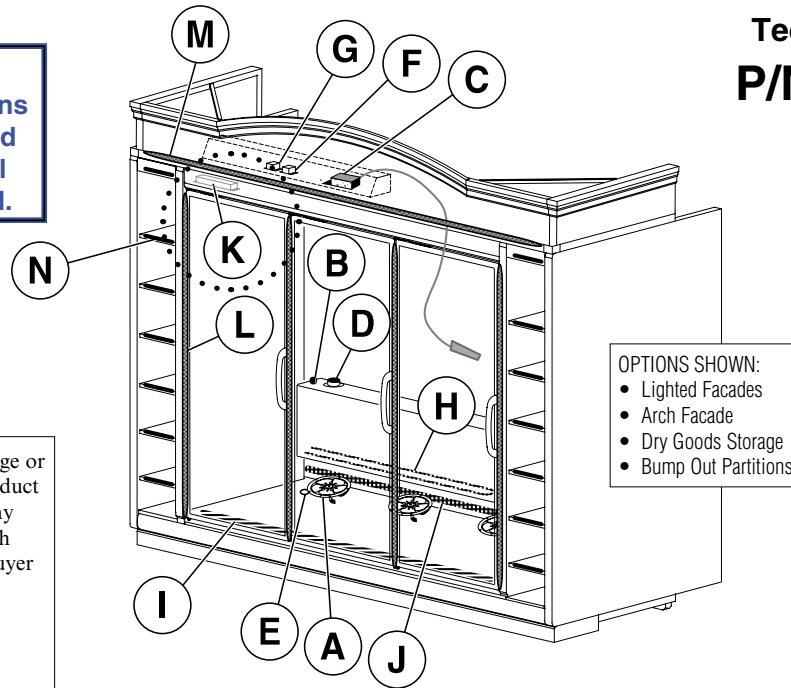


Refrigeration and electrical connections are on top. Overhead piping and electrical circuits are required.



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.

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

Item	Part #	Description	Wiring Item #	Item	Part #	(Qty)	Description	Wiring Item #
FAN ASSEMBLIES, AND THERMOSTATS				HEATERS (CONTINUED)				
(A)	Fan Assembly		(1)	(J)	Koolgas Supplemental Heater – Plenum (120V)	(10)		
	0477658	Standard Energy Efficient Motor			0452980	(1)	2 Door Models	
	0315470	Fan Blade			0452981	(1)	3 Door Models	
(B)	0331798	Standard Non-adjustable Defrost Thermostat	(2)		0452982	(1)	4 Door Models	
					0452983	(1)	5 Door Models	
(C)		Optional Adjustable Refrigeration Thermostat	(3)	LED FIXTURES AND POWER SUPPLY				
(D)	0440423	Defrost Limit Thermostat	(4)	K.	0499399LED Power Supply			(11)
(E)	0446007	Relay Control Thermostat or Fan and Anti-sweat Heater Thermostat	(5)	L.	LED Fixture			(12)
RELAYS							<i>Replace with like fixtures</i>	
(F)	0342598	Control Relay (120V KoolGas)	(6)	M.	Facade Lamp, LED			(13)
(G)	0342599	Control Relay (208V)	(7)		BU.44414112900K 29.5 In. Length			
HEATERS							BU.44414122900K 30.5 In. Length	
(H)	Electric Defrost Heaters (208V)		(8)	N.	BU.4441414Dry Goods Lamp, LED 3500K			(14)
	0461938	(1) 2 Door Models			SH.4991645KLU9600			
	0461939	(1) 3 Door Models					Shelf, Lighted, Pearwood	
	0461940	(1) 4 Door Models		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.				
	0461941	(1) 5 Door Models						
(I)	Drain Pan Heater (Electric & Kool Gas) (120V)		(9)					
	0508199	(1) 2 Door Models						
	0508200	(1) 3 Door Models						
	0508201	(1) 4 Door Models						
	0508202	(1) 5 Door Models						

Refer to INNOVATOR REACH-IN GLASS DOOR INSTALLATION AND SERVICE MANUAL, P/N 0425683, for Innovator, Innovator II and Innovator III and frame replacement parts.

Data sheet-LifeLine RLT

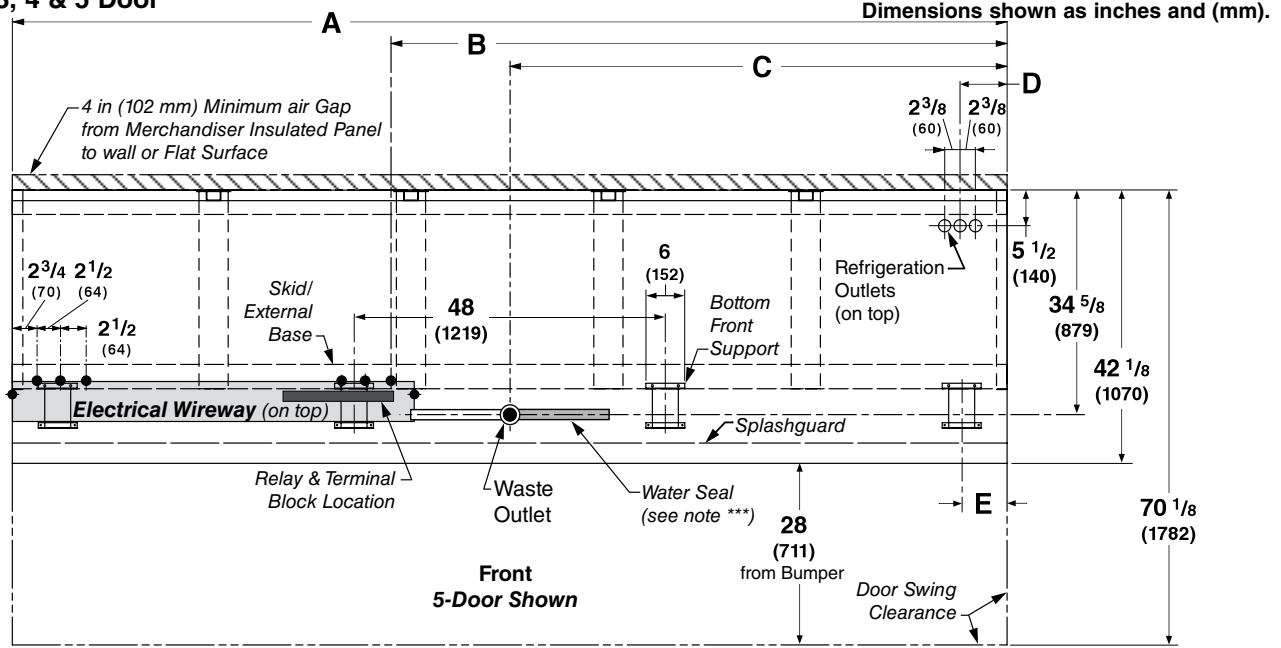
NOTE: Revision E adds NOTE on page 3 and removes dry good shelves dimensions. Other changes marked by bar, underline or circle.

