

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 # |
|---------------------------------------|---------|--|---------------|
| <b>FAN ASSEMBLIES AND THERMOSTATS</b> |         |  |               |
| (A)                                   | 0477656 | Standard Energy Efficient Fan Motor, Evaporator (MO.4410547) | (1)           |
|                                       | 0142780 | Fan Blade<br>Embossing toward motor (FB.0142780)             |               |

Data sheet-Excel-PWR-E

**Note:** Revision D: Added high glide refrigerant note. Other changes marked by bar, underline or circle.

# Engineering Plan Views

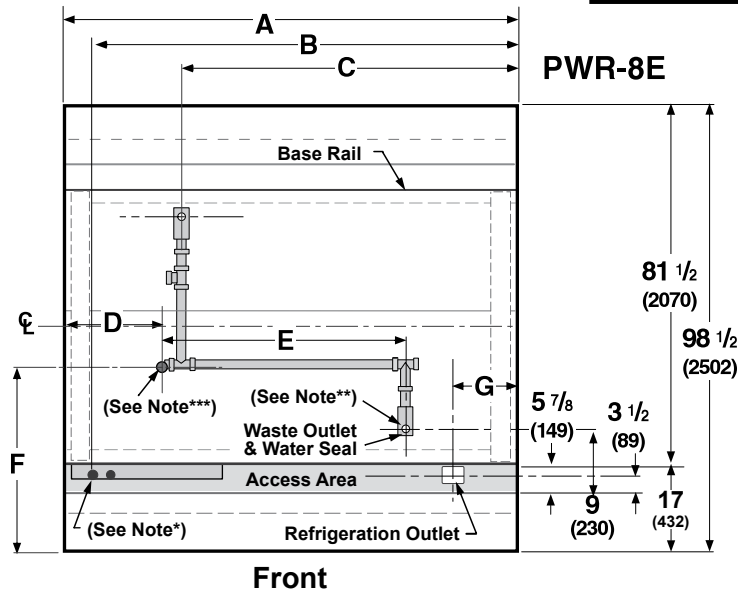
Dimensions are shown as inches & (mm).

## PHYSICAL DATA

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

### 98 Inch Wide Island Bulk Produce

11-2010



| General  | 8 Ft                          | 12 Ft                          |
|--|-------------------------------|--------------------------------|
| <b>(A)</b> Case length<br><i>Each End and Partition adds 1 1/2 in. (38 mm) to the length of the lineup.</i><br>Maximum outside dimension of case back to front (includes bumper) | 96 3/8 (2448)                 | 144 1/2 (3670)                 |
| Front of splashguard to outside edge of base rail  | 5 7/8 (149)                   | 5 7/8 (149)                    |
| Back of case to outside edge of front base rail  | 81 1/2 (2070)                 | 81 1/2 (2070)                  |
| Front of case to outside edge of front base rail   | 17 (432)                      | 17 (432)                       |
| Width of base rail   | 2 1/8 (54)                    | 2 1/8 (54)                     |
| Stub up area between front base rail and splashguard   | 4 7/8 (124)                   | 4 7/8 (124)                    |
| <b>Electrical Service</b>  |                               |                                |
| <b>(B)</b> Right end of case to center of farthest knockout<br>Length of electrical raceway<br><i>*Note: Electrical field wiring connection point.</i>                           | 95 3/8 (2423)<br>34 5/8 (878) | 143 1/2 (3645)<br>34 5/8 (878) |
| <b>Waste Outlet</b>  |                               |                                |
| <b>(C)</b> Right end of case to center of waste outlet   | 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)                        |
| Center of waste outlet to outside edge of front base rail<br><i>** Note: Field installed water seal outlets, tees, and connectors are shipped with case</i>                      | 3 1/2 (89)                    | 3 1/2 (89)                     |
| <b>Drip Pipe Outlet</b>  |                               |                                |
| <b>(D)</b> Left end of case to center of drip pipe outlet  | 19 1/2 (495)                  | 68 1/2 (1740)                  |
| <b>(E)</b> Center of waste outlet to center of drip pipe outlet  | 51 7/8 (1318)                 | 3 3/4 (95)                     |
| <b>(F)</b> Front of case to center of drip pipe outlet<br>Outside diameter of drip pipe lines<br><i>***Note: Field drip pipe connection point.</i>                               | 25 7/8 (657)<br>1 1/2 (38)    | 24 7/8 (632)<br>1 1/2 (38)     |
| <b>Refrigeration Outlet</b>  |                               |                                |
| <b>(G)</b> Right end of case to center of refrigeration outlet<br>Center of refrigeration outlet to outside edge of front base rail  | 9 (230)<br>3 1/2 (89)         | 9 (230)<br>3 1/2 (89)          |



Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.



