HUSSMANN®

RMN with INNOVATOR Doors

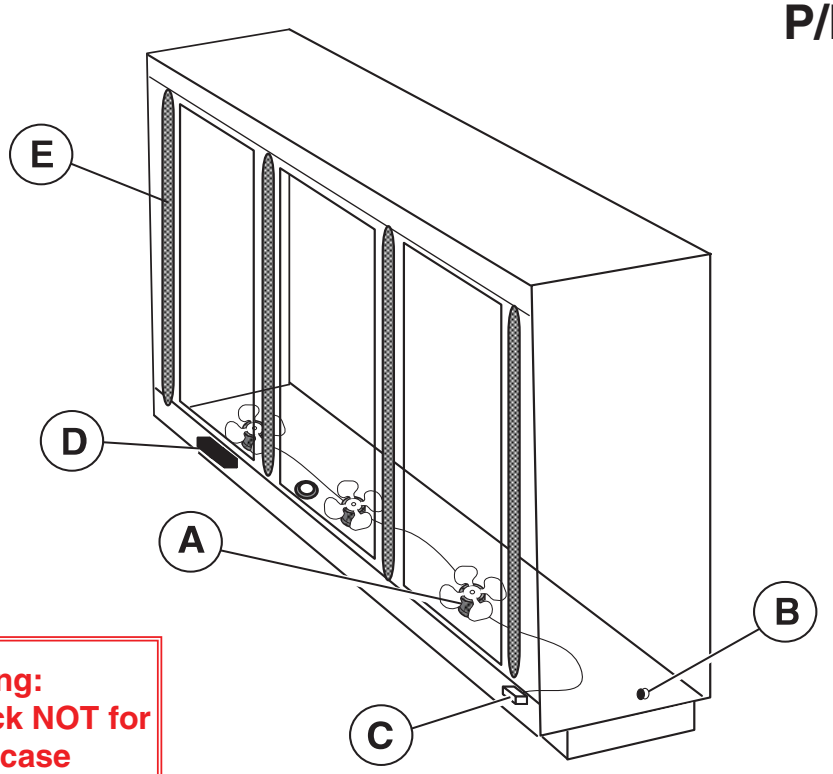
Technical Data Sheet

P/N 0520870_G

NSF® Certified

April 2017

DOE 2017
Energy Efficiency Compliant



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 #
FAN ASSEMBLIES, AND THERMOSTATS			
A.		**12W Standard Energy Efficient** Fan Assembly	(1)
	0477655	Fan Motor, Evaporator (MO.4410546)	
	0461805	Fan Blade (FB.4780446)	
B.		Optional Adjustable Refrigeration Thermostat	(2)
CONTROL (RMF ONLY)			
C.		Fan Control (RMF)	(3)
	0534013	Optional Fan Speed Control, 120V, 60Hz (CT.4440734)	

Item	Part #	Description	Wiring Item #
LED FIXTURES AND POWER SUPPLY			
D.	0499399	LED Power Supply EP.4481668)	
E.		LED Fixture *Replace with like fixtures*	

Refer to INNOVATOR REACH-IN GLASS DOOR INSTALLATION AND SERVICE ***manual, PIN 0425683, for Innovator, Innovator II, and Innovator III door and frame replacement parts***

Data sheet-Reach-in RMN

Note: Revision G: April 2017. Updated LED energy values. Other changes marked with a bar, circle or underline.

