

HUSSMANN®

microDS™

RLNI-SP

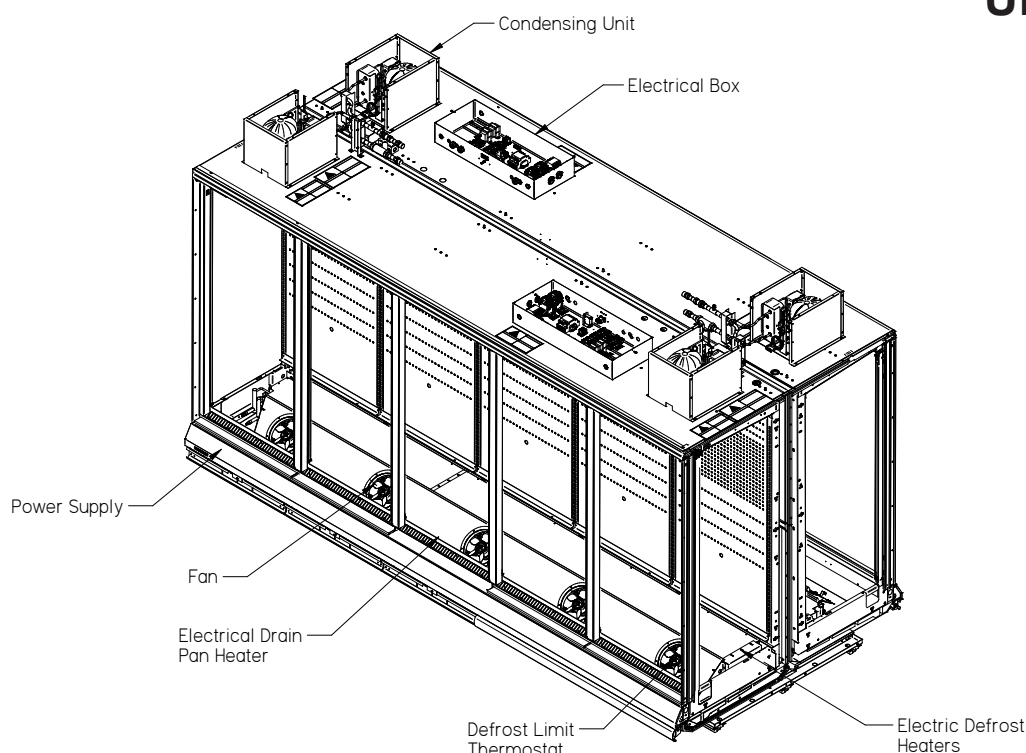
INNOVATOR Doors or
INNOVATOR III Doors
Self-Contained
R-290 (Propane)

Merchandiser Data Sheet

P/N 3036862_E

UL EPH® Certified

December 2020



Portion of parts removed for clarity.

5-door merchandiser shown.

DOE 2017
Energy Efficiency
Compliant



UL EPH Certification

This merchandiser model is manufactured to meet ANSI/SCC Standards requirements for construction, materials, and cleanability.

**Standard electrical connections
are at the top of the merchandiser**

Performance Data
Product Data (AHRI Statistics)
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Data sheet-RLNI-SP

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.

RLNI-SP

With INNOVATOR or INNOVATOR III Doors
Low Temperature

Refrigeration Data ¹

RLNI-SP		Optimal Shelf Life	
Application		Frozen Food (FF)	Ice Cream (IC)
Temperature	Discharge Air °F (°C)	-3 (-19.4)	-12 (-24.4)

Notes:

1. All data based on store temperature and humidity that does not exceed NSF Type 1 ambient conditions of 75°F and 55% relative humidity, except where noted.
2. Water supply design conditions are 50-80°F.

Compressor Data (per side)

Total Heat of Rejection BTU/Hr

4 Door 8,885
5 Door 9,970

Cooling Water Pressure Drop

Auto-Balancing Valve requires a minimum of 2 PSI to operate. Subtract 2 PSI if the Auto-Balancing Valve is not supplied.

