

Warning:
Terminal block NOT for
case-to-case
wire connection!

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 #	(Qty)	Description	Wiring Item #
FAN ASSEMBLIES, AND THERMOSTATS				HEATERS (CONTINUED)				
A.	12W Standard	Fan Assembly	(1)	I.	Drain Pan Heater — Electric & KoolGas	(120V)	(9)	
	MO.4410103	Fan Motor, Evaporator			HE.4850239	(1)	2 Door Models	
	FB.4780446	Fan Blade			HE.4850240	(1)	3 Door Models	
	12W Optional Energy Efficient	Fan Assembly	(1)		HE.4850241	(1)	4 Door Models	
	MO.4410546	Fan Motor, Evaporator			HE.4850242	(1)	5 Door Models	
	FB.4780446	Fan Blade		LED FIXTURES AND POWER SUPPLY				
B.	CT.4440726	Standard Non-adjustable Defrost Thermostat	(2)	J.	EP.4481668	Power Supply (EP.4481668)	(10)	
C.		Optional Adjustable Refrigeration Thermostat	(3)	K.	Door Lamp, LE			
D.	CT.4440261	Defrost Limit Thermostat	(4)		BU.4440875	3500K Center	(11)	
E.	CT.4481296	Relay Control Thermostat or Fan and Anti-sweat Heater Thermostat	(5)		BU.4440877	4100K Center	(11)	
RELAYS					BU.4440876	3500K End	(12)	
F.	RL.4480238	Anti-Sweat Control Relay (120V)	(6)		BU.4440878	4100K End	(12)	
G.		Fan Control Relay	(7)	L.	Facade Lamp, LED		(13)	
	RL.4480237	(208V) Electrical Defrost			BU.4441411	2900K 29.5 In. Length		
	RL.4480238	(120V) KoolGas Defrost			BU.4441412	2900K 30.5 In. Length		
HEATERS				M.	BU.4441413	Gooseneck Lamp	(14)	
H.		Electric Defrost Heaters – Front (208V)	(8)	N.	BU.4441414	Dry Goods Lamp, 3500K LED	(15)	
	HE.4850346	(1) 2 Door Models		(NOTE: Gooseneck Lamp and Dry Goods Lamp cannot be applied to same merchandiser.)				
	HE.4850337	(1) 3 Door Models			SH.4991645	KLU9600		
	HE.4850347	(1) 4 Door Models				Dry Goods Shelf, Lighted, Pearwood		
	HE.4850323	(1) 5 Door Models		Refer to INNOVATOR REACH-IN GLASS DOOR INSTALLATION AND SERVICE manual, P/N 0425683, for Innovator, and Innovator II door and frame replacement parts.				
		Electric Defrost Heaters — Rear (208V)	(8)					
	HE.4850358	(1) 2 Door Models						
	HE.4850359	(1) 3 Door Models						
	HE.4850360	(1) 4 Door Models						
	HE.4850361	(1) 5 Door Models						

NOTE: Revision B adds Btu Note on page 5, updates stocking height on page 4, and updates pages 1, 2, 3, 5, 7, 11 & 12. Changes are underlined, circled or marked with a vertical line in the margin.



Engineering Plan Views

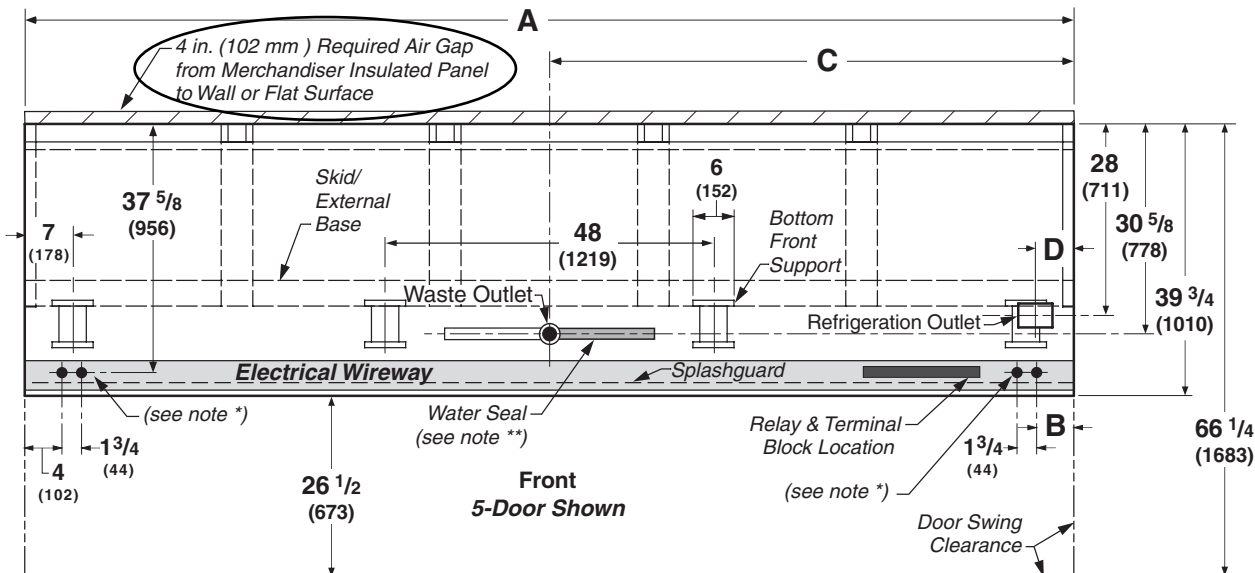
Reach-In
2, 3, 4 & 5 Door

LifeLine Premier RLN - RMN Plan View 05-2010

PHYSICAL DATA

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

Dimensions shown as inches and (mm).



Base 5-door merchandiser is shown above, without Bump Out, Dry Goods sections, Partitions or Ends.

