HUSSMANN®
Excel

FIG

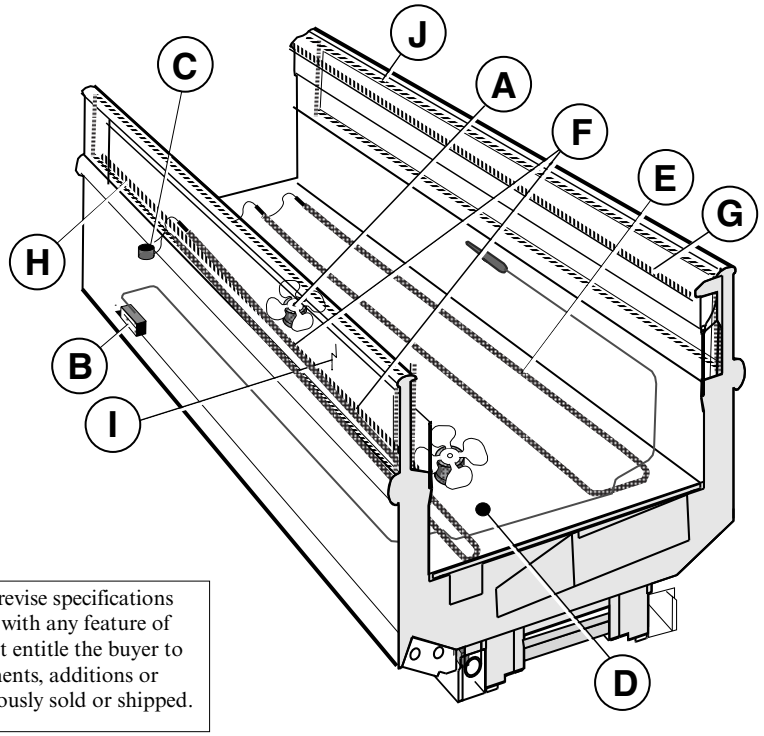
Technical Data Sheet

P/N 0465897_J

NSF® Certified

April 2014

DOE 2012
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 #
FAN ASSEMBLIES, AND THERMOSTATS			
A.		**4W** Standard Energy Efficient Fan Assembly	(1)
	0477653	Fan Motor, Evaporator (MO.4410544)	
	0382383	Fan Blade (FB.4780617)	
B.		Optional Adj. Refrigeration Thermostat	(2)
C.	0398557	Defrost Termination Thermostat (Electric Defrost only) (CT.4440611)	(3)
D.	0481370	Heater Switch (Koolgas Defrost only) (CT.4440738)	(4)
HEATERS			
E.		208V Evaporator Defrost Heaters	(5)
	0465916	8 ft case (HE.4850630)	
	0465915	12 ft case (HE.4850631)	

Item	Part #	Description	Wiring Item #
HEATERS (CONTINUED)			
F.		208V Drip Pan Defrost Heaters, Electric	(6)
	0462160	8 ft case (HE.4850636)	
	0444296	12 ft case (HE.4850572)	
		120V Drip Pan Defrost Heaters, Koolgas	(7)
	0465907	8 ft case (HE.4850622)	
	0465908	12 ft case (HE.4850623)	
G.		Nosing Anti-sweat Heaters	(8)
	0495007	8 ft case (HE.4850685)	
	0495008	12 ft case (HE.4850686)	
H.		Return Grille Anti-sweat Heaters	(9)
	0495011	8 ft case (HE.4850689)	
	0495012	12 ft case (HE.4850690)	
I.		Return Glass Anti-sweat Heaters	(10)
	0474778	8 ft case (GL.4987838)	
	0474779	12 ft case (GL.4987839)	
J.		Discharge Glass Anti-sweat Heaters	(11)
	0504300	8 ft case (GL.4969359)	
	0504342	12 ft case (GL.4990684)	

Note: Revision J added 208V and 230 V Koolgas Defrost electrical data on page 4; added 208V/230V Koolgas Defrost wiring diagram on page 7. Other changes marked by bar, underline or circle.

