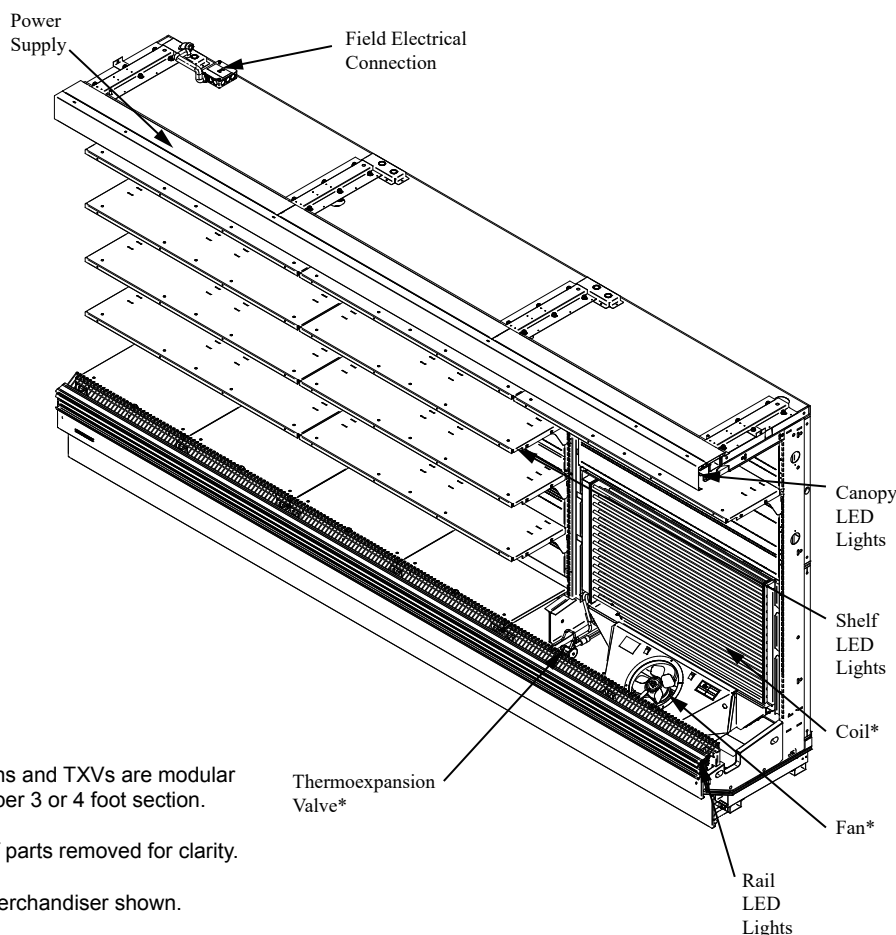


Standard field electrical connections are at the top left of the merchandiser



*Coils, fans and TXVs are modular with one per 3 or 4 foot section.

Portion of parts removed for clarity.

12 foot merchandiser shown.

NSF Certification

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

DOE 2017
Energy Efficiency
Compliant



Intertek



Intertek

IMPORTANT

**ONE FLOOR DRAIN IS
RECOMMENDED FOR EACH CASE.**

Performance Data	Page 2	Estimated Shipping Weights	Page 6
Product Data (AHRI Statistics)	Page 2	Shelf Options	Page 6
Cross Section	Page 3	Wiring Diagrams	Page 7
Plan View	Page 4	QR Code for Parts and Product Information	Page 10
Electrical & Lighting	Page 5	Revision History	Page 10

Data sheet-S-Series S5N

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.

S-Series S5N
Dairy / Deli / Beverage /
Produce / Meat

Refrigeration Data ¹

S5N		Optimal Shelf Life			Energy Comparison
Application		Dairy/Deli/ Beverage/ Produce	Convertible/ Meat ³	NSF Type 2 Ambient ^{3,6}	AHRI 1200 Rating Point ⁴
Unlit Shelves	Discharge Air °F (°C)	33 (0.6)	32 (0)	33 (0.6)	36 (1.2)
	Average Evaporator °F (°C) ²	28 (-2.2)	26 (-3.3)	24 (-4.4)	30 (-1.1)
Lit Shelves	Discharge Air °F (°C)	33 (0.6)	31 (-0.6)	32 (0)	36 (2.2)
	Average Evaporator °F (°C) ²	27 (-2.8)	25 (-3.9)	23 (-5.0)	30 (-1.1)
Refrigeration Load	Parallel Btu/hr/ft (Watts/m) ⁵	1450 (1394)	1469 (1412)	1698 (1633)	1450 (1394)
	Conventional Btu/hr/ft (Watts/m) ⁵	1535 (1476)	1555 (1495)	1825 (1755)	1535 (1476)