4 Dr PSI
5 Dr 3.5

Glycol/Water Flow Rate ⁴

	(per side) GPM	LPM
4 Door	2.5	9.5
5 Door	3	11.4

⁴ Use a pre-mixed inhibited glycol solution. If the mixing is to be done on site, use only distilled or de-ionized water (do not use city water).

Defrost Data

Frequency (hours between defrost) 24

	RLNI-SP
Time (minutes)	45
Failsafe Temp Termination (°F)	48

ELECTRIC OR GAS Electric

Defrost Water ³ 1.2 lb/dr/day
(0.5 kg/m)

³ (± 15% based on case configuration and product loading).

Charge ⁵

4 Door ⁶	0.27 lb	4.4 oz	125 g
5 Door ⁶	0.33 lb	5.3 oz	150 g

⁵ Maximum charge per condensing unit = 150 g.

⁶ 2 condensing units per case.

Product Data (per side)

Gross Refrigerated Volume ⁶ (Cu Ft/Dr)	22.80 ft ³ /dr (0.65 m ³ /m)
AHRI Total Display Area ⁷ (Sq Ft/Dr)	13.04 ft ² /dr (1.21 m ² /m)
Shelf Area ⁸ (Sq Ft/Dr)	28.50 ft ² /dr (2.65 m ² /m)

⁶ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

⁷ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

⁸ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5 per door) 22-inch shelves, evenly distributed vertically.

Reach-in Multideck Merchandiser, 6 Display Levels,
Low Bottom, Narrow Height Front, Island