Engineering Plan Views

LifeLine Premier RLT Plan View 02-2010

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

Tall Reach-In
2, 3, 4 & 5 Door

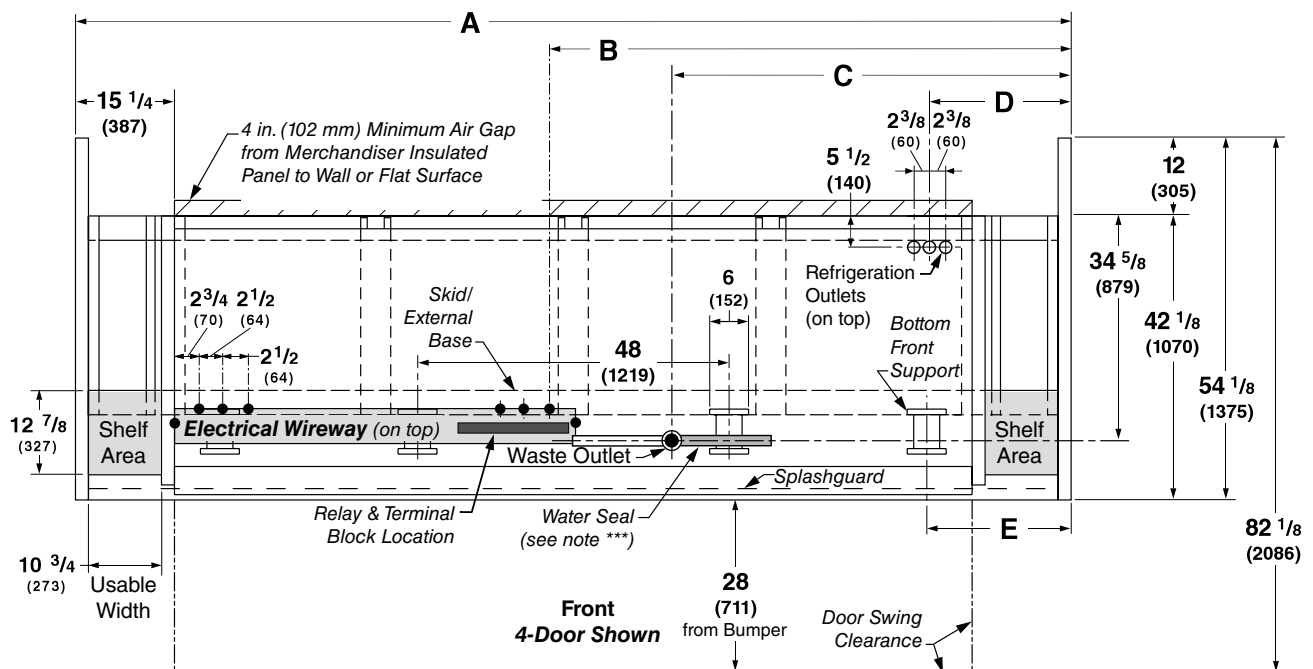


Base 5-door merchandiser is shown above, without Bump Out, Dry Goods sections, Partitions or Ends. Illustrated below is a 4-door merchandiser with Dry Goods cabinets and Bump Out end partitions. Refer to chart on Page 3 for detailed dimensional information on options.

LifeLine Premier RLT – Dry Goods \ Bump Out Plan View





Dimensions shown as inches & (mm).

2,3 & 4 Door

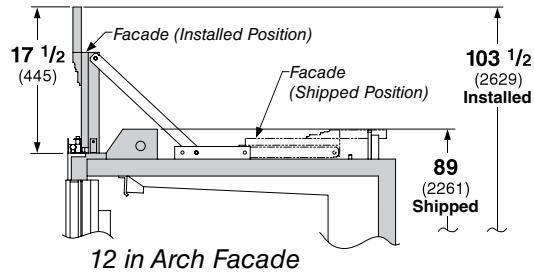
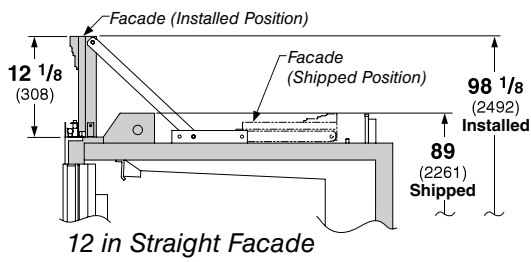


