

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.

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Data sheet - Excel FWEGH

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.

Refrigeration Data ¹

	End Case			AHRI 1200 Rating Point ²
	MED	FF	IC ³	
Discharge Air °F (°C)	24 (-4.44)	-12 (-24.44)	-22 (-30.00)	-15 (-26.11)
Average Evaporator °F (°C) ⁴	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 case (Watts/case)				
Parallel	1710 (1645)	2755 (2650)	2950 (2838)	2855 (2747)
Conventional	1785 (1717)	2875 (2766)	3075 (2958)	2980 (2867)

Notes:

1. All data based on store temperature and humidity that does not exceed 75 deg F and 55% relative humidity.
2. For energy consumption comparison only.
3. Dual temperature operation kits are not suitable for ice cream temperature applications.
4. 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 6.6 lb/ft/day
 (9.8 kg/m)

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

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

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

GAS
 Duration (minutes)

FF 15
 IC 18

Conventional Controls

FWEUGH
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 FWEUGH

End 1.5 lb 40 oz 0.7 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) 3.69 ft³/ft (0.34 m³/m)
AHRI Total Display Area ⁸ (Sq Ft/Ft) 4.25 ft²/ft (1.30 m²/m)
Shelf Area (Sq Ft/Ft) 2.79 ft²/ft (0.85 m²/m)

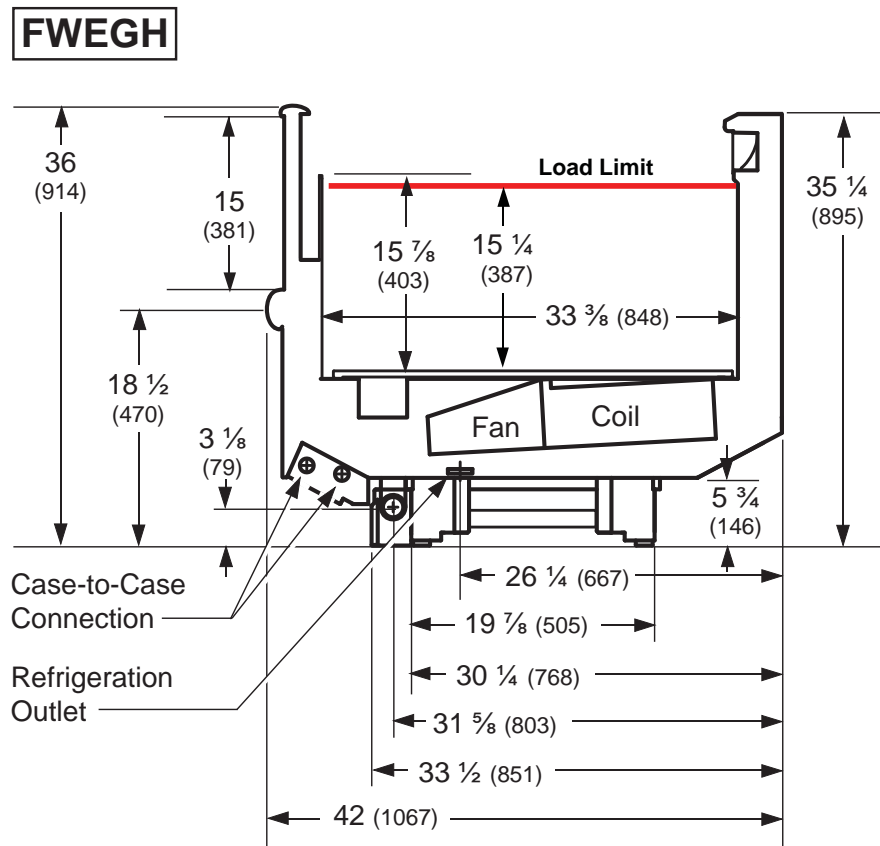
⁷ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

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.

