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Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
FAN ASSEMBLIES, AND THERMOSTATS				HEATERS			
A.	4W Energy Efficient Fan Assembly 0477653 Fan Motor, Evaporator (MO.4410544) 0464847 Fan Blade (FB.4780649)	(1)	F.	208V Evaporator Defrost Heaters 3016520 4 ft case (HE.4850637) 3016522 6 ft case (HE.4850620) 3016524 8 ft case (HE.4850603) 3016527 12 ft case (HE.4850571)	(5)		
B.	Optional Adjustable Refrigeration Thermostat	(2)	G.	208V Drip Pan Defrost Heaters, Electric 0481865 4 ft case (HE.4850638) 0444300 6 ft case (HE.4850609) 0462160 8 ft case (HE.4850636) 0444296 12 ft case (HE.4850572)	(6)		
C.	Defrost Termination Thermostat (Front/Electric Defrost only) (CT.4440611)	(3)		120V Drip Pan Defrost Heaters, Koolgas 0488967 4 ft case (HE.4850641) 0465906 6 ft case (HE.4850628) 0465907 8 ft case (HE.4850622) 0465908 12 ft case (HE.4850623)	(7)		
D.	Defrost Termination Thermostat (Rear/Electric Defrost only) (CT.4481088)	(3)	H.	Nosing Anti-sweat Heaters 0495009 4 ft case (HE.4850687) 0495006 6 ft case (HE.4850684) 0495007 8 ft case (HE.4850685) 0495008 12 ft case (HE.4850686)	(8)		
E.	Heater Switch (Koolgas Defrost only) (CT.4440738)	(4)					

Data sheet - Excel - FW

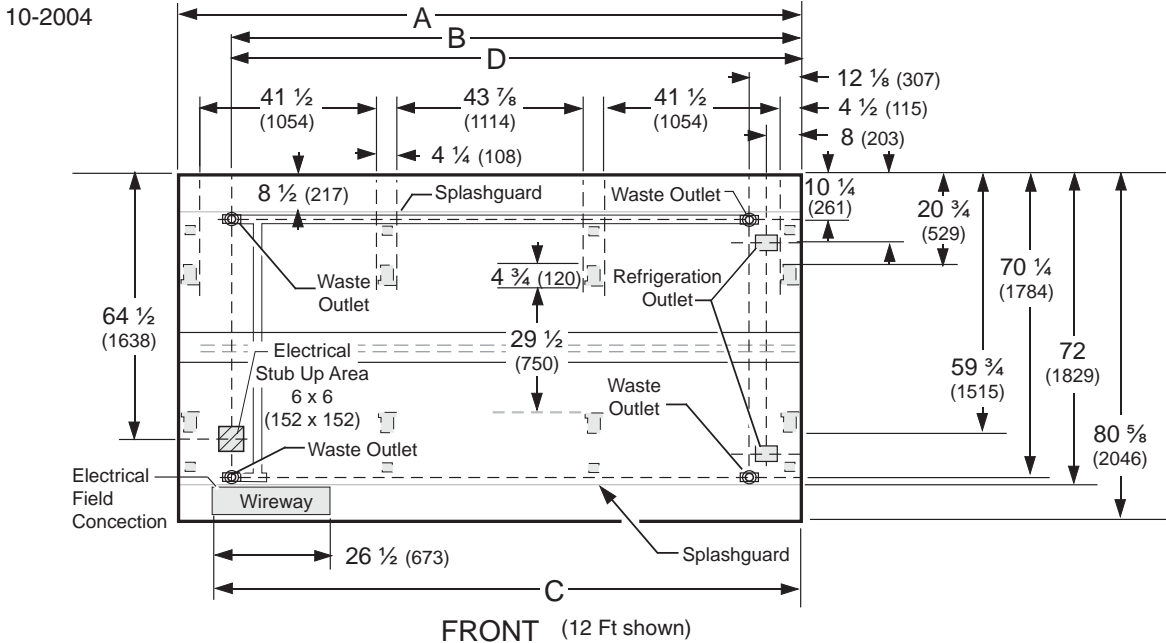
Note: Revision N: Added high glide refrigerant note. Other changes marked by bar, underline or circle.





