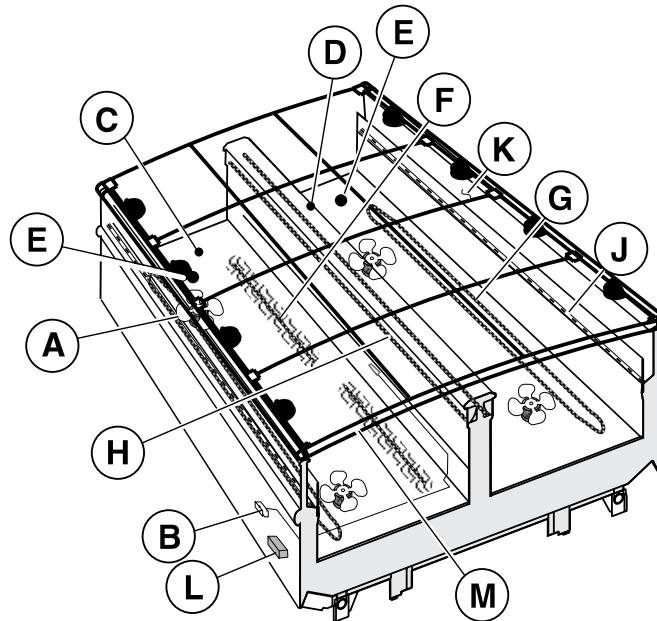


**DOE 2012**  
Energy Efficiency  
Compliant



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 #	Item	Part #	Description	Wiring Item #
<b>FAN ASSEMBLIES, AND THERMOSTATS</b>				<b>HEATERS (CONTINUED)</b>			
A.	4W Standard Energy Efficient Fan Assembly 0477653	Fan Motor, Evaporator (MO.4410544)	(1)		120V Drip Pan Defrost Heaters, Koolgas		(7)
	0521166	Fan Blade (FB.4780872)			4 ft case (HE.4850641)		
B.	Optional Adjustable Refrigeration Thermostat		(2)		6 ft case (HE.4850628)		
C.	0398557	Defrost Termination Thermostat (Front/Electric Defrost only) (CT.4440611)	(3)	H.	Discharge Nosing Anti-sweat Heaters		(8)
D.	0398558	Defrost Termination Thermostat (Rear/Electric Defrost only) (CT.4481088)	(3)		4 ft case (HE.4851259)		
E.	0481370	Heater Switch (Koolgas Defrost only) (CT.4440738)	(4)		6 ft case (HE.4851260)		
					8 ft case (HE.4851261)		
					12 ft case (HE.4851262)		
				J.	Return Grille Anti-sweat Heaters		(9)
					4 ft case (HE.4851249)		
					6 ft case (HE.4851250)		
					8 ft case (HE.4851251)		
					12 ft case (HE.4851253)		
				K.	Return Glass Anti-sweat Heaters		(10)
					4 ft case (GL.4978594)		
					6 ft case (GL.4977903)		
					8 ft case (GL.4987838)		
					12 ft case (GL.4987839)		
<b>HEATERS</b>					<b>GLASS LID PARTS ARE LISTED ON PAGE 5.</b>		
F.	208V Evaporator Defrost Heaters		(5)		<b>OPTIONAL LED FIXTURES AND POWER SUPPLY</b>		
	0481864	4 ft case (HE.4850637)		L.	0501213	Power Supply (EP.4481861)	(11)
	0444057	6 ft case (HE.4850620)		M.		LED Fixture	(12)
	0462159	8 ft case (HE.4850603)					
	0444058	12 ft case (HE.4850571)					
G.	208V Drip Pan Defrost Heaters, Electric		(6)				
	0481865	4 ft case (HE.4850638)					
	0444300	6 ft case (HE.4850609)					
	0462160	8 ft case (HE.4850636)					
	0444296	12 ft case (HE.4850572)					

Data sheet-Excel FWG-L

Note: Revision D added note on page 3.