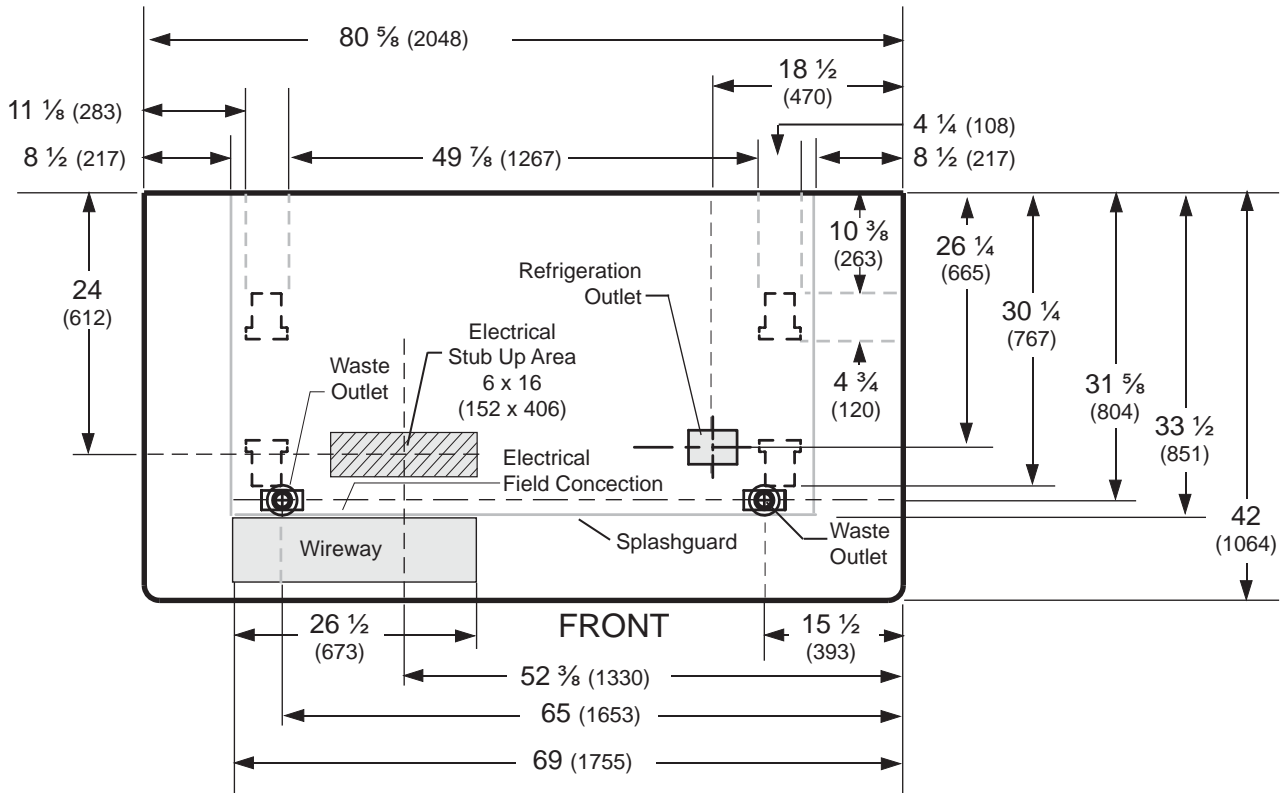
Dimensions shown as in. and (mm).



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Plan View



<p align="center">ENDS or PARTITIONS</p> <p><i>Each standard end and each insulated partition adds 2 in. (38 mm) to case line up.</i></p>	<p align="center">PHYSICAL DATA</p> <table border="0"> <tr> <td>Merchandiser Drip Pipe (in.)</td> <td align="right">1 1/4</td> </tr> <tr> <td align="center" colspan="2">Schedule 40 PVC</td> </tr> <tr> <td>Merchandiser Liquid Line (in.)</td> <td align="right">3/8</td> </tr> <tr> <td>Merchandiser Suction Line (in.)</td> <td align="right">5/8</td> </tr> </table>	Merchandiser Drip Pipe (in.)	1 1/4	Schedule 40 PVC		Merchandiser Liquid Line (in.)	3/8	Merchandiser Suction Line (in.)	5/8
Merchandiser Drip Pipe (in.)	1 1/4								
Schedule 40 PVC									
Merchandiser Liquid Line (in.)	3/8								
Merchandiser Suction Line (in.)	5/8								
<p align="center">ESTIMATED SHIPPING WEIGHT †</p> <table border="0"> <tr> <td>Case</td> <td>Solid End</td> </tr> <tr> <td></td> <td align="center">(each)</td> </tr> <tr> <td>lb (kg)</td> <td align="center">500 (227)</td> </tr> </table> <p>† Actual weights will vary according to optional kits included.</p>		Case	Solid End		(each)	lb (kg)	500 (227)		
Case	Solid End								
	(each)								
lb (kg)	500 (227)								