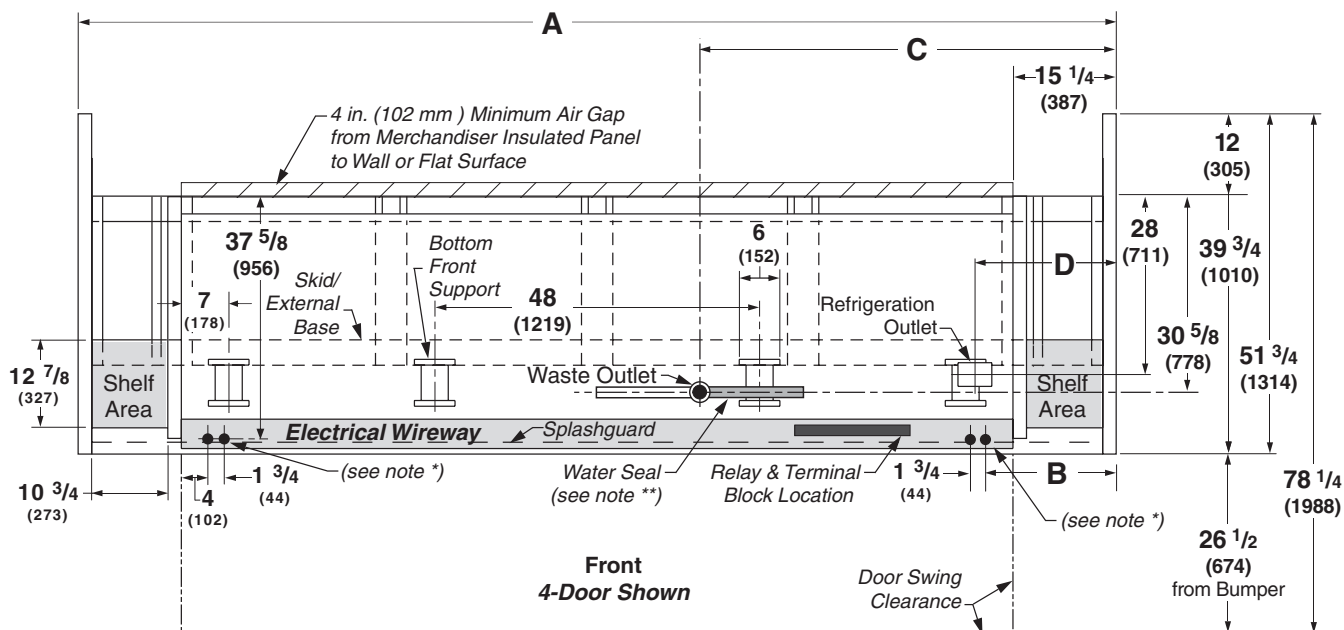
Illustrated below is a 4-door merchandiser with Dry Goods cabinets and Bump Out end partitions.

Refer to chart on Page 3 for detailed dimensional information on options.

LifeLine Premier — Dry Goods \ Bump Out Narrow Footprint Plan View

2, 3 & 4 Door

Dimensions shown as inches and (mm).



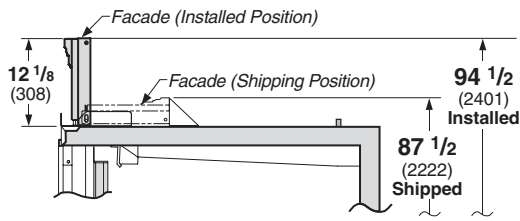
**Plan View Dimensions for
LifeLine Premier Options**

LifeLine Premier RLN
With INNOVATOR Doors
Frozen Food & Ice Cream

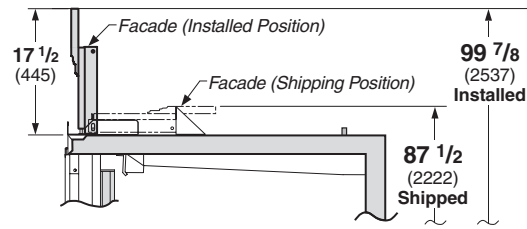
	2 Dr	3 Dr	4 Dr	5 Dr
Abbreviations: DG = Dry Goods section BO = Bump Out				
General				
(A) Merchandiser Length	62 (1575)	92 1/2 (2350)	122 7/8 (3121)	153 3/8 (3896)
(A) Merchandiser Length BO includes 2 bump-out ends	66 (1676)	96 1/2 (2451)	126 7/8 (3222)	157 3/8 (3997)
(A) Merchandiser Length DG includes 4 ends and dry goods cabinets	92 1/2 (2350)	123 (3124)	153 3/8 (3896)	NA
Maximum O/S dimension of merchandiser back to front ***	39 3/4 (1010)	39 3/4 (1010)	39 3/4 (1010)	39 3/4 (1010)
Maximum O/S dimension of merchandiser back to front BO ***	51 3/4 (1314)	51 3/4 (1314)	51 3/4 (1314)	51 3/4 (1314)
*** Includes bumper. Add 26 1/2 in. (673 mm) for door swing.				
Interior width of dry goods cabinet	10 3/4 (273)	10 3/4 (273)	10 3/4 (273)	NA
Interior depth of dry goods cabinet	12 7/8 (327)	12 7/8 (327)	12 7/8 (327)	NA
Back of merchandiser to rear of splashguard	35 7/8 (911)	35 7/8 (911)	35 7/8 (911)	35 7/8 (911)
Back of merchandiser to rear of splashguard BO	47 7/8 (1216)	47 7/8 (1216)	47 7/8 (1216)	47 7/8 (1216)
Width of Skid rail	3 3/4 (95)	3 3/4 (95)	3 3/4 (95)	3 3/4 (95)
Width of Bottom Front Support	6 (152)	6 (152)	6 (152)	6 (152)
Stub-up area between front support and splashguard	3 1/8 (79)	3 1/8 (79)	3 1/8 (79)	3 1/8 (79)
Electrical Service				
(B) RH end of merchandiser to the center of nearest knockout	4 (102)	4 (102)	4 (102)	4 (102)
(B) RH end of merchandiser to the center of nearest knockout BO	6 (152)	6 (152)	6 (152)	6 (152)
(B) RH end of merchandiser to the center of nearest knockout DG	19 1/4 (489)	19 1/4 (489)	19 1/4 (489)	NA
RH end of merchandiser to the center of LH knockout	58 (1473)	88 1/2 (2248)	118 7/8 (3019)	149 3/8 (3794)
Back O/S of merchandiser with bump-out to center of knockout	49 5/8 (1260)	49 5/8 (1260)	49 5/8 (1260)	49 5/8 (1260)
* NOTE: Electrical Field Wiring Connection Point is at terminal.				
Waste Outlet				
(C) Right end of merchandiser to center of waste outlet	<u>23 7/8 (606)</u>	54 1/4 (1378)	46 1/4 (1175)	76 5/8 (1946)
(C) Right end of merchandiser to center of waste outlet BO	<u>25 7/8 (657)</u>	56 1/4 (1429)	48 1/4 (1226)	78 5/8 (1997)
(C) Right end of merchandiser to center of waste outlet DG	39 (991)	69 1/2 (1765)	61 1/2 (1562)	NA
Back O/S of merchandiser with BO to center of waste outlet	42 5/8 (1083)	42 5/8 (1083)	42 5/8 (1083)	42 5/8 (1083)
Water Seal				
Edge of water seal to center of waste outlet	<u>13 (330)</u>	<u>13 (330)</u>	<u>13 (330)</u>	<u>13 (330)</u>
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
** NOTE: Field installed water seal outlets, tees, and connectors are shipped with merchandiser.				
Refrigeration Outlet				
(D) RH end of merchandiser to center of RH refrigeration outlet	5 3/8 (136)	5 3/8 (136)	5 3/8 (136)	5 3/8 (136)
(D) RH end of merchandiser to center of RH refrigeration outlet BO	7 3/8 (187)	7 3/8 (187)	7 3/8 (187)	7 3/8 (187)
(D) RH end of merchandiser to center of RH refrigeration outlet DG	20 5/8 (524)	20 5/8 (524)	20 5/8 (524)	NA
Back O/S of merchandiser with bump-out to center of refrigeration outlet	40 (1016)	40 (1016)	40 (1016)	40 (1016)
Outside bottom front supports from end of merchandiser	<u>7 (178)</u>	<u>7 (178)</u>	<u>7 (178)</u>	<u>7 (178)</u>
Outside bottom front supports from end of merchandiser BO	<u>9 (229)</u>	<u>9 (229)</u>	<u>9 (229)</u>	<u>9 (229)</u>
Outside bottom front supports from end of merchandiser DG	<u>26 1/2 (673)</u>	<u>26 3/4 (679) RH</u> <u>37 1/2 (952) LH</u>	<u>26 1/4 (667)</u>	NA
Center bottom front support from Centerline	24 (610)	24 (610)	24 (610)	24 (610)
Center bottom front support from Centerline BO	24 (610)	24 (610)	24 (610)	24 (610)
Center bottom front support from Centerline DG	<u>6 3/4 (171) LH</u>	<u>8 3/4 (222) RH</u>	24 (610)	NA
Distance between Center and Outside supports will vary				