**NOTE: For LED lighting parts contact your Hussmann service representative at 1-800-922-1919. Please have your model and serial number available. Descriptions including size and color are at [WWW.HUSSMANN.COM/SERVICEANDPARTS](http://WWW.HUSSMANN.COM/SERVICEANDPARTS).**

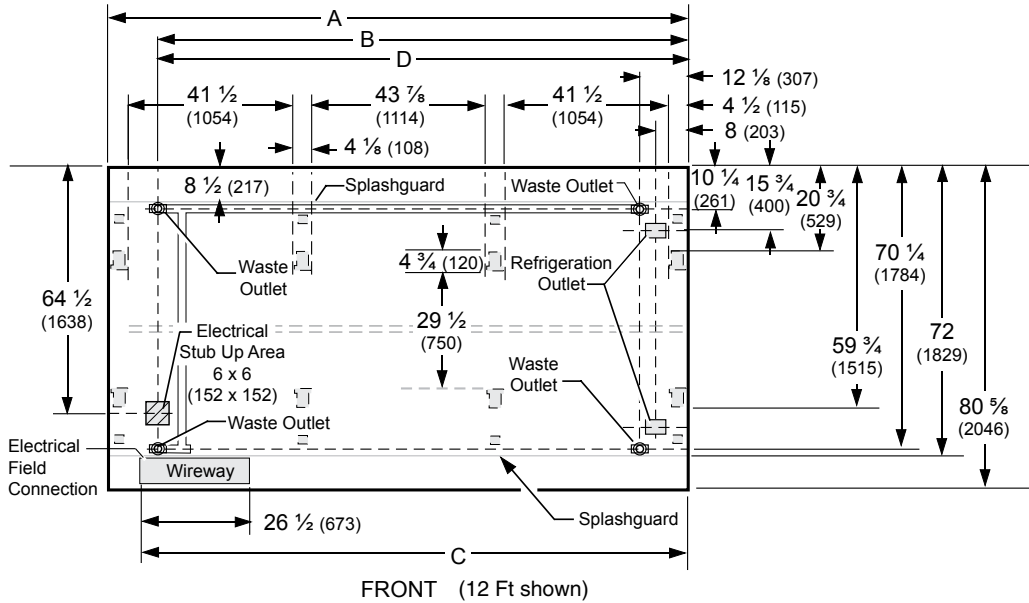
# Engineering Plan Views

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).

02-2012



	4 ft	6 ft	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.) Maximum O/S dimension of case back to front ( <i>includes bumper</i> )	48 1/4 (1226)	73 3/4 (1874)	96 3/8 (2448)	144 1/2 (3670)
Back of case to front of splashguard	80 5/8 (2046)	80 5/8 (2046)	80 5/8 (2046)	80 5/8 (2046)
Back of case to O/S edge of front leg	72 (1829)	72 (1829)	72 (1829)	72 (1829)
Distance between edges of external legs and center legs	59 3/4 (1515)	59 3/4 (1515)	59 3/4 (1515)	59 3/4 (1515)
Distance between edges of center legs	NA	30 1/4 (768)	41 1/2 (1054)	41 1/2 (1054)
Distance between front legs and splashguard	NA	NA	NA	43 7/8 (1114)
	12 3/8 (312)	12 3/8 (312)	12 3/8 (312)	12 3/8 (312)
<b>Electrical Service</b> ( <i>Electrical Field Wiring connection point</i> )				
<b>(B)</b> RH End of case to center of stub up area Back of case to center of stub up area Length of electrical wireway	36 1/8 (918) 64 1/2 (1638) 26 1/2 (673)	61 5/8 (1565) 64 1/2 (1638) 26 1/2 (673)	84 1/4 (2140) 64 1/2 (1638) 26 1/2 (673)	132 3/8 (3363) 64 1/2 (1638) 26 1/2 (673)
<b>(C)</b> 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)
<b>Waste Outlets</b> ( <i>One each end</i> )				
<b>(D)</b> RH End of case to the center of LH waste outlet RH End of case to the center of RH waste outlet Back O/S of case to center of waste outlets Schedule 40 PVC drip pipe	36 1/8 (918) 12 1/8 (307) 70 1/4 (1784) 1 1/4 (32)	61 5/8 (1565) 12 1/8 (307) 70 1/4 (1784) 1 1/4 (32)	84 1/4 (2140) 12 1/8 (307) 70 1/4 (1784) 1 1/4 (32)	132 3/8 (3363) 12 1/8 (307) 70 1/4 (1784) 1 1/4 (32)
<b>Refrigeration Outlet</b>				
Back of case to center of front refrigeration outlet Back of case to center of rear refrigeration outlet RH end of case to center of refrigeration outlet	64 7/8 (1646) 15 3/4 (400) 8 (203)	64 7/8 (1646) 15 3/4 (400) 8 (203)	64 7/8 (1646) 15 3/4 (400) 8 (203)	64 7/8 (1646) 15 3/4 (400) 8 (203)

