

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 Energy Efficient Fan Assembly		(1)	I.	Drain Pan Heater — Electric & KoolGas (120V)	(9)		
	0477655	Fan Motor, Evaporator (MO.4410546)			0387036	(1)	2 Door Models (HE.4850239)	
	0461805	Fan Blade (FB.4780446)			0387037	(1)	3 Door Models (HE.4850240)	
B.	0474033	Standard Non-adjustable Defrost Thermostat (CT.4440726)	(2)		0387038	(1)	4 Door Models (HE.4850241)	
C.	Optional Adjustable Refrigeration Thermostat		(3)		0387039	(1)	5 Door Models (HE.4850242)	
D.	0344662	Defrost Limit Thermostat (CT.4440261)	(4)	LED FIXTURES AND POWER SUPPLY				
E.	0461814	Relay Control Thermostat or Fan and Anti-sweat Heater Thermostat (CT.4481296) (KG Only)	(5)	J.	0499399		Power Supply (EP.4481668)	(10)
RELAYS				K.	Door Lamp, LED			
F.	0342598	Control Relay (120V) (RL.4480238)	(6)		050908300		4100K Center (BU.4441330)	(11)
G.	Fan Control Relay		(7)		050908400		4100K End (BU.4441331)	(12)
	0342599	(208V) Electrical Defrost (RL.4480237)		<i>(Note: A complete list of vertical LED replacement lamps can be found at Hussmann.com/TechnicalInfoAndParts)</i>				
	0342598	(120V) KoolGas Defrost (RL.4480238)		L.	Facade Lamp, LED			
HEATERS					050919200		2900K 29.5 In. Length (BU.4441411)	(13)
H.	Electric Defrost Heaters – Front (208V)		(8)		050919300		2900K 30.5 In. Length (BU.4441412)	
	3015372	(1) 2 Door Models (HE.4850346)		Refer to INNOVATOR REACH-IN GLASS DOOR INSTALLATION AND SERVICE manual, P/N 0425683, for Innovator, Innovator II and Innovator III door and frame replacement parts.				
	3015373	(1) 3 Door Models (HE.4850337)						
	3015374	(1) 4 Door Models (HE.4850347)						
	3015375	(1) 5 Door Models (HE.4850323)						
	Electric Defrost Heaters — Rear (208V)		(8)					
	3015376	(1) 2 Door Models (HE.4850358)						
	3015377	(1) 3 Door Models (HE.4850359)						
	3015378	(1) 4 Door Models (HE.4850360)						
	3015379	(1) 5 Door Models (HE.4850361)						

Data sheet-Reach-in RLNI

Note: Revision J: Updated wiring diagrams on page 8 and 9.

