. or less             |
| 45°                | 18 in. or less             |

**NOTE:** Shelves placed in the lower positions may be up to 18 in. deep when positioned at a 0° angle.



**Impact C2EC-XLGE**  
**Dairy / Delicatessen**  
**Precut & Packaged Produce**

**CANOPY AND SHELF LAMP BALLAST**

The ballast for the canopy and shelf lamps is located behind the canopy on the left-hand end (when facing case) of the merchandiser.

To access the ballast:

1. Remove screws at bottom edge of canopy and rear of top panel.
2. Remove the canopy by pulling it forward.
3. Remove the top panel by lifting it up.
4. Service or replace ballasts as required.
5. Reassemble items as they were originally installed.

**NOTE:** Rail lamp ballast is located behind the lower front panel.

**CANOPY ANTI-SWEAT HEATER**

The canopy anti-sweat heater location is shown below. Connections are in the electrical wireway.

