HUSSMANN®

EXCEL™ FWEGH-L

Frozen

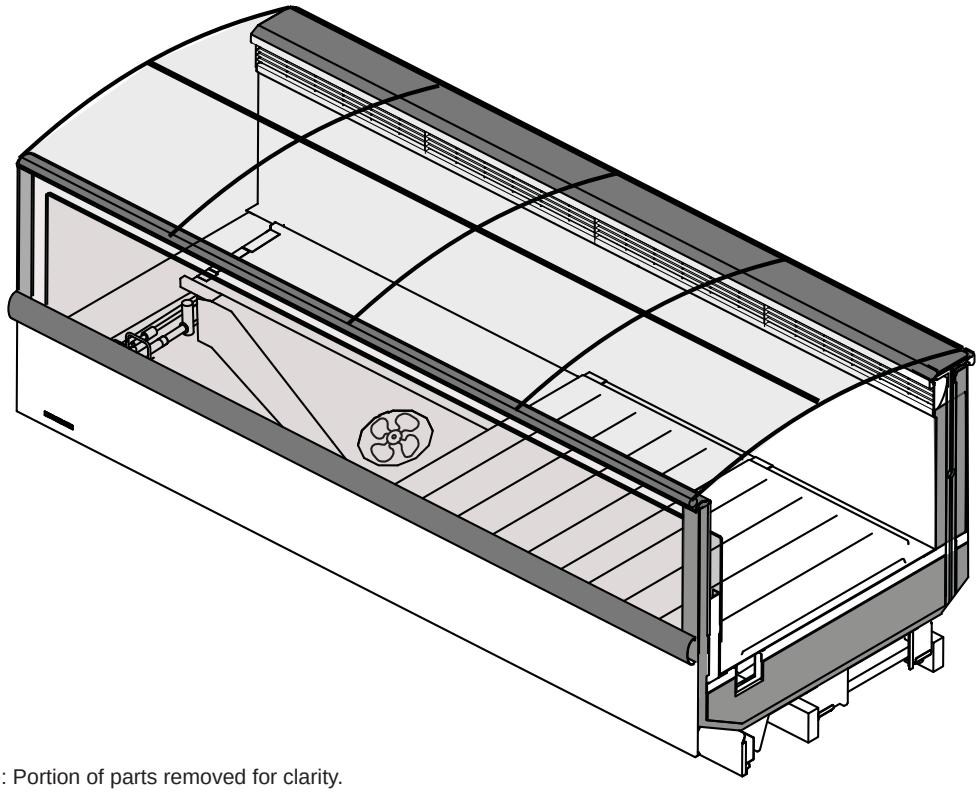
Merchandiser Data Sheet

P/N 0544871_F

NSF® Certified

March 2017

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.

Spanish P/N 0544873

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Refrigeration Data [1]

	End Case		AHRI 1200 Rating Point [2]
	FF	IC	
Discharge Air °F (°C)	–12 (–24.44)	–18 (–27.77)	–9 (–22.77)
Average Evaporator °F (°C)[4]	–18 (–27.77)	–24 (–31.11)	–15 (–26.11)
Unit Sizing °F (°C)	–21 (–29.44)	–27 (–32.77)	–18 (–27.77)
Btu/hr per case (Watts/case)			
Parallel	1090 (1049)	1180 (1135)	1065 (573)
Conventional	1140 (1097)	1235 (1188)	1110 (599)

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.
5. Add 60 BTU/hr/case for LED Lighting.

Defrost Data

Frequency (hours between defrost) 24

Defrost Water 3.3 lb/ft/day (4.9 kg/m)

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

Offtime	**FWEGH**
Time (minutes)	Not Recommended

Electric

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

Gas
Duration (minutes)

FF	15
IC	18

Conventional Controls

	FWEGH
Low Pressure Backup Control CI/CO [6]	
FF	–15°F /–27°F –26.1°C / –32.7°C
IC	–21°F /–33°F –29.4°C / –36.1°C
Indoor Unit Only, Pressure Defrost Termination [6]	Not Recommended

[6] Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge [7]	**FWEGH-L**		
End	1.5 lb	40 oz	0.7 kg