**Plan View Dimensions for
LifeLine Premier Options**

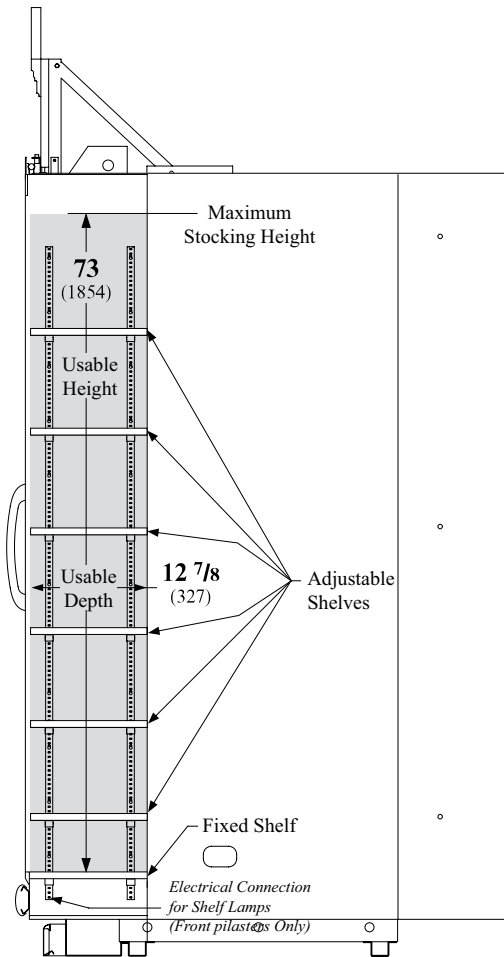
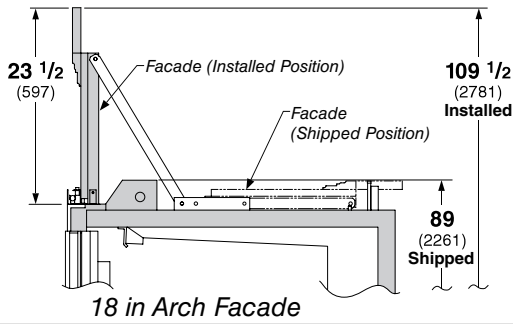
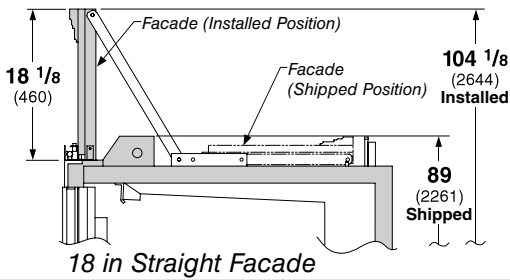
LifeLine Premier RLT
With Innovator III Doors
Low Temperature

Abbreviations: DG = Dry Goods section BO = Bump Out				
General	2 Dr	3 Dr	4 Dr	5 Dr
(A) Merchandiser Length	62 (1575)	92 1/2 (2350)	122 7/8 (3121)	153 3/8 (3896)
**NOTE: Each solid end adds approximately 2 3/8 in (60 mm) to length of line up; each partition add approximately 2 3/4 in (70 mm);				
case to case joints can add approximately 1/8 in (3 mm) for gasket material.				
(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 *	42 1/8 (1070)	42 1/8 (1070)	42 1/8 (1070)	42 1/8 (1070)
Maximum O/S dimension of merchandiser back to front BO * †	54 1/8 (1375)	54 1/8 (1375)	54 1/8 (1375)	54 1/8 (1375)
* Includes bumper. Add 26 1/2 in. (673 mm) for door swing.				
† Merchandiser dimension plus 12 inch bump out				
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 front of splashguard	39 (991)	39 (991)	39 (991)	39 (991)
Back of merchandiser to front of splashguard BO	51 (1295)	51 (1295)	51 (1295)	51 (1295)
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	7 1/8 (181)	7 1/8 (181)	7 1/8 (181)	7 1/8 (181)
Electrical Service 				
(B) RH end of merchandiser to the center of nearest knockout	2 3/4 (70)	33 1/4 (845)	63 5/8 (1616)	94 1/8 (2391)
(B) RH end of merchandiser to the center of nearest knockout BO	4 3/4 (121)	35 1/4 (895)	65 5/8 (1667)	96 1/8 (2442)
(B) RH end of merchandiser to the center of nearest knockout DG	18 (457)	48 1/2 (1232)	78 7/8 (2003)	NA
RH end of merchandiser to the center of LH knockout	59 1/4 (1505)	89 3/4 (2280)	120 1/8 (3051)	150 5/8 (3826)
Back O/S of merchandiser to center of knockout	31 5/8 (803)	31 5/8 (803)	31 5/8 (803)	31 5/8 (803)
Back O/S of merchandiser to center of knockout BO †	43 5/8 (1108)	43 5/8 (1108)	43 5/8 (1108)	43 5/8 (1108)
Wireway Length	62 (1575)	62 (1575)	62 (1575)	62 (1575)
** NOTE: Electrical Field Wiring Connection Point is at terminal.				
Waste Outlet 				
(C) Right end of merchandiser to center of waste outlet	23 7/8 (606)	54 1/4 (1378)	46 1/4 (1175)	76 5/8 (1946)
(C) Right end of merchandiser to center of waste outlet BO	25 7/8 (657)	56 1/4 (1429)	48 1/4 (1226)	78 5/8 (1997)
(C) Right end of merchandiser to center of waste outlet DG	39 1/8 (994)	69 1/2 (1765)	61 1/2 (1562)	NA
Back O/S of merchandiser to center of waste outlet	34 5/8 (879)	34 5/8 (879)	34 5/8 (879)	34 5/8 (879)
Back O/S of merchandiser to center of waste outlet BO †	46 5/8 (1184)	46 5/8 (1184)	46 5/8 (1184)	46 5/8 (1184)
Water Seal 				
Edge of water seal to center of waste outlet	13 (330)	13 (330)	13 (330)	13 (330)
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 middle RH refrigeration outlet	7 1/4 (184)	7 1/4 (184)	7 1/4 (184)	7 1/4 (184)
(D) RH end of merchandiser to center of middle RH refrigeration outlet BO	9 1/4 (235)	9 1/4 (235)	9 1/4 (235)	9 1/4 (235)
(D) RH end of merchandiser to center of middle RH refrigeration outlet DG	22 1/2 (572)	22 1/2 (572)	22 1/2 (572)	NA
Back O/S of merchandiser to center of refrigeration outlets	5 1/2 (140)	5 1/2 (140)	5 1/2 (140)	5 1/2 (140)
Back O/S of merchandiser to center of refrigeration outlets BO †	17 1/2 (445)	17 1/2 (445)	17 1/2 (445)	17 1/2 (445)
(E) Outside bottom front supports from end of merchandiser	7 (178)	7 (178)	7 (178)	7 (178)
(E) Outside bottom front supports from end of merchandiser BO	9 (229)	9 (229)	9 (229)	9 (229)
(E) Outside bottom front supports from end of merchandiser DG ††	26 1/2 (673)	26 3/4 (679) RH 37 1/2 (952) LH	26 1/4 (667)	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 ††	6 3/4 (171) LH	8 3/4 (222) RH	24 (610)	NA
†† Distance between Center and Outside supports will vary				

LifeLine Premier RLT
 With Innovator III Doors
 Low Temperature



Facade Options in Cross Section



Dry Goods Cross-Section



Std End and Bump Out End Profiles

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

Standard Reach-in configuration consists of Innovator III doors, energy efficient fan motors, and EcoShine II LED vertical lighting.