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Spanish P/N 0553994

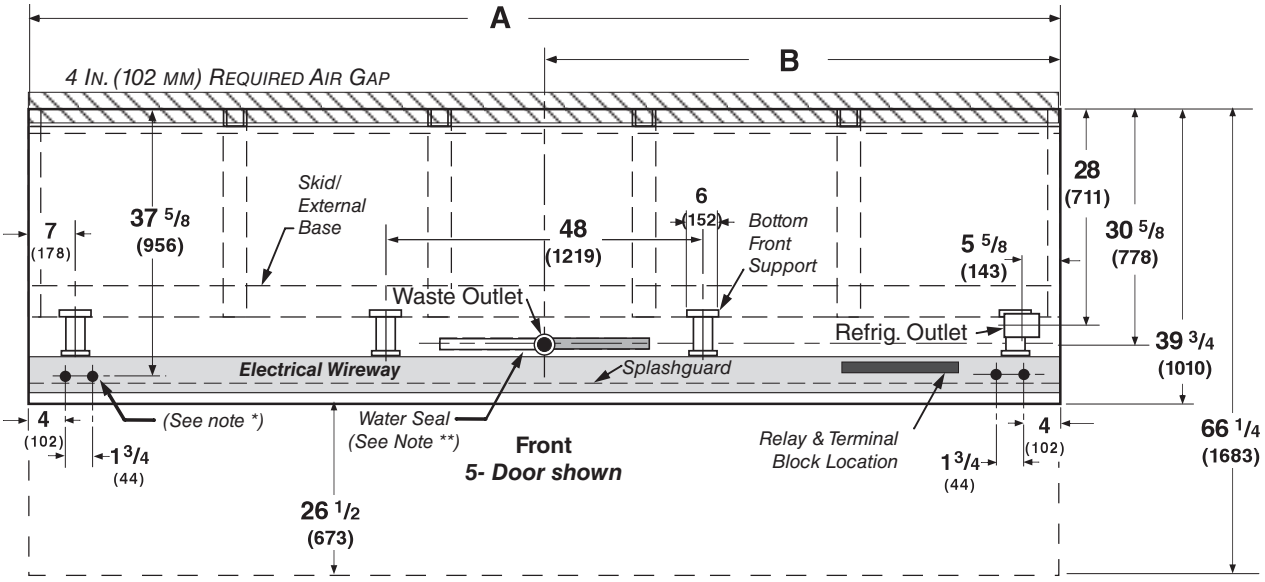
Engineering
Plan Views

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

RLN - RMN
Plan View

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

Dimensions shown as in. & (mm).



General	2 Dr	3 Dr	4 Dr	5 Dr
(A) Case Length (without ends or partitions)	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 case back to front *(Includes bumper)*	39 3/4 (1010)	39 3/4 (1010)	39 3/4 (1010)	39 3/4 (1010)
Back of case to rear of splashguard	35 3/8 (899)	35 3/8 (899)	35 3/8 (899)	35 3/8 (899)
Width of Skid rail	4 1/2 (114)	4 1/2 (114)	4 1/2 (114)	4 1/2 (114)
Width of Bottom Front Support	6 (152)	6 (152)	6 (152)	6 (152)
Stub-up area between front Skid rail and splashguard	6 3/8 (1000)	6 3/8 (1000)	6 3/8 (1000)	6 3/8 (1000)
Electrical Service				
RH end of case to the center of nearest knockout	4 (102)	4 (102)	4 (102)	4 (102)
(B) RH end of case to the center of LH knockout	58 (1473)	88 1/2 (2248)	118 7/8 (3019)	149 3/8 (3794)
Back O/S of case to center of knockout	37 5/8 (956)	37 5/8 (956)	37 5/8 (956)	37 5/8 (956)
* *NOTE: Electrical Field Wiring Connection Point is at terminal.*				
Waste Outlet				
(C) Right end of case to center of waste outlet	23 3/4 (603)	54 1/4 (1378)	46 1/4 (1175)	76 5/8 (1946)
Back O/S of case to center of waste outlet	34 5/8 (879)	34 5/8 (879)	34 5/8 (879)	34 5/8 (879)
Water Seal				
Edge of water seal to center of waste outlet	13 (330)	13 (330)	13 (330)	13 (330)
Outside diameter of drip piping	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 case*				
Refrigeration Outlet				
RH end of case to center of RH refrigeration outlet	5 3/8 (137)	5 3/8 (137)	5 3/8 (137)	5 3/8 (137)
Back O/S of case to center of refrigeration outlet	28 (711)	28 (711)	28 (711)	28 (711)
(D) Outside bottom front supports from end of case	6 3/4 (170)	6 3/4 (170)	6 3/4 (170)	6 3/4 (170)
Center bottom front support from Centerline	24 (610)	24 (610)	24 (610)	24 (610)
Distance between Center and Outside supports will vary				

