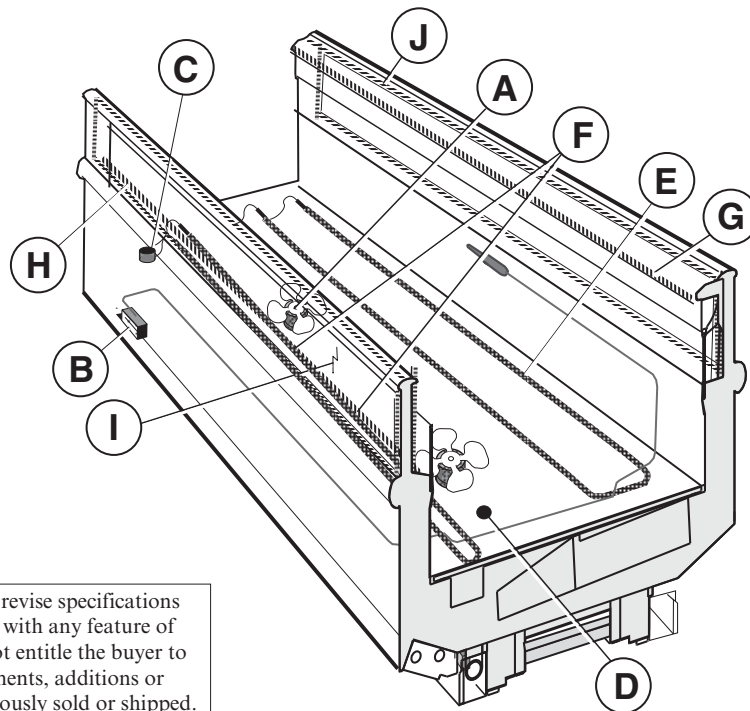


DOE 2017
Energy Efficiency
Compliant



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 #
FAN ASSEMBLIES, AND THERMOSTATS				HEATERS (CONTINUED)			
A.	4W Standard Energy Efficient Fan Assembly (1) 0477653 Fan Motor, Evaporator (MO.4410544) 0382383 Fan Blade (FB.4780617)			F.	208V Drip Pan Defrost Heaters, Electric 0462160 8 ft case (HE.4850636) 0444296 12 ft case (HE.4850572) 120V Drip Pan Defrost Heaters, Koolgas 0465907 8 ft case (HE.4850622) 0465908 12 ft case (HE.4850623)		(6) (7)
B.	Optional Adj. Refrigeration Thermostat		(2)	G.	Nosing Anti-sweat Heaters 0495007 8 ft case (HE.4850685) 0495008 12 ft case (HE.4850686)		(8)
C.	0398557 Defrost Termination Thermostat (Electric Defrost only) (CT.4440611)		(3)	H.	Return Grille Anti-sweat Heaters 0495011 8 ft case (HE.4850689) 0495012 12 ft case (HE.4850690)		(9)
D.	0481370 Heater Switch (Koolgas Defrost only) (CT.4440738)		(4)	I.	Return Glass Anti-sweat Heaters 0474778 8 ft case (GL.4987838) 0474779 12 ft case (GL.4987839)		(10)
HEATERS				J.	Discharge Glass Anti-sweat Heaters 0504300 8 ft case (GL.4969359) 0504342 12 ft case (GL.4990684)		(11)
E.	208V Evaporator Defrost Heaters 3016525 8 ft case (HE.4850630) 3016528 12 ft case (HE.4850631)		(5)				