# Wide Island Display with Glass Walls and Lids



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 FWG-L**  
**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	IC
<b>Discharge Air (°F)</b>	+32	-10	-16
<b>Evaporator (°F)</b>	+25	-18	-24
<b>Unit Sizing (°F)</b>	+23	-21	-27

<b>Btu/hr/ft *</b>	MED	FF	IC
<b>PARALLEL</b>	220	200	270
<b>CONVENTIONAL</b>	225	270	280

\* Add 3 Btu/hr/ft for LED lighting.

\*\*Dual temperature operation kits are not suitable for ice cream temperature applications.

**DEFROST DATA**

	MED	FF	IC
<b>Frequency (hr)</b>	24	24	24
<b>Defrost Water (lb/ft/day)</b>	0.6	0.6	0.5

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

<b>ELECTRIC</b>	MED	FF	IC
<b>Temp Term (°F)</b>	48	48	48
<b>Failsafe (minutes)</b>	30	50	60

<b>GAS</b>	MED	FF	IC
<b>Duration (minutes)</b>	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	+28°F / +16°F
FF	-15°F / -27°F
IC	-21°F / -33°F

**Indoor Unit Only, Pressure Defrost Termination\*\*\***

Not Recommended

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

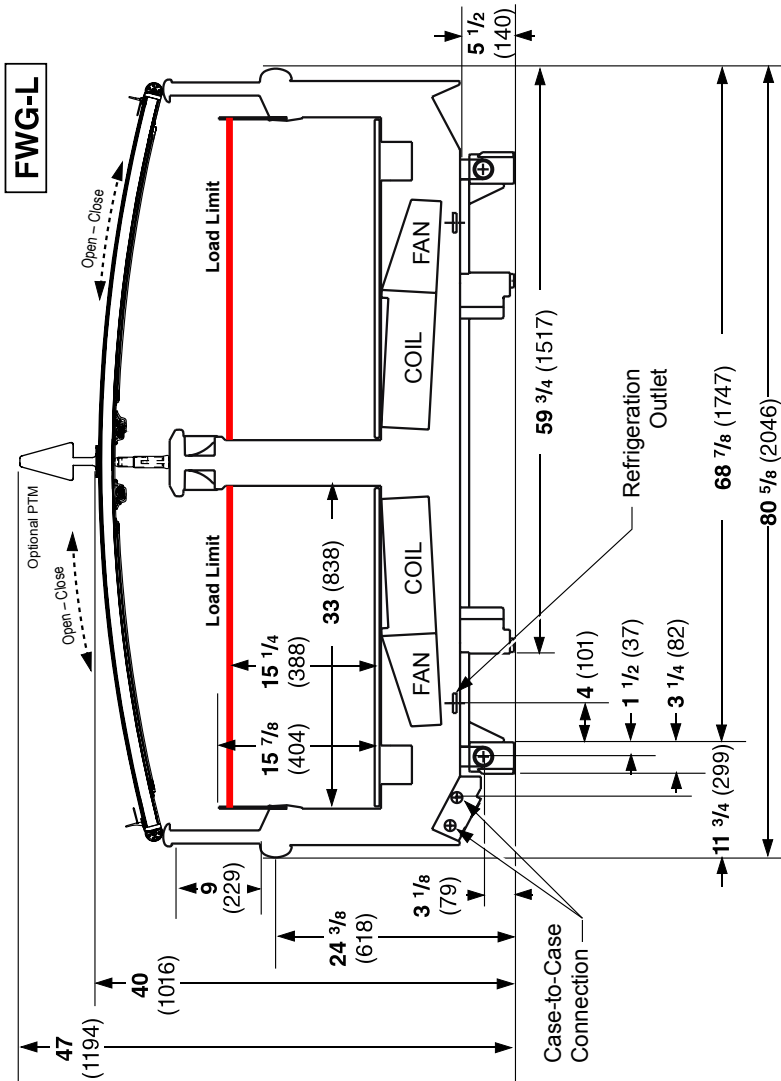
**Estimated Charge \*\*\*\***

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).