LifeLine Premier RLN

With INNOVATOR Doors
Frozen Food & Ice Cream

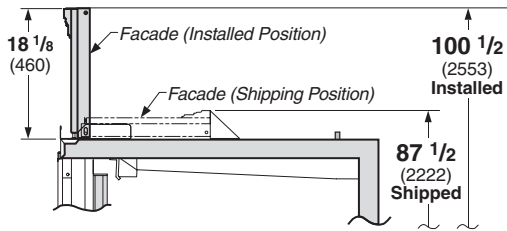


12 in. Straight Facade

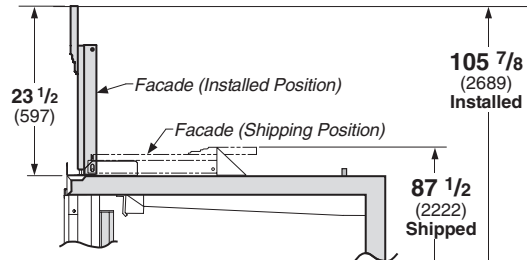


12 in. Arch Facade

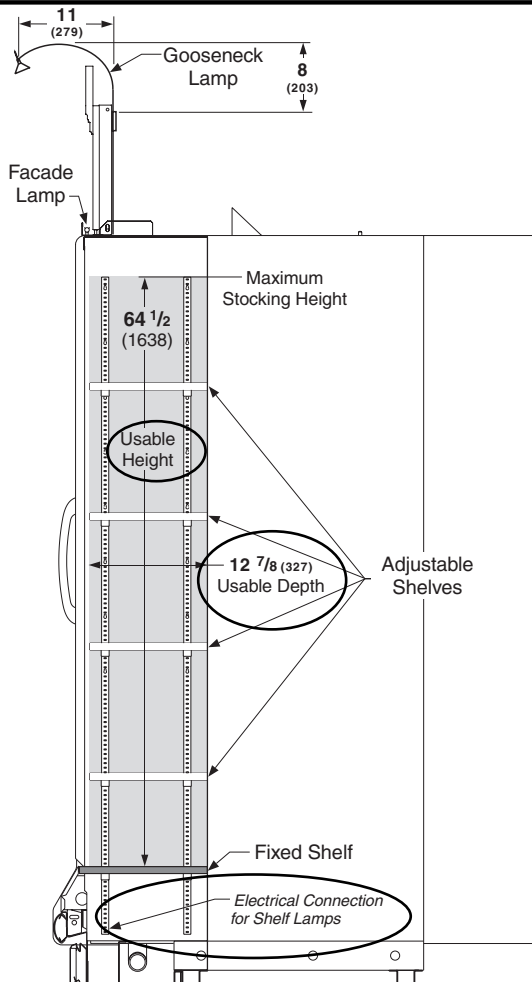
Facade Options in Cross Section



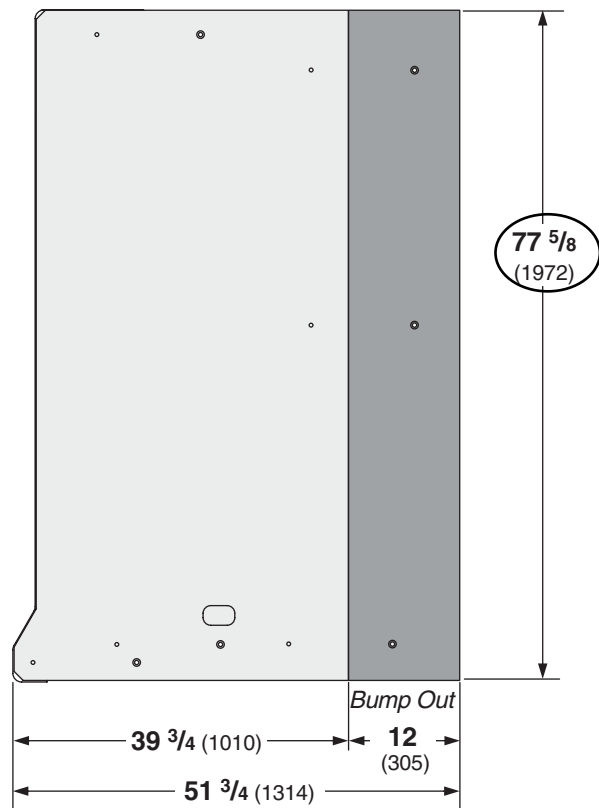
18 in. Straight Facade



18 in. Arch Facade



Dry Goods Cross-Section



Partition and End Profiles

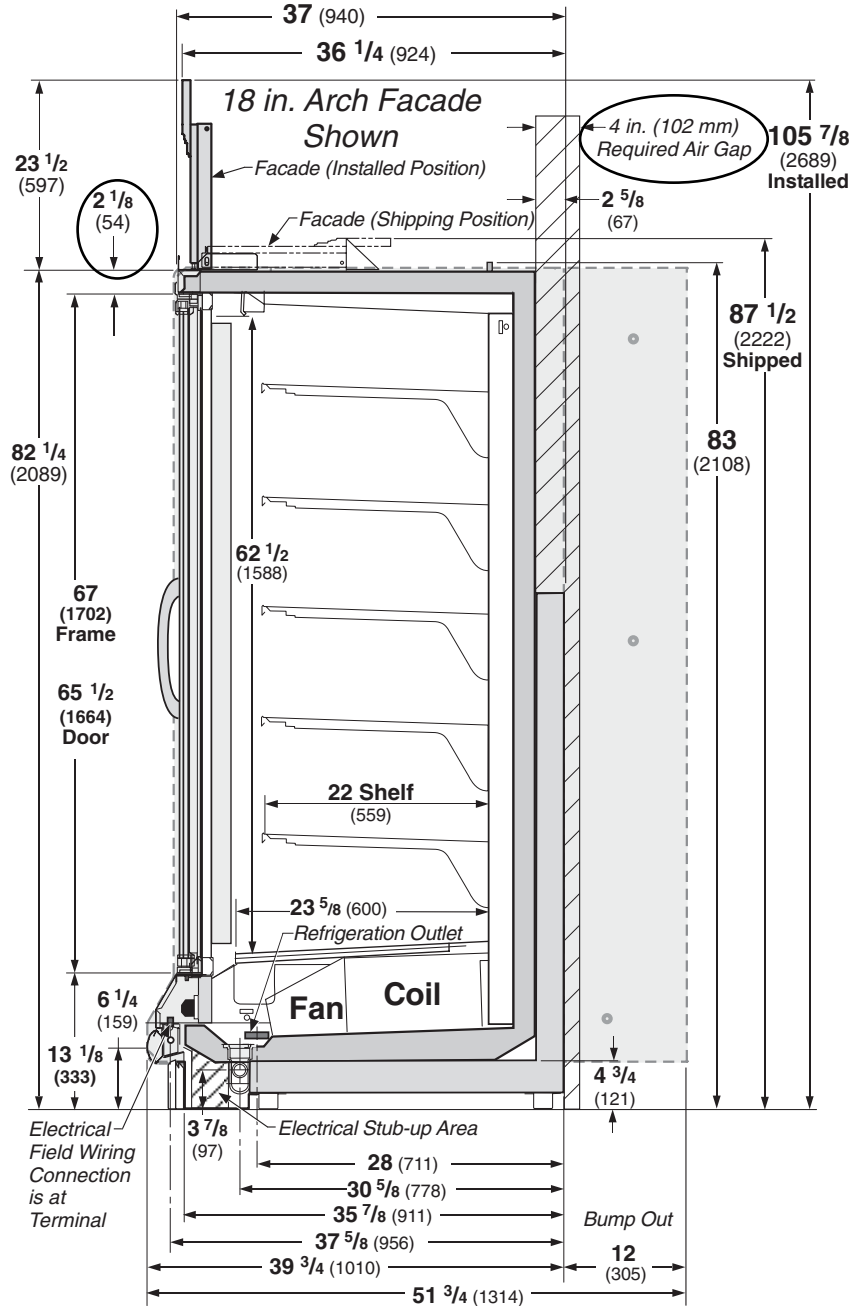
LifeLine Premier Narrow Footprint Reach-in 2, 3, 4 and 5 Door Models

LifeLine Premier RLN
With INNOVATOR Doors
Frozen Food & Ice Cream

Dimensions shown as inches and (mm).

**LifeLine Premier
RLN - RMN**

**See Page 4
for alternate
facade heights.**



REFRIGERATION DATA

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

	FF	IC
Discharge Air (°F)	-5	-12
Evaporator (°F)	-11	-19
Unit Sizing (°F)	-14	-22
Btu/hr/Door*		
Parallel	1200	1270
Conventional	1225	1300

*Optional Energy Efficient Fan motors reduce refrigeration load by 109 Btu/hr/Door.

DEFROST DATA

	FF	IC
Frequency (hr)	24	24
Defrost Water (lb/Dr/day)	1.2	1.2

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

ELECTRIC	FF	IC
Temp Term (°F)	48°	48°
Failsafe (minutes)	45	45

GAS	FF	IC
Duration (minutes)	20	20

OFFTIME Not Recommended

CONVENTIONAL CONTROLS

Low Pressure Backup Control	FF	IC
CI/CO (Temp °F)**	-18°/-34°	-26°/-45°

Indoor Unit Only, Pressure Defrost Termination (Temp °F)**
Not Recommended

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

Estimated Charge ***

2Dr	1.8lb	29 oz	0.8 kg
3Dr	2.7lb	43 oz	1.2 kg
4Dr	3.6lb	58 oz	1.6 kg
5Dr	4.6lb	74 oz	2.1 kg

***This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately 0.5 lb (8 oz / 0.2 kg).

NSF Certification

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

LifeLine Premier RLN

With INNOVATOR Doors
Frozen Food & Ice Cream

Hussmann recommends against frame heater cycling with Innovator doors to prevent door seals from freezing to the frames and tearing.

