

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

NOTE: Revision L adds NOTE on page 2. Other changes marked by bar, underline or circle.

5 Door Models

2 Door Models

3 Door Models

4 Door Models

5 Door Models

(I) Drain Pan Heater (Electric & Kool Gas) (120V) (9)

0461941 (1)

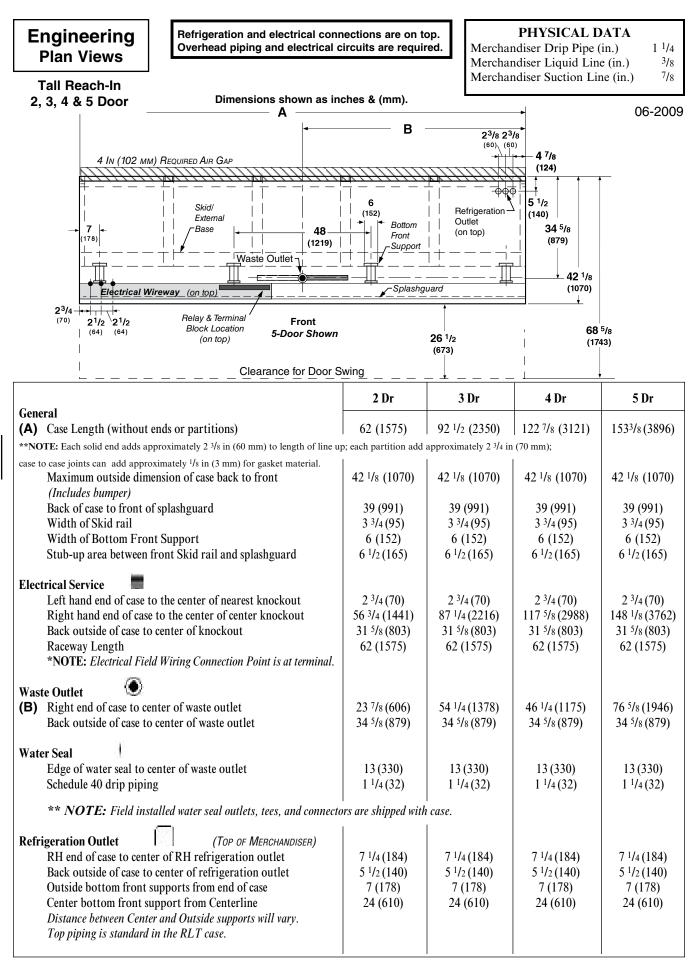
0508199 (1)

0508200 (1)

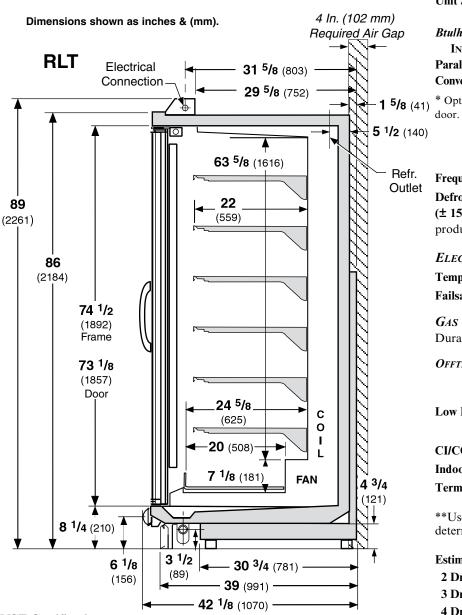
0508201 (1)

0508202 (1)

Data sheet-Reach-in RLT



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



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 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		

Btulhr Door*		
INNOVATOR		
Parallel	1105	1295
Conventional	1130	1320

* Optional Ecoshine 27W LED's add 20 Btu/hr/

DEFROST DATA

		-
	FF	IC
Frequency (hr)	24	24
Defrost Water (lb/Dr/day)	1.2	1.3
(± 15% based on case conf product loading.)	igurat	ion and
Electric	FF	IC
Temp Term (°F)	54°	54°
Failsafe (minutes)	48	48
GAS		
Duration (minutes)	22	22

Duration (minutes)	22	22
Offtime	Not Recor	nmended

CONVENTIONAL CONTROLS

Low Pressure Backup Control

IC

FF 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	l Charge ***		RLT
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 (8 oz / 0.2 kg).