Notes:

1. All data based on store temperature and humidity that does not exceed NSF Type 1 ambient conditions of 75°F and 55% relative humidity, except where noted.
2. 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.
3. Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
4. AHRI 1200 Rating Point for energy consumption comparison only.
5. Add 10 Btu/hr/ft (9.6 Watts/m) per shelf row for LED shelf light fixtures.
6. Reduce refrigeration load by 15%, if fitted with CaseShieldPTM.

Defrost Data

Applications	Type 1	Type 2
Frequency (hours between defrost)	6	6
Defrost Water ⁷	7.2 lb/ft/day (10.7 kg/m)	8.1 lb/ft/day (12.1 kg/m)
⁷ (± 15% based on case configuration and product loading).		
OFFTIME		
Time (minutes)	20	25
ELECTRIC OR GAS	Not Available	

Conventional Controls

Low Pressure Backup Control CI/CO ⁸
19°F / 9°F
-7.2°C / -12.8°C

Indoor Unit Only, Pressure Defrost Termination ⁸
48°F (8.9°C)

⁸ Use a Temperature Pressure Chart to determine PSIG conversions.

Estimated Charge ⁹

4 ft	1.9 lb	30 oz	0.9 kg
6 ft	2.8 lb	45 oz	1.3 kg
8 ft	3.7 lb	59 oz	1.7 kg
12 ft	5.1 lb	82 oz	2.3 kg

⁹ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Gross Refrigerated Volume ¹⁰ (Cu Ft/Ft)	4.8 ft ³ /ft (0.45 m ³ /m)
AHRI Total Display Area ¹¹ (Sq Ft/Ft)	4.3 ft ² /ft (1.31 m ² /m)
Shelf Area ¹² (Sq Ft/Ft)	5.2 ft ² /ft (1.58 m ² /m)

¹⁰ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹¹ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

¹² Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (4) rows of 12 in. shelves distributed evenly.

S-Series S5N
Dairy / Deli / Beverage /
Produce / Meat

Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

Shelf complement shown as tested.
Four rows of 12 inch shelves spaced
equally between bottom display pan
and interior top panel.

S5N

S5N

3 in. (76 mm) Required Air Gap

4 1/2 (114)

25 3/8 (645)

12 (305)

12 (305) Shelf

52 3/4 (1340)

14 1/8 (359)

51 1/2 (1308)

15 3/4 (400)

14 3/4 (375)

12 3/8 (314)

4 1/4 (108)

10 1/2 (267)

16 1/8 (410)

20 7/8 (530)

22 1/2 (572)

26 1/4 (667)

71 3/4 (1822)