Electrical Data

	2Dr	3Dr	4Dr	5Dr					
Number of Fans—12W	2	3	4	5					
Merchandiser	Amperes				Watts				
	2Dr	3Dr	4Dr	5Dr	2Dr	3Dr	4Dr	5Dr	
Evaporator Fan									
120V 60Hz Standard	1.30	1.95	2.60	3.25	100	150	200	250	
120V 50Hz Standard	1.50	2.25	3.00	3.75	114	171	228	285	
220V 60Hz Export	0.66	0.99	1.32	1.65	100	150	200	250	
220V 50Hz Export	0.76	1.14	1.52	1.90	114	171	228	285	
120V 60Hz Energy Efficient	0.60	0.90	1.20	1.50	36	54	72	90	
220V 60Hz Energy Efficient	0.30	0.45	0.60	0.75	36	54	72	90	
Door Anti-sweat Heaters (on fan circuit)									
120V 50/60Hz Standard	1.54	2.31	3.08	3.86	185	278	370	463	
220V 50/60Hz Export	0.84	1.26	1.68	2.10	185	278	370	463	
Frame Anti-sweat Heaters (on fan circuit)									
120V 50/60Hz Standard	0.78	1.18	1.57	1.97	94	141	188	236	
220V 50/60Hz Export	0.43	0.64	0.85	1.07	94	141	188	236	
Minimum Circuit Ampacity									
120V 60Hz Standard	3.82	5.64	7.45	9.28					
120V 50Hz Standard	4.02	5.94	7.85	9.78					
220V 60Hz Export	2.13	3.09	4.05	5.02					
220V 50Hz Export	2.23	3.24	4.25	5.27					
120V 60Hz Energy Efficient	3.12	4.59	6.05	7.53					
220V 60Hz Energy Efficient	1.77	2.55	3.33	4.12					
Maximum Over Current Protection 120V	20	20	20	20					
Maximum Over Current Protection 220V	15	15	15	15					
Defrost									
Drain Heaters (120V)	0.63	1.25	2.00	2.50	75	150	240	300	
(Export: 220V 50 hz)	0.39	0.76	1.22	1.53	84	168	269	336	
208V 1Ø Electric Defrost	6.72	10.08	13.46	16.82	1400	2100	2800	3500	
(Export: 220V 50 hz)	7.11	10.66	14.24	17.79	1564	2345	3133	3914	
Standard Vertical Lighting*									
Hussmann EcoShine™ (24VDC)	2Dr	3Dr	4Dr	5Dr	2Dr	3Dr	4Dr	5Dr	
	0.45	0.68	0.90	1.13	54	81	108	135	
Optional LED Lighting (24VDC)									
Facade Lamps	0.79	1.17	1.54	1.92	19	28	37	46	
Gooseneck Lamps (2 per merchandiser)	4.17	4.17	4.17	NA**	100	100	100	NA**	
Dry Goods Lamps (both sides, 10 per side)	1.50	1.50	1.50	NA**	36	36	36	NA**	