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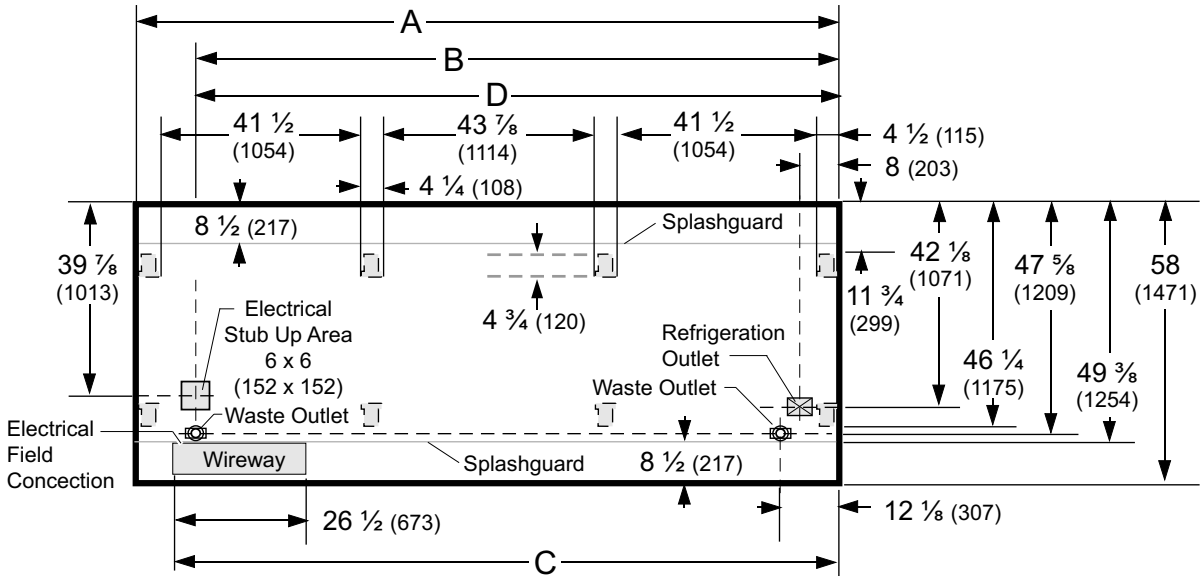
Spanish 0538919
French 0538920

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 Comections are made IN FRONT OF SPLASHGUARD.

FRONT

		8 ft	12 ft
General			
(A) Case Length *(without ends or partitions)*		96 3/8 (2448)	144 1/2 (3670)
(Each end and insulated partition adds 2 in. (51 mm) to case line up.)			
Maximum O/S dimension of case back to front *(includes bumper)*		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 ▨ *(Electrical Field Wiring connection point)*			
(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 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 *(One each end)* ⊙			
(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 1/4 (32)	1 1/4 (32)
Refrigeration Outlet ▭			
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)

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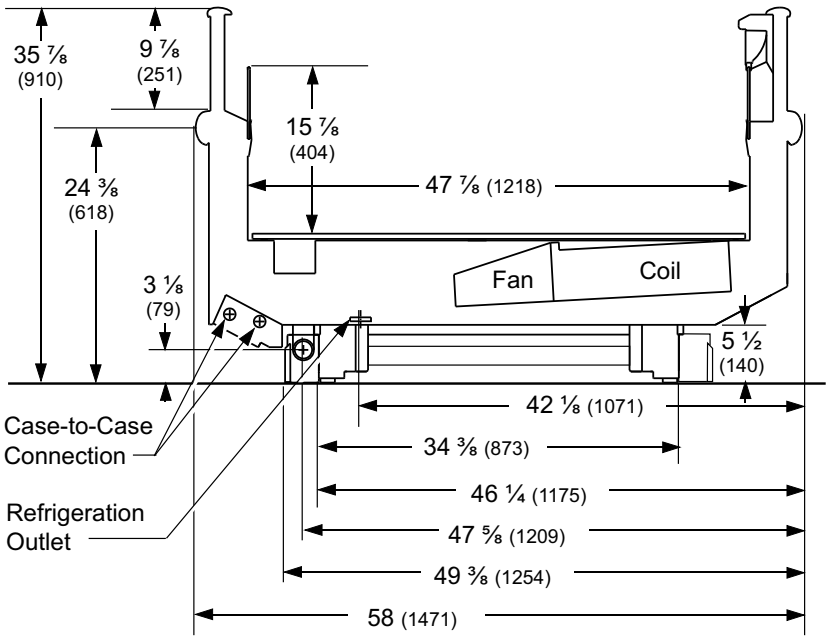
DOE 2012 Energy Efficiency Compliant

Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2012 energy efficiency standards.