RMN

With Innovator Doors or Innovator III Doors

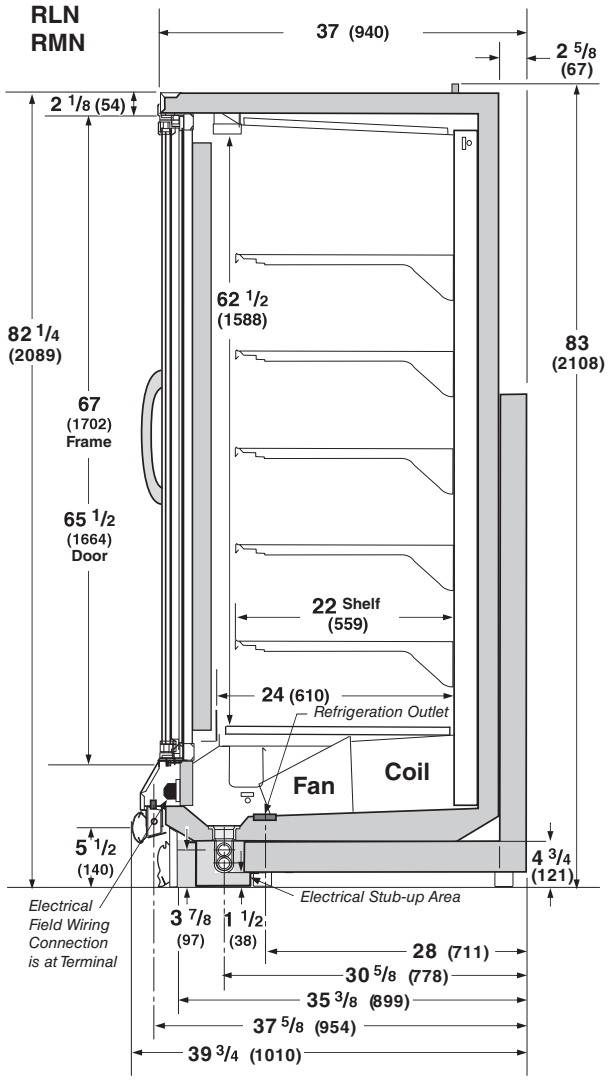
Dairy, Delicatessen, Beverages

DOE 2017 Energy Efficiency Compliant

All RL and RM models meet or surpass the requirements of the DOE 2017 energy efficiency standards.

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

Dimensions shown as in. & (mm).



PHYSICAL DATA

Estimated Charge ***

2Dr	1.8 lb	29 oz	0.8 kg
3Dr	2.7 lb	43 oz	1.2 kg
4Dr	3.6 lb	57 oz	1.6 kg
5Dr	4.6 lb	73 oz	2.0 kg

***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.

REFRIGERATION DATA§

Note: This data is based on store temperature and humidity levels that do not exceed NSF guidelines.

	MEDIUM TEMP	AHRI Rating
Discharge Air °F	32	36
Evaporator °F	27	32
Unit Sizing °F	25	30

BTU/HR/DOOR

	NSF TYPE I	*NSF TYPE II*	*AHRI RATING*
Temp (°F) /R.H.	**75°/ 55%**	**80°/ 55%**	
INNOVATOR			
Parallel	480	505	470
Conventional	500	525	490

§ 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

Frequency (hr) 24
Defrost Water (lb/Dr/day) **0.36**
(± 15% based on case configuration and product loading.)

