

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>LED FIXTURES AND POWER SUPPLY</b>			
A.	12W Fan Assembly		(1)	F.	0501213	Power Supply	(6)
	0047000	Fan Motor, Evaporator		G.		LED Canopy Fixture	(7)
	0124150	Fan Blade, embossing toward motor				<i>Replace with like fixtures</i>	
B.	0411744	Standard Non-adjustable Defrost Thermostat	(2)	H.		LED Shelf Fixture	(8)
						<i>Replace with like fixtures</i>	
C.	Optional Adjustable Refrigeration Thermostat		(3)	<b>OTHER</b>			
				J.	0464718	Hot Well Assembly	(9)
<b>LAMPS AND BALLASTS</b>				<i>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 <a href="http://WWW.HUSSMANN.COM/SERVICEANDPARTS">WWW.HUSSMANN.COM/SERVICEANDPARTS</a>.</i>			
D.	0466234	Ballast, Electronic 2 lamps	(4)				
E.		Fluorescent Lamp	(5)				
		<i>Replace with like fixtures</i>					

Note: Revision D adds optional EcoShine II LED lighting, pages 1, 4, 8, & 9. Other changes marked by bar, underline or circle.

# Engineering Plan Views

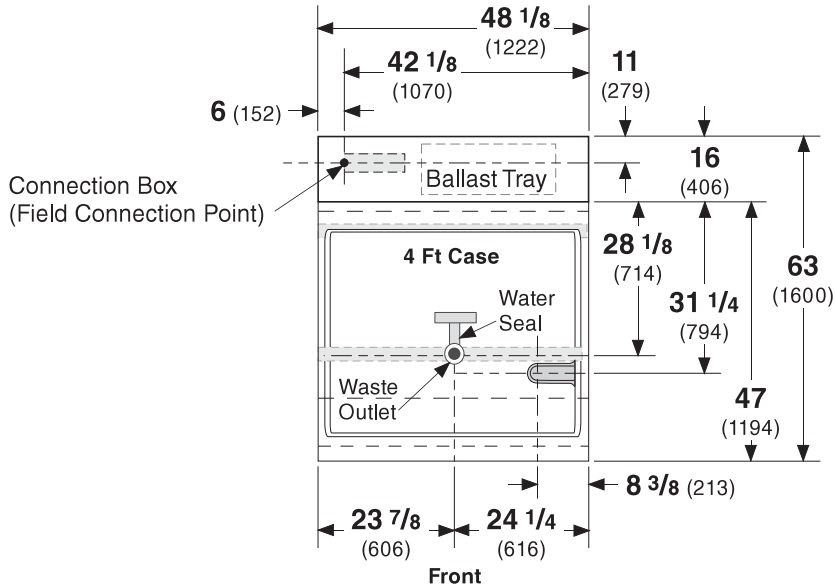
Dimensions shown as inches and (mm).





PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/2
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	7/8

**E2SPH**  
**Meat, Delicatessen**  
**Precut & Packaged**  
**Produce**

—  
**with 2 Hot Wells**

10-2005



	4 ft
<b>General</b>	
Case Length ( <i>without ends or partitions</i> )	48 1/8 (1222)
<i>NOTE: Each end or insulated partition adds 1 inch to lineup.</i>	
Maximum O/S dimension back to front ( <i>with bumper</i> )	63 (1600)
Back of case to front of front panel	35 (889)
Back of case to O/S edge of front skid rail	29 3/4 (756)
Width of skid rail	4 1/2 (114)
RH end of case to outside edge of external support	1 3/8 (35)
Stub-up area between front skid rail and front panel	5 3/4 (146)
<b>Electrical Service</b>  ( <i>Electrical Field Wiring connection point</i> )	
RH End of case to LH end of connection box	42 1/8 (1070)
Back of storage to connection box, center of knockout	11 (279)
<b>Waste Outlet</b> 	
RH End of case to the center of waste outlet	24 1/4 (616)
LH End of case to the center of waste outlet	23 7/8 (606)
Back O/S of case to center of waste outlet	28 1/8 (714)
<b>Water Seal</b> 	
Edge of water seal to center of waste outlet	4 (102)
Schedule 40 diameter of the drip pipe	1 1/2 (38)
<i>NOTE: Water seal outlet must clear front skid rail; water seal rotation in forward direction only due to low base.</i>	
<b>Refrigeration Outlet</b> 	
Back of case to center of refrigeration outlet	31 1/4 (794)
RH end of case to center of refrigeration outlet	8 3/8 (213)