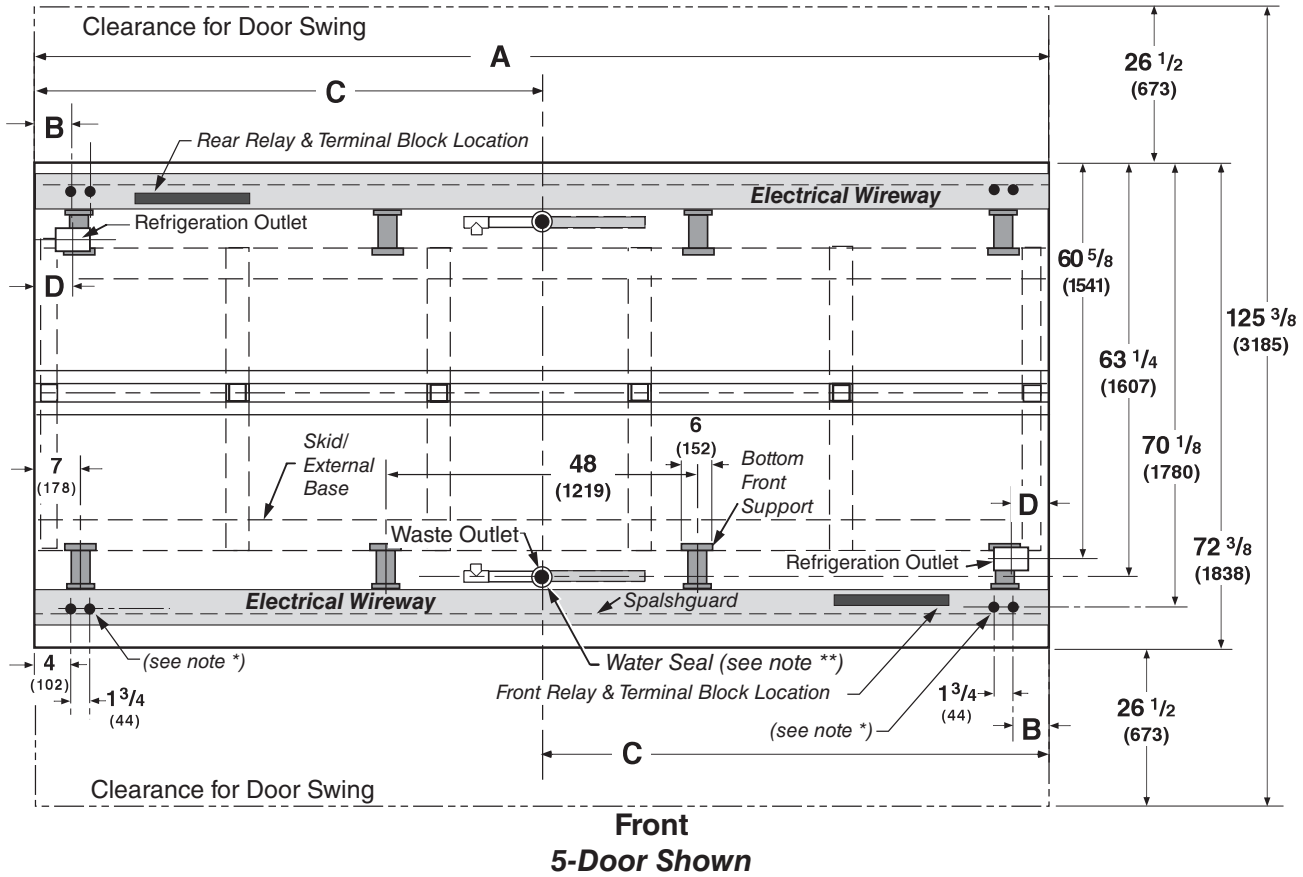
**Engineering
Plan Views**

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

**LifeLine Premier
RLNI
Plan View
09-2009**

PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	5/8





Dimensions shown as inches and (mm).



Base 5-door merchandiser is shown above, without Partitions or Ends. Dry Goods cabinets and Bump Out not available on island models. Refer to chart on Page 3 for detailed dimensional information on options.

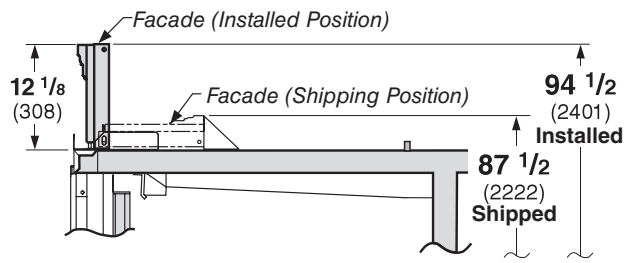
**Plan View Dimensions for
LifeLine Premier Options**

<p>LifeLine Premier RLNI With Innovator Doors or Innovator III Doors Low Temperature</p>