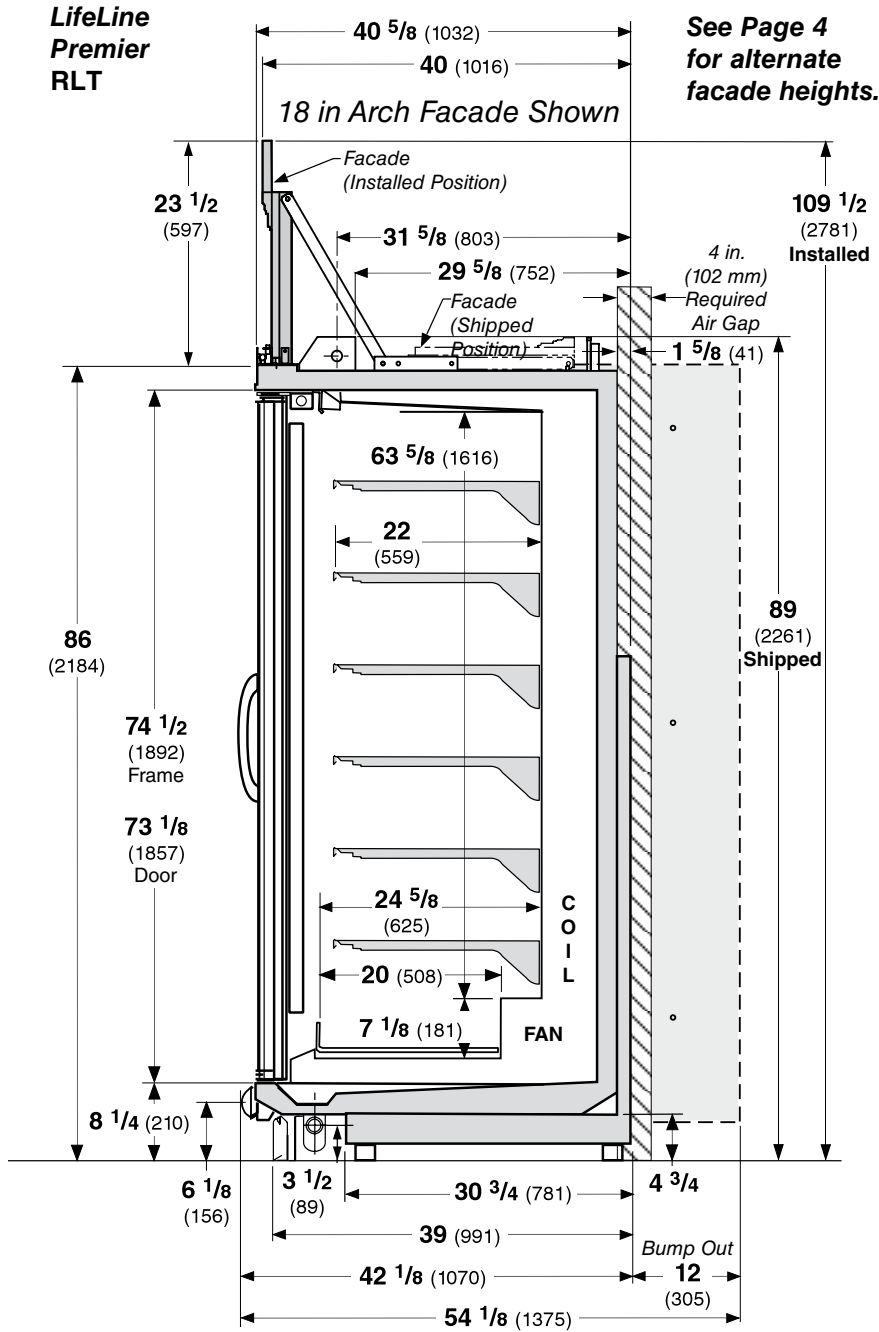


All RL and RM models meet or surpass the requirements of the DOE 2012 energy efficiency standards.

**Refrigeration and electrical connections are on top.
Overhead piping and electrical circuits are required.**

Dimensions shown as inches and (mm).