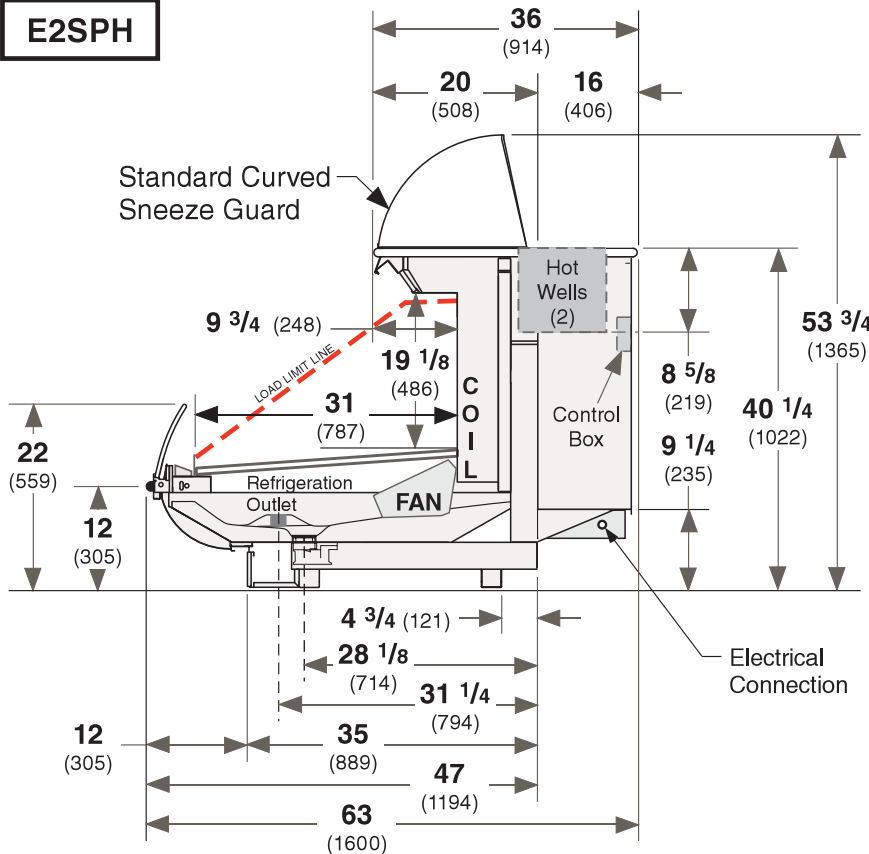
Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2012 energy efficiency standards.

**Elite E2SPH**  
Meat, Delicatessen  
Precut & Packaged Produce

Dimensions shown as inches and (mm).

See Page 11 for recommended shelf configuration.

**E2SPH**



**REFRIGERATION DATA**

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

	E2SPH	
	Meat	Deli
Discharge Air (°F)	25	28
Evaporator (°F)	18	21
Unit Sizing (°F)	16	19

Btu/hr/ft — Unlit Shelves <sup>‡</sup>	E2SPH	
	Meat	Deli
Parallel	900	890
Conventional	1000	980

<sup>‡</sup> Add 20 Btu/hr/ft per shelf row for fluorescent lamps. Add 10 Btu/hr/ft per shelf row for LED lamps.

**DEFROST DATA**

	E2SPH
Frequency (hr)	6
Defrost Water (lb/ft/day)	8

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

	E2SPH
Temp Term (°F)	48
Failsafe (minutes)	40

ELECTRIC OR GAS Not Recommended

Standard Defrost Thermostat  
Close on rise: close 48°F – open 33°F

**CONVENTIONAL CONTROLS**

C/CO*	E2SPH	
	Meat	Deli
Temp (°F)	11 / 6	14 / 4

Indoor Unit Only, Pressure Defrost Termination (Temp °F)\*\* 48°F

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

Estimated Charge **	E2SPH	
	4 ft	0.9 lb 14 oz

\*\*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.