RLNI-SP
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Low Temperature

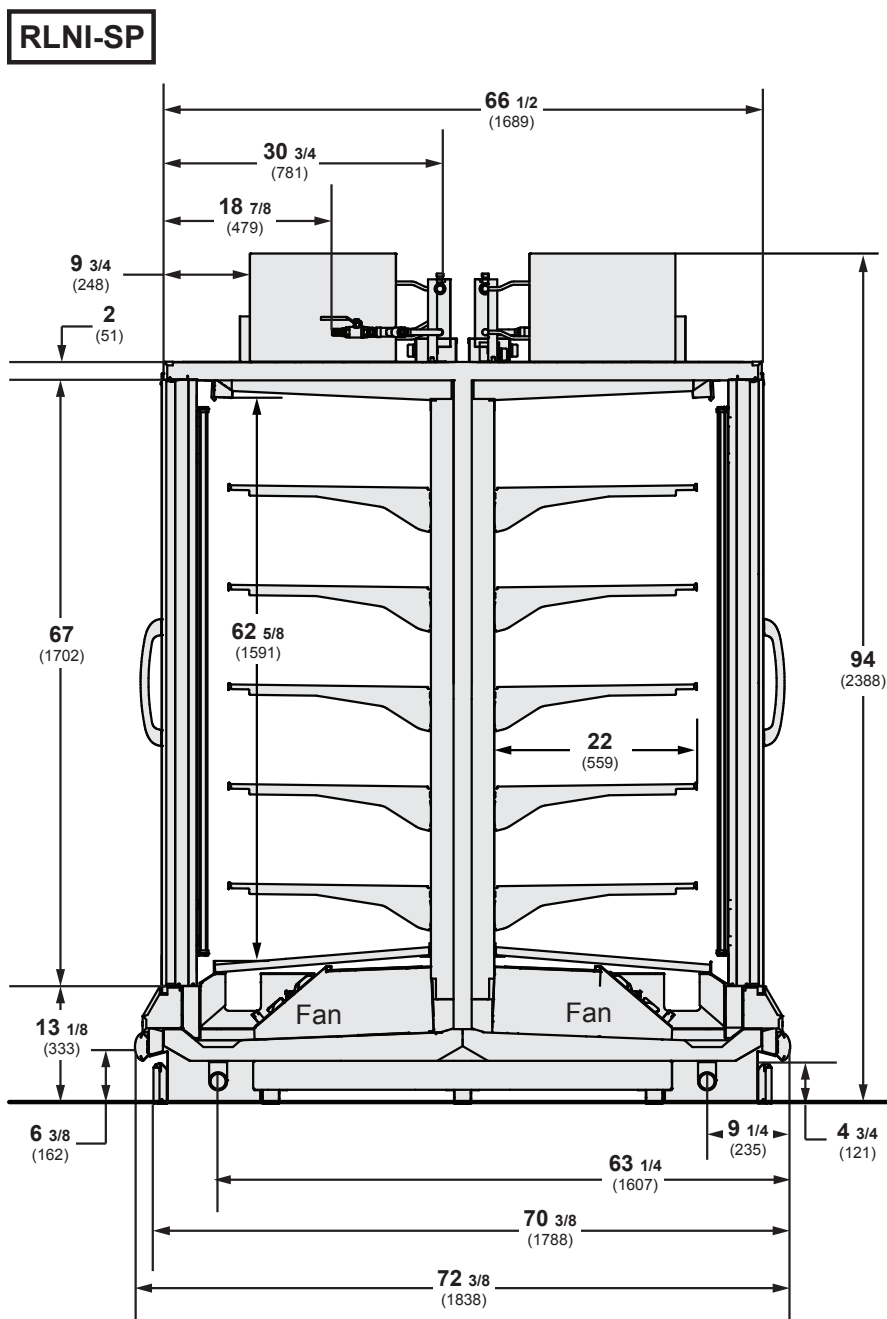
DOE 2017
Energy Efficiency
Compliant

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

Dimensions shown as in. and (mm).

Shelf complement shown as tested:

Five rows of shelves per door (22-in)
spaced equally between bottom
display pan and interior top panel.

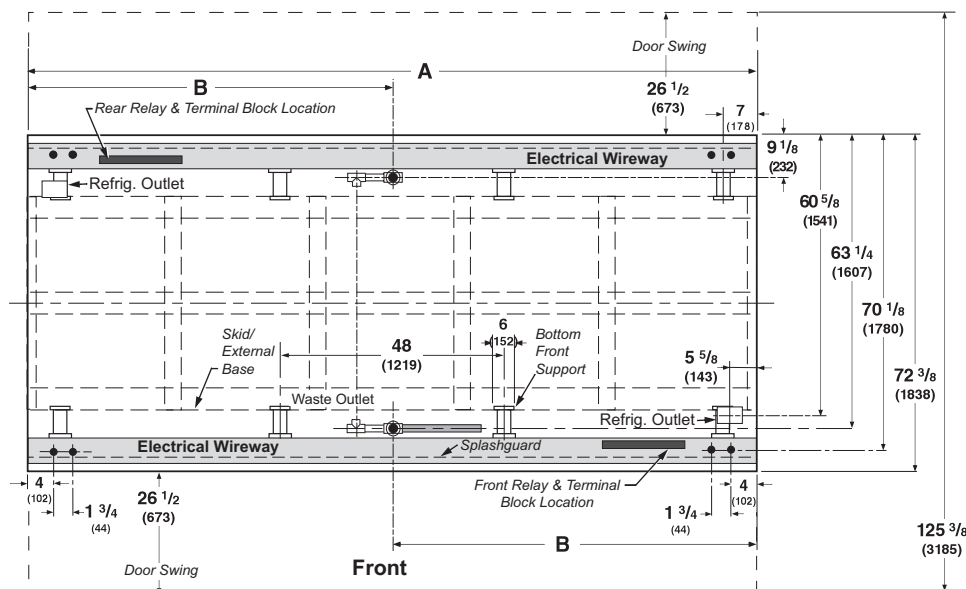


UL EPH Certification

This merchandiser model is manufactured to meet ANSI/SCC Standards requirements for construction, materials, and cleanliness.

RLNI-SP 4 & 5 Door

Dimensions shown as in. and (mm).