WALL

COIL

FANS

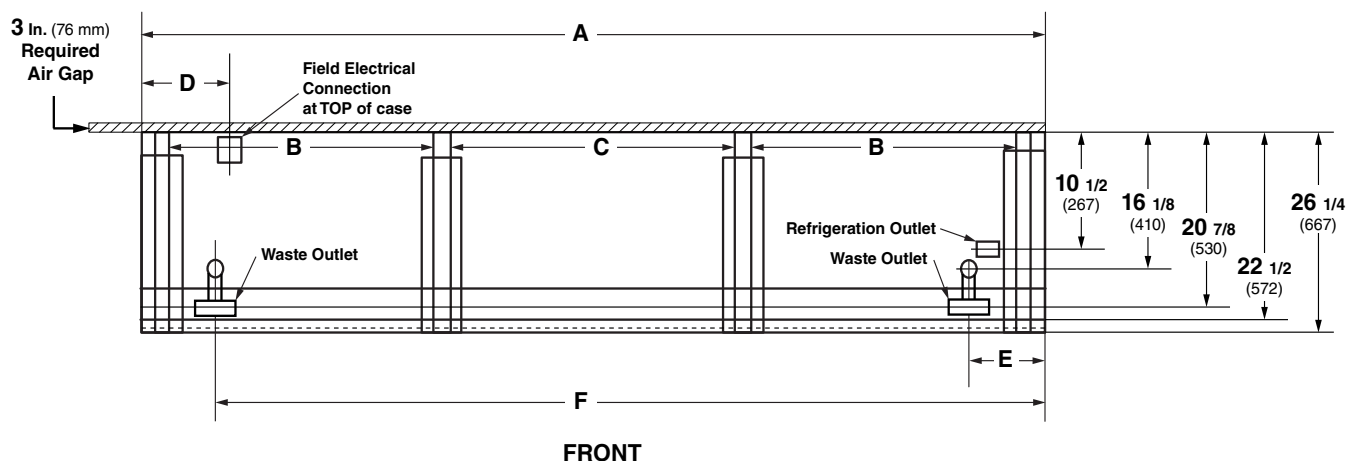
Drain

Refrigeration Outlet

Waste Outlet

LOAD LIMIT LINE

Dimensions shown as in. and (mm).



(12 Foot Model shown above)

	4 ft	6 ft	8 ft	12 ft
General				
(A) Case Length (without ends or partitions) (Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)	48 3/8 (1229)	72 3/8 (1838)	96 3/8 (2448)	144 1/2 (3670)
Maximum O/S dimension of case back to front (includes bumper)	26 1/4 (667)	26 1/4 (667)	26 1/4 (667)	26 1/4 (667)
(B) Distance between edges of external legs and center legs	NA	29 (737)	41 1/2 (1054)	41 1/2 (1054)
(C) Distance between edges of center legs	43 3/4 (111)	NA	NA	43 3/4 (111)
Electrical Service (Field Electrical Wiring Connection)				
(D) LH End of case to center of Field Electrical Wiring Connection (top of case)	14 3/8 (365)	14 3/8 (365)	14 3/8 (365)	14 3/8 (365)
Back of case to center of Field Electrical Wiring Connection	3 1/4 (651)	3 1/4 (651)	3 1/4 (651)	3 1/4 (651)
Waste Outlets				
(E) RH End of case to the center of right waste outlet	12 (305)	12 (305)	12 (305)	12 (305)
(F) RH End of case to the center of left waste outlet	36 1/4 (921)	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3362)
Back O/S of case to center of waste outlet(s)	20 7/8 (530)	20 7/8 (530)	20 7/8 (530)	20 7/8 (530)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
Refrigeration Outlet				
(G) Back of case to center of refrigeration outlet	16 1/8 (410)	16 1/8 (410)	16 1/8 (410)	16 1/8 (410)

Electrical Data

S-Series S5N
Dairy / Deli / Beverage /
Produce / Meat

Number of Fans (12W) 8.25-in.	4 ft	6 ft	8 ft	12 ft
	1	2	2	3

Evaporator Fan	Amperes				Watts			
	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V 50/60Hz Energy Efficient	0.39	0.77	0.77	1.16	28	56	56	84
230V 50/60Hz Energy Efficient	0.20	0.40	0.40	0.69	28	56	56	84

Minimum Circuit Ampacity (MCA)				
120V 50/60Hz Energy Efficient	0.59	0.97	0.97	1.36
230V 50/60Hz Energy Efficient	0.40	0.60	0.60	0.81

Maximum Over Current Protection (MOCP)				
120V	20	20	20	20
230V	15	15	15	15

Lighting

Only lighting configurations that are compliant with the U.S. Dept. of Energy (DOE) 2017 regulation are available for sale for use in the U.S.A.

	Amperes				Watts			
	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
LED LIGHTING								
ULTRA Canopy Lights								
1 Row Ultra	0.16	0.26	0.36	0.54	19	31	43	64
Canopy Lights								
1 Row	0.16	0.26	0.32	0.48	19	32	39	58
1 Row HO	0.22	0.33	0.44	0.66	27	40	53	79
Shelf								
1 Row of Shelves	0.08	0.12	0.16	0.25	10	14	20	30
4 Rows of Shelves	0.33	0.47	0.66	0.99	40	56	79	119
5 Rows of Shelves	0.41	0.59	0.82	1.24	49	71	99	148
Rail Light - 1 Row	0.08	0.12	0.16	0.25	10	14	20	30

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting
230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

S-Series S5N
Dairy / Deli / Beverage /
Produce / Meat

ENDS or PARTITIONS

Each standard end and each insulated partition adds 1 1/2 in. (38 mm) to case line up. Optional view end with end bumper adds 3 3/4 in. (95 mm).