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

Product Data

Recommended Usable Cube [8] ***(Cu Ft/Ft)***	3.69 ft^3/ft (0.34 m^3/m)
AHRI Total Display Area [9] ***(Sq Ft/Ft)***	4.17 ft^2 /ft (1.27 m^2/m)
Shelf Area (Sq Ft/Ft)	2.79 ft^2 /ft (0.85 m^2/m)

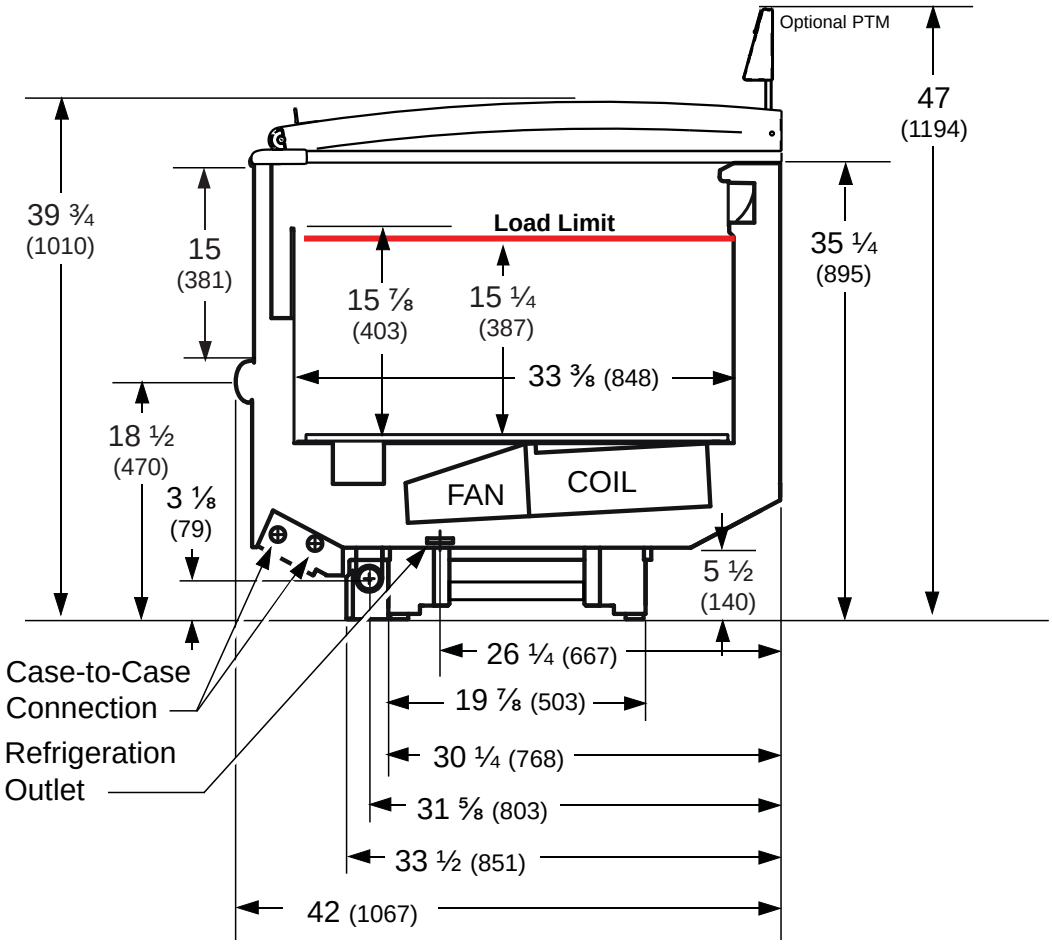
[8] AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft^3/ft [m^3/m]
[9] Computed using AHRI 1200 standard methodology: Total Display Area, ft^2 [m^2]/Unit of Length, ft [m]

DOE 2017
Energy Efficiency Compliant

Hussmann 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).