Data sheet-Excel-FIG

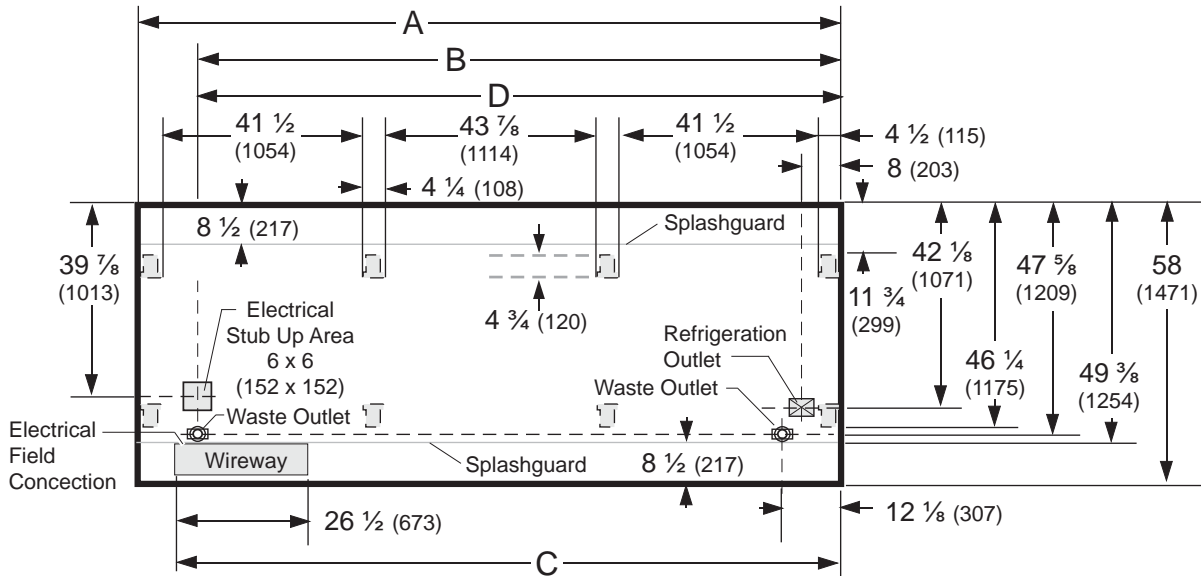
Note: Revision K: Added high glide refrigerant note. Other changes marked by bar, underline or circle.

Engineering Plan Views

PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	5/8

Intermediate Island Frozen Food

Dimensions shown as inches & (mm).



NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.

FRONT

	8 ft	12 ft
General		
(A) Case Length (<i>without ends or partitions</i>)	96 3/8 (2448)	144 1/2 (3670)
<i>(Each end and insulated partition adds 2 in. (51 mm) to case line up.)</i>		
Maximum O/S dimension of case back to front (<i>includes bumper</i>)	58 (1471)	58 (1471)
Back of case to front of splashguard	49 3/8 (1254)	49 3/8 (1254)
Back of case to O/S edge of front leg	46 1/4 (1175)	46 1/4 (1175)
Distance between edges of external legs and center legs	41 1/2 (1054)	41 1/2 (1054)
Distance between edges of center legs	NA	43 7/8 (1114)
Distance between front legs and splashguard	3 1/8 (82)	3 1/8 (82)
Electrical Service <input checked="" type="checkbox"/> (<i>Electrical Field Wiring connection point</i>)		
(B) RH End of case to center of stub up area	84 1/4 (2141)	132 3/8 (3363)
Back of case to center of stub up area	39 7/8 (1013)	39 7/8 (1013)
Length of electrical wireway <input type="checkbox"/> Wireway	26 1/2 (673)	26 1/2 (673)
(C) RH End of case to LH end of wireway	90 1/8 (2289)	138 1/4 (3511)
Waste Outlets (<i>One each end</i>) <input checked="" type="checkbox"/>		
(D) RH End of case to the center of LH waste outlet	84 1/4 (2141)	132 3/8 (3363)
RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	47 5/8 (1209)	47 5/8 (1209)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)
	1	
Refrigeration Outlet <input type="checkbox"/>		
Back of case to center of refrigeration outlet	42 1/8 (1071)	42 1/8 (1071)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)

Intermediate Island Display with Glass Walls



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

Excel FIG
Low / Medium Temperature

REFRIGERATION DATA§

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

	MED	FF
Discharge Air (°F)	+24	-12
Evaporator(°F)	+19	-20
Unit Sizing (°F)	+17	-23

§ 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.