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

Electrical Data

	6 F			2Dr	3Dr	4Dr	5Dr				
Number o	of Fans			2	3	4	5		W 7	atts	
				2Dr	3Dr	oeres 4Dr	5Dr	2Dr	3Dr	alls 4Dr	5Dr
Energy Fi	fficient Evap	orator Fan		201	501	41/1	501	201	501	4D1	501
	50/60Hz Inr			1.65	2.5	3.3	4.1	125	188	250	313
		port Innovato)r	0.9	1.4	1.8	2.3	125	188	250	313
		ters (on fan ci		0.9	1.1	1.0	2.5	125	100	200	515
	50/60Hz Inr		cuit)	1.1	1.7	2.2	2.8	134	200	267	334
		port Innovato	or	0.7	1.1	1.5	1.8	153	230	306	382
		aters (on fan c		017		110	110	100	200	200	002
	50/60Hz Inr			0.96	1.43	1.92	2.4	115	172	230	288
		port Innovato	or	0.5	0.8	1.1	1.3	115	172	230	288
	Circuit Am	-									
120V	50/60Hz	Innovator Ele	ctric Defrost	5.7	7.2	9.3	11.6				
120V	50/60Hz	Innovator Ko		5.5	8.7	11.7	14.8				
220V	50/60Hz		r Electric Defrost	3.2	4.2	5.5	6.8				
220V	50/60Hz	-	or Koolgas Defrost	3.8	6.0	8.1	10.1				
Maximun	n Over Curr	ent Protection	n 120V	20	20	20	20				
Maximun	n Over Curr	ent Protection	n 220V	20	20	20	20				
Defrost											
Drain I		ol-Gas or Ele									
	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-C		ental Heaters									
	120V	50/60Hzz	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	e Defrost He										
	208V	50/60Hzz	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 LIGH	TING CONFIG	URATIONS THA	T ARE COMPLIANT	WITH THE	U.S. DEP	t. of Enei	RGY (DOE) 2	2012 REGULAT	TION ARE A	VAILABLE	FOR SALE
	N THE U.S.A.										
Standard V	ertical LED	Lighting 4100K		2Dr	3Dr	4Dr	5Dr	2Dr	3Dr	4Dr	5Dr
Hussma	nn EcoShine	II ™ [22 W] (12	20V)	0.36	0.54	0.72	0.90	43	65	86	108
Hussman	nn EcoShine I	I™[22 W] (220	W Export)	0.20	0.29	0.39	0.49	43	65	86	108
	ertical LED I	0 0									
	e II Plus [24]			0.36	0.52	0.68	0.84	43	62	81	100
EcoShin	e II Plus [24	W] (220V) Expo	ort	0.18	0.26	0.34	0.42	43	62	81	100

0.30

0.16

0.45

0.25

0.60

0.33

0.75

0.41

GE Illumination (120V)

GE Illumination (220V Export)

54

54

72

72

90

90

36

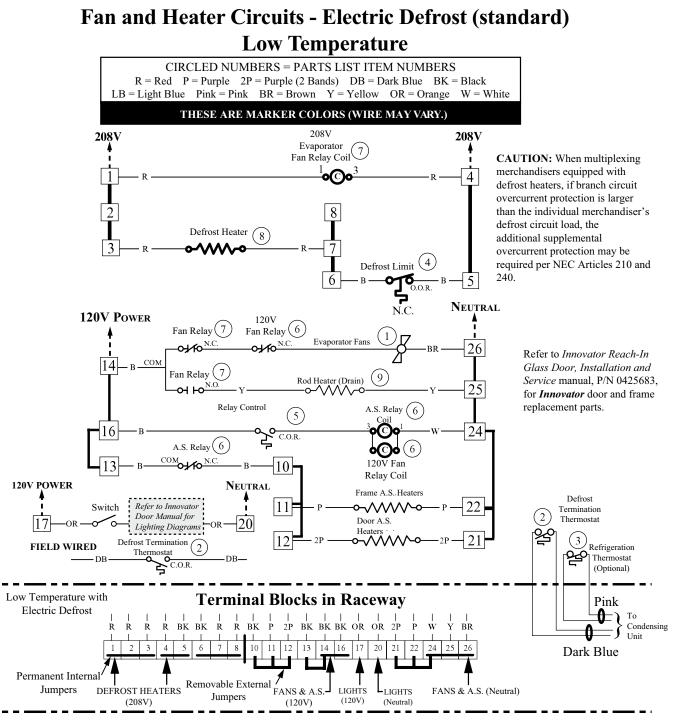
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Product Data

Recommended Usable Cube ¹ (Cu FtlDr)	24.95 ft ³ /Dr (0.71 m ³ /Dr)
AHRI Total Display Area ² (Sq FtlDr)	13.59 ft ² /Dr (1.26 m ² /Dr)
Shelf Area ³ (Sq FtlDr)	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.