Electrical Data

Number of Fans 4W Evaporator	Standard End		Optional Equipment	
	Amperes Ends	Watts End	Amperes Ends	Watts End
	1			
Evaporator Fan				
120V 50/60Hz Energy Efficient	0.12	8		
Anti-sweat Heaters (on fan circuit)				
120V 50/60Hz Standard	0.65	78		
Joining Kit Anti-sweat Heaters				
120V 50/60Hz Standard			0.40	48
Minimum Circuit Ampacity				
120V 50/60Hz Standard Energy Efficient	0.97		1.37	
Maximum Over Current Protection 120V	20	20		
Return Glass Anti-sweat Heaters				
120V 50/60Hz Standard	0.17	20.4		
208V Electric Defrost	6.54	1360		
120V Koolgas Defrost	1.33	160		
Standard Lighting	None			

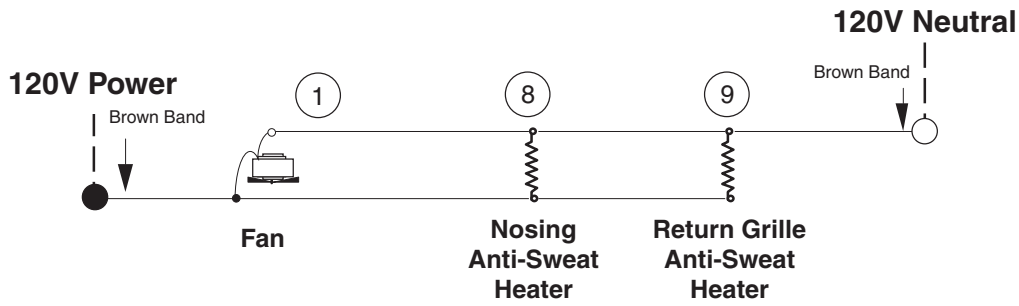
Replacement Parts List

Part #	Description	Part #	Description
FAN ASSEMBLIES		HEATERS (CONT.)	
4W Standard Fan Assembly		208V Evaporator Defrost Heaters	
0464845	7.0-in. Fan Assembly	3016522	End case
0464847	Fan Blade	208V Drip Pan Defrost Heaters, Electric	
THERMOSTATS		0444300	End case
0398557	Defrost Termination Thermostat (Electric Defrost only)	120V Drip Pan Defrost Heaters, Koolgas	
HEATERS		0465906	End case
0481370	Heater Switch (Koolgas Defrost only)	Nosing Anti-sweat Heaters	
		0495006	End case
		Return Grille Anti-sweat Heaters	
		0495010	End case
		Return Glass Anti-sweat Heaters	
		0474782	End case, Front
		0474783	End case, Left Side
		0474784	End case, Right Side

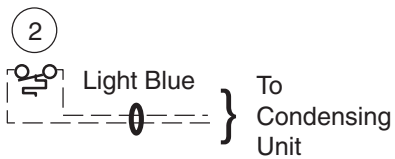
FOR ADDITIONAL PARTS INFORMATION, VISIT [HTTP://WWW.HUSSMANN.COM/EN/PAGES/AFTERMARKET-PARTS.ASPX](http://www.hussmann.com/en/pages/aftermarket-parts.aspx)

Fan Wiring Electrical Defrost - Standard

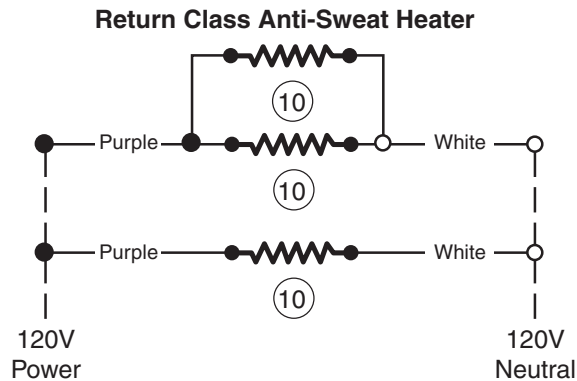
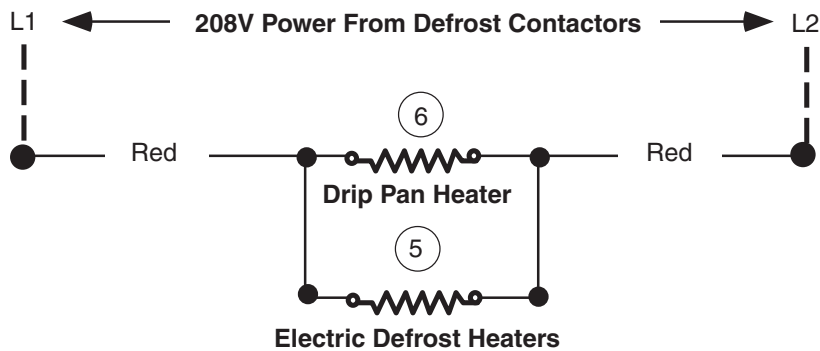
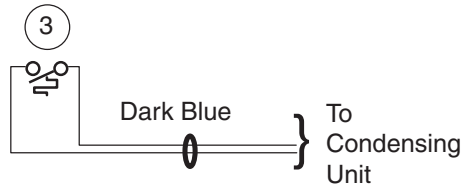
Excel **FWEGH**
Frozen