Engineering Plan Views

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

Low / Medium Temperature Wide Island

Dimensions shown as inches & (mm).



	4 ft	6 ft	8 ft	12 ft
General				
(A) Case Length (<i>without ends or partitions</i>)	48 1/4 (1226)	73 3/4 (1874)	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>)	80 5/8 (2046)	80 5/8 (2046)	80 5/8 (2046)	80 5/8 (2046)
Back of case to front of splashguard	72 (1829)	72 (1829)	72 (1829)	72 (1829)
Back of case to O/S edge of front leg	59 3/4 (1515)	59 3/4 (1515)	59 3/4 (1515)	59 3/4 (1515)
Distance between edges of external legs and center legs	NA	30 1/4 (768)	41 1/2 (1054)	41 1/2 (1054)
Distance between edges of center legs	NA	NA	NA	43 7/8 (1114)
Distance between front legs and splashguard	12 3/8 (312)	12 3/8 (312)	12 3/8 (312)	12 3/8 (312)
Electrical Service  (<i>Electrical Field Wiring connection point</i>)				
(B) RH End of case to center of stub up area	36 1/8 (918)	61 5/8 (1565)	84 1/4 (2140)	132 3/8 (3363)
Back of case to center of stub up area	64 1/2 (1638)	64 1/2 (1638)	64 1/2 (1638)	64 1/2 (1638)
Length of electrical wireway 	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)
(C) RH End of case to LH end of wireway	40 1/2 (1029)	67 1/2 (1715)	90 1/8 (2289)	138 1/4 (3511)
Waste Outlets (<i>One each end</i>) 				
(D) RH End of case to the center of LH waste outlet	36 1/8 (918)	61 5/8 (1565)	84 1/4 (2140)	132 3/8 (3363)
RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	70 1/4 (1784)	70 1/4 (1784)	70 1/4 (1784)	70 1/4 (1784)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
Refrigeration Outlet 				
Back of case to center of front refrigeration outlet	64 7/8 (1646)	64 7/8 (1646)	64 7/8 (1646)	64 7/8 (1646)
Back of case to center of rear refrigeration outlet	15 3/4 (400)	15 3/4 (400)	15 3/4 (400)	15 3/4 (400)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)	8 (203)	8 (203)