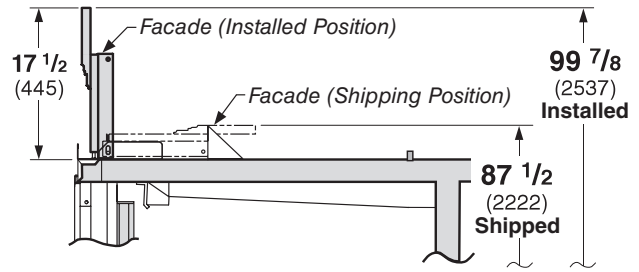
	2 Dr	3 Dr	4 Dr	5 Dr
General				
(A) Merchandiser Length	62 (1575)	92 1/2 (2350)	122 7/8 (3121)	153 3/8 (3896)
**NOTE: Each solid end adds approximately 2 3/8 in (60 mm) to length of line up each partition add approximately 2 3/4 in (70 mm); case to case joints can add approximately 1/8 in (3 mm) for gasket material.				
Maximum O/S dimension of merchandiser back to front ***	72 3/8 (1838)	72 3/8 (1838)	72 3/8 (1838)	72 3/8 (1838)
*** Includes bumper. Add 53 in. (1346 mm) for door swing.				
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)
RH end of merchandiser to the center of LH knockout	58 (1473)	88 1/2 (2248)	118 7/8 (3019)	149 3/8 (3794)
* 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)
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 RH refrigeration outlet	5 3/8 (136)	5 3/8 (136)	5 3/8 (136)	5 3/8 (136)
Back O/S of merchandiser to center of refrigeration outlet	60 5/8 (1541)	60 5/8 (1541)	60 5/8 (1541)	60 5/8 (1541)
Outside bottom front supports from end of merchandiser	7 (178)	7 (178)	7 (178)	7 (178)
Distance between centerlines of Center bottom front support	48 (1219)	48 (1219)	48 (1219)	48 (1219)
<i>Distance between Center and Outside supports will vary</i>				