**Elite E2SPH**

Meat, Delicatessen

Precut &amp; Packaged Produce

**Electrical Data**

			<b>4 ft</b>	
<b>Number of Fans — 12W</b>			<b>1</b>	
			<b>Amperes</b>	<b>Watts</b>
<b>Merchandiser</b>			<b>4 ft</b>	<b>4 ft</b>
<b>Fans</b>				
120V	60Hz	Standard	0.65	50
120V	50Hz	Standard	0.75	57
230V	60Hz	Export	NA	
230V	50Hz	Export	NA	
120V	60Hz	Energy Efficient	NA	
230V	60Hz	Energy Efficient	NA	
<b>Cycling Anti-sweat Heaters</b>			NA	
<b>Minimum Circuit Ampacity</b>				
120V	60Hz	Standard	0.85	
120V	50Hz	Standard	0.95	
230V	60Hz	Export	NA	
230V	50Hz	Export	NA	
120V	60Hz	Energy Efficient	NA	
230V	60Hz	Energy Efficient	NA	
<b>Maximum Over Current Protection (120V)</b>			<b>20</b>	
Maximum Over Current Protection (230V)			15	
<b>Hot Wells</b>				
208V	60 Hz	One Hot Well	5.8	1200
240V	60 Hz	One Hot Well	6.7	1600
208V	60 Hz	Two Hot Wells	11.6	2400
240V	60 Hz	Two Hot Wells	13.4	3200
<b>Standard Lighting (T-8 fluorescent)</b>				
1 Row Canopy			0.51	62
<b>ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLIANT WITH THE U.S. DEPT. OF ENERGY (DOE) 2012 REGULATION ARE AVAILABLE FOR SALE FOR USE IN THE U.S.A.</b>				
<b>Optional Lighting (T-8 fluorescent)</b>				
1 Row Rail Lights			0.51	62
1 Row Ledge Lights			0.51	62
<b>Optional Shelf Lighting (T-8 fluorescent)</b>				
1 Row of Shelves			0.51	62
2 Rows of Shelves			0.51	62
<b>Optional Overhead Lighting</b>				
1 Row of Incandescent Lamps (2 lamps)			1.26	150
1 Row of Heat Lamps (2 lamps)			2.92	350

(CONTINUED ON PAGE 5)

**Product Data**

<i>Recommended Usable Cube</i> <sup>1</sup> (Cu Ft/Ft)	2.19 ft <sup>3</sup> /ft (0.20 m <sup>3</sup> /m)
<i>AHRI Total Display Area</i> <sup>2</sup> (Sq Ft/Ft)	2.66 ft <sup>2</sup> /ft (0.81 m <sup>2</sup> /m)
<i>Shelf Area</i> <sup>3</sup> (Sq Ft/Ft)	4.08 ft <sup>2</sup> /ft (1.24 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 (1) row of 12-inch shelves and (1) row of 18-inch shelves.

<b>ESTIMATED SHIPPING WEIGHT</b> <sup>4</sup>		
<b>Case</b>	<b>4 ft</b>	<b>Solid End</b>
		<b>(each)</b>
<b>lb (kg)</b>	700 (318)	75 (34)
<sup>4</sup> Actual weights will vary according to optional kits included.		

**Electrical Data (CONCLUDED)**

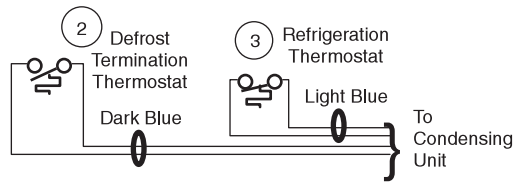
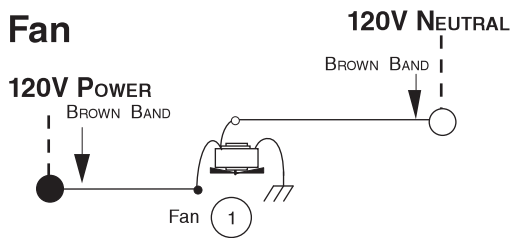
<b>Merchandise</b>	<b>Amperes</b> <b>4 ft</b>	<b>Watts</b> <b>4 ft</b>
<b>Ecoshine II Canopy</b>		
Ecoshine II	0.26	30.8
Ecoshine II Plus	0.23	27.8
Ecoshine II Plus HO	0.28	34.0
<b>Ecoshine II Plus Rail Light</b> —1 Row	0.09	10.2
<b>Ecoshine II Plus Shelves</b>		
1 Row of Shelves	0.09	10.2
2 Rows of Shelves	0.17	20.5