**REFRIGERATION DATA**

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

|  |                    |
|--|--------------------|
|  | <b>PWR-8, 12E§</b> |
| <b>Discharge Air (°F)</b>  | 34                 |
| <b>Evaporator (°F)</b>   | 24                 |
| <b>Unit Sizing (°F)</b>  | 22                 |
| § 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. |                    |
| <b>Btu/hr/ft</b>   | <b>PWR-8, 12E</b>  |
| <b>Parallel</b>  | 1255               |
| <b>Conventional</b>  | 1385               |

**DEFROST DATA**

|  |                   |
|--|-------------------|
|  | <b>PWR-8, 12E</b> |
| <b>Frequency (hr)</b>                                    | 6                 |
| <b>Defrost Water (lb/ft/day)</b>                         | 8                 |
| (± 15% based on case configuration and product loading). |                   |
| <b>OFFTIME</b>   | <b>PWR-8, 12E</b> |
| <b>Temp Term (°F)</b>                                    | N/A               |
| <b>Failsafe (minutes)</b>                                | 45                |
| <b>Standard Defrost Thermostat</b>                       | N/A               |

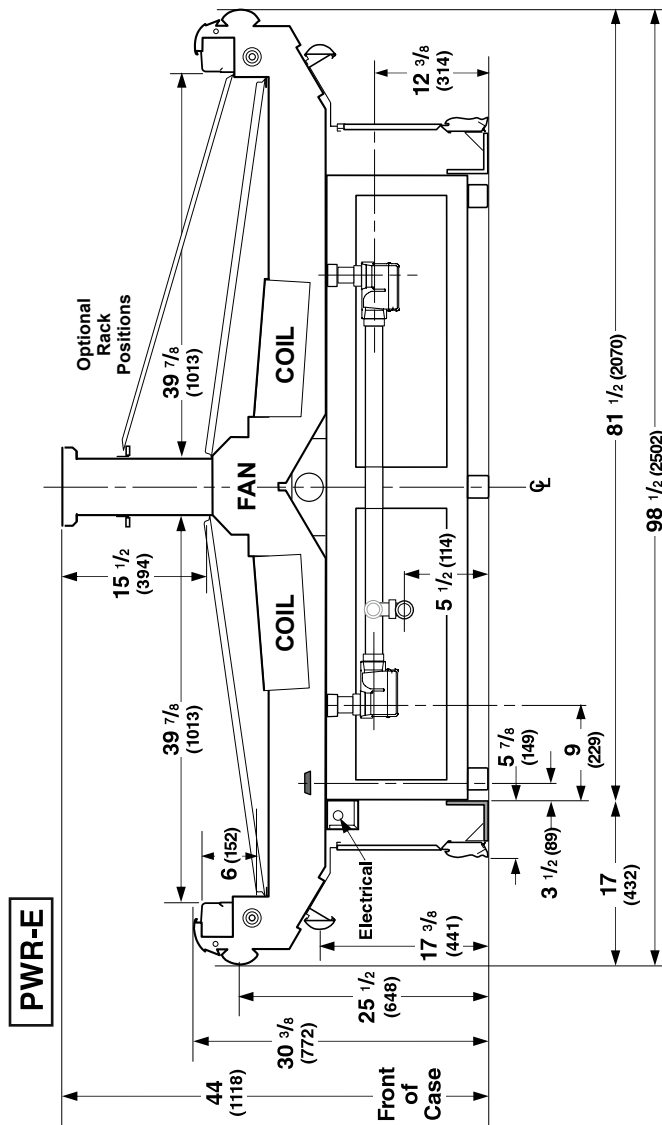
**CONVENTIONAL CONTROLS**

|                                    |                   |
|------------------------------------|-------------------|
| <b>Low Pressure Backup Control</b> | <b>PWR-8, 12E</b> |
| <b>CI/CO*</b>                      | 17°/7° F          |

**Indoor Unit Only, Pressure Defrost Termination\*\* 48° F**

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

Dimensions are shown as inches & (mm).