ESTIMATED SHIPPING WEIGHT ⁴									
Case						Solid End			
	1 Dr	2 Dr	3 Dr	4 Dr	5 Dr	(each)			
lb (<i>kg</i>)	NA (NA)	926 (420)	1290 (585)	1637 (743)	2006 (910)	60 (27)			



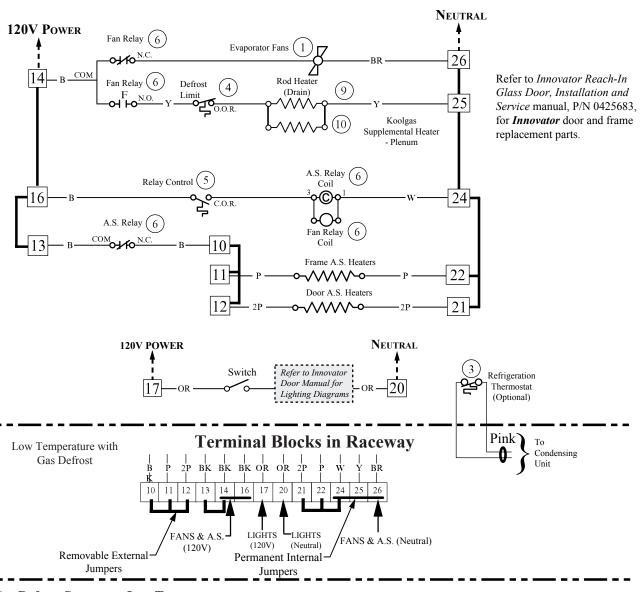
Electric Defrost Sequence - Low Temperature

- 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.
- Temperature rise of the evaporator closes the Relay Control Thermostat (5) at about 35°F, energizing 120V A.S. 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.
- Temperature fall of the evaporator opens the Relay Control Thermostat (5) at about 20°F, de-energizing 120V A.S. 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 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.)



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 and Control Relay Coil (6) circuit. The Coil opens the Fan, Door Heater, and Frame Heater circuits, while energizing the Drain Pan, Bottom, and Plenum Heaters (9), (10) and (11).
- 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.

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RLT (220V) with INNOVATOR Doors

June 2015

	Wa rminal b case	List is on Page 1. Diock NOT for to-case onnection!				F G		ele are pip	frigeration and ectrical connection on top. Overhee bing and electric cuits are required we reserve the right to cl or revise specifications ar product design in connect with any feature of our products. Such changes do not entitle the buyer the corresponding changes, improvements, additions replacements for equipmed previously sold or shippe	ad al ed.
ItemP	art #	Description	Wiring I	tem #	ItemP	art #	(Qty)	Description	Wiring Iten	1 #
FAN A (A) (B) (C) (D) (E) (E) (F) (G) (H)	Fan Asser 0435101 0315470 0331798 0440423 0446007	AND THERMOSTATS nbly Standard Energy Efficie Fan Blade Standard Non-adjustab Defrost Thermostat Optional Adj. Refriger Defrost Limit Thermost Relay Control Thermos Fan and Anti-sweat He Thermostat Control Relay (220V) Control Relay (220V) Transformer	le ation Thermostat at stat or	 (1) (2) (3) (4) (5) (6) (7) 	(J) (K)	0460110 0460111 0460112 0460113 Koolgas S 0460118 0460119 0460120 0460121	n Heate (1) (1) (1) (1) (1) (1) (1) (1) (1) AND PO	2 Door Mode 3 Door Mode 4 Door Mode 5 Door Mode	els els els 220V) – Plenum els els els els Supply (EP.44816	(9) (10) 68)
Heati (I)		efrost Heaters (208V) (1) 2 Door Models (1) 3 Door Models (1) 4 Door Models (1) 5 Door Models		(8)	repres serial are at	sentative au number av t www.hus	t 1-800- pailable. SSMANN	922-1919. Plea Descriptions i .COM/SERVICE	ct your Hussmann se use have your model of ncluding size and col ANDPARTS.	and