LifeLine Premier RLNI

With Innovator Doors or Innovator III Doors
Low Temperature

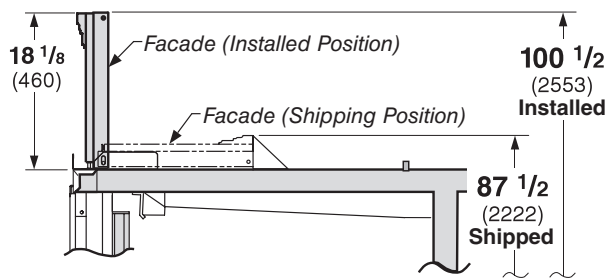


12 in. Straight Facade

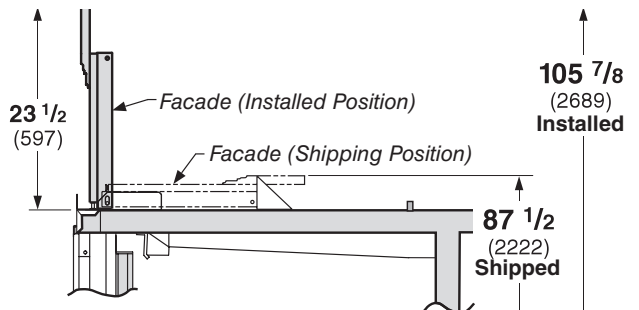


12 in. Arch Facade

Facade Options in Cross Section



18 in. Straight Facade



18 in. Arch Facade

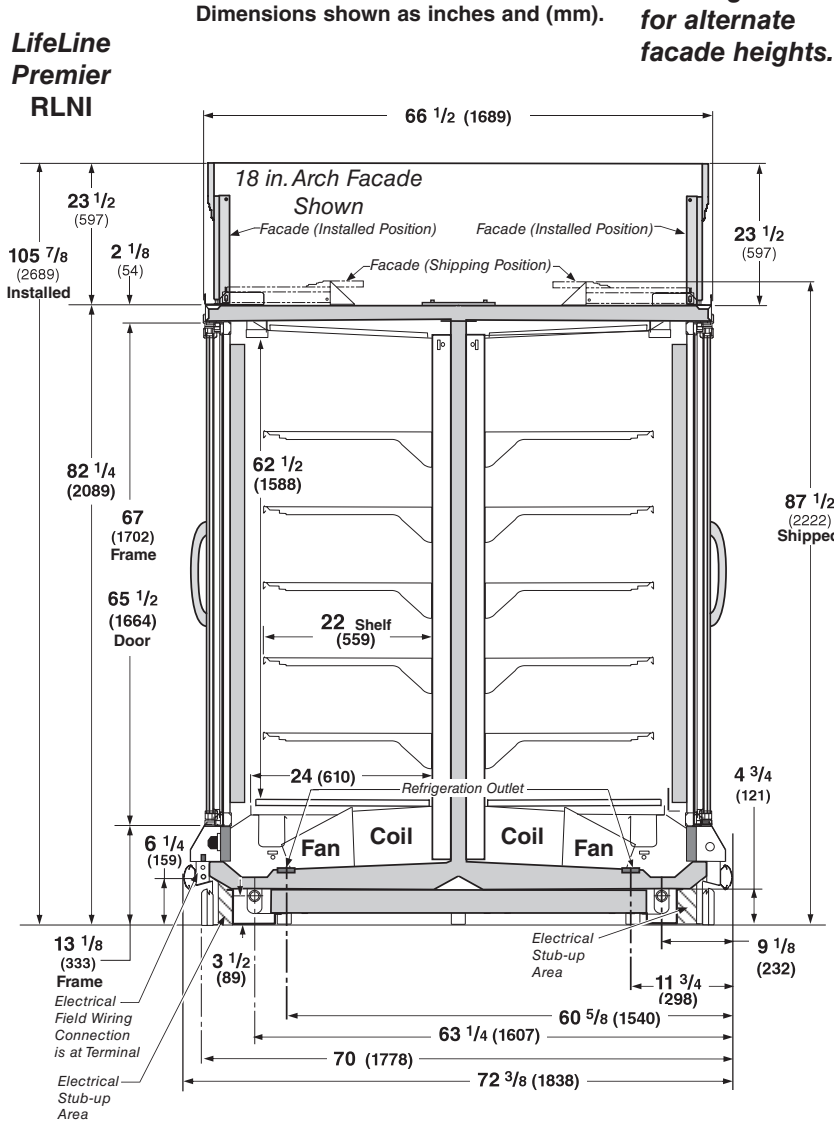
LifeLine Premier Narrow Island Reach-in 2, 3, 4 and 5 Door Models



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

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

See Page 4 for alternate facade heights.



Estimated Charge per Side ***

2Dr	1.8 lb	29 oz	0.8 kg
3Dr	2.7 lb	43 oz	1.2 kg
4Dr	3.6 lb	58 oz	1.6 kg
5Dr	4.6 lb	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 NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials & cleanability.

LifeLine Premier RLNI

With Innovator Doors or Innovator III Doors
Low Temperature

Refrigeration data is PER SIDE.

REFRIGERATION DATA[§]

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

	FF	IC	AHRI Rating*
Discharge Air (°F)	-5	-12	-2
Evaporator (°F)	-11	-19	-7
Unit Sizing (°F)	-14	-22	-10

*With A/S controller

Btu/hr/door/side

	FF	IC	AHRI Rating*
INNOVATOR I			
Parallel	865	970	840
Conventional	880	990	855
INNOVATOR III			
Parallel	815	940	
Conventional	830	960	

§ 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.

DEFROST DATA

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

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

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

	FF	IC
GAS		
Duration (minutes)	20	20
OFFTIME	Not Recommended	

CONVENTIONAL CONTROLS

	FF	IC
Low Pressure Backup Control		
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.

ELECTRICAL DATA IS PER SIDE — TWO CIRCUITS REQUIRED PER CASE.