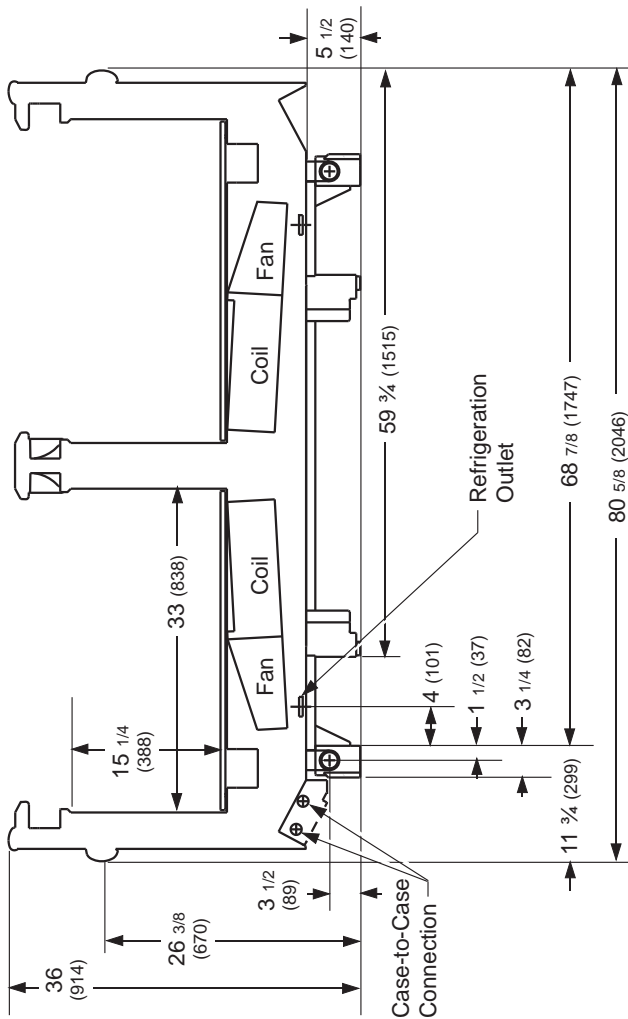
Wide Island Display with Solid Walls



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 inches & (mm).



Estimated Charge ***

4 ft	1.7 lb	27 oz	0.8 kg
6 ft	2.1 lb	34 oz	1.0 kg
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.

REFRIGERATION DATA**§

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

	MED	FF	IC
Discharge Air (°F)	+24	-12	-22
Evaporator (°F)	+19	-20	-30
Unit Sizing (°F)	+17	-23	-33

<i>Btu/hr/ft</i>	MED	FF	IC
PARALLEL	400	510	560
CONVENTIONAL	410	530	580

*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

	MED	FF	IC
Frequency (hr)	24	24	24
Defrost Water (lb/ft/day)	1.6	1.5	1.2

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

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

<i>GAS</i>	MED	FF	IC
Duration (minutes)	NA	15	18

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
IC	-27°F / -39°F

Indoor Unit Only, Pressure Defrost Termination**

Not Recommended

**Use a Temperature Pressure Chart to determine PSIG conversions.

Electrical Data

			4 ft	6 ft	8 ft	12 ft				
Number of Fans – 4W Evaporator			2	2	4	4				
			Amperes				Watts			
			4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
Evaporator Fans										
120V	60Hz	Energy Efficient	0.24	0.24	0.48	0.48	16	16	32	32
230V	60Hz	Energy Efficient	0.12	0.12	0.24	0.24	16	16	32	32
230V	60Hz	Export	0.15	0.15	0.30	0.30	24	24	48	48
230V	50Hz	Export	0.18	0.18	0.36	0.36	27	27	54	54
Anti-sweat Heaters (on fan circuit)										
120V	50/60Hz	Standard	0.67	1.00	1.33	2.00	80	120	160	240
230V	50/60Hz	Export	0.35	0.52	0.70	1.04	80	120	160	240
Minimum Circuit Ampacity										
120V	60Hz	Standard Energy Efficient	1.11	1.68	2.01	2.68				
230V	60Hz	Standard Energy Efficient	0.67	0.84	1.14	1.48				
230V	60Hz	Export	0.85	1.02	1.50	1.84				
230V	50Hz	Export	0.91	1.08	1.62	1.96				
Maximum Over Current Protection 120V			20	20	20	20				
Maximum Over Current Protection 230V			15	15	15	15				
208V Electric Defrost			8.75	13.07	15.38	23.07	1820	2720	3200	4800
230V Export Electric Defrost			7.91	11.83	13.91	20.87	1820	2720	3200	4800
120V Koolgas Defrost			2.50	2.67	3.33	6.66	300	320	400	800
208V Koolgas Defrost			1.06	1.54	1.92	3.84	220	320	400	800
230V Koolgas Defrost			1.17	1.70	2.12	4.25	270	400	488	977
Standard Lighting										
None										