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.

<b>Excel FWG-L</b> <b>Low / Medium Temperature</b>
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**Electrical Data**

			4 ft	6 ft	8 ft	12 ft				
<b>Number of Fans – 4W Evaporator</b>			2	2	4	4				
			Amperes				Watts			
			4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
<b>Evaporator Fans</b>										
120V	50/60Hz	Standard Energy Efficient	0.24	0.24	0.48	0.48	16	16	32	32
230V	50/60Hz	Standard Energy Efficient	0.12	0.12	0.24	0.24	16	16	32	32
230V	60Hz	Export	0.30	0.30	0.60	0.60	48	48	96	96
230V	50Hz	Export	0.36	0.36	0.72	0.72	54	54	108	108
<b>Anti-sweat Heaters (on fan circuit)</b>										
120V	50/60Hz	Standard	0.62	0.92	1.22	1.84	74	110	144	218
230V	50/60Hz	Export	0.32	0.48	0.62	0.94	74	110	144	218
<b>Minimum Circuit Ampacity</b>										
120V	50/60Hz	Standard Energy Efficient	1.06	1.36	1.90	2.52				
230V	50/60Hz	Standard Energy Efficient	0.64	0.80	1.06	1.38				
230V	60Hz	Export	0.82	0.98	1.42	1.74				
230V	50Hz	Export	0.88	1.04	1.54	1.86				
<b>Maximum Over Current Protection 120V</b>			<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>				
<b>Maximum Over Current Protection 230V</b>			15	15	15	15				
<b>Return Glass Anti-sweat Heaters</b>										
120V	50/60Hz	Standard	0.08	0.13	0.16	0.22	10	15	18	26
230V	50/60Hz	Export	0.04	0.07	0.08	0.12	10	15	18	26
<b>208V Electric Defrost</b>			8.75	13.07	15.38	23.07	1820	2720	3200	4800
<b>230V Export Electric Defrost</b>			7.91	11.83	13.91	20.87	1820	2720	3200	4800
<b>120V Koolgas Defrost</b>			2.50	2.67	3.33	6.66	300	320	400	800
<b>Standard Lighting</b>										
None										
<b>Optional Lighting</b>										
LED	120V	50/60Hz	0.42	0.56	0.70	0.98	50	67	84	118
LED	230V	50/60Hz	0.22	0.29	0.36	0.51	50	67	84	118

**Product Data**

<b>Recommended Usable Cube</b> <sup>1</sup> (Cu Ft/Ft)	7.28 ft <sup>3</sup> /ft (0.68 m <sup>3</sup> /m)
<b>AHRI Total Display Area</b> <sup>2</sup> (Sq Ft/Ft)	5.98 ft <sup>2</sup> /ft (1.82 m <sup>2</sup> /m)
<b>Shelf Area</b> <sup>3</sup> (Sq Ft/Ft)	5.50 ft <sup>2</sup> /ft (1.68 m <sup>2</sup> /m)

- <sup>1</sup> AHRI 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 AHRI 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.

**ESTIMATED SHIPPING WEIGHT** <sup>4</sup>

Case	4 ft	6 ft	8 ft	12 ft	Solid End (each)
<b>lb (kg)</b>	1103 (501)	1340 (609)	1590 (722)	1880 (855)	75 (34)

<sup>4</sup> Actual weights will vary according to optional kits included.