PHYSICAL DATA

Merchandiser Drip Pipe (in.)	1 1/4
Schedule 40 PVC	
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	7/8

ESTIMATED SHIPPING WEIGHT †

Case	4 ft	6 ft	8 ft	12 ft	Solid End (each)
lb (kg)	430 (195)	775 (351)	900 (410)	1200 (544)	75 (34)

† Actual weights will vary according to optional kits included.

Shelf Options

Approved shelf sizes for standard (horizontal, 3 position brackets) displays:

10-inch (3 position)
 12-inch (horizontal only)

Contact engineering for non-standard (4 position brackets or other) display recommendations.

Minimum number of Shelves: 3

Optimal number of Shelves: 4

Maximum number of Shelves: 7

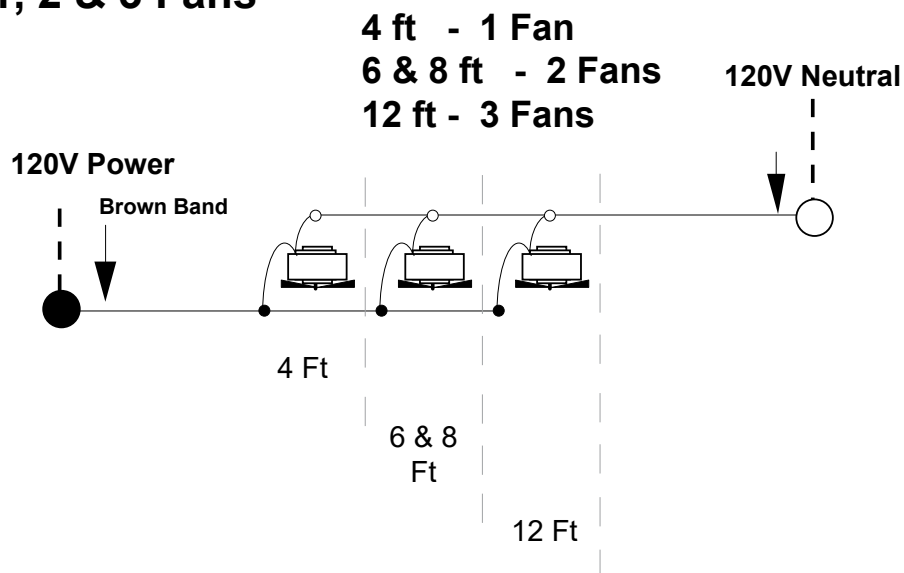
Maximum number of Lighted Shelves: 5

Standard shelf complement for test purposes: (4) rows of 12 inch shelves, evenly distributed vertically.

Fan Wiring Offtime Defrost

S-Series S5N
Dairy / Deli / Beverage /
Produce / Meat

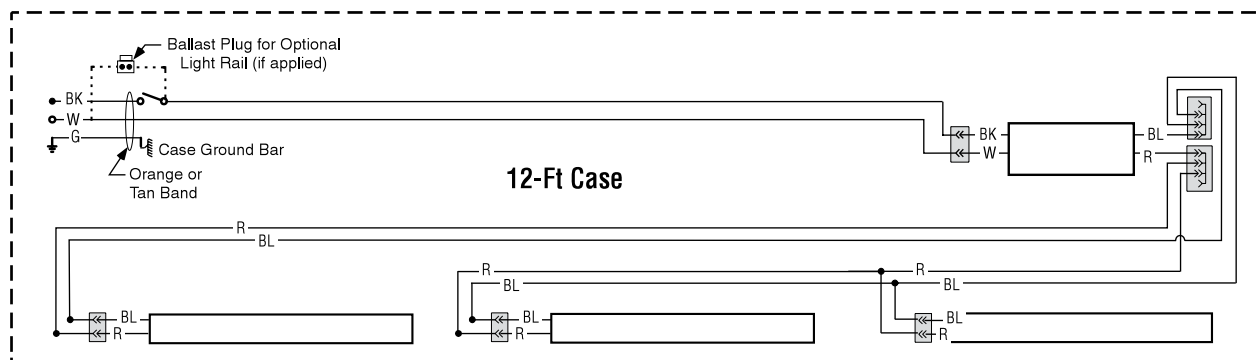
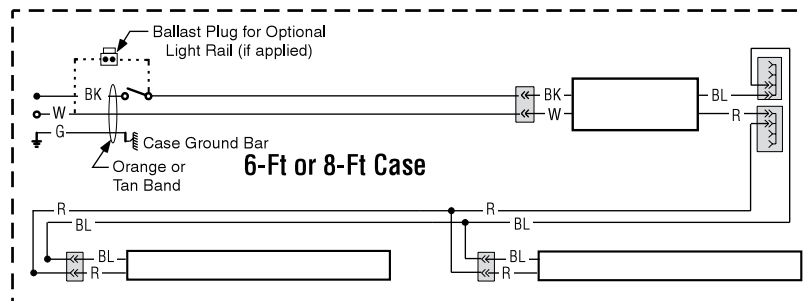
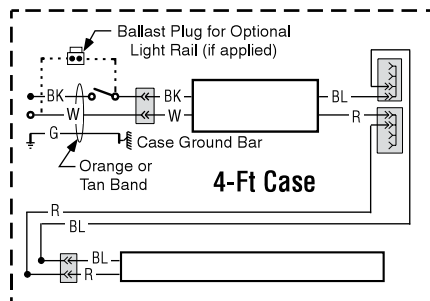
1, 2 & 3 Fans