LifeLine Premier RLT



LifeLine Premier RLT

With Innovator III Doors
Low Temperature

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

	INNOVATOR III	
Parallel	1100	1290
Conventional	1125	1315

DEFROST DATA

	FF	IC
Frequency (hr)	24	24
Defrost Water (lb/Dr/day)	1.2	1.3

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

<i>ELECTRIC</i>	FF	IC
Temp Term (°F)	54°	54°
Failsafe (minutes)	48	48

GAS

Duration (minutes)	22	22
--------------------	----	----

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 **

2 Dr	2.3 lb	37 oz	1.0 kg
3 Dr	3.2 lb	51 oz	1.4 kg
4 Dr	4.1 lb	66 oz	1.8 kg
5 Dr	5.1 lb	82 oz	2.3 kg

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

NSF® Certification

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

LifeLine Premier RLT

With Innovator III Doors
Low Temperature

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

Electrical Data

	2Dr	3Dr	4Dr	5Dr				
Number of Fans — 25W	2	3	4	5				
	Amperes				Watts			
Merchandiser	2Dr	3Dr	4Dr	5Dr	2Dr	3Dr	4Dr	5Dr
Energy Efficient Evaporator Fan								
120V 50/60Hz Innovator III	1.65	2.5	3.3	4.1	125	188	250	313
220V 50/60Hz Export Innovator III	0.9	1.4	1.8	2.3	125	188	250	313
Door Anti-sweat Heaters (on fan circuit)								
120V 50/60Hz Innovator III	0.8	1.2	1.6	2.0	94	140	187	234
220V 50/60Hz Export Innovator III(ALWAYS*CLEAR)NA	NA	NA	NA	NA	NA	NA	NA	NA
Frame Anti-sweat Heaters (on fan circuit)								
120V 50/60Hz Innovator III	0.96	1.43	1.92	2.4	115	172	230	288
220V 50/60Hz Export Innovator III	0.5	0.8	1.1	1.3	115	172	230	288
Minimum Circuit Ampacity								
120V 50/60Hz Innovator III Electric Defrost	5.3	6.5	8.5	10.6				
120V 50/60Hz Innovator III Koolgas Defrost	5.1	8.0	10.9	13.8				
220V 50/60Hz Exp. Innovator III Electric Defrost	2.3	2.8	3.6	4.5				
220V 50/60Hz Exp. Innovator III Koolgas Defrost	2.9	4.6	6.3	7.8				
Maximum Over Current Protection 120V	20	20	20	20				
Maximum Over Current Protection 220V	20	20	20	20				
Defrost								
Drain Heaters (Kool-Gas or Electric)								
120V 50/60Hz Standard	2.5	2.6	3.1	3.5	297	317	366	419
220V 50/60Hz Export	1.35	1.44	1.6	1.9	297	317	366	419
Kool-Gas Supplemental Heaters								
120V 50/60Hz Standard	2.3	3.8	5.2	6.6	276	456	624	792
220V 550/60Hz Export	1.8	2.9	3.9	5.0	404	633	861	1090
Electric Defrost Heater								
208V 50/60Hz Standard	7.7	11.5	15.4	19.2	1600	2400	3200	4000
220V 50/60Hz Export	7.0	10.4	13.9	17.4	1600	2400	3200	4000

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.

	2Dr	3Dr	4Dr	5Dr	2Dr	3Dr	4Dr	5Dr
Standard Vertical LED Lighting 4100K								
Hussmann EcoShine II™ [22 W] (120V)	0.36	0.54	0.72	0.90	43	65	86	108
Hussmann EcoShine II™ [22 W] (220V Export)	0.20	0.29	0.39	0.49	43	65	86	108
Optional Vertical LED Lighting								
EcoShine II Plus [24 W] (120V)	0.36	0.52	0.68	0.84	43	62	81	100
EcoShine II Plus [24 W] (220V) Export	0.18	0.26	0.34	0.42	43	62	81	100
Facade LED Lamps	0.79	1.17	1.54	1.92	19	28	37	46
Dry Goods LED Lamps (both sides, 10 per side)	1.50	1.50	1.50	NA*	36	36	36	NA*

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

Product Data (Refrigerated Area Only)

<i>Recommended Usable Cube</i> ¹ (Cu Ft/Dr)	24.95 ft ³ /Dr (0.71 m ³ /Dr)
<i>AHRI Total Display Area</i> ² (Sq Ft/Dr)	13.59 ft ² /Dr (1.26 m ² /Dr)
<i>Shelf Area</i> ³ (Sq Ft/Dr)	32.38 ft ² /Dr (3.01 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 (6) rows of 22-inch shelves.

Product Data (Dry Goods Area Only)

TOTAL Gross Usable Cube (Volume for 2 DG per merchandiser) 11.69 ft³ / (0.33 m³)

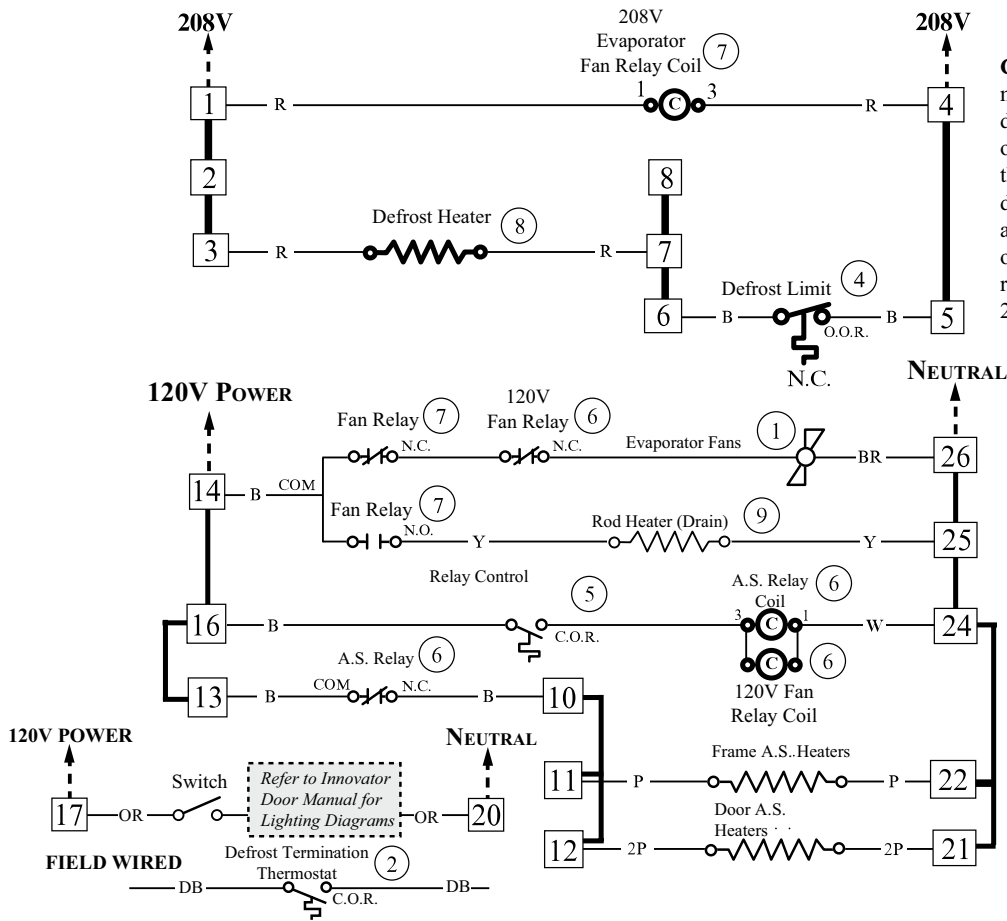
ESTIMATED SHIPPING WEIGHT ⁴					
	2 Dr	3 Dr	4 Dr	5 Dr	Solid End (each)
Standard LifeLine Premier Merchandiser (12-Inch Facade, no Arch)					
lb (kg)	1057 (479)	1385 (628)	1715 (778)	2024 (918)	85 (39)
Standard LifeLine Premier Merchandiser (18-Inch Facade, no Arch)					
lb (kg)	1067 (484)	1400 (635)	1735 (787)	2049 (929)	80 (36)
LifeLine Premier Merchandiser with Two (2) Bump Out Partitions (12-Inch Facade, no Arch)					
lb (kg)	1236 (561)	1564 (709)	1894 (859)	2203 (999)	N/A
LifeLine Premier Merchandiser with Two (2) Bump Out Partitions (18-Inch Facade, no Arch)					
lb (kg)	1259 (571)	1592 (722)	1927 (874)	2241 (1017)	N/A
LifeLine Premier Merchandiser with Two (2) Dry Goods Sections, Four (2) Partitions (12-Inch Facade, no Arch)					
lb (kg)	1537 (697)	1865 (846)	2195 (996)	NA	NA
LifeLine Premier Merchandiser with Two (2) Dry Goods Sections, Four (2) Partitions (18-Inch Facade, no Arch)					
lb (kg)	1567 (711)	1900 (862)	2235 (1014)	NA	NA
LifeLine Premier Merchandiser with Two (2) Bump Out Partitions, Two (2) Dry Goods Sections, Two (2) Partitions (12-Inch Facade, no Arch)					
lb (kg)	1576 (715)	1904 (864)	2234 (1013)	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)	1609 (730)	1942 (881)	2277 (1033)	NA	N/A
Add 10 lb (5 kg) for Arch					
⁴ Actual weights will vary according to optional kits included.					