Electrical Data

	2Dr	3Dr	4Dr	5Dr				
Number of Fans—12W	2	3	4	5				
	Amperes				Watts			
Merchandiser	2Dr	3Dr	4Dr	5Dr	2Dr	3Dr	4Dr	5Dr
Energy Efficient Evaporator Fan								
120V 50/60Hz	0.60	0.90	1.20	1.50	36	54	72	90
240V 50/60Hz Export Innovator	0.30	0.45	0.60	0.75	36	54	72	90
Door Anti-sweat Heaters (on fan circuit)								
120V 50/60Hz Innovator*	1.5	2.3	3.0	3.8	182	273	364	455
120V 50/60Hz Innovator III	0.9	1.3	1.7	2.2	104	156	208	260
240V 50/60Hz Export Innovator	0.8	1.2	1.5	1.9	183	275	367	459
220V 50/60Hz Export Innovator III	NA	NA	NA	NA	NA	NA	NA	NA
* Maximum door watts without anti-sweat cycling controls shown.								
Frame Anti-sweat Heaters (on fan circuit)								
120V 50/60Hz	0.78	1.18	1.57	1.97	94	141	188	236
240V 50/60Hz Export	0.45	0.67	0.89	1.12	107	161	215	269
Minimum Fan Circuit Ampacity								
120V 50/60Hz Innovator	3.1	4.9	6.8	8.6				
120V 50/60Hz Innovator III	2.5	3.9	5.5	7.0				
240V 50/60Hz Export Innovator	1.8	2.9	4.0	4.9				
240V 50/60Hz Export Innovator III	1.0	1.6	2.3	2.8				
Maximum Over Current Protection 120V	20	20	20	20				
Maximum Over Current Protection 240V	15	15	15	15				
Defrost								
Drain Heaters (120V)	0.63	1.25	2.00	2.57	75	150	240	300
(Export: 220V 50 Hz)	0.34	0.76	1.22	1.53	84	168	269	336
(Export: 240V 50 Hz)	0.41	0.83	1.33	1.67	100	200	320	400
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
(Export: 240V 50 Hz)	7.76	11.65	15.53	19.42	1864	2796	3728	4660
Standard Vertical LED Lighting								
	2Dr	3Dr	4Dr	5Dr	2Dr	3Dr	4Dr	5Dr
Hussmann EcoShine II™ - A (120V)	0.31	0.46	0.62	0.77	37.1	55.6	74.2	92.7
Hussmann EcoShine II™ - A (220V Export)	0.17	0.25	0.34	0.42	37.1	55.6	74.2	92.7
Optional Vertical LED Lighting								
Hussmann EcoShine II™ - B (120V)	0.36	0.52	0.68	0.84	43.2	62.3	81.4	100.5
Hussmann EcoShine II™ - B (220V Export)	0.20	0.28	0.37	0.46	43.2	62.3	81.4	100.5

Anti-sweat controls are standard for all low temperature Reach-in cases with Innovator I doors.

PRODUCT DATA IS PER SIDE.

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.

ESTIMATED SHIPPING WEIGHT ⁴

	<i>2 Dr</i>	<i>3 Dr</i>	<i>4 Dr</i>	<i>5 Dr</i>	Solid End (each)
Standard LifeLine Premier Merchandiser (12-Inch Facade, no Arch)					
lb (kg)	1204 (546)	2320 (1052)	3094 (1403)	3868 (1454)	110 (50)
Standard LifeLine Premier Merchandiser (18-Inch Facade, no Arch)					
lb (kg)	1244 (564)	2380 (1080)	3174 (1440)	3968 (1800)	110 (50)