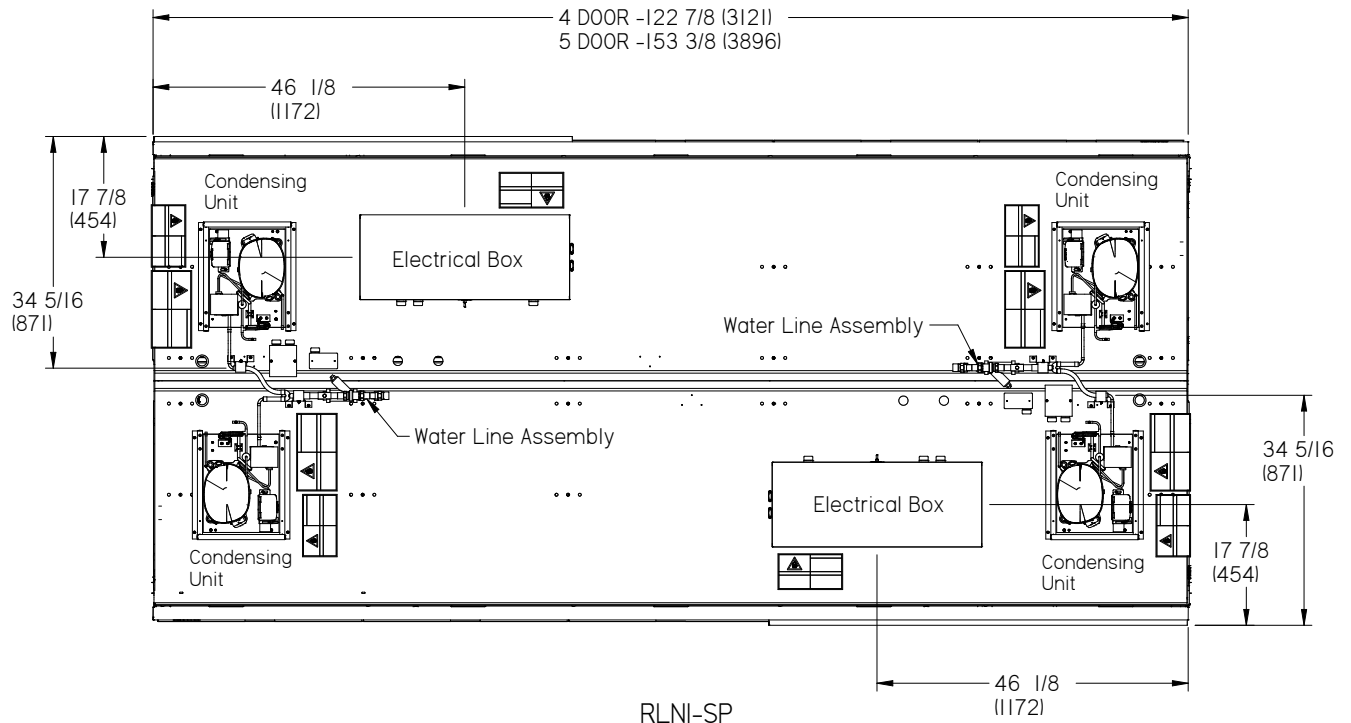
(5 Door Model shown above)