Fan and Heater Circuits - Electric Defrost (standard)

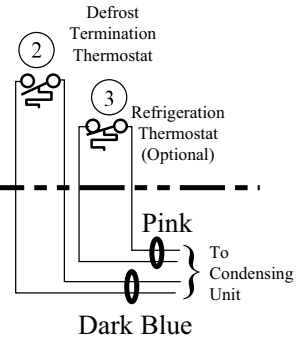
Low Temperature

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.)

CAUTION: When multiplexing merchandisers equipped with defrost heaters, if branch circuit overcurrent protection is larger than the individual merchandiser's defrost circuit load, the additional supplemental overcurrent protection may be required per NEC Articles 210 and 240.

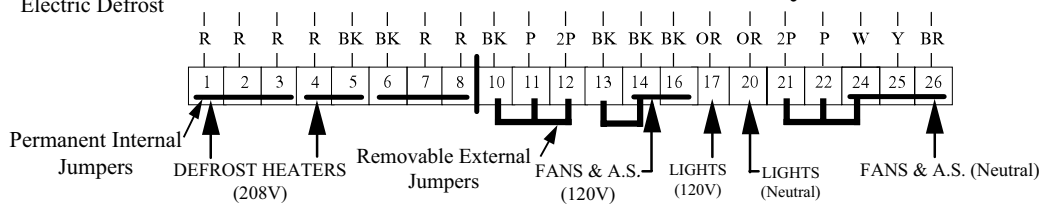


Refer to *Innovator Reach-In Glass Door, Installation and Service manual*, P/N 0425683, for *Innovator* door and frame replacement parts.