FWEGH-L



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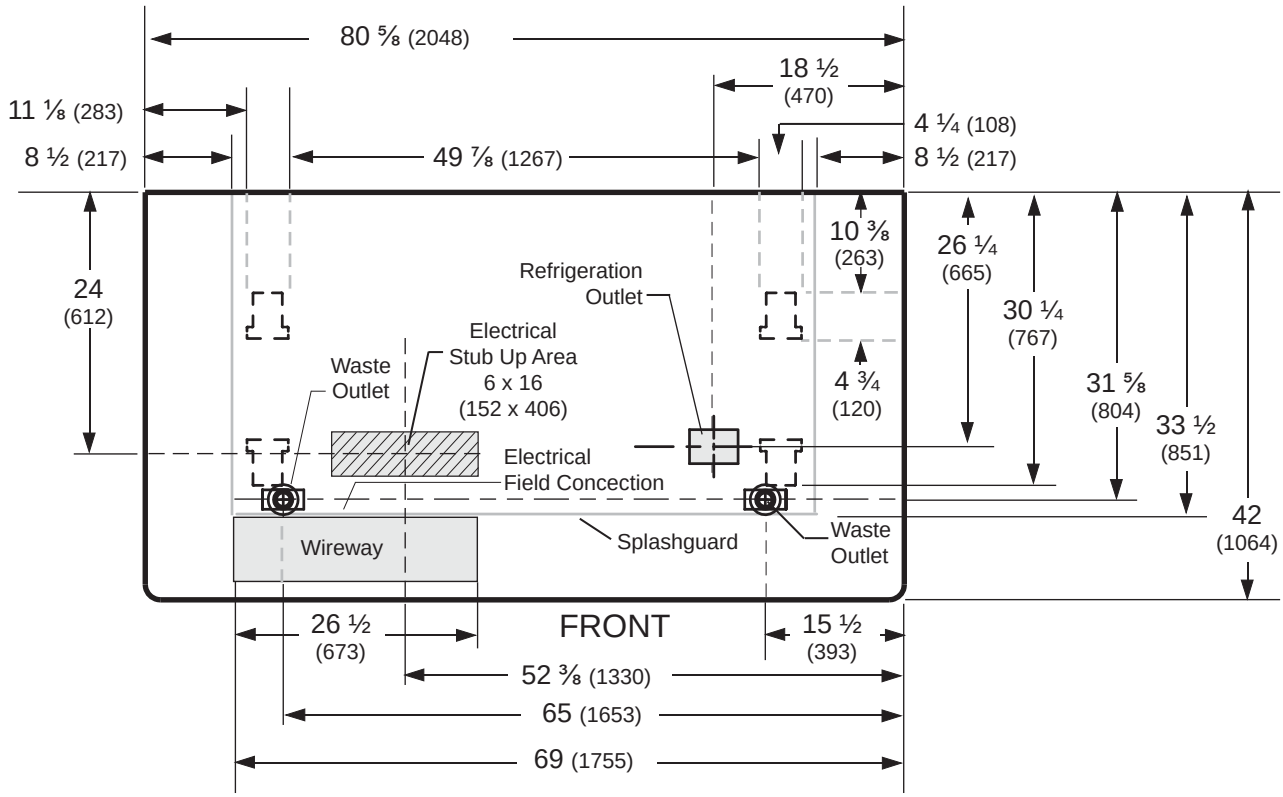
Dimensions shown as in. and (mm).

Plan View



ENDS or PARTITIONS

Each standard end and each insulated partition adds 2 in. (38 mm) to case line up.

PHYSICAL DATA

Merchandiser Drip Pipe (in.) Schedule 40 PVC	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	5/8

ESTIMATED SHIPPING WEIGHT †

Case	**Solid End** ***(each)***
lb *(kg)*	590 (269)

† Actual weights will vary according to optional kits included.

Electrical Data

Number of Fans	**Standard End**
4W Evaporator	1

	Amperes Ends	**Watts End**
Evaporator Fan		
120V 50/60Hz Energy Efficient	0.12	8
Anti-sweat Heaters (on fan circuit)		
120V 50/60Hz Standard	0.26	31
Minimum Circuit Ampacity		
120V 50/60Hz Standard Energy Efficient	0.58	1.08
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

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	None

Optional Lighting				
LED	120V	50/60Hz	0.28	34

Please note: some combinations of fluorescent lights on this case model may not be compliant with DOE 2017 and may not be available to order in the US and Canada. More lighting options are available with LED lights. The Hussmann Product Configurator will not allow lighting options that do not comply with the DOE 2017 standards.