<i>Btuh</i> /rft	MED	FF
Parallel	345	535
Conventional	360	560

DEFROST DATA

	MED	FF
Frequency (hr)	24	24
Defrost Water (lb/ft/day)	0.8	1.0

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

<i>ELECTRIC</i>	MED	FF
Temp Term (°F)	48	48
Failsafe (minutes)	60	60

<i>GAS</i>	MED	FF
Duration (minutes)	NA	15

OFFTIME Not Recommended

Standard Defrost Thermostat

Close on rise: close 48°F — open 33°F

CONVENTIONAL CONTROLS

Low Pressure Backup Control — CI/CO **

MED	+22°F / +10°F
FF	-17°F / -29°F

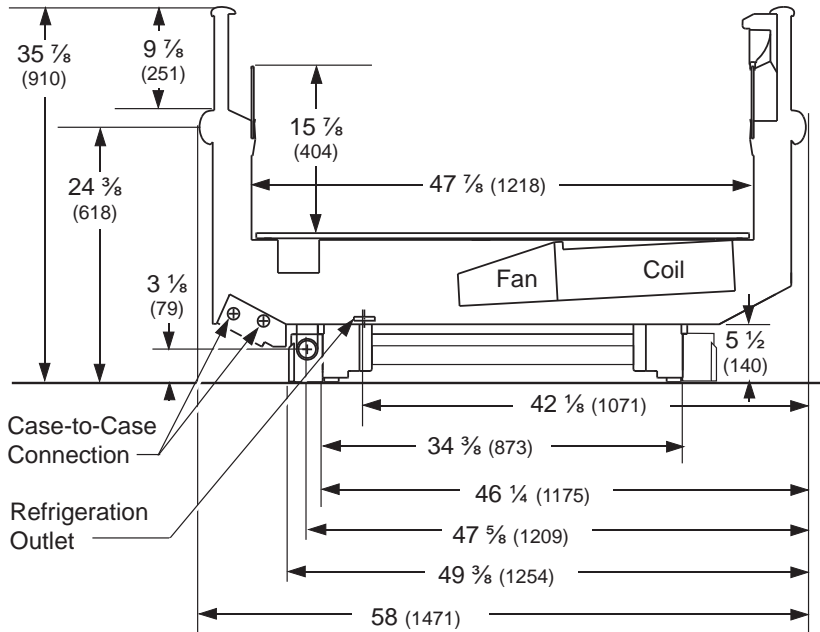
Indoor Unit Only, Pressure Defrost

Termination* Not Recommended

*Use a Temperature Pressure Chart to determine PSIG conversions.

FIG

Dimensions shown as inches & (mm).



Estimated Charge **

8 ft	2.5 lb	40 oz	1.1 kg
12 ft	3.7 lb	59 oz	1.7 kg

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

	8 ft	12 ft		
Number of Fans – 4W Evaporator	2	3		
	Amperes		Watts	
	8 ft	12 ft	8 ft	12 ft
Evaporator Fans				
120V 50/60Hz Standard Energy Efficient	0.24	0.36	16	24
230V 50/60Hz Standard Energy Efficient	0.12	0.18	16	24
230V 60Hz Export	0.30	0.45	48	72
230V 50Hz Export	0.36	0.54	54	81
Anti-sweat Heaters (on fan circuit)				
120V 50/60Hz Standard	0.87	1.30	104	156
230V 50/60Hz Export	0.45	0.68	104	156
Minimum Circuit Ampacity				
120V 50/60Hz Standard Energy Efficient	1.31	1.86		
230V 50/60Hz Standard Energy Efficient	0.77	1.06		
230V 60Hz Export	0.95	1.33		
230V 50Hz Export	1.01	1.42		
Maximum Over Current Protection 120V	20	20		
Maximum Over Current Protection 230V	15	15		
Return Glass Anti-sweat Heaters				
120V 50/60Hz Standard	0.08	0.11	9	13
230V 50/60Hz Export	0.04	0.06	9	13
Discharge Glass Anti-sweat Heaters				
120V 50/60Hz Standard	0.46	0.66	55	79
230V 50/60Hz Export	0.24	0.34	55	79
208V Electric Defrost (Coil & Drain Heater)	9.13	13.94	1900	2900
230V Export Electric Defrost (Coil & Drain Heater)	8.26	12.61	1900	2900
120V Koolgas Defrost	1.67	3.33	200	400
208V Koolgas Defrost	0.96	1.92	200	400
230V Koolgas Defrost	1.06	2.12	244	488
Standard Lighting				
None				