Excel FIG
Low / Medium Temperatue

FIG

Dimensions shown as inches & (mm).



NSF Certification

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

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

Btu/hr/ft	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).

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

GAS		
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.

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).

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

Recommended Usable Cube [1] ***(Cu Ft/Ft)***	5.30 ft^3/ft (0.49 m^3/m)
AHRI Total Display Area [2] **(*Sq Ft/Ft*)**	4.63 ft^2/ft (1.41 m^2/m)
Shelf Area [3] ***(Sq Ft/Ft)***	4.00 ft^2/ft (1.22 m^2/m)

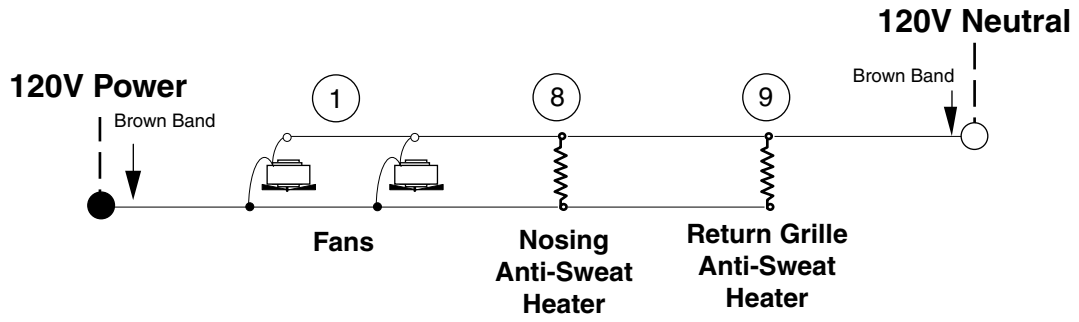
[1] AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft^3/ft [m^3/m]
[2] Computed using AHRI 1200 standard methodology: Total Display Area, ft^2 [m^2]/Unit of Length, ft [m]
[3] Shelf surface area is composed of bottom deck plus standard shelf complement,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

ESTIMATED SHIPPING WEIGHT [4]

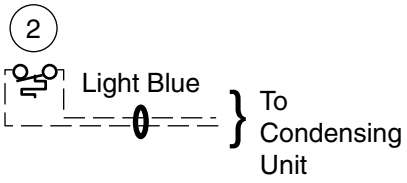
Case			**Solid End**
	8 ft	***12 ft***	***(each)***
lb *(kg)*	1000 (454)	1200 (544)	50 (23)

[4] Actual weights will vary according to optional kits included.

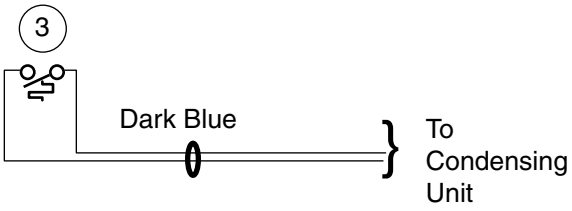
Electric Defrost – Standard

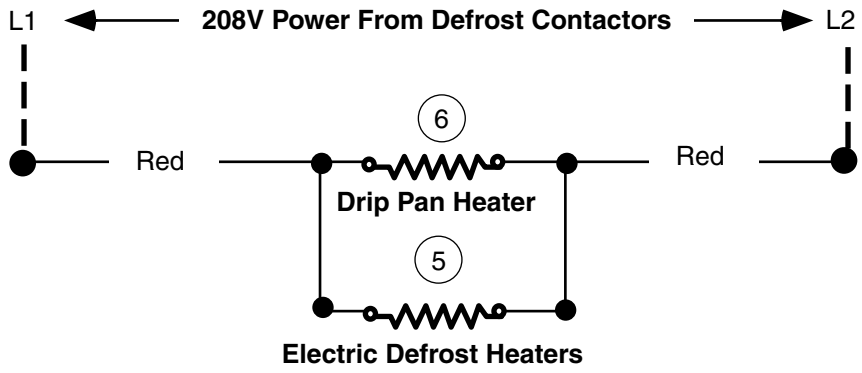


Refrigeration Thermostat (Optional)