Replacement Parts List

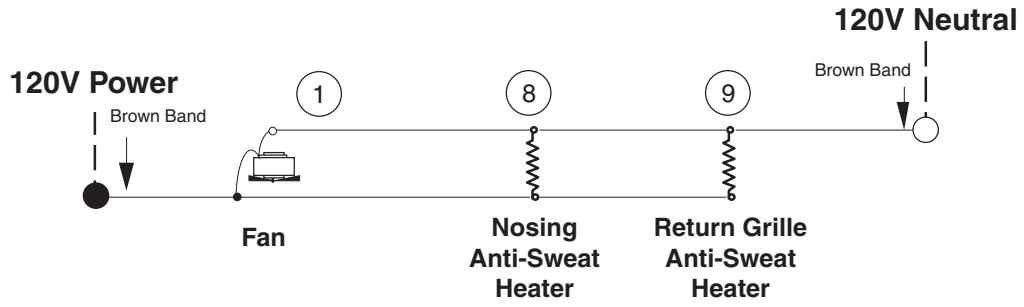
Part #	Description
FAN ASSEMBLIES	
4W Standard Fan Assembly	
0477653	7.0-in. Fan Assembly
0252116	Fan Blade
THERMOSTATS	
0398557	Defrost Termination Thermostat (Electric Defrost only)
HEATERS	
0481370	Heater Switch (Koolgas Defrost only)

Part #	Description
HEATERS (CONT.)	
208V Evaporator Defrost Heaters	
3016522	End case
208V Drip Pan Defrost Heaters, Electric	
0444300	End case
120V Drip Pan Defrost Heaters, Koolgas	
0465906	End case
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
OPTIONAL LED FIXTURES AND POWER SUPPLY	
0501213	Power Supply

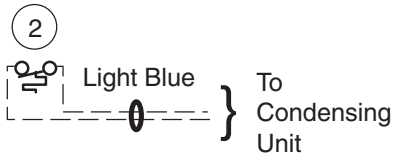
NOTE: For LED lighting parts contact your Hussmann service representative at 1-800-922-1919. Please have your model and serial number available.

FOR ADDITIONAL PARTS INFORMATION, VISIT
HTTP://WWW.HUSSMANN.COM/EN/PAGES/AFTERMARKET-PARTS.ASPX

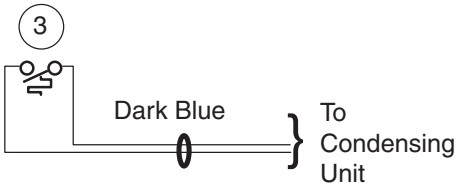
Fan Wiring
Electrical Defrost - Standard

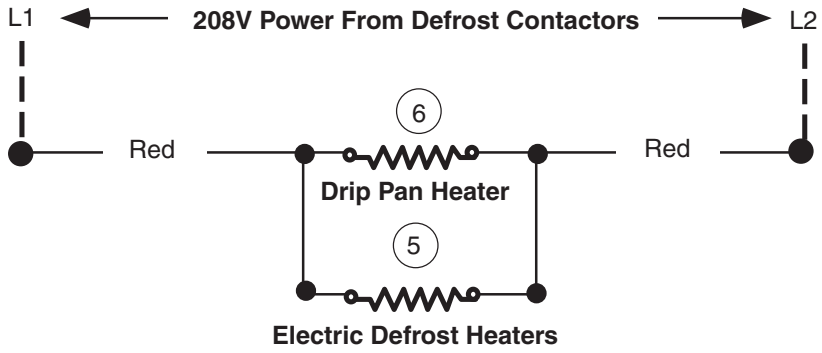


Refrigeration Thermostat (Optional)