* Innovator or Innovator II

** Dry Goods sections are not available on 5-Door models.

Product Data

<i>Recommended Usable Cube</i> ¹ (Cu Ft/Dr)	22.80 ft ³ /Dr (0.65 m ³ /Dr)
<i>AHRI Total Display Area</i> ² (Sq Ft/Dr)	13.31 ft ² /Dr (1.24 m ² /Dr)
<i>Shelf Area</i> ³ (Sq Ft/Dr)	28.50 ft ² /Dr (2.65 m ² /Dr)

- 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 (5) rows of 22-inch shelves.

Product Data (Dry Goods Area Only)

<i>TOTAL Gross Usable Cube</i> (Volume for 2 DG per merchandiser)	10.33 ft ³ / (0.29 m ³)
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ESTIMATED SHIPPING WEIGHT ⁴					
	<i>2 Dr</i>	<i>3 Dr</i>	<i>4 Dr</i>	<i>5 Dr</i>	<i>Solid End (each)</i>
Standard LifeLine Premier Merchandiser (12-Inch Facade, no Arch)					
lb (kg)	925 (420)	1167 (529)	1578 (716)	1945 (882)	65 (29)
Standard LifeLine Premier Merchandiser (18-Inch Facade, no Arch)					
lb (kg)	935 (424)	1182 (536)	1598 (725)	1970 (894)	74 (34)
LifeLine Premier Merchandiser with Two (2) Bump Out Partitions (12-Inch Facade, no Arch)					
lb (kg)	1093 (496)	1335 (606)	1746 (792)	2113 (958)	N/A
LifeLine Premier Merchandiser with Two (2) Bump Out Partitions (18-Inch Facade, no Arch)					
lb (kg)	1115 (506)	1362 (618)	1778 (806)	2150 (975)	N/A
LifeLine Premier Merchandiser with Two (2) Dry Goods Sections, Four (4) Partitions (12-Inch Facade, no Arch)					
lb (kg)	1382 (627)	1624 (737)	2035 (923)	NA	N/A
LifeLine Premier Merchandiser with Two (2) Dry Goods Sections, Four (4) Partitions (18-Inch Facade, no Arch)					
lb (kg)	1411 (640)	1658 (752)	2074 (941)	NA	N/A
LifeLine Premier Merchandiser with Two (2) Bump Out Partitions, Two (2) Dry Goods Sections, Two (2) Partitions (12-Inch Facade, no Arch)					
lb (kg)	1421 (645)	1663 (754)	2074 (941)	NA	N/A
LifeLine Premier Merchandiser with Two (2) Bump Out Partitions, Two (2) Dry Goods Sections, Two (2) Partitions (18-Inch Facade, no Arch)					
lb (kg)	1452 (659)	1699 (771)	2115 (959)	NA	N/A
Add 10 lb (5 kg) for Arch					

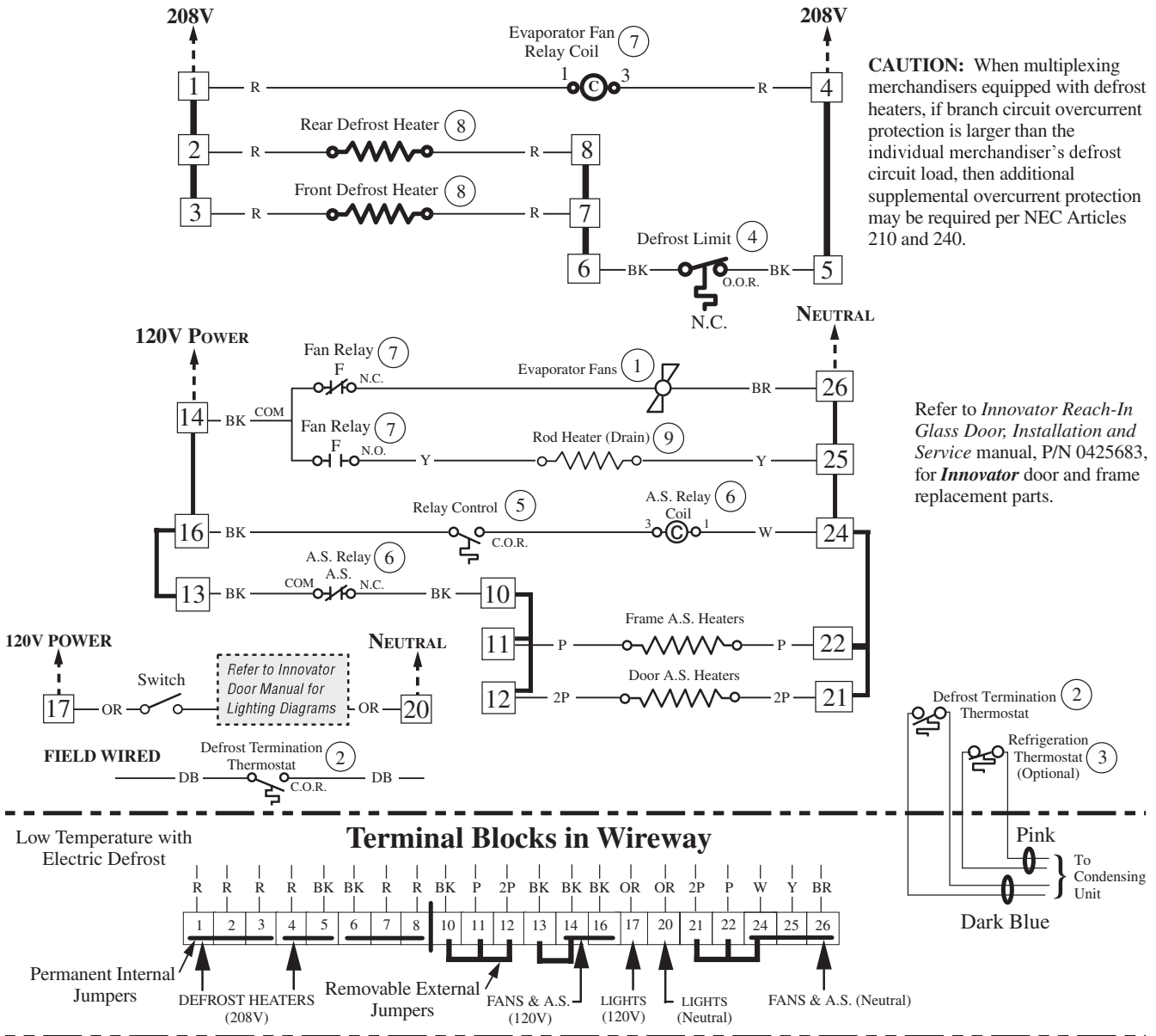
PRELIMINARY

⁴ Actual weights will vary according to optional kits included.

