

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 #
<b>FAN ASSEMBLIES, AND THERMOSTATS</b>				<b>HEATERS</b>			
A.	4W Standard Fan Assembly		(1)	E.	208V Evaporator Defrost Heaters		(5)
	0392457	Fan Motor, Evaporator (MO.4410101)			0465916	8 ft case (HE.4850630)	
	0382383	Fan Blade (FB.4780617)			0465915	12 ft case (HE.4850631)	
	4W Energy Efficient Fan Assembly		(1)	F.	208V Drip Pan Defrost Heaters, Electric		(6)
	0477653	Fan Motor, Evaporator (MO.4410544)			0462160	8 ft case (HE.4850636)	
	0382383	Fan Blade (FB.4780617)			0444296	12 ft case (HE.4850572)	
B.	Optional Adj. Refrigeration Thermostat		(2)		120V Drip Pan Defrost Heaters, Koolgas		(7)
					0465907	8 ft case (HE.4850622)	
					0465908	12 ft case (HE.4850623)	
C.	0398557	Defrost Termination Thermostat (Electric Defrost only) (CT.4440611)	(3)	G.	Nosing Anti-sweat Heaters		(8)
					0495007	8 ft case (HE.4850685)	
					0495008	12 ft case (HE.4850686)	
D.	0481370	Heater Switch (Koolgas Defrost only) (CT.4440738)	(4)				

Note: Revision E adds medium temperature application.

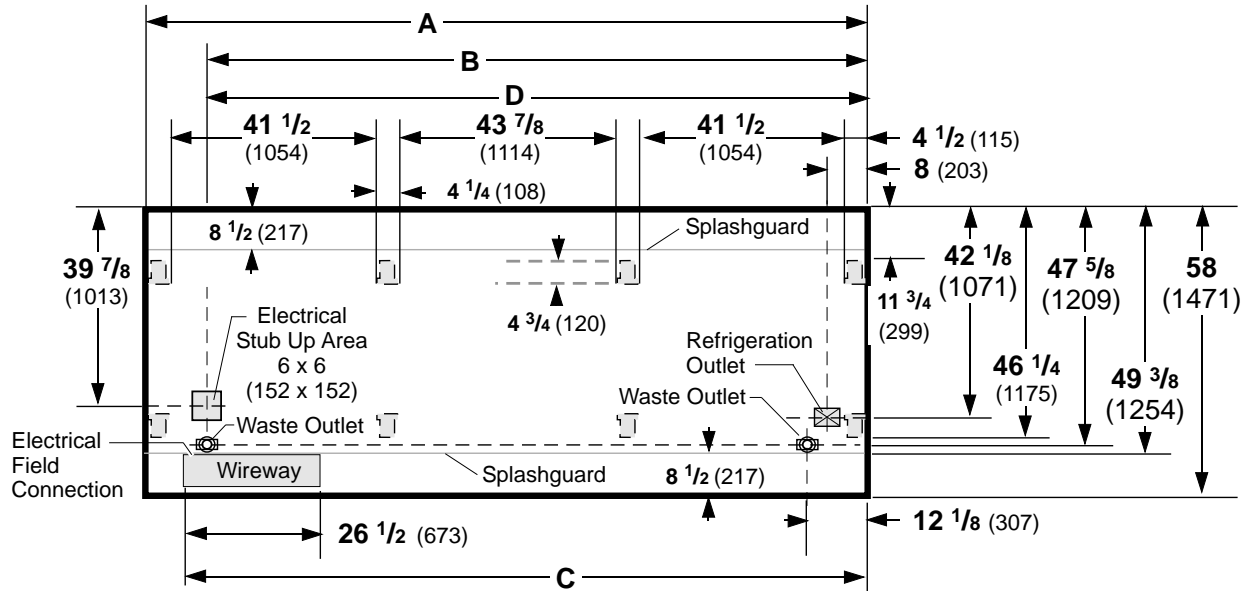
# Engineering Plan Views

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

## Frozen Food

10-2004

Dimensions shown as inches & (mm).



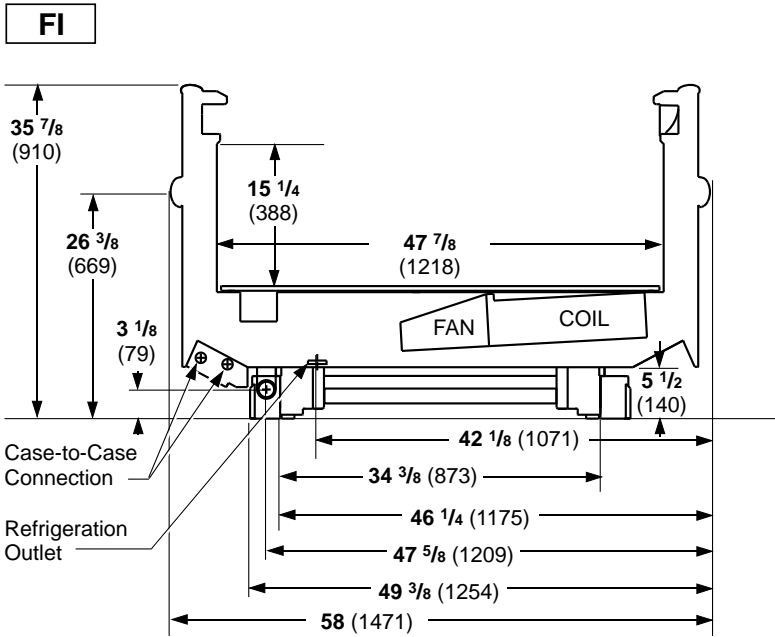
**NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.**