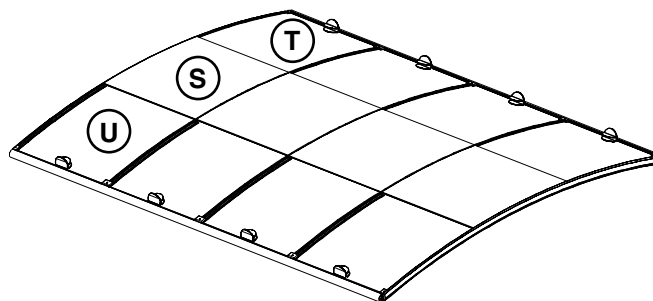
**Glass Lid Replacement Parts**

**FW4GL, FW8GL, FW12GL GLASS ASSEMBLIES**

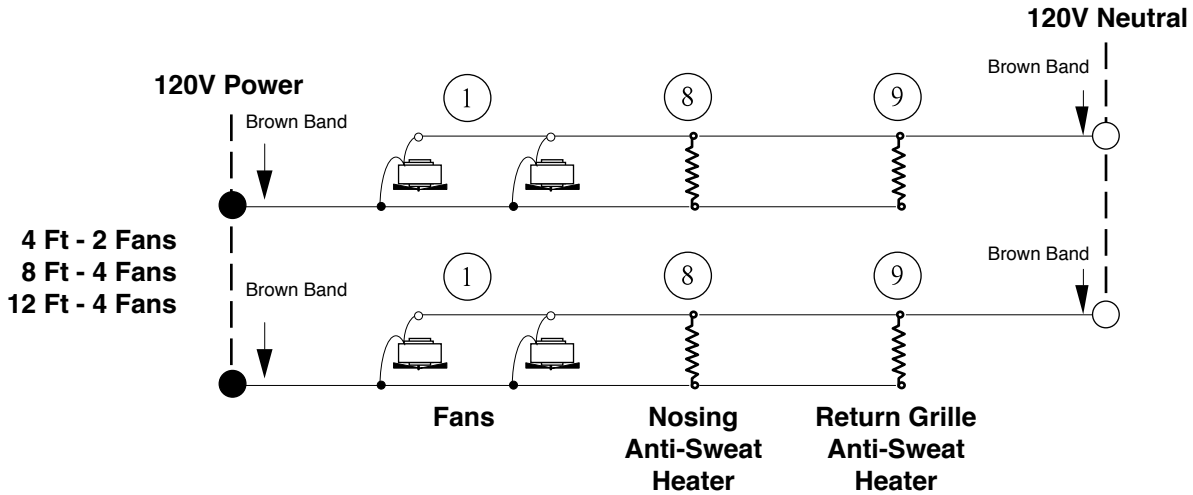
- S. 0524247 Top Glass - Fixed B00156 (GL.4998357)
- T. 0524248 Middle Glass with Handle B00157 (GL.4998358)
- U. 0524249 Bottom Glass with Handle B00158 (GL.4998359)

**FW6GL GLASS ASSEMBLIES**

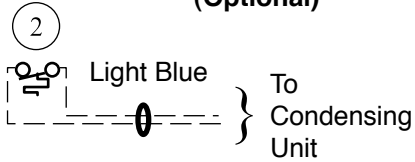
- S. 0524253 Top Glass - Fixed B00162 (GL.4998360)
- T. 0524254 Middle Glass with Handle B00163 (GL.4998361)
- U. 0524255 Bottom Glass with Handle B00164 (GL.4998362)