Low Temperature with Electric Defrost

Terminal Blocks in Raceway

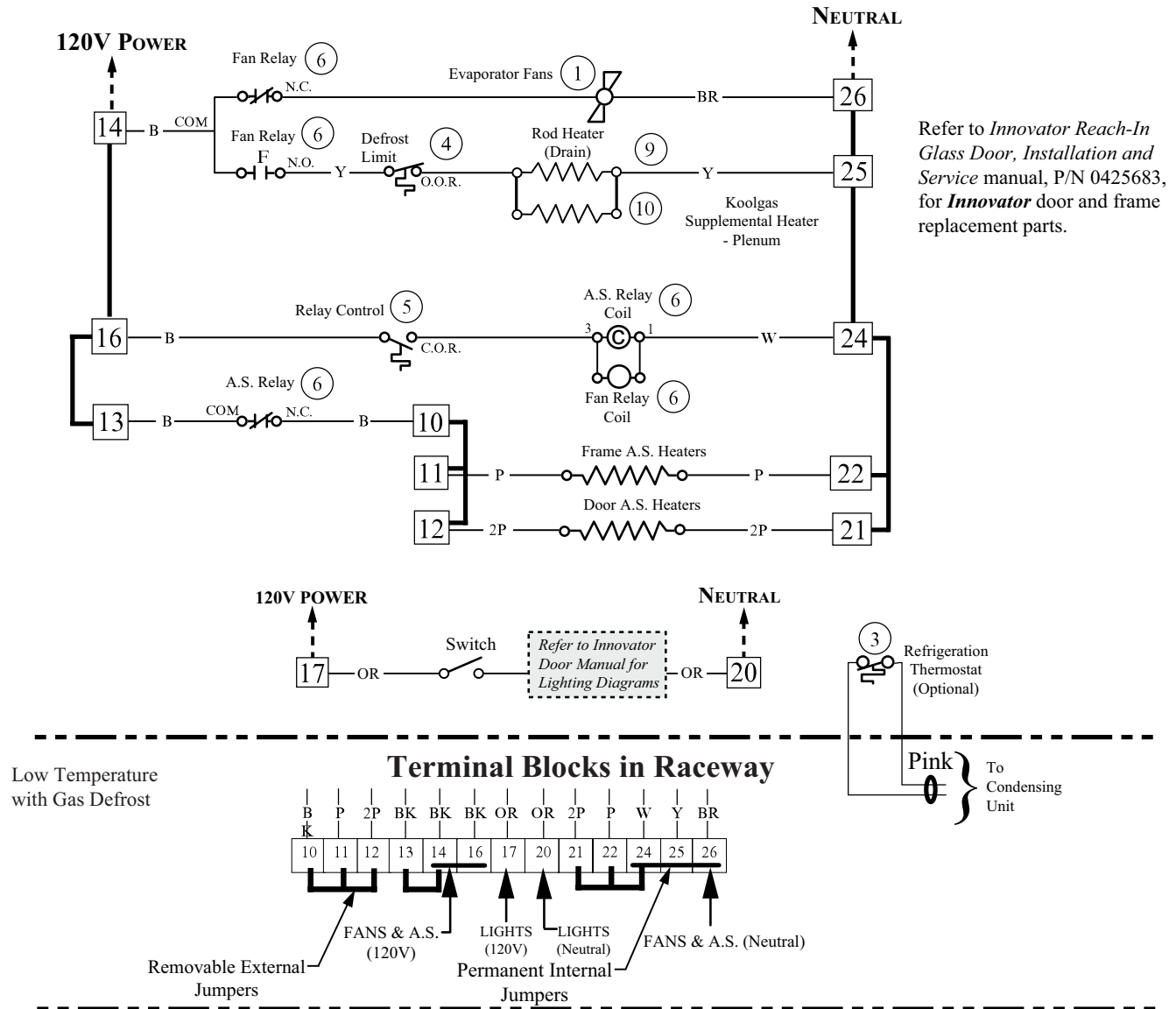


Electric Defrost Sequence - Low Temperature

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 the 120V A.S. and Fan Relay Coils (6). These relays' contacts open the Frame and Door Heater Circuits, and prevent the Fan Circuit from energizing upon defrost termination.
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.
5. Temperature fall of the evaporator opens the Relay Control Thermostat (5) at about 20°F, de-energizing the A.S. and Fan Relay Coils (6). A.S. Relay Contacts close the Frame and Door Heater Circuits, and Fan Circuit.

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

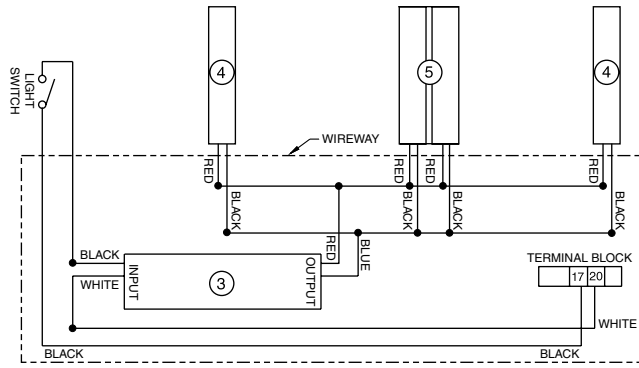
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS
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 LB = Light Blue Pink = Pink BR = Brown Y = Yellow OR = Orange W = White
THESE ARE MARKER COLORS (WIRE MAY VARY.)



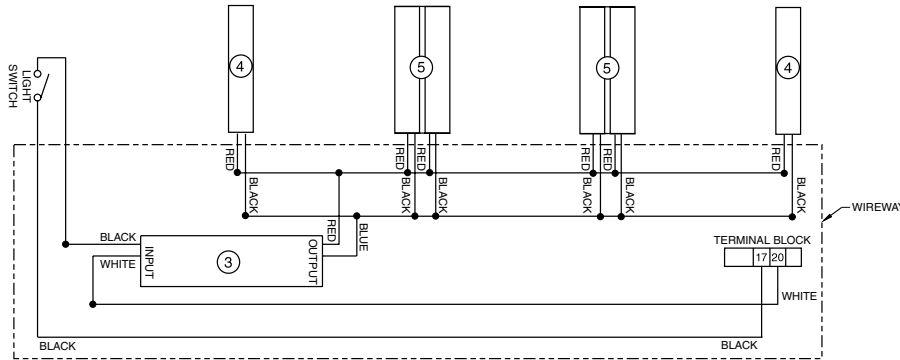
Gas Defrost Sequence - Low Temperature

1. Defrost vapor enters evaporator causing a rise in temperature. At about 35°F the Relay Control Thermostat (5) closes the Fan Relay Coil (6) and A.S. Relay Coil (6) circuit. The Relay opens the Fan, Door Heater, and Frame Heater circuits, while energizing the Drain Pan, Bottom, and Plenum Heaters (9), (11) and (10).
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 (6). The A.S. and Fan Relays will open the Drain Pan Heater circuits, and will close the Fan, Door Heater, and Frame Heater circuits.

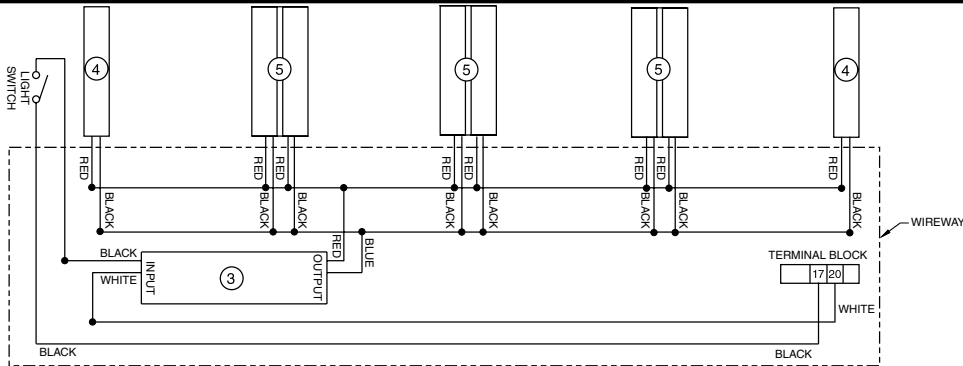
**Standard
Vertical
Lighting
Husmann
EcoShine™
LED
Fixtures**