Refrigeration Thermostat (Optional)



Defrost Termination Thermostat



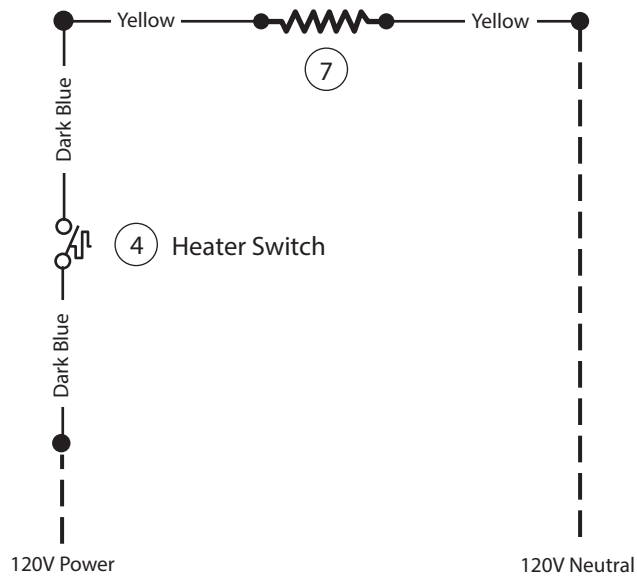
WARNING

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

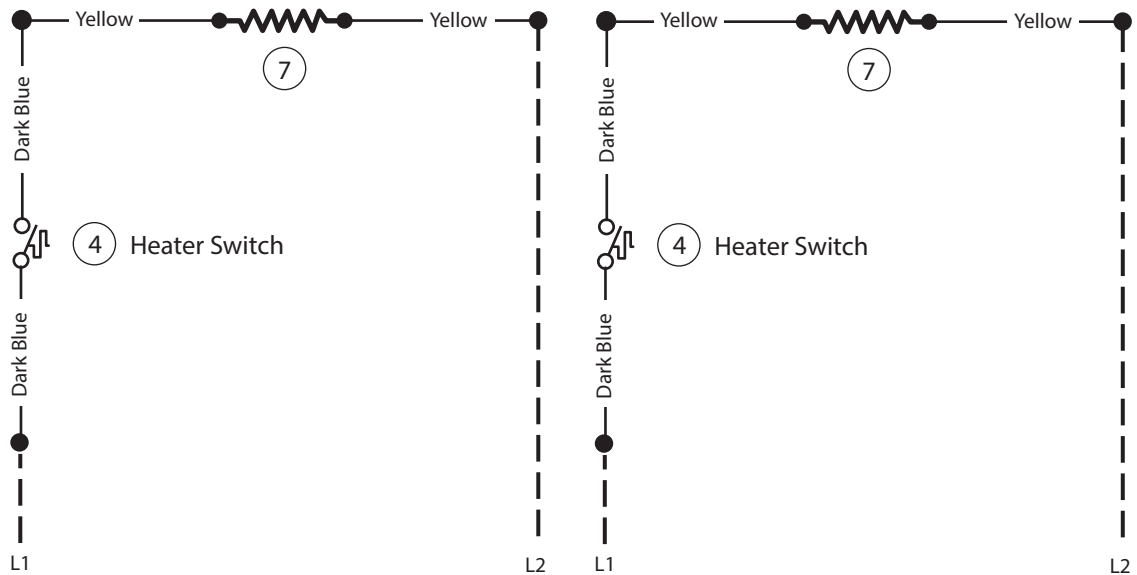
Circled Number = Parts List Item Numbers

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.

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 0.39 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 case length (12 ft), canopy lighting [standard or optional] (here 0.70 for standard), and shelf lighting [maximum for which case is wired] (1.53 for six shelves); then add together $[0.70 + 1.53 = 2.23 \text{ amps for } 120\text{V}]$ (for 230V, multiply $2.23 * 0.52 = 1.16$).

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: May 2016: Added note on page 2.

Revision C: June 2016: Updated refrigeration data and updated AHRI Total Display Area on page 2.

Revision D: March 2017: Added high glide refrigerant note. Other changes marked with a bar, underline or circle.