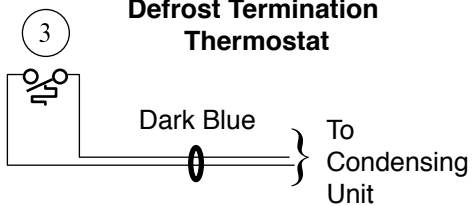
# Electric Defrost – Standard



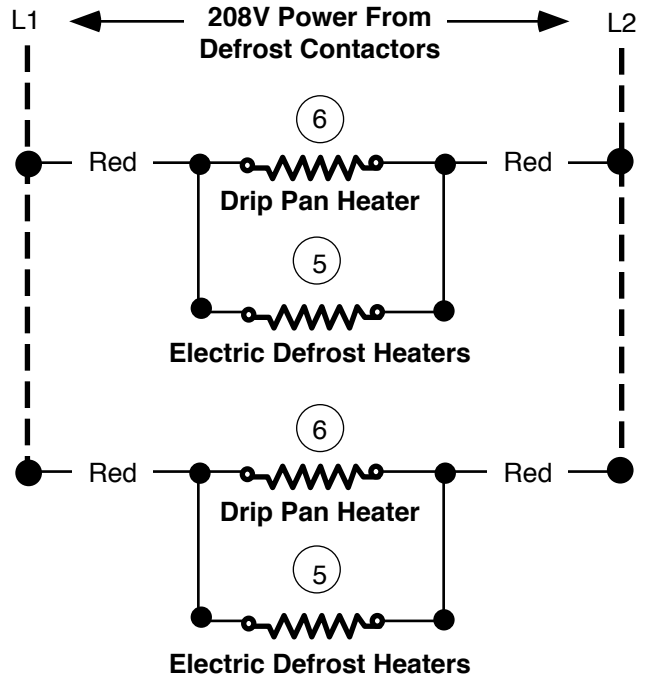
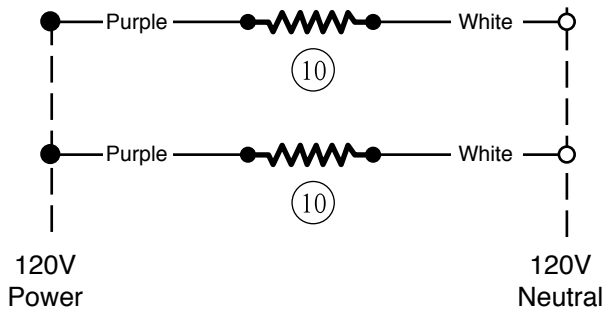
## Refrigeration Thermostat (Optional)



