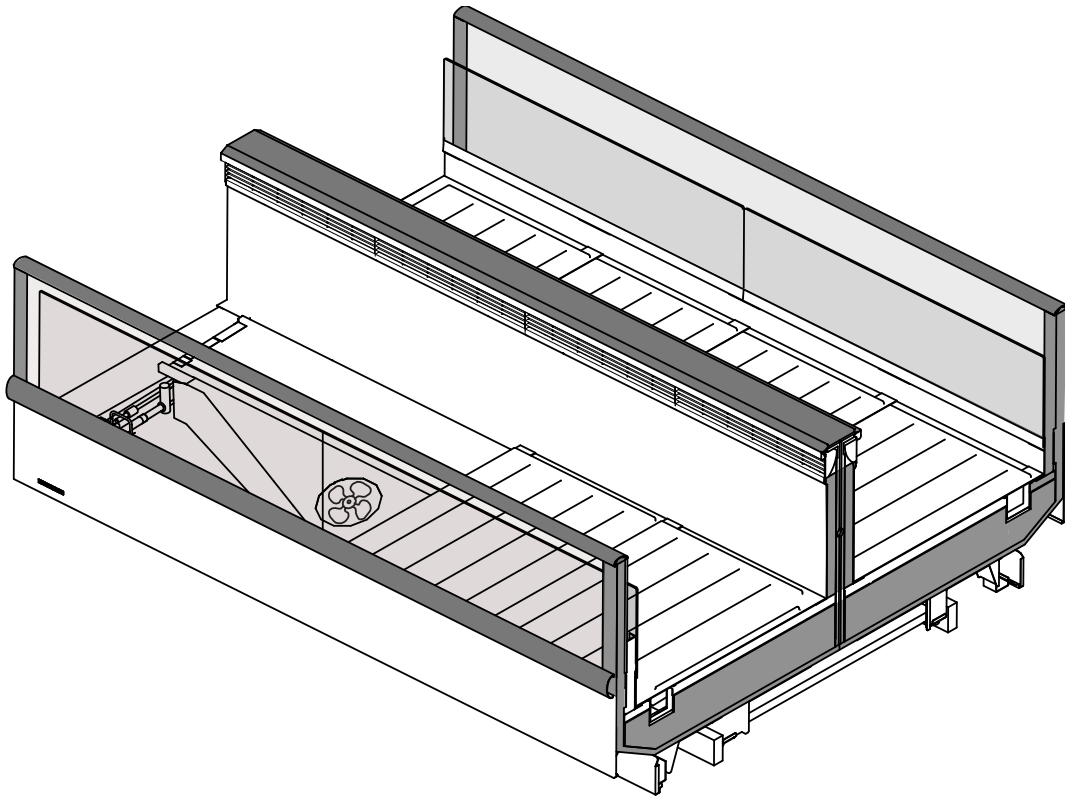


DOE 2017
Energy Efficiency
Compliant



Note: Portion of parts removed for clarity.

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 | Electrical Loads | Page 6 |
| Product Data (AHRI Statistics) | Page 2 | Replacement Parts List | Page 7 |
| Cross Section | Page 3 | Wiring Diagrams | Page 8 |
| Plan Views | Page 4 | Computing Refrigeration and Electrical Load | Page 10 |
| Estimated Shipping Weights | Page 5 | Revision History | Page 10 |

Data sheet-Excel FWGH

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.

Excel FWGH

Frozen

Refrigeration Data ¹

| | 8 Ft Case | | | AHRI 1200 Rating Point ² |
|-------------------------|------------|--------------|--------------|--|
| | MED | FF | IC | |
| Discharge Air °F (°C) | 24 (-4.44) | -12 (-24.44) | -22 (-30.00) | -15 (-26.11) |
| Evaporator °F (°C) | 19 (-7.22) | -20 (-28.88) | -30 (-34.44) | -24 (-31.11) |
| Unit Sizing °F (°C) | 17 (-8.33) | -23 (-30.55) | -33 (-36.11) | -27 (-32.77) |
| Btu/hr per ft (Watts/m) | | | | |
| Parallel | 500 (481) | 675 (649) | 755 (726) | 700 (673) |
| Conventional | 520 (500) | 705 (678) | 785 (755) | 730 (702) |

| | 6 Ft & 12 Ft Case | | | AHRI 1200 Rating Point ² |
|-------------------------|-------------------|--------------|--------------|--|
| | MED | FF | IC | |
| Discharge Air °F (°C) | 24 (-4.44) | -12 (-24.44) | -22 (-30.00) | -15 (-26.11) |
| Evaporator °F (°C) | 19 (-7.22) | -20 (-28.88) | -30 (-34.44) | -24 (-31.11) |
| Unit Sizing °F (°C) | 17 (-8.33) | -23 (-30.55) | -33 (-36.11) | -27 (-32.77) |
| Btu/hr per ft (Watts/m) | | | | |
| Parallel | 465 (447) | 670 (620) | 720 (693) | 670 (645) |
| Conventional | 485 (467) | 695 (645) | 750 (722) | 695 (669) |