120V LED Lighting Circuit Total = Canopy Lighting + Shelf Lighting + Optional Rail Lighting

120V Lighting Circuit Total = Std. Lighting + Total Optional Lighting + Opt. Shelf Lighting + Opt. Overhead Lighting

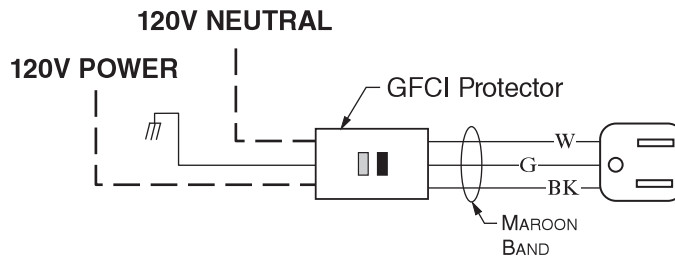
# Fan Wiring Offtime Defrost

## 1 Fan



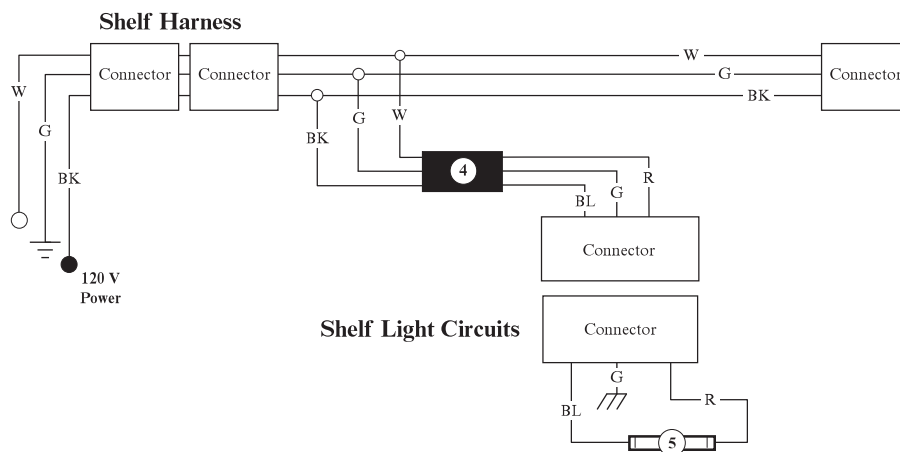
# Receptacle

## Electric Service Receptacle



# Shelf Lighting

## Optional Shelf Harness and Light Circuits for One Row of Shelves



### WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

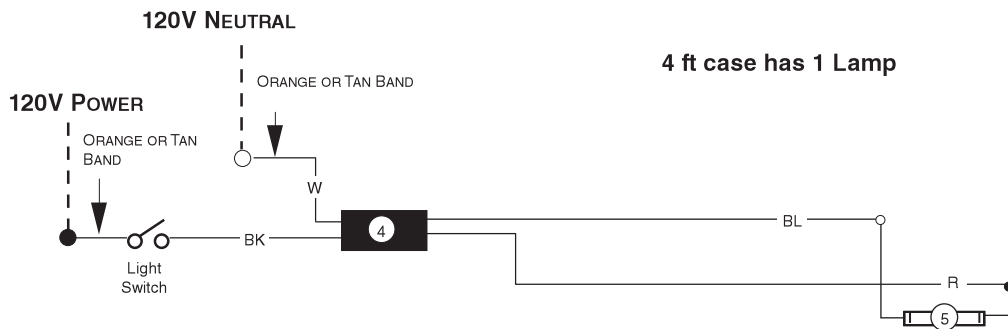
Grayed components in 12 foot models only