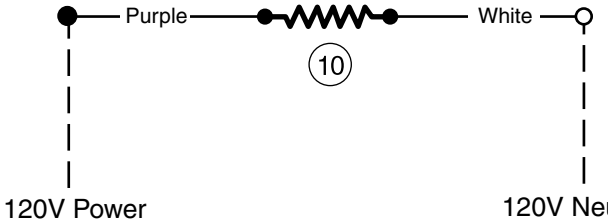


Defrost Termination Thermostat





Return Class Anti-Sweat Heater



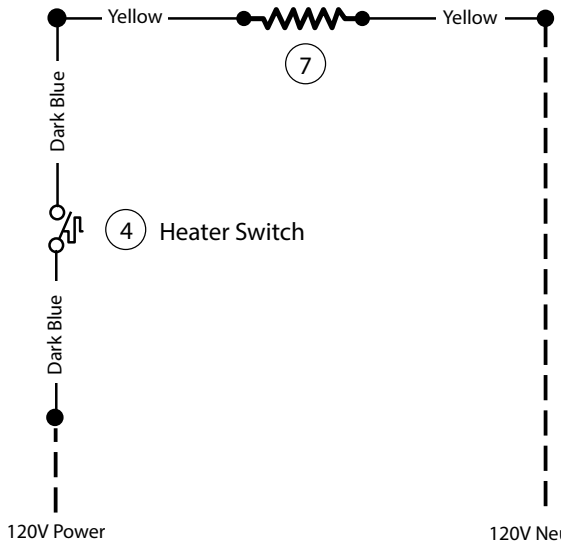
WARNING

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

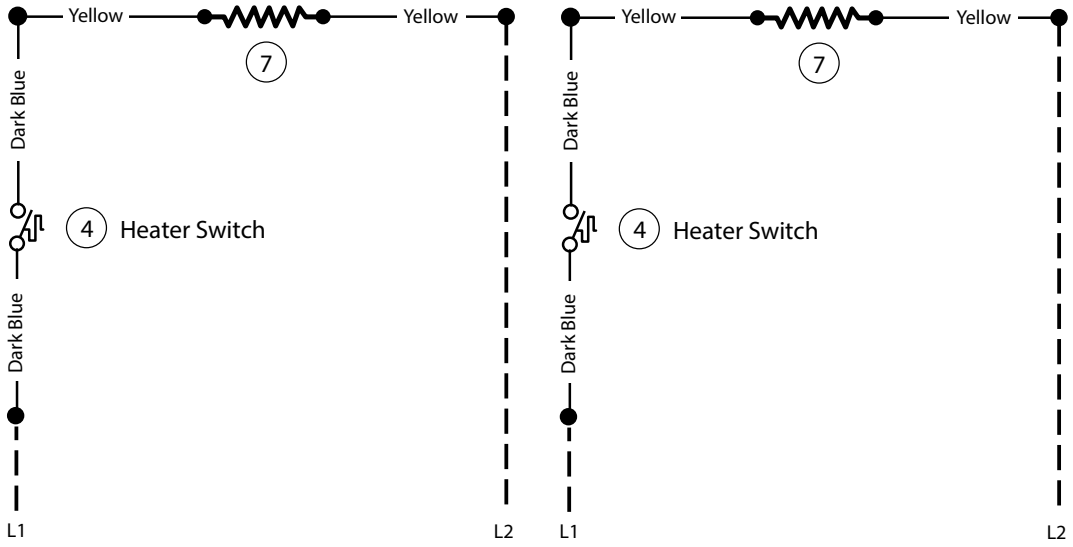
Circled Number = Parts List Item Numbers

Gas Defrost – Optional

120V Drip Pan Heater — Koolgas Only



208V/230V Drip Pan Heater — Koolgas Only



WARNING

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Circled Number = Parts List Item Numbers