ELECTRIC NA
Temp Term (°F) NA
Failsafe (minutes) NA

GAS Not Recommended

OFFTIME 60 minutes

CONVENTIONAL CONTROLS

Low Pressure Backup Control
CI/CO (Temp °F)** **+20°/ +10°**
Indoor Unit Only, Pressure Defrost Termination (Temp °F)**
Not Recommended

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

RMN

With Innovator Doors or Innovator III Doors

Dairy, Delicatessen, Beverages

Hussmann recommends against frame heater cycling with *Innovator* doors or *Innovator III* 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**

	Amperes				Watts			
Merchandiser	**2Dr**	**3Dr**	**4Dr**	**5Dr**	**2Dr**	**3Dr**	**4Dr**	**5Dr**
Energy Efficient Evaporator Fan								
120V 50/60Hz Innovator	0.60	0.90	1.20	1.50	36	54	72	90
220V 50/60Hz Export Innovator	0.30	0.45	0.60	0.75	36	54	72	90
Door Anti-sweat Heaters (on fan circuit)	**NA**							
Frame Anti-sweat Heaters (on fan circuit)								
120V 50/60Hz	0.40	0.60	0.80	1.00	47	71	94	118
220V 50/60Hz Export Innovator	0.20	0.30	0.40	0.50	47	71	94	118
Minimum Circuit Ampacity								
120V 50/60Hz	1.20	1.70	2.20	2.70				
220V 50/60Hz Export	0.70	0.95	1.20	1.45				
Maximum Over Current Protection 120V	**20**	**20**	**20**	**20**				
Maximum Over Current Protection 220V	15	15	15	15				
Defrost	**NA**							
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

Product Data

Recommended Usable Cube [1] ***(Cu Ft/Dr)***	22.80 ft^3/Dr (0.65 m^3/Dr)
AHRI Total Display Area [2] **(*Sq Ft/Dr*)**	13.04 ft^2/Dr (1.21 m^2/Dr)
Shelf Area [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, ft^3/ft [m^3/m]
[2] Computed using AHRI 1200 standard methodology: Total Display Area, ft^2 [m^2]/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]

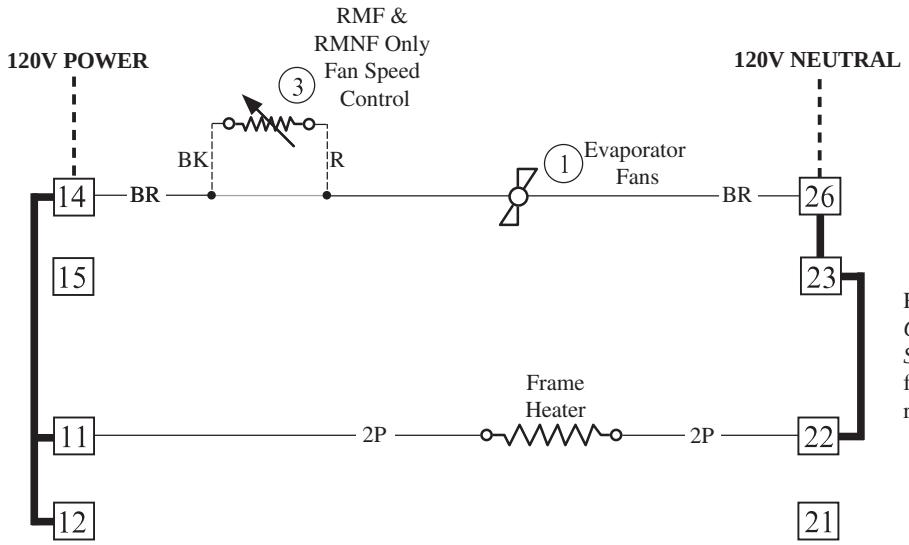
Case					**Solid End**
	2 Dr	***3 Dr***	***4 Dr***	***5 Dr***	***(each)***
lb *(kg)*	895 (407)	1122 (510)	1518 (690)	1870 (850)	55 (25)

[4] Actual weights will vary according to optional kits included.

Fan and Heater Circuits - Offtime Defrost (standard)
Medium 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.)



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