Product Data

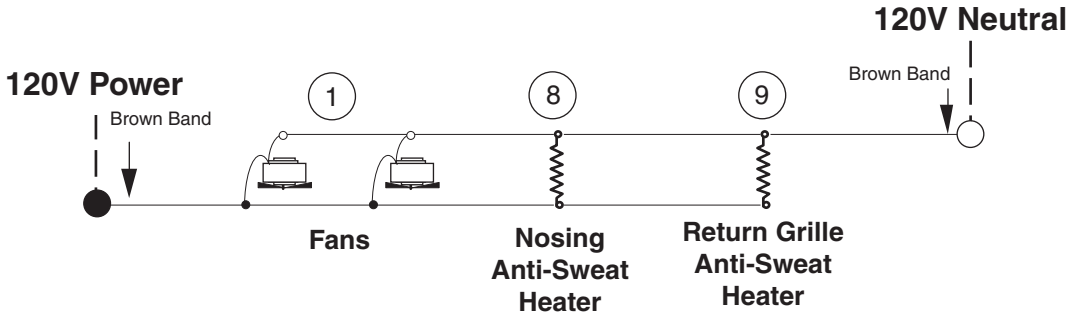
<i>Recommended Usable Cube</i> ¹ (Cu Ft/Ft)	5.30 ft ³ /ft (0.49 m ³ /m)
<i>AHRI Total Display Area</i> ² (Sq Ft/Ft)	4.58 ft ² /ft (1.40 m ² /m)
<i>Shelf Area</i> ³ (Sq Ft/Ft)	4.00 ft ² /ft (1.22 m ² /m)

¹ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
³ 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.

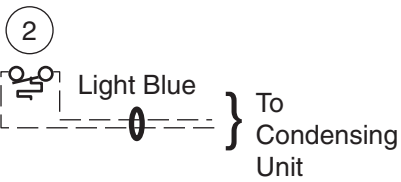
ESTIMATED SHIPPING WEIGHT ⁴			
Case			Solid End
	<i>8 ft</i>	<i>12 ft</i>	<i>(each)</i>
lb (kg)	1000 (454)	1200 (544)	50 (23)

⁴ Actual weights will vary according to optional kits included.

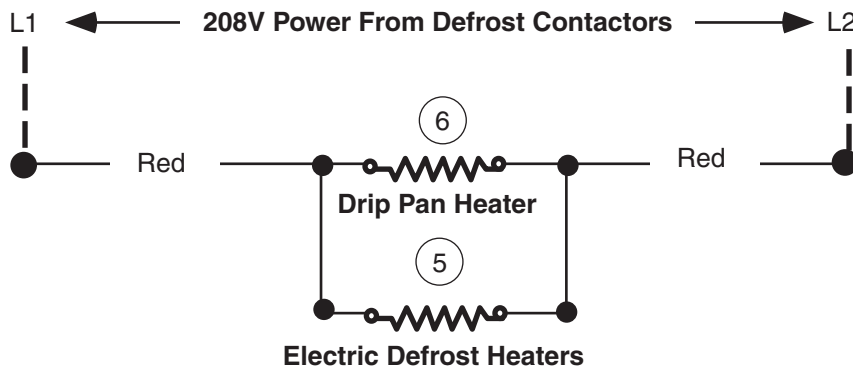
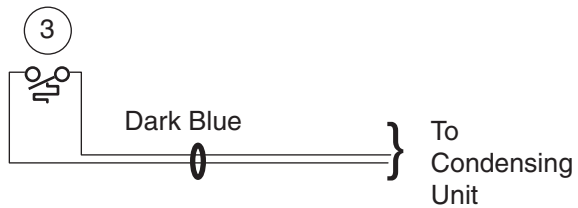
Electric Defrost – Standard