Notes:

- All data based on store temperature and humidity that does not exceed 75 deg F and 55% relative humidity.
- For energy consumption comparison only.
- Dual temperature operation kits are not suitable for ice cream temperature applications.
- 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.

Defrost Data

Frequency (hours between defrost) 24
Defrost Water 2.2 lb/ft/day (3.3 kg/m)
 (± 15% based on case configuration and product loading).

OFFTIME **FWGH**
Time (minutes) Not Recommended

ELECTRIC
 Temp Term (°F) 48
 Failsafe (minutes) 60

GAS
Time (minutes)
 FF 15
 IC 18

Conventional Controls

FWGH
Low Pressure Backup Control CI/CO ⁵
 FF -17°F / -29°F
 -27.2°C / -33.8°C
 IC -27°F / -39°F
 -32.7°C / -39.4°C

Indoor Unit Only, Pressure Defrost Termination ⁵
 Not Recommended

⁵ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ⁶ FWGH

| | | | |
|--------------|--------|-------|--------|
| 6 ft | 1.9 lb | 29 oz | .9 kg |
| 8 ft | 2.5 lb | 40 oz | 1.1 kg |
| 12 ft | 3.7 lb | 59 oz | 1.7 kg |

⁶ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Recommended Usable Cube ⁷ (Cu Ft/Ft) 7.28 ft³/ft (0.68 m³/m)
AHRI Total Display Area ⁸ (Sq Ft/Ft) 6.97 ft²/ft (2.12 m²/m)
Shelf Area (Sq Ft/Ft) 5.50 ft²/ft (1.68 m²/m)

⁷ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

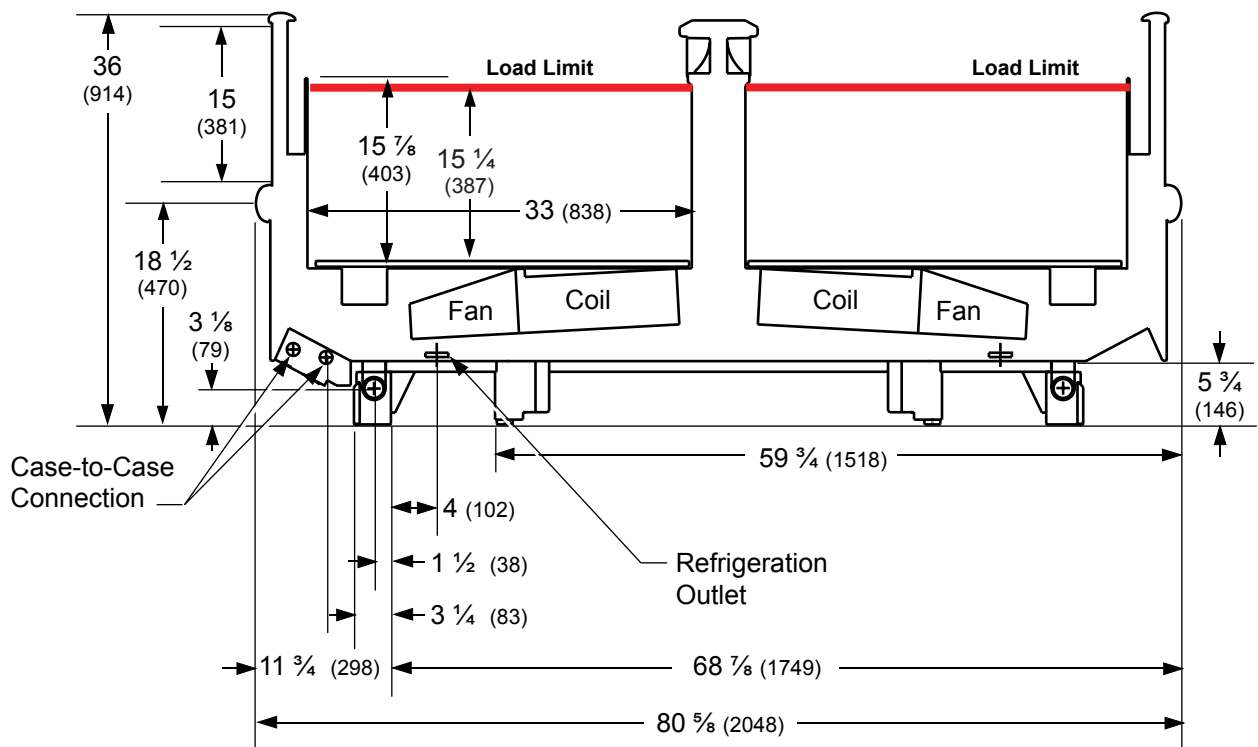
⁸ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]