Fan and Heater Circuits - Electric Defrost (standard)

Low Temperature

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS
 R = Red P = Purple 2P = Purple (2 Bands) DB = Dark Blue BK = Black
 LB = Light Blue Pink = Pink BR = Brown Y = Yellow OR = Orange W = White
THESE ARE MARKER COLORS (WIRE MAY VARY.)



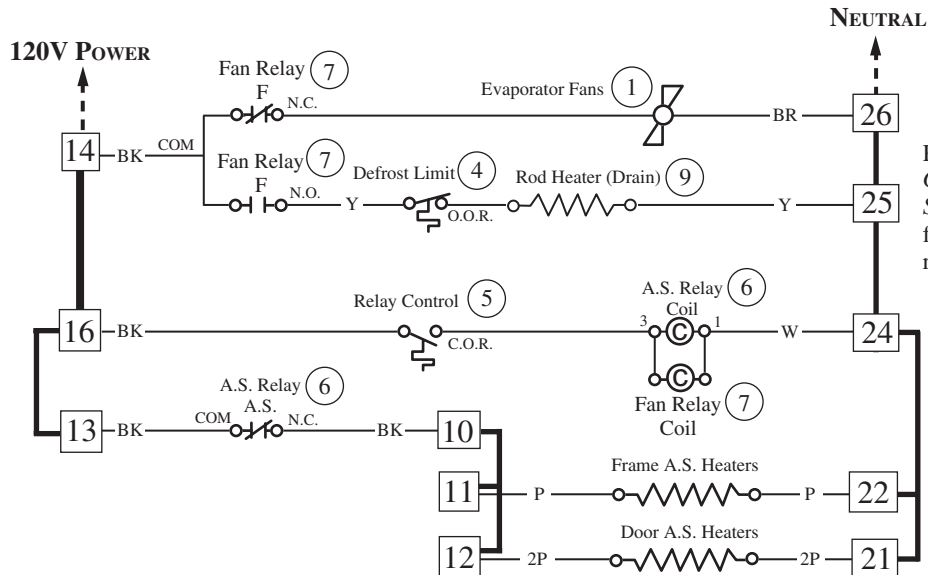
Electric Defrost Sequence - Low Temperature

1. Power from the defrost contactor energizes Defrost Heaters and 208V Evaporator Fan Relay Coil (7). Relay Contacts open the fan circuit and energizes the Drain Pan Heater.
2. If the Defrost Heater raises internal air temperature above 90°F, the Defrost Limit Thermostat (4) will open.
3. Temperature rise of the evaporator closes the Relay Control Thermostat (5) at about 35°F, energizing 120V A.S. Relay Coil (6). This relay's contacts open the Frame and Door Heater Circuits.
4. When Defrost Termination Thermostat ends defrost period, the defrost contactor opens the Defrost Heater and Evaporator Fan Relay Coil Circuits. The Drain Pan Heater goes off and fans are on.
5. Temperature fall of the evaporator opens the Relay Control Thermostat (5) at about 20°F, de-energizing 120V A.S. Relay Coil (6). A.S. Relay Contacts close the Frame and Door Heater Circuits.

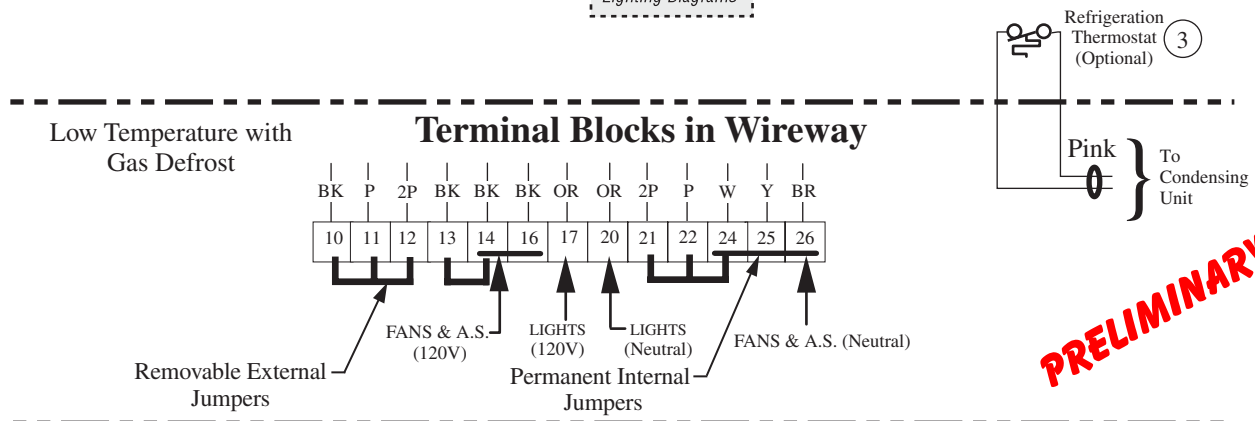
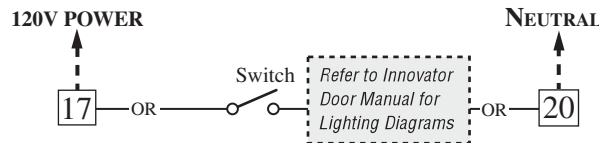
Fan and Heater Circuits - Gas Defrost (optional) Low Temperature

PRELIMINARY

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 R = Red P = Purple 2P = Purple (2 Bands) DB = Dark Blue BK = Black
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Refer to *Innovator Reach-In Glass Door, Installation and Service manual*, P/N 0425683, for *Innovator* door and frame replacement parts.