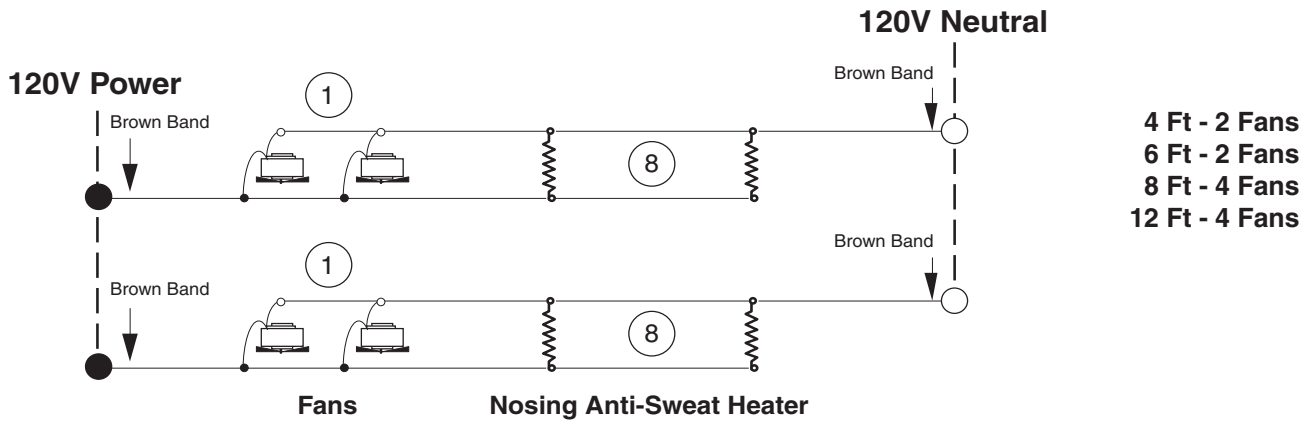
Product Data

<i>Recommended Usable Cube</i> ¹ (Cu Ft/Ft)	6.99 ft ³ /ft (0.65 m ³ /m)
<i>AHRI Total Display Area</i> ² (Sq Ft/Ft)	4.93 ft ² /ft (1.50 m ² /m)
<i>Shelf Area</i> ³ (Sq Ft/Ft)	5.50 ft ² /ft (1.68 m ² /m)

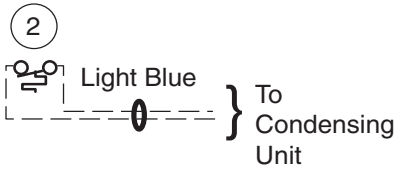
- ¹ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- ² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- ³ Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is NONE.

ESTIMATED SHIPPING WEIGHT ⁵					
Case	<i>4 ft</i>	<i>6 ft</i>	<i>8 ft</i>	<i>12 ft</i>	Solid End
					<i>(each)</i>
lb (kg)	1000 (454)	1200 (544)	1400 (635)	1600 (726)	75 (34)
⁵ Actual weights will vary according to optional kits included.					

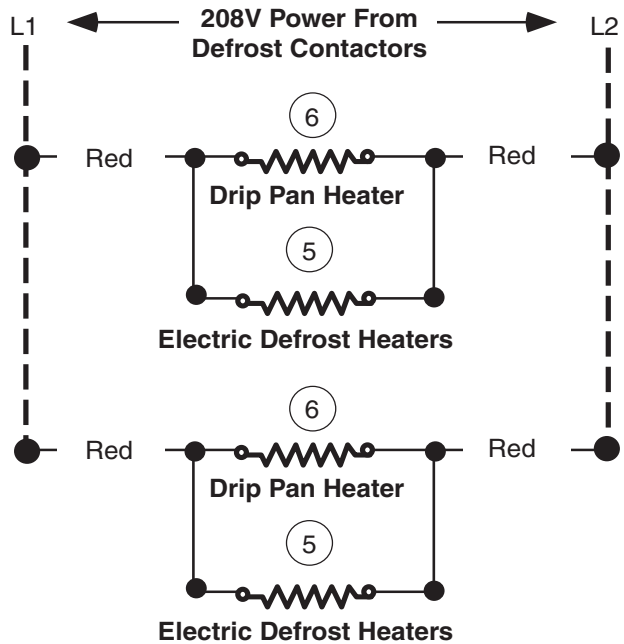
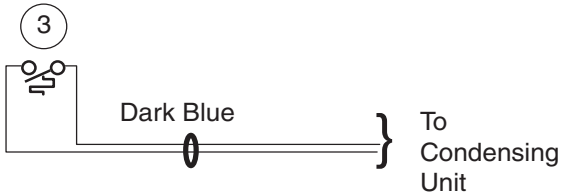
Electric Defrost – Standard