Husmann 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).

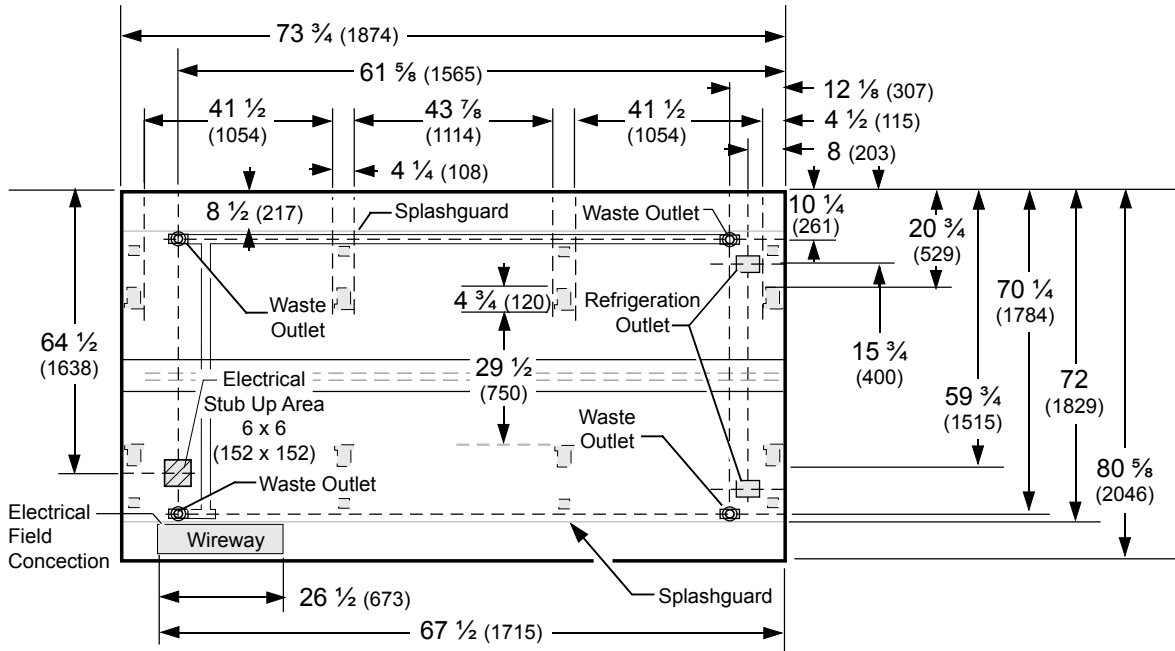
FWGH



NSF Certification

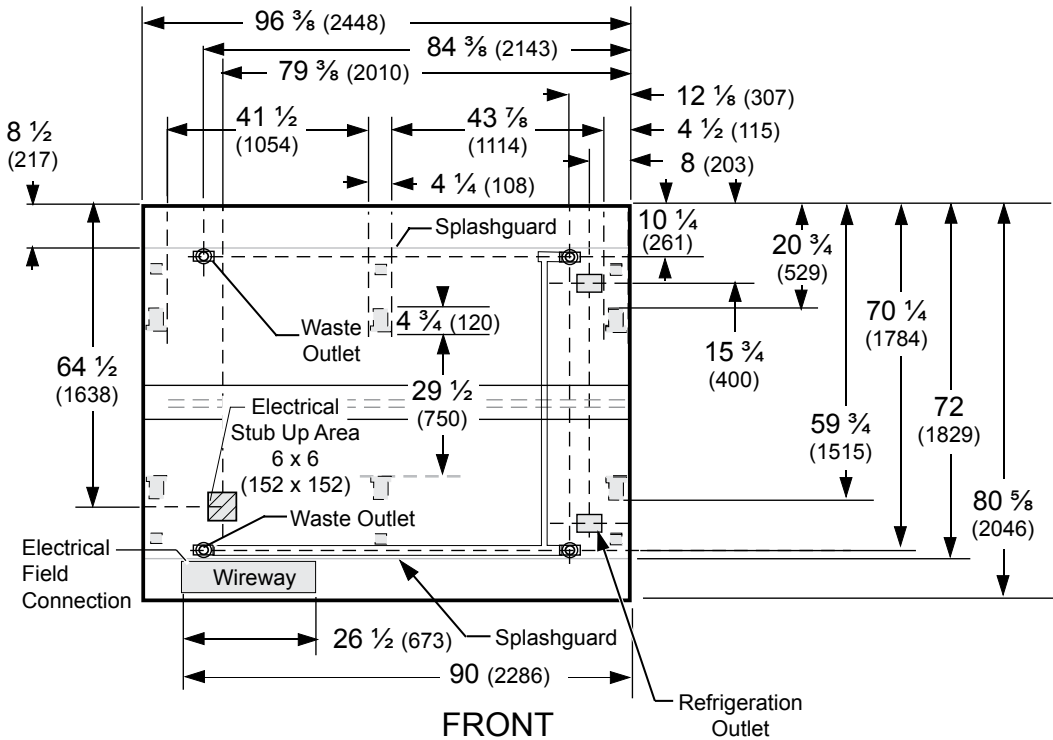
This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.

Plan Views



FRONT

6 Foot Model



FRONT

8 Foot Model

Electrical Data

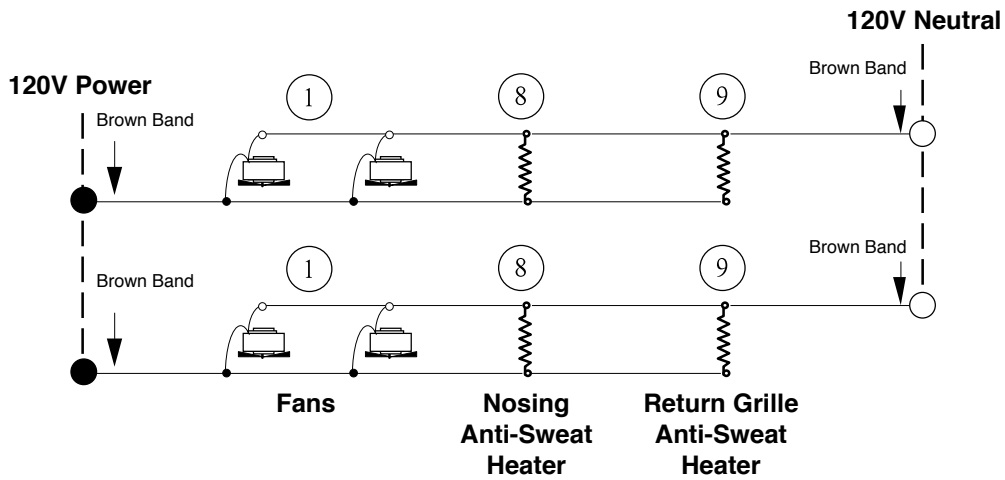
| | | | | | | |
|---|----------------|-------------|--------------|--------------|-------------|--------------|
| Number of Fans | 6 ft | 8 ft | 12 ft | | | |
| 4W Evaporator | 4 | 4 | 4 | | | |
| | Amperes | | | Watts | | |
| Evaporator Fan | 6 ft | 8 ft | 12 ft | 6 ft | 8 ft | 12 ft |
| 120V 50/60Hz Energy Efficient | 0.24 | 0.48 | 0.48 | 16 | 32 | 32 |
| Anti-sweat Heaters (on fan circuit) | | | | | | |
| 120V 50/60Hz Standard | 1.3 | 4 | 5 | 156 | 480 | 600 |
| Minimum Circuit Ampacity | | | | | | |
| 120V 50/60Hz Standard Energy Efficient | 2.74 | 4.68 | 5.68 | | | |
| Maximum Over Current Protection 120V | 20 | 20 | 20 | | | |
| Return Glass Anti-sweat Heaters | | | | | | |
| 120V 50/60Hz Standard | 0.16 | 0.18 | 0.24 | 18 | 20 | 28 |
| 208V Electric Defrost | 13.1 | 15.38 | 23.07 | 2720 | 3200 | 4800 |
| 120V Koolgas Defrost | 2.7 | 3.33 | 6.66 | 320 | 400 | 800 |
| Standard Lighting | | | | | | |
| None | | | | | | |