	4 Dr	5 Dr
General		
(A) Case Length <i>(without ends or partitions) (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.)</i>	122 7/8 (3121)	153 3/8 (3896)
Maximum O/S dimension of case back to front <i>(includes bumper) (Add 26 1/2 in. (673 mm) for door swing.)</i>	72 3/8 (1837)	72 3/8 (1837)
Back of case to rear of splashguard	68 1/2 (1740)	68 1/2 (1740)
Width of Skidrail	3 3/4 (95)	3 3/4 (95)
Width of bottom front support	6 (152)	6 (152)
Stub-up area between front skidrail and splashguard	9 (229)	9 (229)
Electrical Service <i>(Field Electrical Wiring Connection)</i>		
RH End of case to center of Electrical Wiring Connection <i>(top of case)</i>	26 1/2 (673)	26 1/2 (673)
Back O/S of case to center of Electrical Wiring Connection <i>*NOTE: Electrical Wiring Connection point is at terminal.)</i>	47 1/2 (1207)	47 1/2 (1207)
Waste Outlets <i>(with required drain extension)</i>		
(B) RH End of case to the center of waste outlet	46 1/4 (1175)	76 5/8 (1946)
Back O/S of case to center of waste outlet(s)	63 1/4 (1607)	63 1/4 (1607)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)
Water Seal		
Edge of water seal to center of waste outlet <i>**NOTE: Field installed water seal outlets, tees, and connectors are shipped with case.</i>	13 (330)	13 (330)

Engineering Plan View

RLNI-SP Top Views

RLNI-SP
With INNOVATOR or INNOVATOR III Doors
Low Temperature



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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 IS PER SIDE — TWO CIRCUITS REQUIRED PER CASE.

Electrical Data

Number of Fans

8.25-in.

4 Dr	5 Dr
4	5

Energy Efficient Evaporator Fan

120V	50/60Hz	Innovator
120V	50/60Hz	Innovator III

Amperes

4 Dr	5 Dr
1.20	1.50
1.20	1.50

Watts

4 Dr	5 Dr
72	90
72	90

Door Anti-Sweat Heaters (on fan circuit)

120V	50/60Hz	Innovator
120V	50/60Hz	Innovator III

4 Dr	5 Dr
3.00	3.80
1.70	2.20

4 Dr	5 Dr
364	455
208	260

Frame Anti-Sweat Heaters (on fan circuit)

120V	50/60Hz	Innovator
120V	50/60Hz	Innovator III

4 Dr	5 Dr
1.57	1.97
1.57	1.97

4 Dr	5 Dr
188	236
188	236

Defrost

120V	Drain Heaters
208V	Electric Defrost

4 Dr	5 Dr
2.00	2.57
13.46	16.82

4 Dr	5 Dr
240	300
2800	3500

Condensing Unit (208/230V, 1 ph, 60 Hz) Standard

NOTE: One compressor can start at a time.

Compressor RLA
Compressor LRA

7.0	7.0
25/unit	25/unit

Merchandiser Circuit Requirements (208V, 1 Ph, 60 Hz)

Total Amps
MCA
Maximum Over Current Protection

18.0	22.4
22.5	28.1
30	30

ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLIANT WITH THE U.S. DEPT. OF ENERGY (DOE) 2017 REGULATION ARE AVAILABLE FOR SALE FOR USE IN THE U.S.A.

STANDARD LIGHTING

120V
220V Export

4 Dr	5 Dr
0.72	0.90
0.39	0.49

4 Dr	5 Dr
86	108
86	108

OPTIONAL LIGHTING

GE Illumination

120V
220V Export

4 Dr	5 Dr
0.60	0.75
0.33	0.41

4 Dr	5 Dr
72	90
72	90

ENDS or PARTITIONS <i>Each standard end, each insulated partition, view end adds 2 3⁄8 in. (60 mm) to case line up.</i>	PHYSICAL DATA Merchandiser Drip Pipe (in.) 1 1⁄4 Schedule 40 PVC
ESTIMATED SHIPPING WEIGHT †	
Case	Solid End
	(each)
lb (kg)	
4 Dr	5 Dr
3160 (1433)	3904 (1771)
	110 (50)
† Actual weights will vary according to optional kits included.	
***NOTE: Case joint add approximately 1⁄8 to length of lineup for gasket material.	

Shelf Options

Approved shelf sizes for standard (horizontal, 2 position brackets) displays:

20-inch, 22-inch

Contact engineering for non-standard display recommendations.