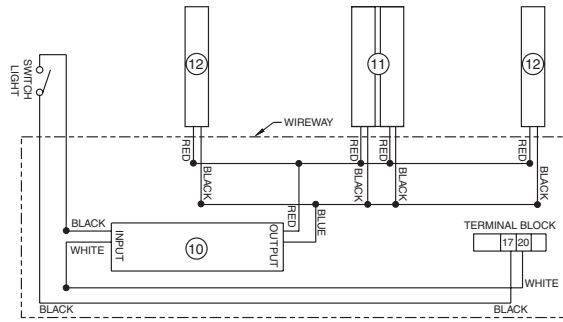


PRELIMINARY

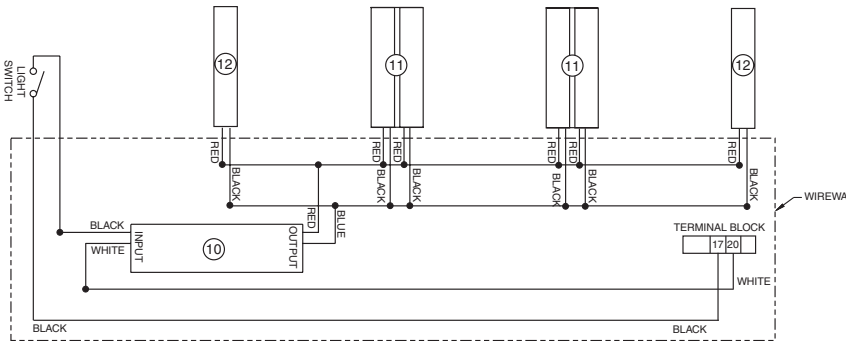
Gas Defrost Sequence - Low Temperature

1. Defrost vapor enters evaporator causing a rise in temperature. At about 35°F the Control Relay Thermostat (5) closes the A.S. Relay Coil (6) and Fan Relay Coil (7) circuit. The Relay opens the Fan, Door Heater, and Frame Heater circuits, while energizing the Drain Pan Heater (9).
2. If the Drain Pan Heater (9) raises internal air temperature above 90°F, the Heater Limit Thermostat (4) will open.
3. When the defrost timer ends a defrost period, the evaporator temperature will start to fall. At about 20°F, the Relay Control Thermostat will open, de-energizing the A.S. Relay Coil (6) and Fan Relay Coil (7). The A.S. and Fan Relays will open the Drain Pan Heater circuits, and will close the Fan, Door Heater, and Frame Heater circuits.

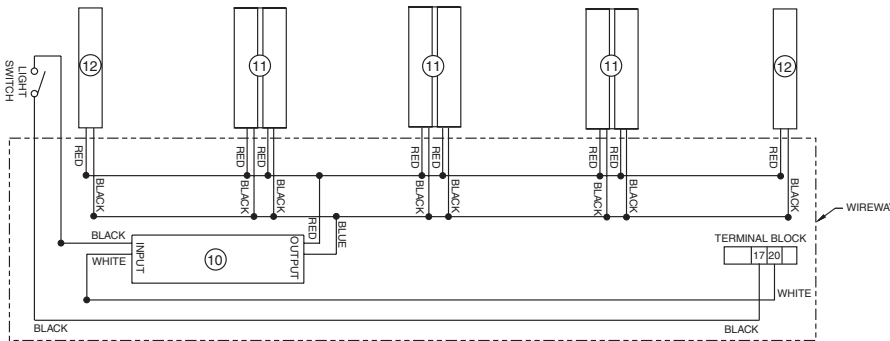
**Standard
Vertical
Lighting
Husmann
EcoShine™
LED
Fixtures**



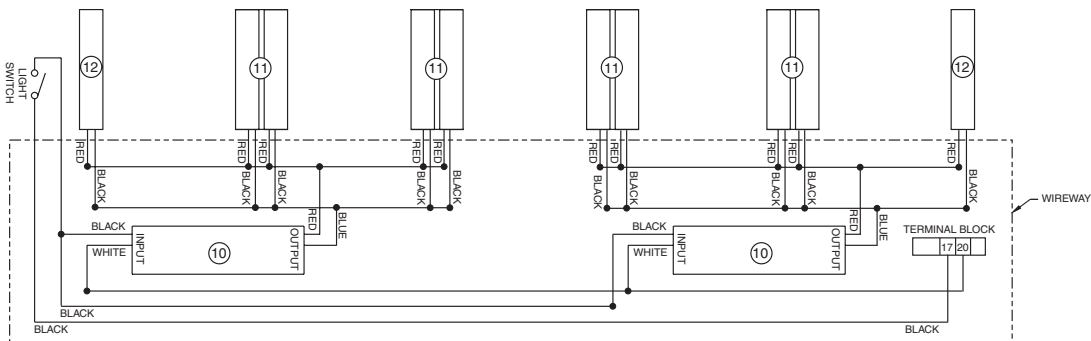
2 DOOR LED LIGHT WIRING DIAGRAM



3 DOOR LED LIGHT WIRING DIAGRAM



4 DOOR LED LIGHT WIRING DIAGRAM



5 DOOR LED LIGHT WIRING DIAGRAM

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

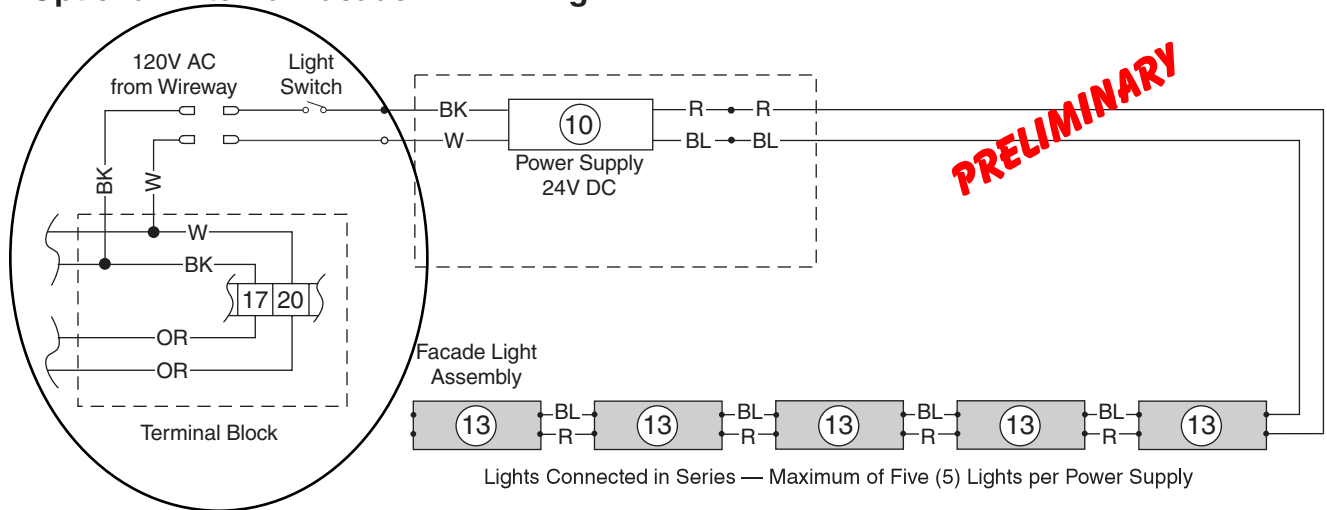
● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