Replacement Parts List

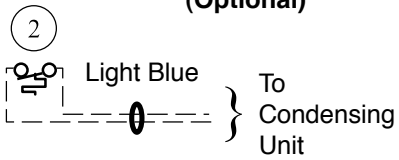
| Part # | Description | Part # | Description |
|---------------------------------|---|--|---------------------|
| FAN ASSEMBLIES | | HEATERS (CONT.) | |
| 4W Standard Fan Assembly | | 208V Evaporator Defrost Heaters | |
| 0477653 | Fan Motor/Evaporator | 0444057 | 6 ft case |
| 0546175 | Fan Blade (8 ft only) | 3016524 | 8 ft case |
| 0464847 | Fan Blade (6 & 12 ft only) | 3016527 | 12 ft case |
| THERMOSTATS | | 208V Drip Pan Defrost Heaters, Electric | |
| 0398557 | Defrost Termination Thermostat (Front/Electric Defrost only) | 0444300 | 6 ft case |
| 0398558 | Defrost Termination Thermostat (Rear/Electric Defrost only) | 0462160 | 8 ft case |
| | | 0444296 | 12 ft case |
| HEATERS | | 120V Drip Pan Defrost Heaters, Koolgas | |
| 0481370 | Heater Switch (Koolgas Defrost only) | 0465906 | 6 ft case |
| | | 0465907 | 8 ft case |
| | | 0465908 | 12 ft case |
| | | Nosing Anti-sweat Heaters | |
| | | 0495006 | 6 ft case |
| | | 0495007 | 8 ft case |
| | | 0495008 | 12 ft case |
| | | Return Grille Anti-sweat Heaters | |
| | | 0495010 | 6 ft case, Outside |
| | | 0545637 | 8 ft case, Inside |
| | | 0545574 | 8 ft case, Outside |
| | | 0545638 | 12 ft case, Inside |
| | | 0545575 | 12 ft case, Outside |
| | | Return Glass Anti-sweat Heaters | |
| | | 3020071 | 6 ft case |
| | | 0474785 | 8 ft case |
| | | 0474786 | 12 ft case |

Fan Wiring Electrical Defrost - Standard

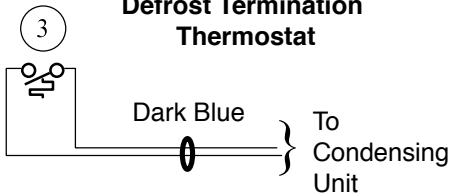
Excel **FWGH**
Frozen



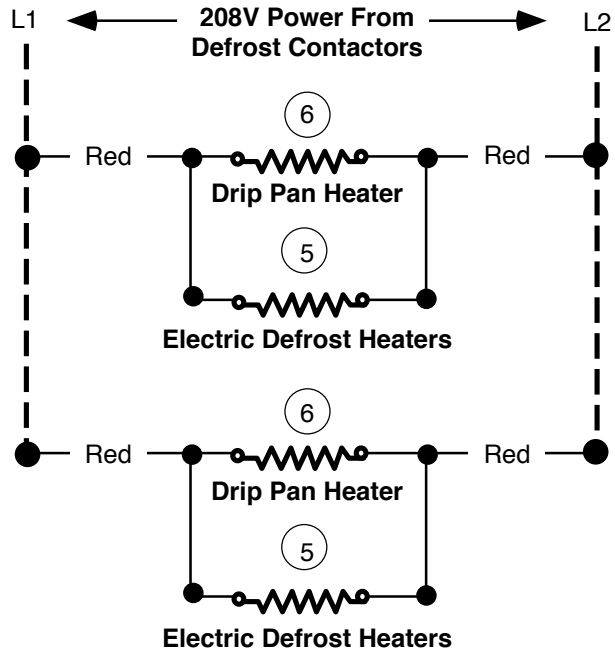
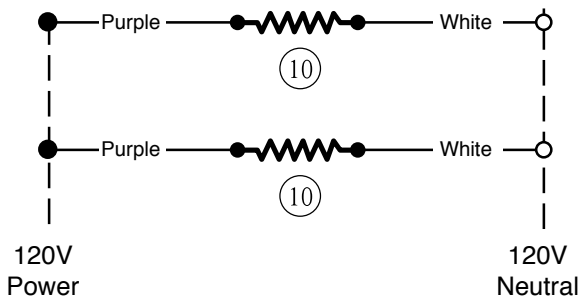
Refrigeration Thermostat (Optional)