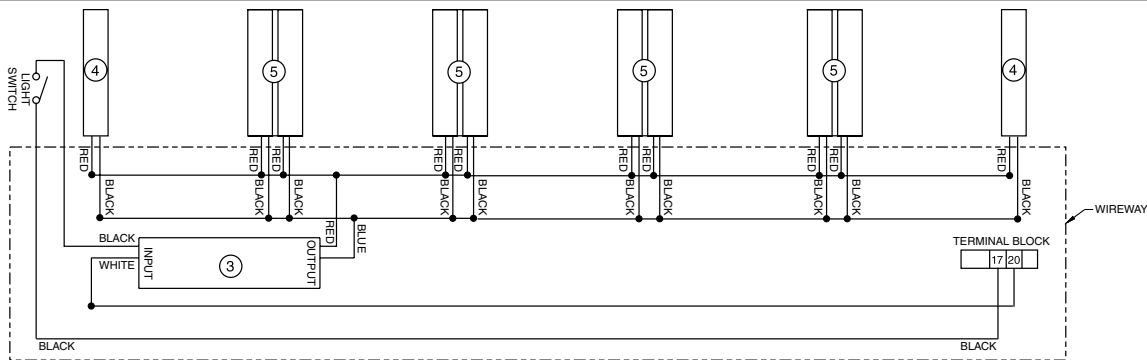
2 DOOR LED LIGHT WIRING DIAGRAM



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

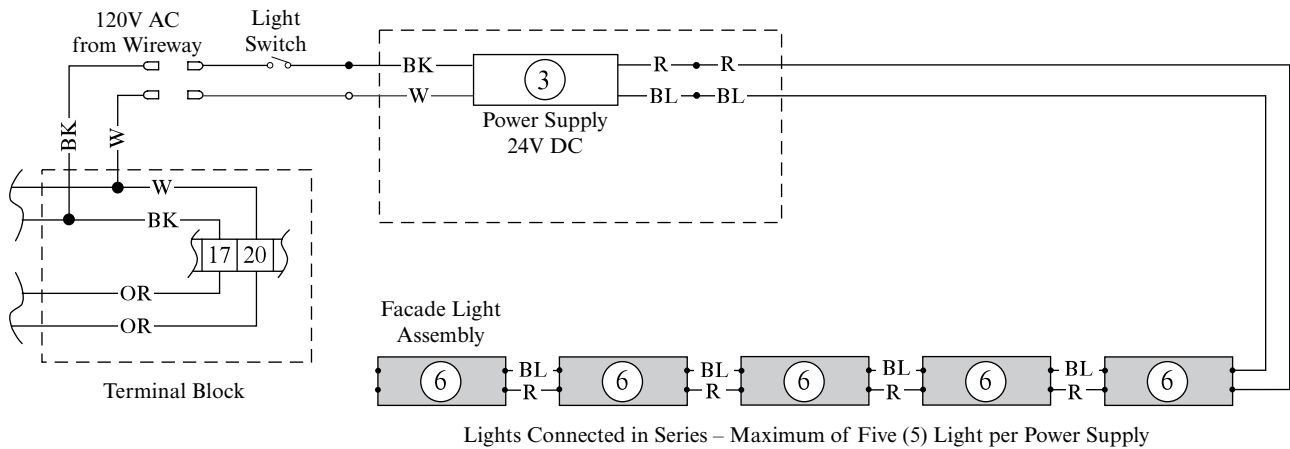
LifeLine Premier RLT
 With Innovator III Doors
 Low Temperature

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 Facade 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 RLT

With Innovator III Doors
Low Temperature

Optional Lighting Circuits

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

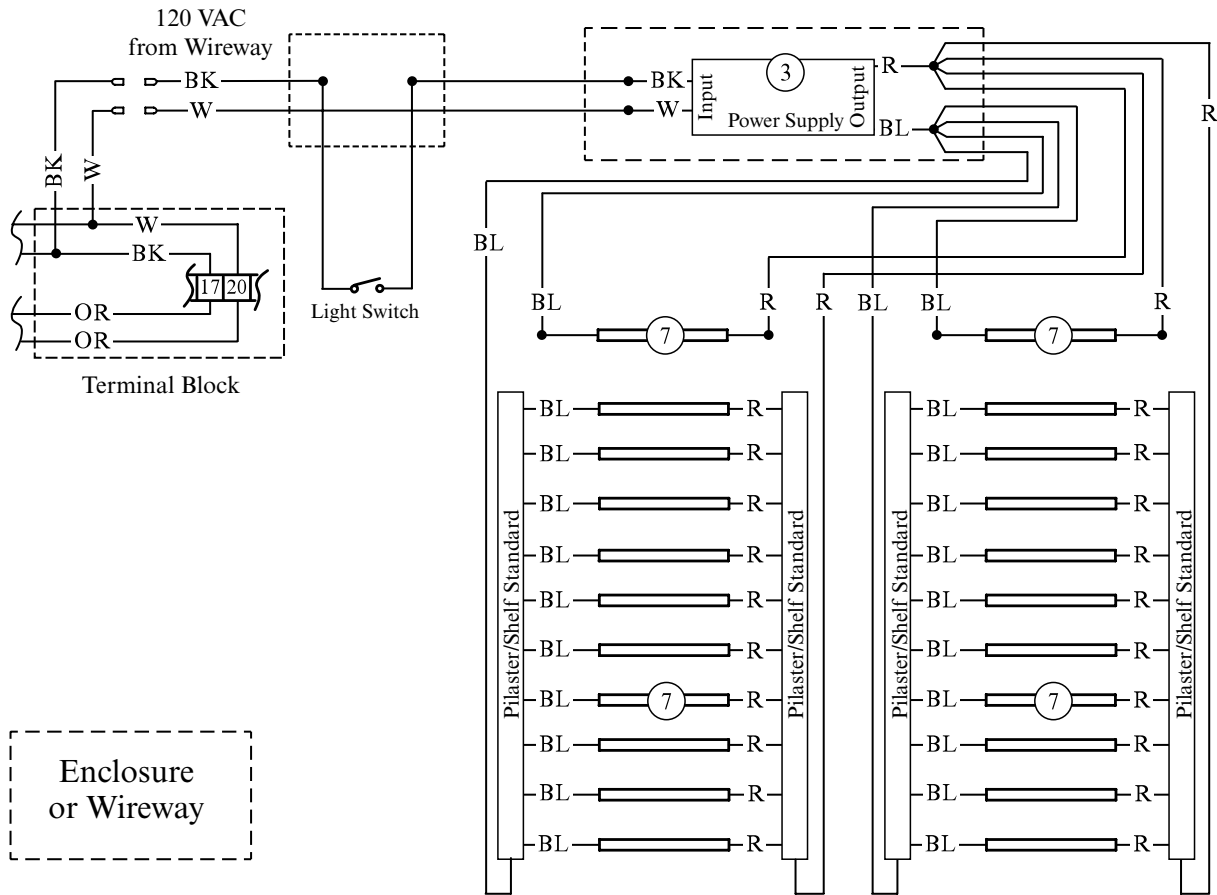
R = Red P = Purple 2P = Purple (2 Bands)

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)

WARNING

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

● = 120V Power

○ = 120V Neutral

⊥ = Field Ground

⏏ = Case Ground