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

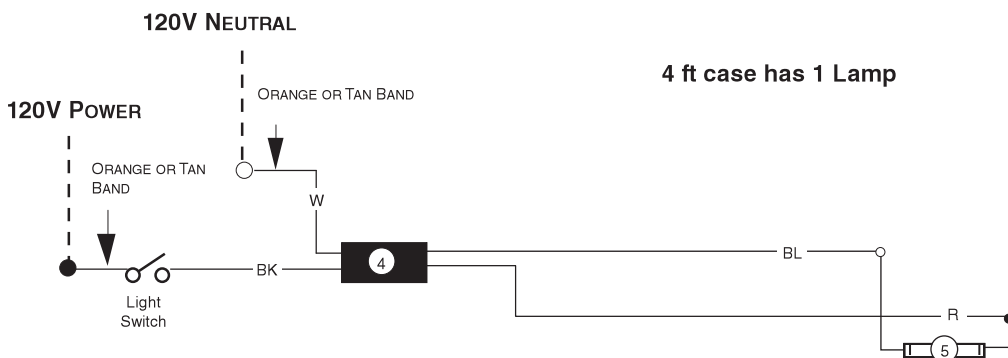
● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

# Light Circuits

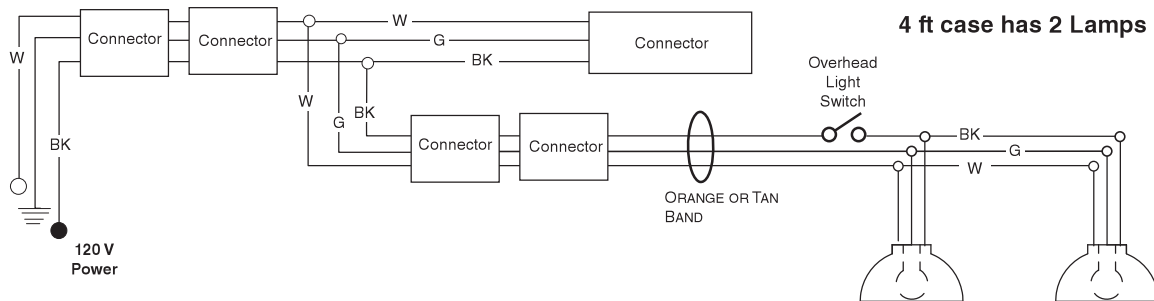
## Standard Lighting 1 Row Canopy



## Optional Lighting: 1 Row Ledge or 1 Row Rail



## Optional Lighting: Overhead 75W Incandescent or 175W Heat Lamp



### WARNING

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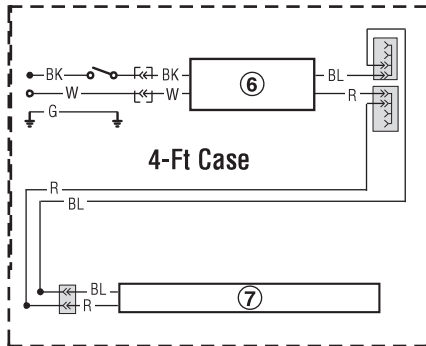
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL