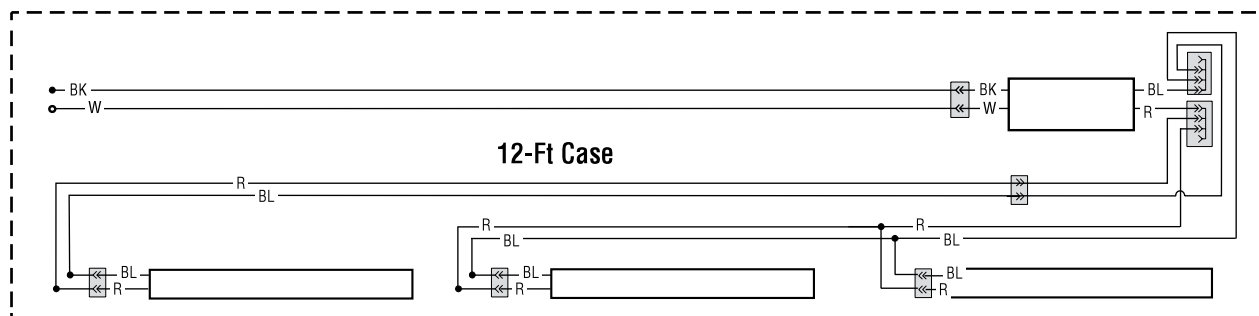
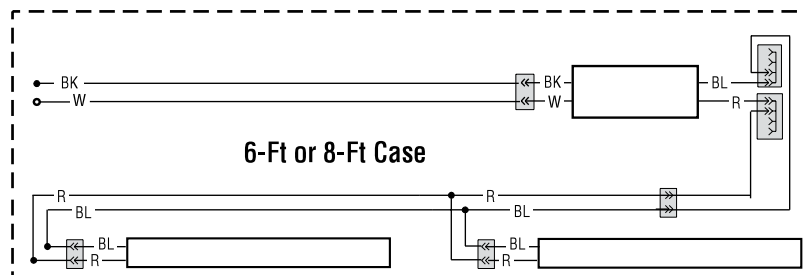
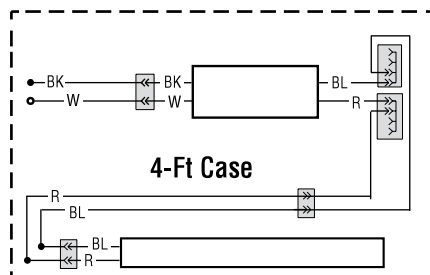
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Dairy / Deli / Beverage /
Produce / Meat