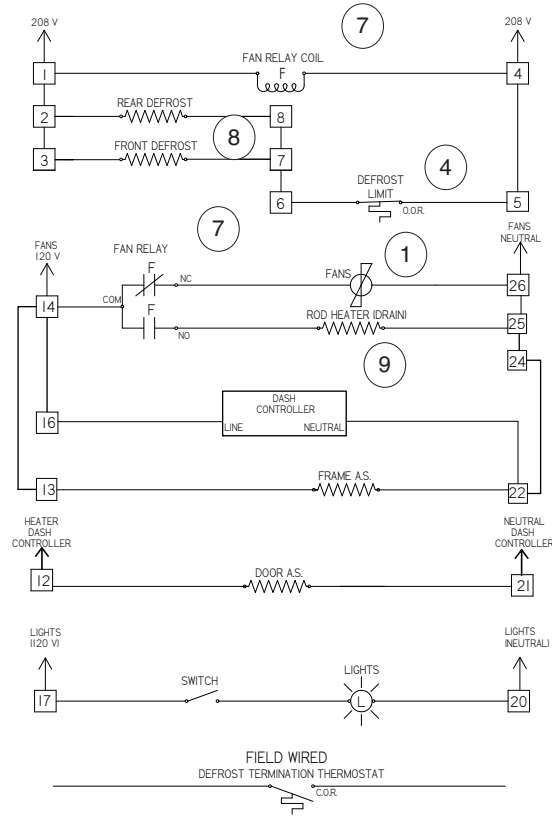
Add 10 lb (5 kg) for Arch each side

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 BR = Brown Y = Yellow OR = Orange W = White
THESE ARE MARKER COLORS (WIRE MAY VARY)

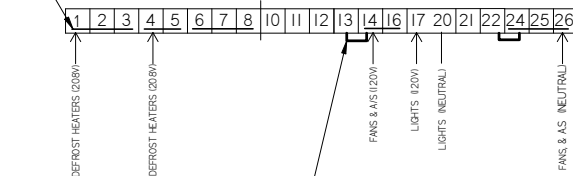


CAUTION: When multiplexing merchandisers equipped with defrost heaters, if branch circuit overcurrent protection is larger than the individual merchandiser's defrost circuit load, then additional supplemental overcurrent protection may be required per NEC Articles 210 and 240.

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

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THE HEAVY LINES DRAWN INSIDE THE TERMINAL BLOCKS REPRESENT PERMANENT INTERNAL JUMPERS.



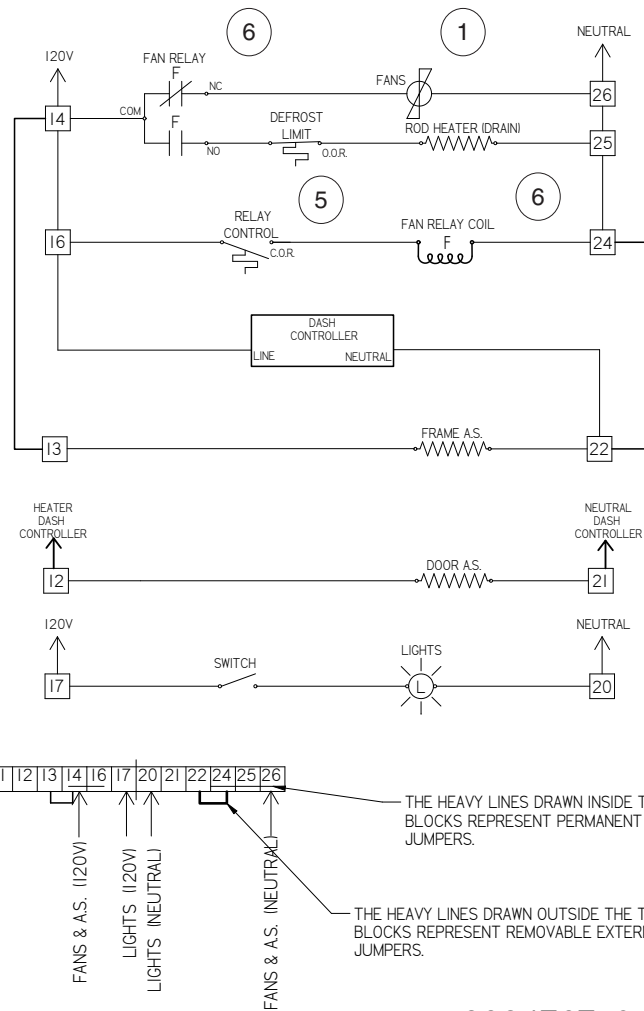
THE HEAVY LINES DRAWN OUTSIDE THE TERMINAL BLOCKS REPRESENT REMOVABLE EXTERNAL JUMPERS.