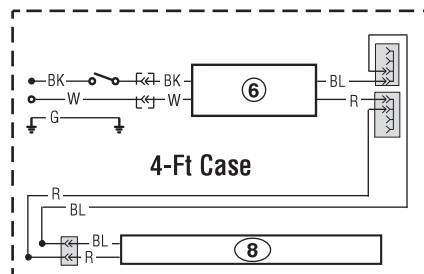
# Elite E2SPH

Meat, Delicatessen  
Precut & Packaged Produce

## EcoShine II LED Canopy Lighting — 1 Row



## EcoShine II LED Rail Lighting — 1 Row



### WARNING

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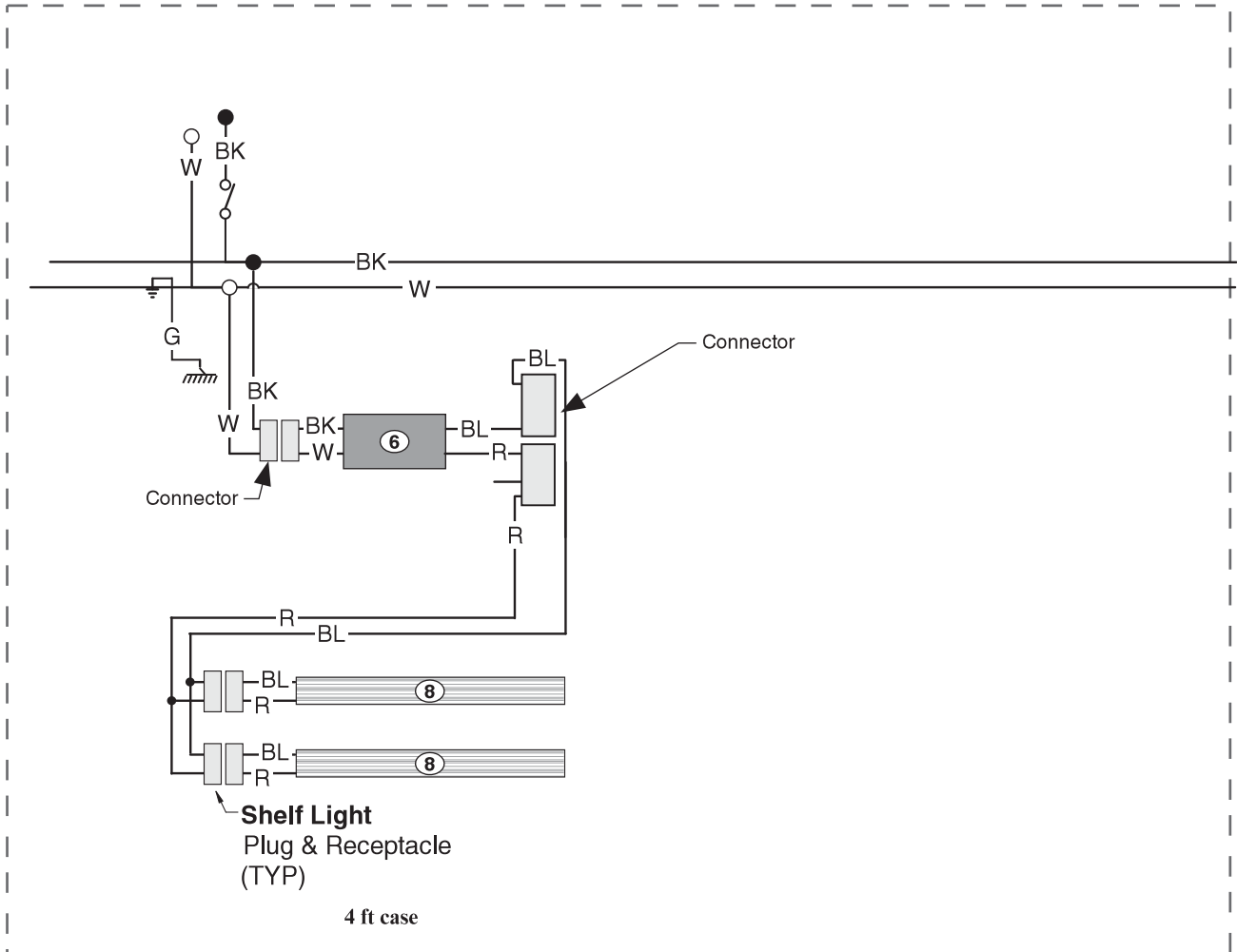
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⚡ = FIELD GROUND  $\overline{\overline{\overline{\quad}}}$  = CASE GROUND