LED Canopy & Rail Light Circuits

LED Canopy Lighting — 1 Row



LED Rail Lighting — 1 Row



WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

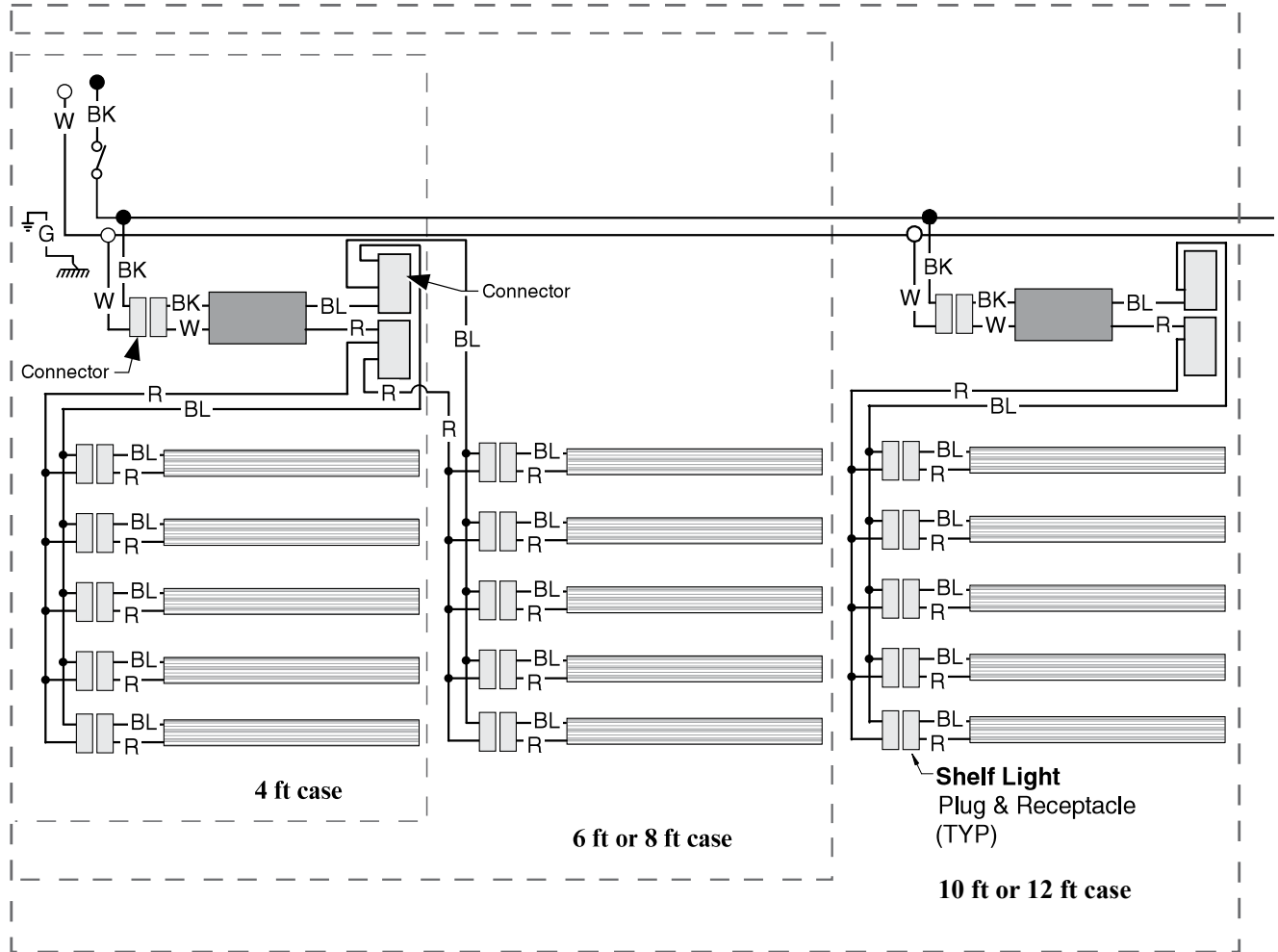
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL $\perp$ = FIELD GROUND $\parallel\parallel\parallel$ = CASE GROUND

Optional LED Shelf Lighting

S-Series S5N
Dairy / Deli / Beverage /
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Optional Shelf Harness and LED Light Circuits for 4 or 5 Rows of Shelves



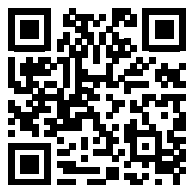
WARNING

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
 ● = 70V POWER ○ = 70V NEUTRAL ⚡ = FIELD GROUND mm = CASE GROUND

S-Series S5N
Dairy / Deli / Beverage /
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Scan the QR code with your mobile device to access additional product information or order parts.

Parts may also be ordered at:
parts.husmann.com
Call toll free: 1.855.487.7778

Revision History

Revision A: August 2020: Original Issue.

Revision B: August 2020: Updated cover image and cross section.