## Defrost Termination Thermostat



## Return Glass Anti-Sweat Heater

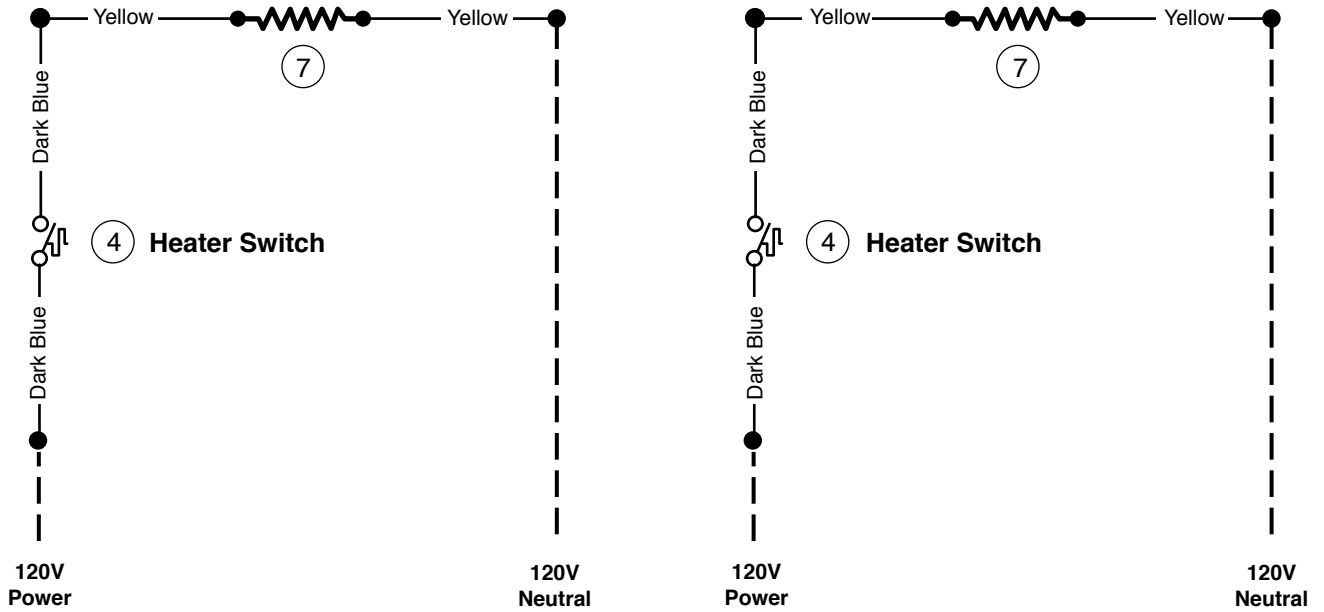


## WARNING

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



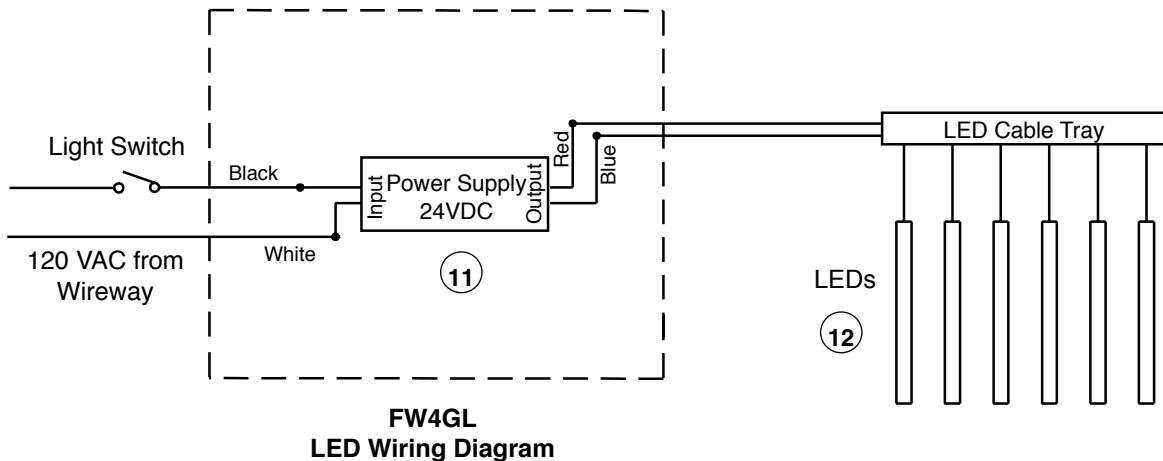
### WARNING

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

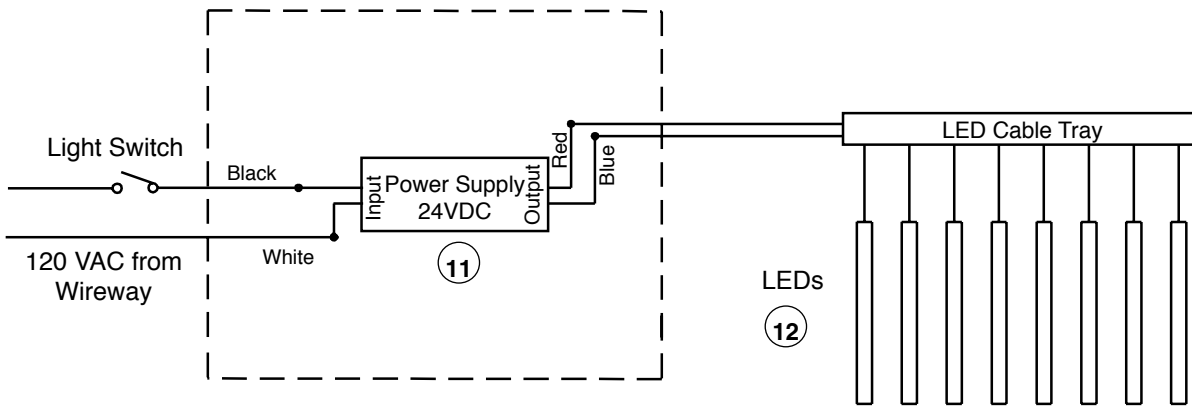
Circled Number = Parts List Item Numbers

Grayed components in 12 foot models only.