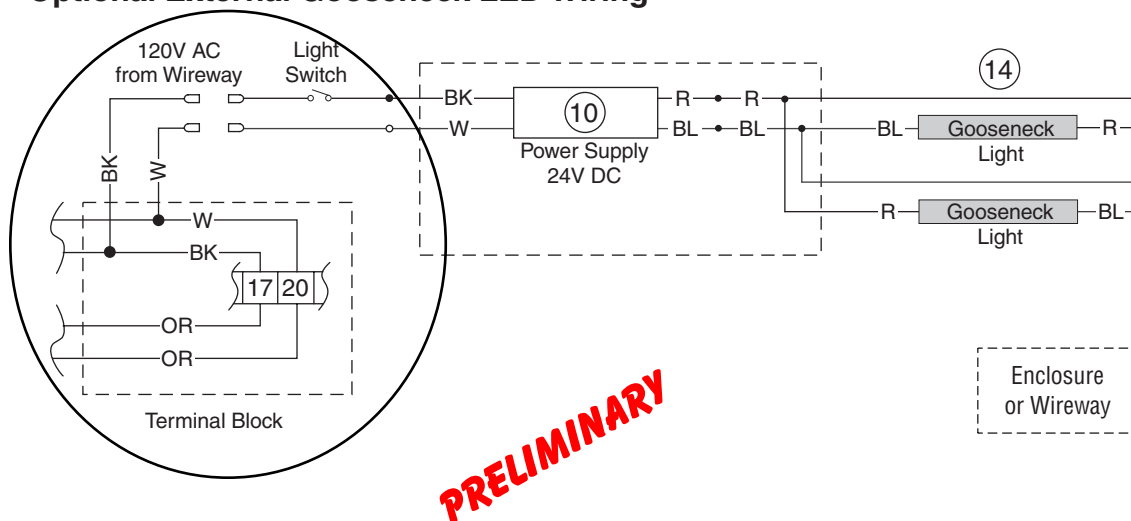
R = Red P = Purple 2P = Purple (2 Bands)
DB = Dark Blue BK = Black BL = Blue
BR = Brown Y = Yellow OR = Orange W = White

THESE ARE MARKER COLORS (WIRE MAY VARY.)

Optional External Facade LED Wiring



Optional External Gooseneck LED Wiring



WARNING

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

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

LifeLine Premier RLN

With INNOVATOR Doors
Frozen Food & Ice Cream

Optional Lighting Circuits

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

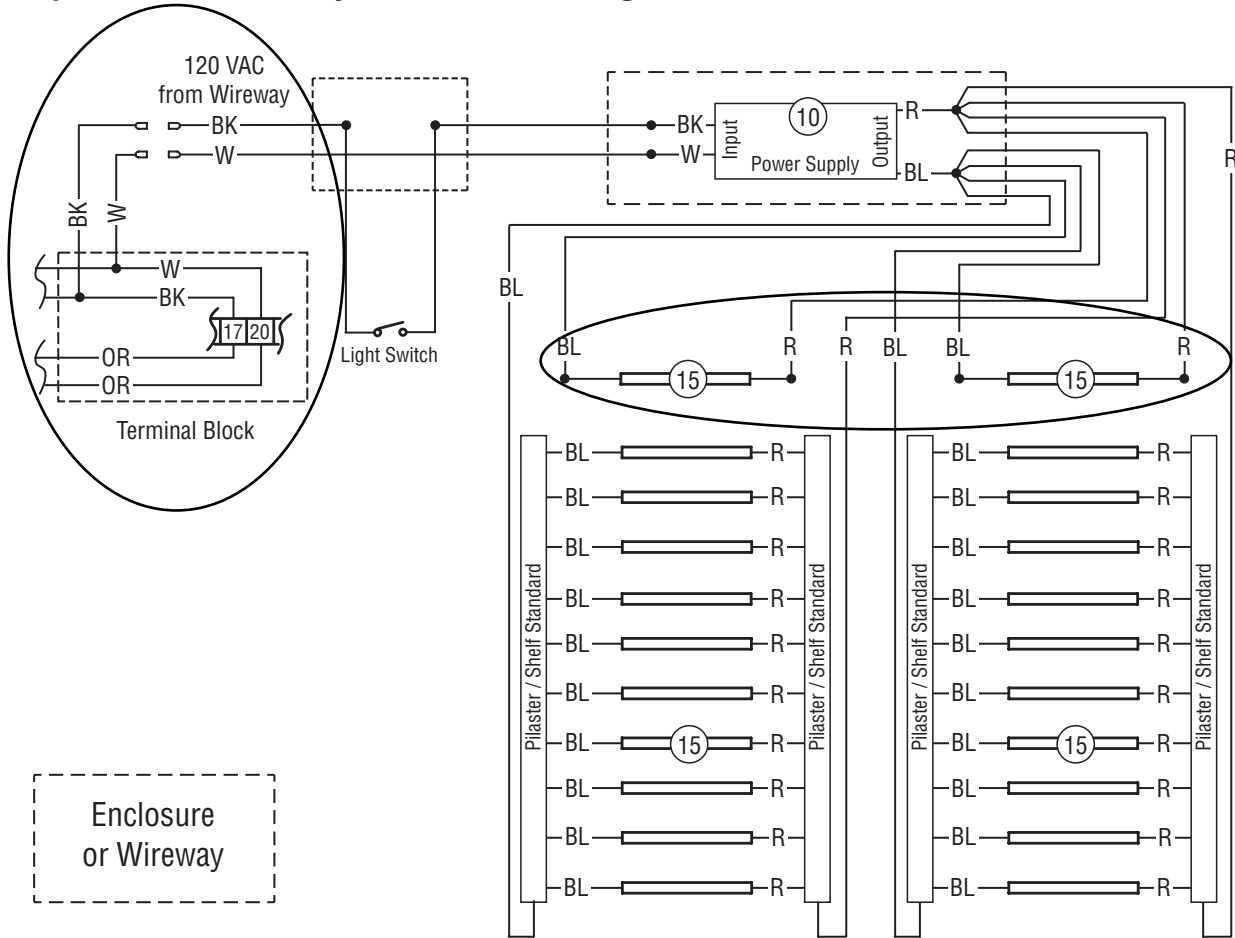
R = Red P = Purple 2P = Purple (2 Bands)

DB = Dark Blue BK = Black BL = Blue

BR = Brown Y = Yellow OR = Orange W = White

THESE ARE MARKER COLORS (WIRE MAY VARY.)

Optional External Dry Goods LED Wiring



Shelf Lamps (up to 10 per end)

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