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. 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.
4. Standard low temperature Reach In cases with Innovator I doors are shipped with the DASH controller for door anti-sweat heater control installed. Do not connect the DASH controller input to a centralized anti-sweat system. It must be connected to a continuous 120V circuit for proper operation.
5. If the case is connected to a centralized anti-sweat controller that meets DOE compliance requirements, the DASH controller is not installed on the case. Feed the 120V controller output into terminal #12.
6. Options may be installed that have additional or replacement wiring diagrams.
7. Reach In cases with Innovator III doors do not have the DASH controller.

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

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



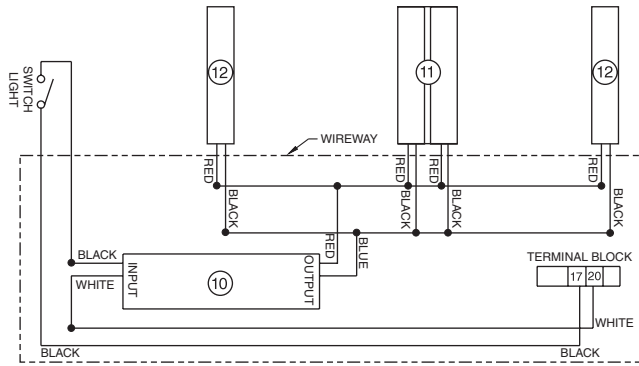
Refer to *Innovator Reach-In Glass Door, Installation and Service manual, P/N 0425683*, for *Innovator* door and frame replacement parts.

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Gas Defrost Sequence - Low Temperature

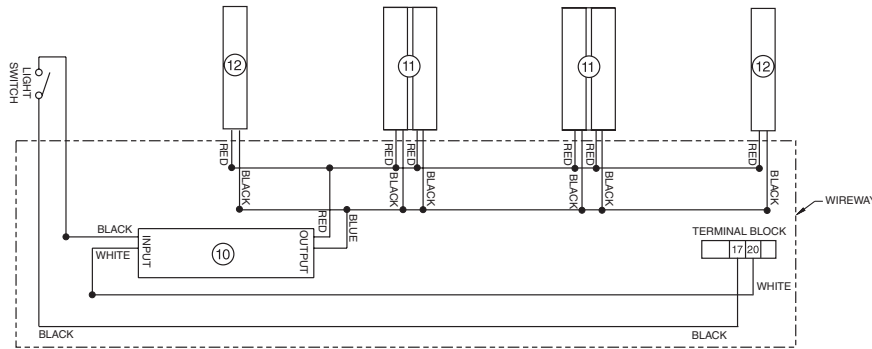
1. Defrost vapor enters evaporator causing a rise in temperature. At about 35°F the Control Relay Thermostat (5) closes the Fan Relay Coil (7) and Control Relay Coil (6) circuit. The Coil opens the Fan, Door Heater, and Frame Heater circuits, while energizing the Drain Pan Heater (9).
2. If the Drain 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 Control Relay Thermostat will open, de-energizing the Control Relay Coil and Fan Relay Coil (7). Control and Fan Relay's will open the Drain Pan Heater circuits, and will close the Fan, Door Heater, and Frame Heater circuits.
4. Standard low temperature Reach In cases with Innovator I doors are shipped with the DASH controller for door anti-sweat heater control installed. Do not connect the DASH controller input to a centralized anti-sweat system. It must be connected to a continuous 120V circuit for proper operation.
5. If the case is connected to a centralized anti-sweat controller that meets DOE compliance requirements, the DASH controller is not installed on the case. Feed the 120V controller output into terminal #12.
6. Options may be installed that have additional or replacement wiring diagrams.
7. Reach In cases with Innovator III doors do not have the DASH controller.