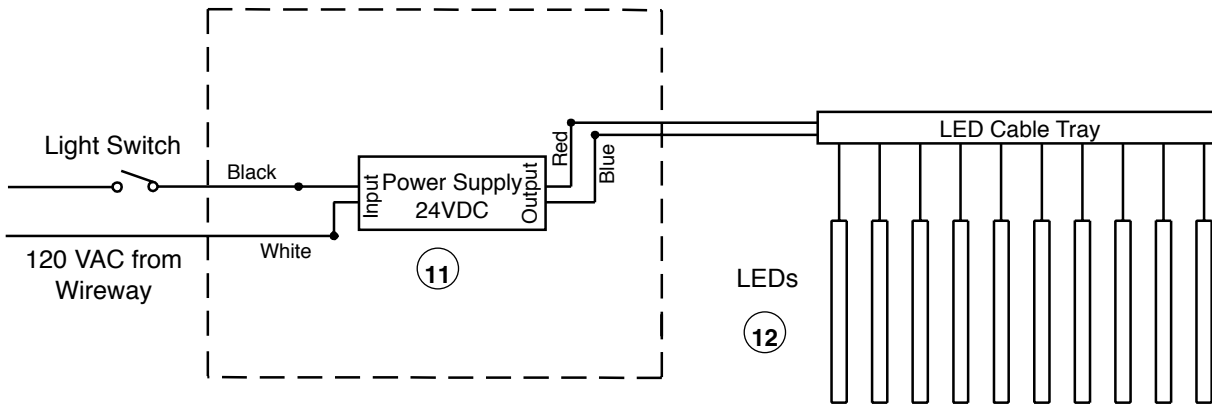
## Optional LED Lighting Wiring Diagrams



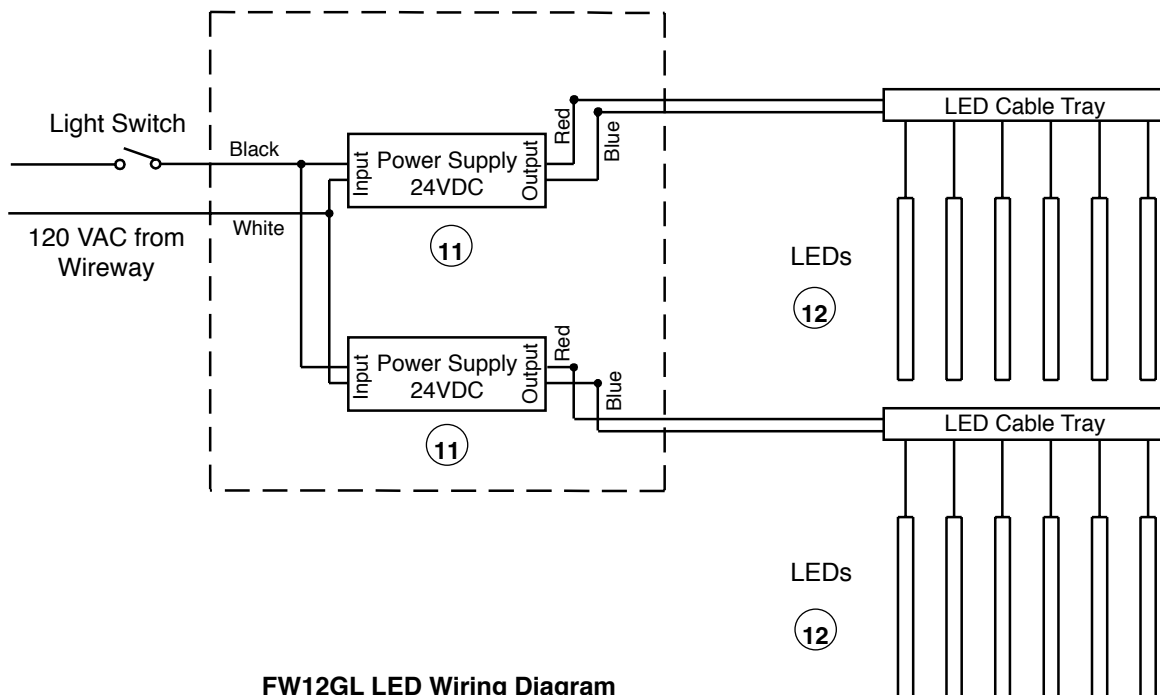
# Optional LED Lighting Wiring Diagrams



**FW6GL  
LED Wiring Diagram**



**FW8GL  
LED Wiring Diagram**



**FW12GL LED Wiring Diagram**