**PHYSICAL DATA**

|                                |                   |       |        |
|--------------------------------|-------------------|-------|--------|
| <b>Estimated Charge (lb)**</b> | <b>PWR-8, 12E</b> |       |        |
| <b>8 ft</b>                    | 2.8 lb            | 45 oz | 1.3 kg |
| <b>12 ft</b>                   | 4.3 lb            | 69 oz | 2.0 kg |

\*\*\*This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately 0.5 lb (8 oz / 0.2 kg).

**NSF Certification**

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

### Electrical Data

|                                     |             |              |
|-------------------------------------|-------------|--------------|
| <b>Number of Fans</b>               | <b>8 ft</b> | <b>12 ft</b> |
| <b>Refrigeration — 13W</b>          | <b>2</b>    | <b>3</b>     |
| <b>Refrigeration — 13W (Export)</b> | <b>2</b>    | <b>3</b>     |

| <b>Merchandise</b>           | <b>Amperes</b> |              | <b>Watts</b> |              |
|------------------------------|----------------|--------------|--------------|--------------|
|                              | <b>8 ft</b>    | <b>12 ft</b> | <b>8 ft</b>  | <b>12 ft</b> |
| <b>Fans (Refrigeration)</b>  |                |              |              |              |
| Energy Efficient (120V 60Hz) | 0.66           | 0.99         | 40           | 60           |
| Export (230V 50 Hz)          | 0.94           | 1.41         | 140          | 210          |

|  |      |      |
|--|------|------|
| <b>Minimum Circuit Ampacity</b>        |      |      |
| With Energy Efficient Fans (120V 60Hz) | 0.86 | 1.19 |
| With Export Fans (230V 50 Hz)          | 1.14 | 1.61 |

|   |    |    |
|---|----|----|
| <b>Maximum Over Current Protection 120V</b> | 20 | 20 |
| <b>Maximum Over Current Protection 230V</b> | 15 | 15 |

### Standard Lighting

None

### Optional Lighting

None

### Optional Shelf Lighting

None

**Product Data**

|  |   |
|--|---|
| <i>Recommended Usable Cube</i> <sup>1</sup> (Cu Ft/Ft) | 8.33 ft <sup>3</sup> /ft (0.77 m <sup>3</sup> /m) |
| <i>AHRI Total Display Area</i> <sup>2</sup> (Sq Ft/Ft) | 6.86 ft <sup>2</sup> /ft (2.09 m <sup>2</sup> /m) |
| <i>Shelf Area</i> <sup>3</sup> (Sq Ft/Ft)              | 7.17 ft <sup>2</sup> /ft (2.19 m <sup>2</sup> /m) |

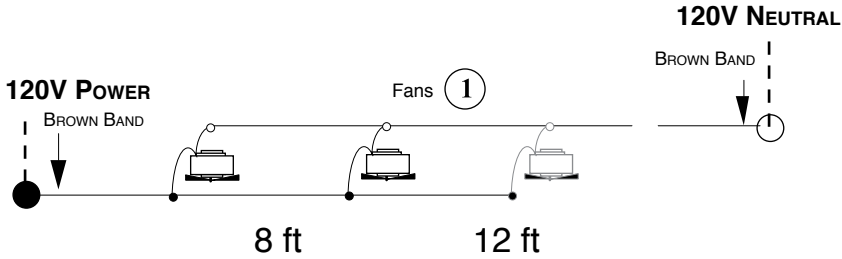
- <sup>1</sup> AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft<sup>3</sup>/ft [m<sup>3</sup>/m]
- <sup>2</sup> Computed using AHRI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]
- <sup>3</sup> Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is NONE.

| <b>ESTIMATED SHIPPING WEIGHT</b> <sup>4</sup> |            |            |          |
|---|------------|------------|----------|
| Case  | 8 ft       | 12 ft      | Flat End |
|   |            |            | (each)   |
| <b>lb (kg)</b>                                | 1000 (454) | 1200 (544) | 80 (36)  |

<sup>4</sup> Actual weights will vary according to optional kits included.

**Fan Wiring  
Offtime Defrost**

**1, 2 & 3 Fans**



**WARNING**

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

● = 120V POWER    ○ = 120V NEUTRAL