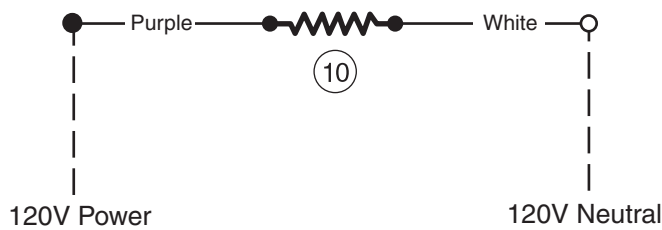
Refrigeration Thermostat (Optional)



Defrost Termination Thermostat



Return Glass Anti-Sweat Heater

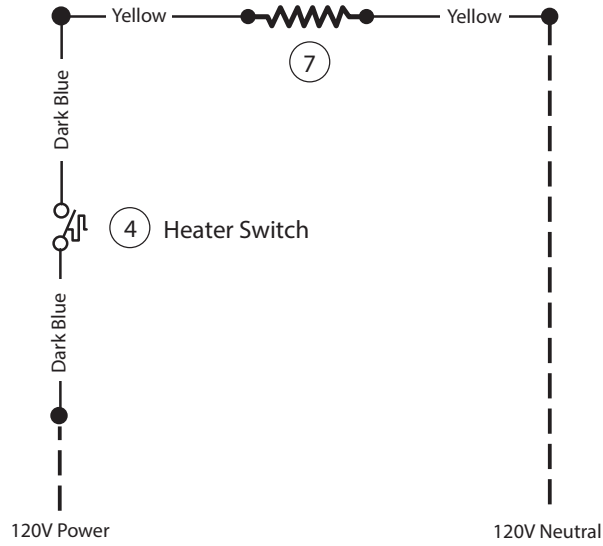


WARNING

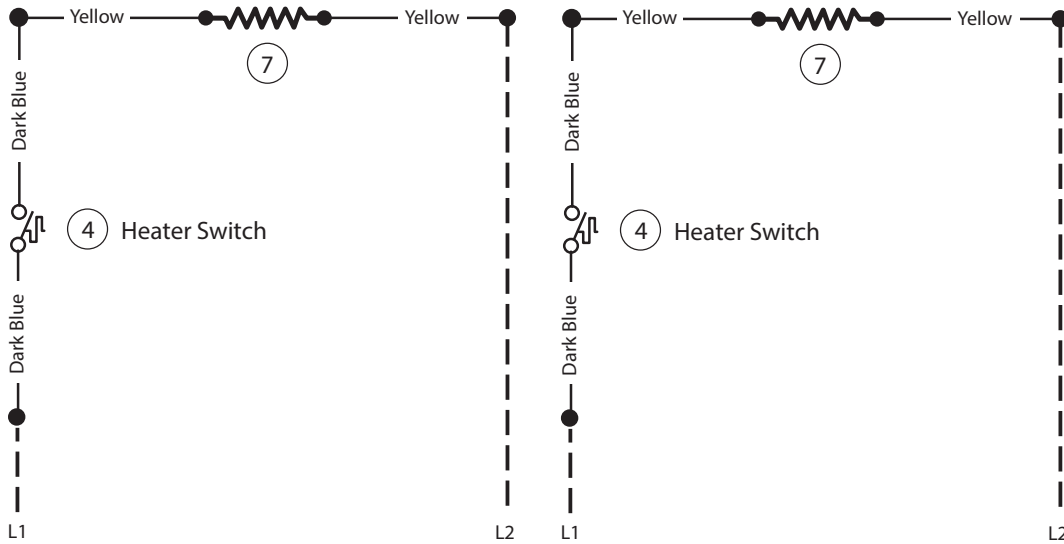
All components must have mechanical ground, and the merchandiser must be grounded.
 Circled Number = Parts List Item Numbers

Gas Defrost – Optional

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