Defrost Termination Thermostat



Return Glass Anti-Sweat Heater



WARNING

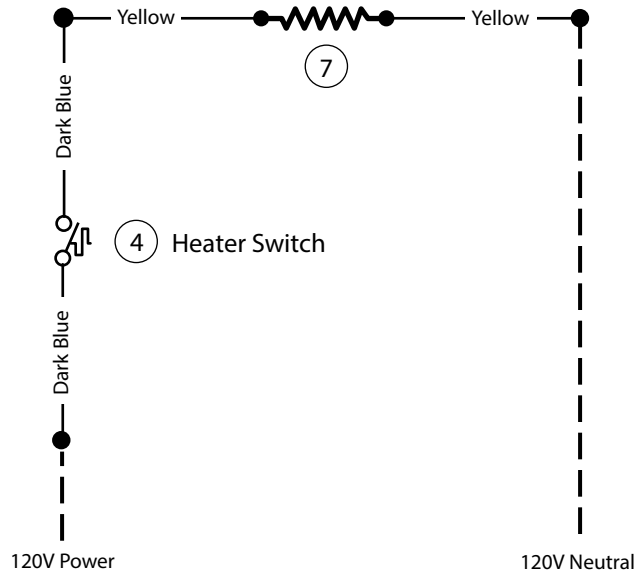
All components must have mechanical ground, and the merchandiser must be grounded.

Circled Number = Parts List Item Numbers

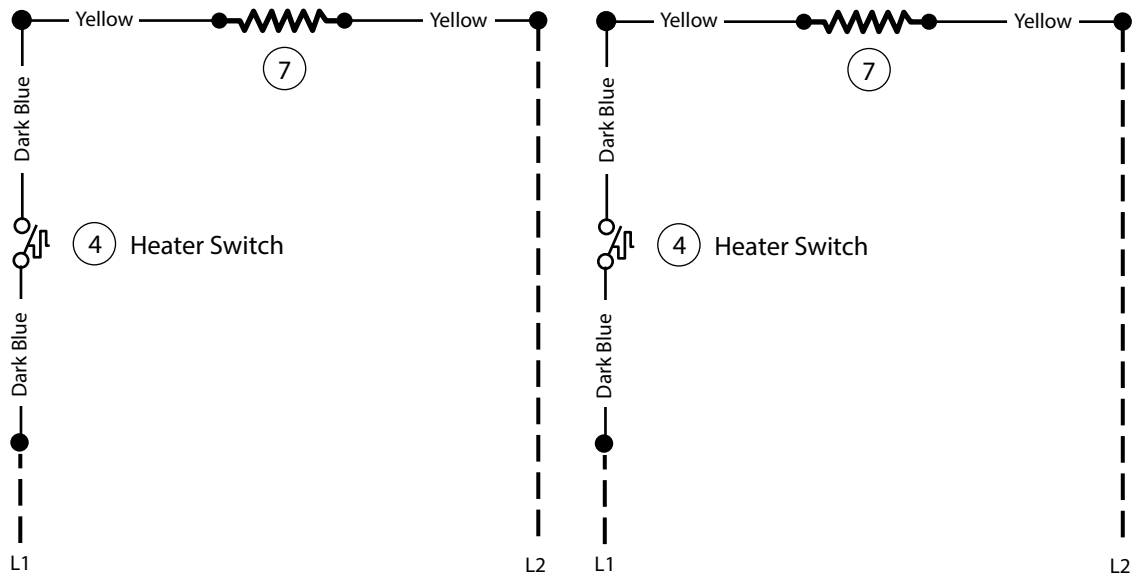
Excel FWGH
Frozen

Optional Gas Defrost

120V Drip Pan Heater — Koolgas Only



208V/230V Drip Pan Heater — Koolgas Only



WARNING

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

Circled Number = Parts List Item Numbers

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.

Line Sizing — Refer to store legend.

Hussmann Line Sizing Charts are engineered for use with Hussmann refrigeration equipment.

Revision History

Revision A: June 2014: Original Issue.

Revision B: August 2015: Added gas defrost data on page 2.

Revision C: January 2016: Updated fan assembly part numbers page 7.

Revision D: May 2016: Added note on page 2.

Revision E: March 2017: Added high glide refrigerant note.

Revision F: January 2018: Added 6 foot data. Other changes marked with bar, underline or circle.