Refrigeration Thermostat (Optional)



Defrost Termination Thermostat



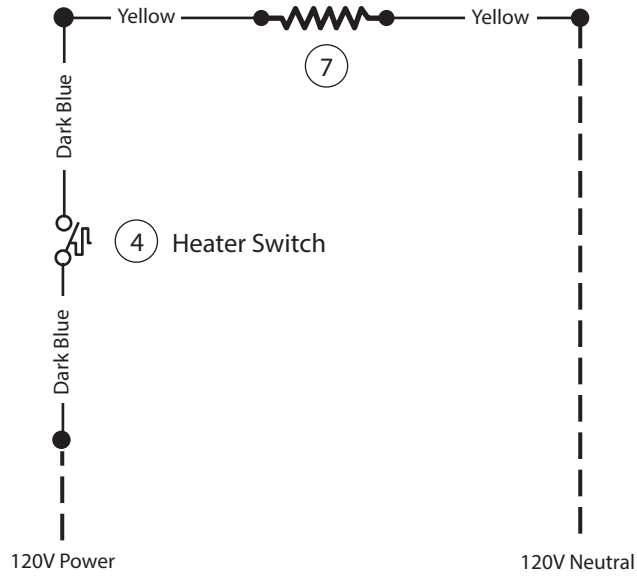
WARNING

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

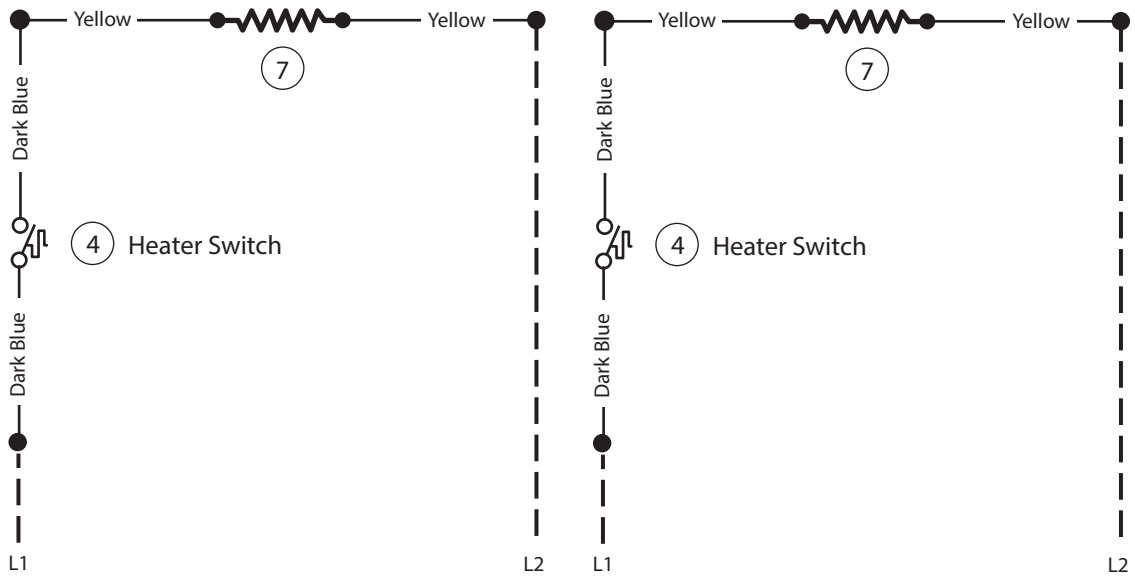
Circled Number = Parts List Item Numbers

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