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

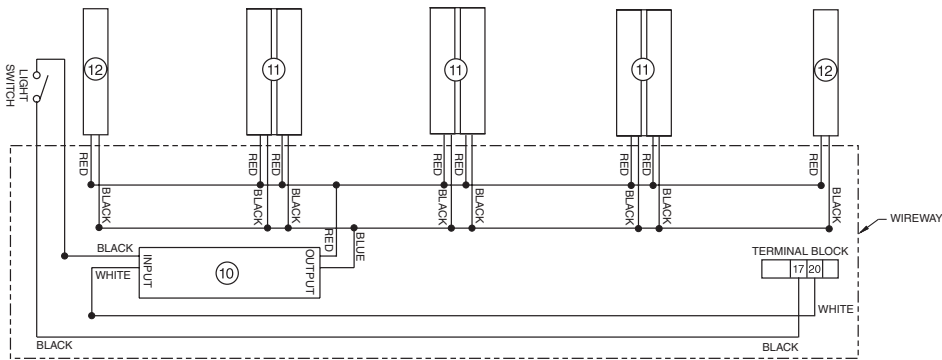


2 DOOR LED LIGHT WIRING DIAGRAM

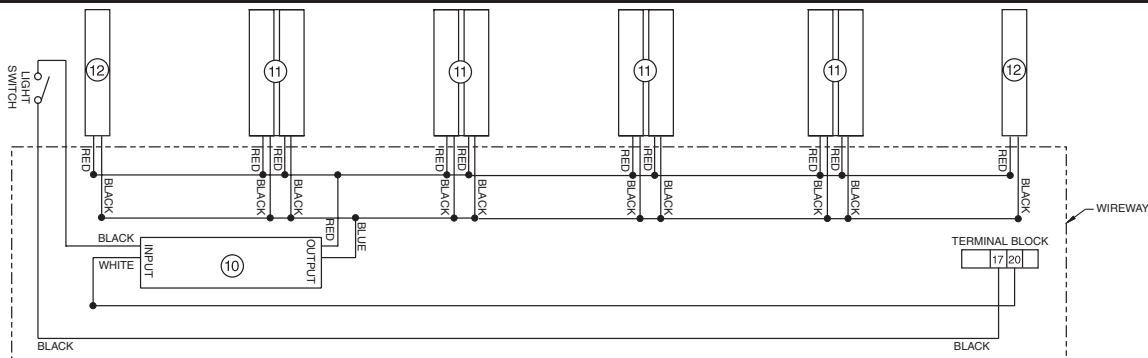
Wiring Diagram is per side — two circuits required per case.



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

● = 120v Power ○ = 120v Neutral ⚭ = Field Ground ≡ = Case Ground

Wiring Diagram is per side — two circuits required per case.

LifeLine Premier RLNI

With Innovator Doors or Innovator III Doors
Low Temperature

Optional Lighting Circuits

Wiring Diagram is per side — two circuits required per case.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

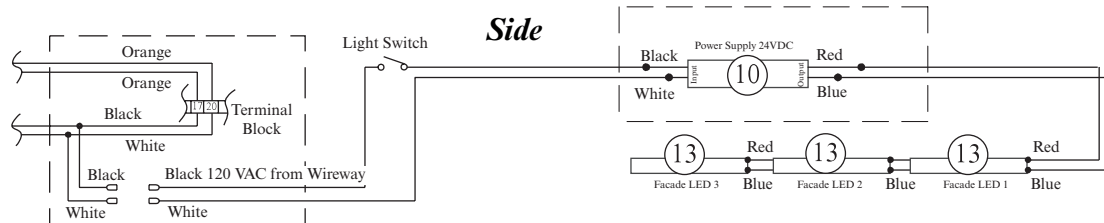
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BR = Brown Y = Yellow OR = Orange W = White

THESE ARE MARKER COLORS (WIRE MAY VARY.)

External Facade LED Wiring



Lights Connected in Series - Maximum of Five (5) Light per Power Supply

Enclosure or Wireway

WARNING

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

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

● = 120v Power

○ = 120v Neutral

⊥ = Field Ground

⋯ = Case Ground

Wiring Diagram is per side — two circuits required per case.