**Optional Shelf Harness and LED Light Circuits for Two Rows of Shelves**



**WARNING**

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

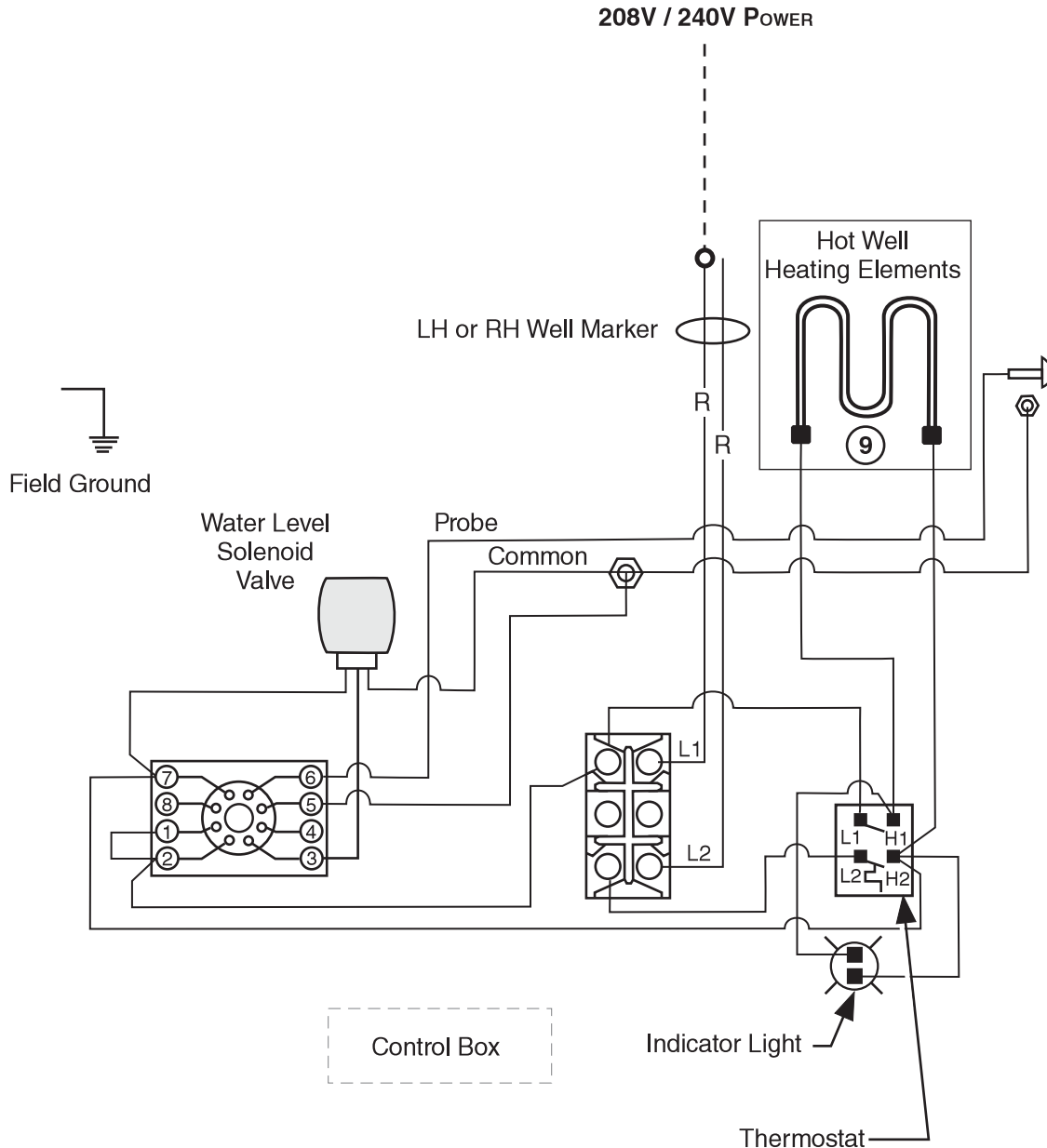
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red      G = Green      BL = Blue      BK = Black      W = White

● = 120V POWER      ○ = 120V NEUTRAL      ⚡ = FIELD GROUND      mm = CASE GROUND

# Hot Well Wiring

4 ft case has 2 Hot Wells



Notes: 1. Hot Wells must be grounded.

## WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER

⏏ = Case Ground

○ = 208V POWER

○ = 120V NEUTRAL

≡ = Field Ground

## SHELF CONFIGURATION

This merchandiser is designed for two shelves.

This illustration shows recommended shelf depth and shelf angle for the two locations.

It is critical to case performance that no product, shelf or stop extend beyond the load limit, as shown in this illustration. This configuration supports the air curtain and provides optimal case performance.

Check with Hussmann engineering before using a different configuration.