FRONT

	8 ft	12 ft
<b>General</b>		
<b>(A)</b> Case Length ( <i>without ends or partitions</i> ) (Each end and insulated partition adds 2 in. (51 mm) to case line up.)	96 3/8 (2448)	144 1/2 (3670)
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)
<b>Electrical Service</b> <input checked="" type="checkbox"/> ( <i>Electrical Field Wiring connection point</i> )		
<b>(B)</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)
<b>(C)</b> RH End of case to LH end of wireway	90 1/8 (2289)	138 1/4 (3511)
<b>Waste Outlets</b> ( <i>One each end</i> ) <input checked="" type="checkbox"/>		
<b>(D)</b> 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)
<b>Refrigeration Outlet</b> <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 Solid Walls

Dimensions shown as inches & (mm).



**NSF Certification**

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

**Impact Excel FI**  
**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
<b>Discharge Air (°F)</b>	+24	-12
<b>Evaporator(°F)</b>	+19	-20
<b>Unit Sizing (°F)</b>	+17	-23
<b>Btu/h/ft</b>	MED	FF
<b>Parallel</b>	325	480
<b>Conventional</b>	340	500

**DEFROST DATA**

	MED	FF
<b>Frequency (hr)</b>	24	24
<b>Defrost Water (lb/ft/day)</b>	0.8	0.8
<i>(± 15% based on case configuration and product loading).</i>		

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

<b>GAS</b>	MED	FF
<b>Duration (minutes)</b>	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 (lb)\*\***

8 ft	2.5
12 ft	3.7

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

**Length Added to Lineup by Each**

**End or Partition (in.)** 2

<b>Impact Excel FI</b> <b>Low / Medium Temperature</b>
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### Electrical Data

			8 ft	12 ft		
<b>Number of Fans – 4W Evaporator</b>			2	3		
			Amperes		Watts	
			8 ft	12 ft	8 ft	12 ft
<b>Evaporator Fans</b>						
120V	60Hz	Standard	0.62	0.93	48	72
120V	50Hz	Standard	0.76	1.14	54	81
230V	60Hz	Export	0.30	0.45	48	72
230V	50Hz	Export	0.36	0.54	54	81
120V	60Hz	Energy Efficient	0.24	0.36	16	24
230V	60Hz	Energy Efficient	0.12	0.18	16	24
<b>Anti-sweat Heaters (on fan circuit)</b>						
120V	50/60Hz	Standard	0.67	1.00	80	120
230V	50/60Hz	Export	0.35	0.52	80	120
<b>Minimum Circuit Ampacity</b>						
120V	60Hz	Standard	1.49	2.13		
120V	50Hz	Standard	1.63	2.34		
230V	60Hz	Export	0.85	1.17		
230V	50Hz	Export	0.91	1.26		
120V	60Hz	Energy Efficient	1.11	1.56		
230V	60Hz	Energy Efficient	0.67	0.90		
<b>Maximum Over Current Protection 120V</b>			20	20		
Maximum Over Current Protection 230V			15	15		
<b>208V Electric Defrost</b>			9.13	13.94	1900	2900
<b>230V Export Electric Defrost</b>			8.26	12.61	1900	2900
<b>120V Koolgas Defrost</b>			1.67	3.33	200	400
<b>Standard Lighting</b>						
None						

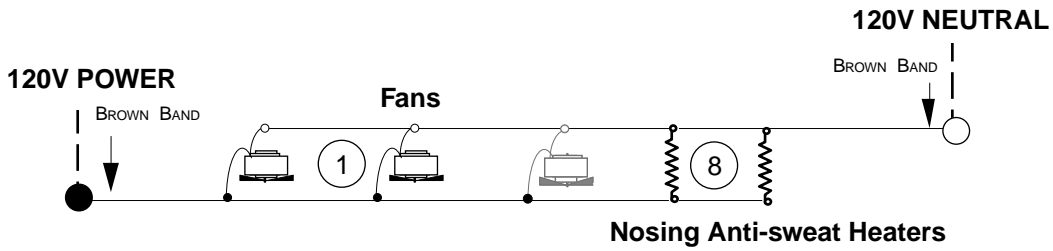
**Product Data**

<i>Recommended Usable Cube</i> <sup>1</sup> (Cu Ft/Ft)	5.09 ft <sup>3</sup> /ft (0.47 m <sup>3</sup> /m)
<i>ARI Total Display Area</i> <sup>2</sup> (Sq Ft/Ft)	3.99 ft <sup>2</sup> /ft (1.22 m <sup>2</sup> /m)
<i>Shelf Area</i> <sup>3</sup> (Sq Ft/Ft)	4.00 ft <sup>2</sup> /ft (1.22 m <sup>2</sup> /m)