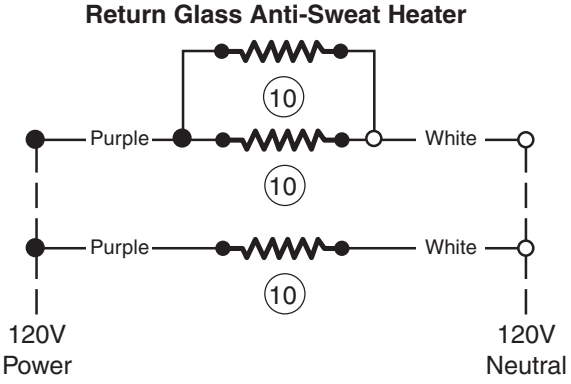


Defrost Termination Thermostat





Return Glass Anti-Sweat Heater

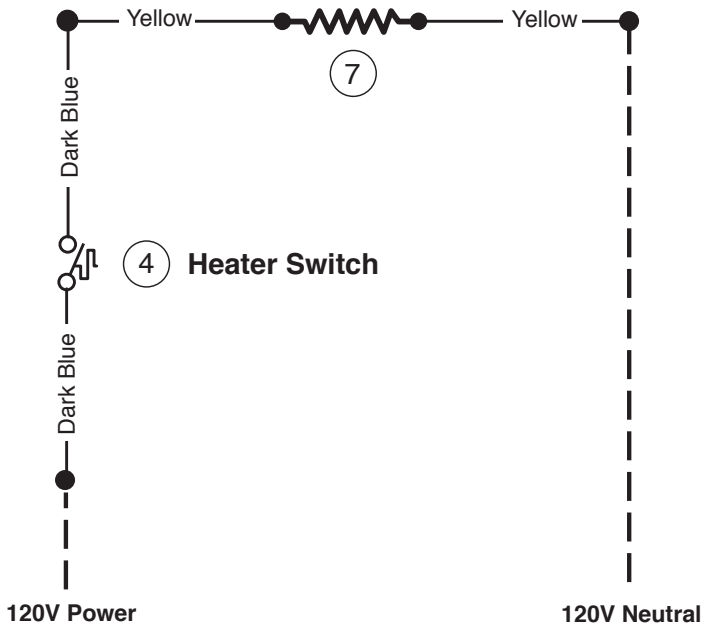


WARNING

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

Circled Number = Parts List Item Numbers

120V Drip Pan Heater — Koolgas Only



WARNING

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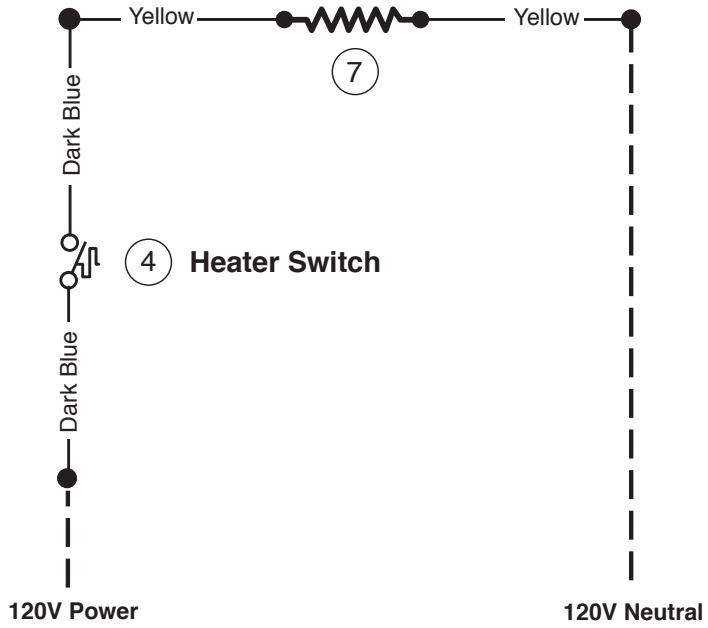
Optional LED Lighting Wire Diagram

120V 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 amps for 120V] (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: January 2016: Updated fan assembly part numbers Page 7.

Revision C: May 2016: Updated cross section.

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

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

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