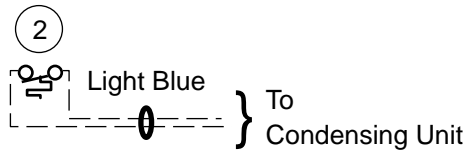
- <sup>1</sup> ARI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft<sup>3</sup>/ft [m<sup>3</sup>/m]
- <sup>2</sup> Computed using ARI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]
- <sup>3</sup> 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.

<b>ESTIMATED SHIPPING WEIGHT <sup>4</sup></b>					
<b>Case</b>	<i>4 ft</i>	<i>6 ft</i>	<i>8 ft</i>	<i>12 ft</i>	<b>Solid End</b>
					<i>(each)</i>
<b>lb (kg)</b>	600 (272)	800 (363)	1000 (454)	1200 (544)	50 (23)
<sup>4</sup> Actual weights will vary according to optional kits included.					

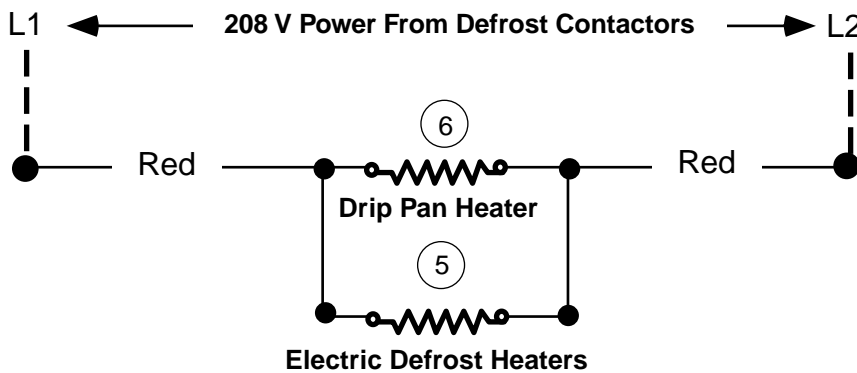
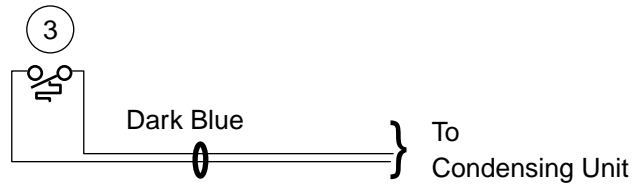
# Electric Defrost – Standard



## Refrigeration Thermostat (Optional)



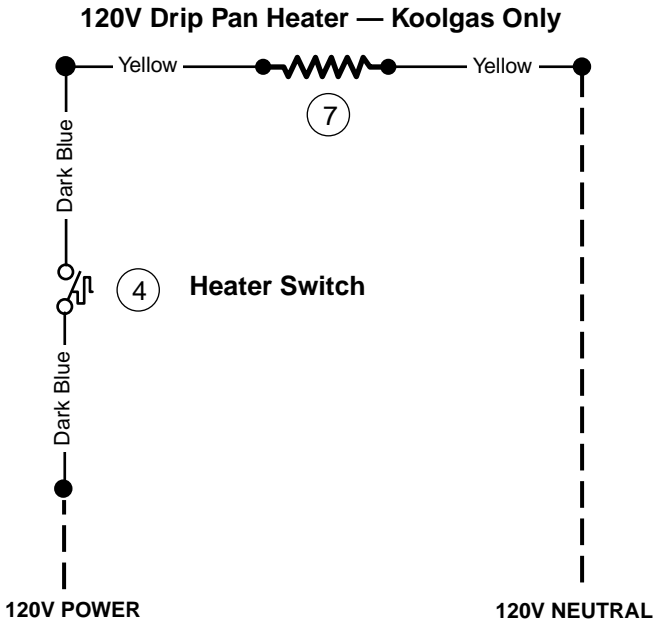
## Defrost Termination Thermostat



## WARNING

All components must have mechanical ground, and the merchandiser must be grounded.  
 Circled Numbers = Parts List Item Numbers  
 Grayed components in 12 foot models only.

# Gas Defrost – Optional



### WARNING

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