Optimal number of Shelves: 5 per door

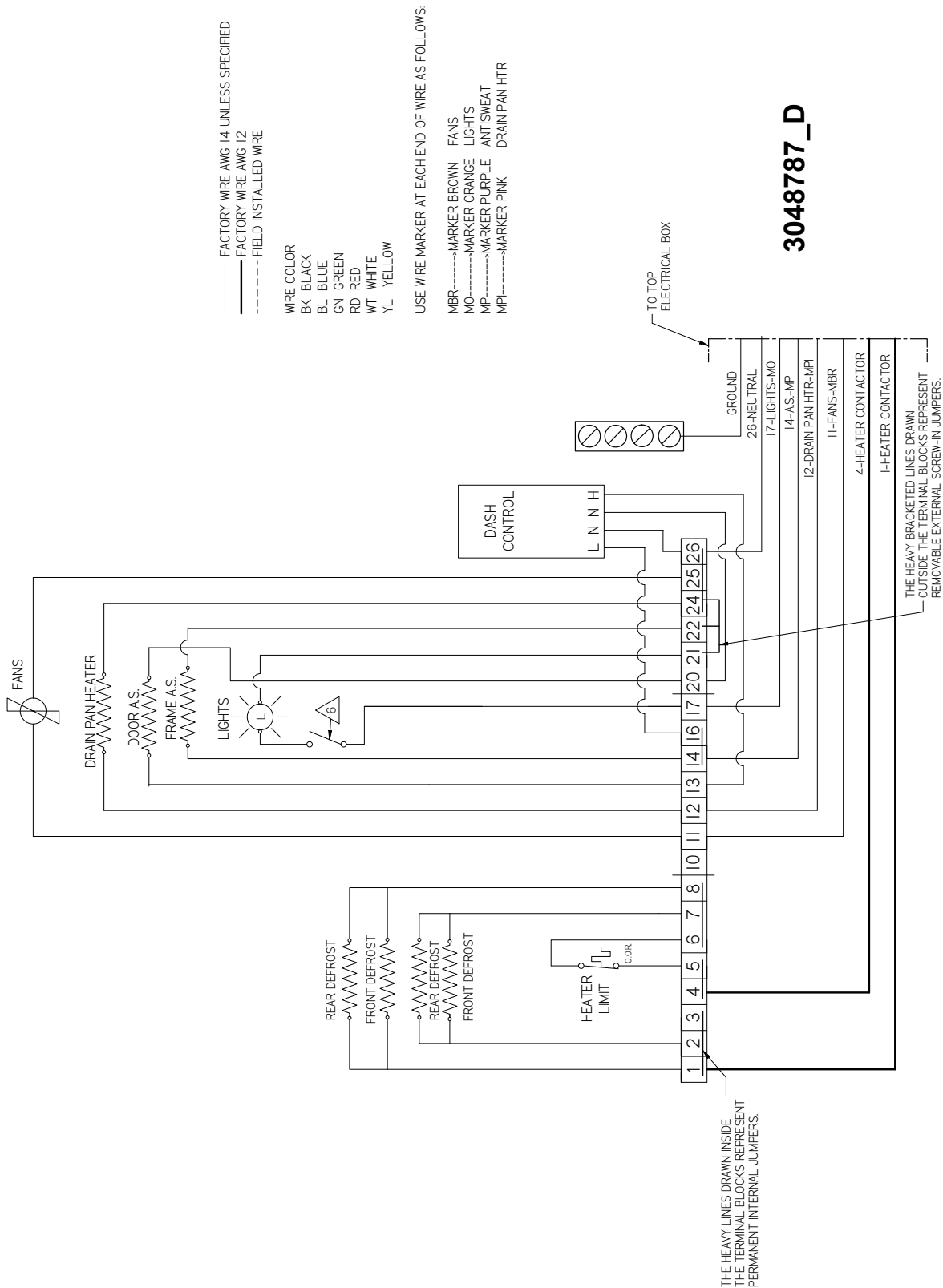
Maximum number of Shelves: 5 per door

Standard shelf complement for test purposes: (5 per door) 22-inch shelves, evenly distributed vertically

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Low Temperature

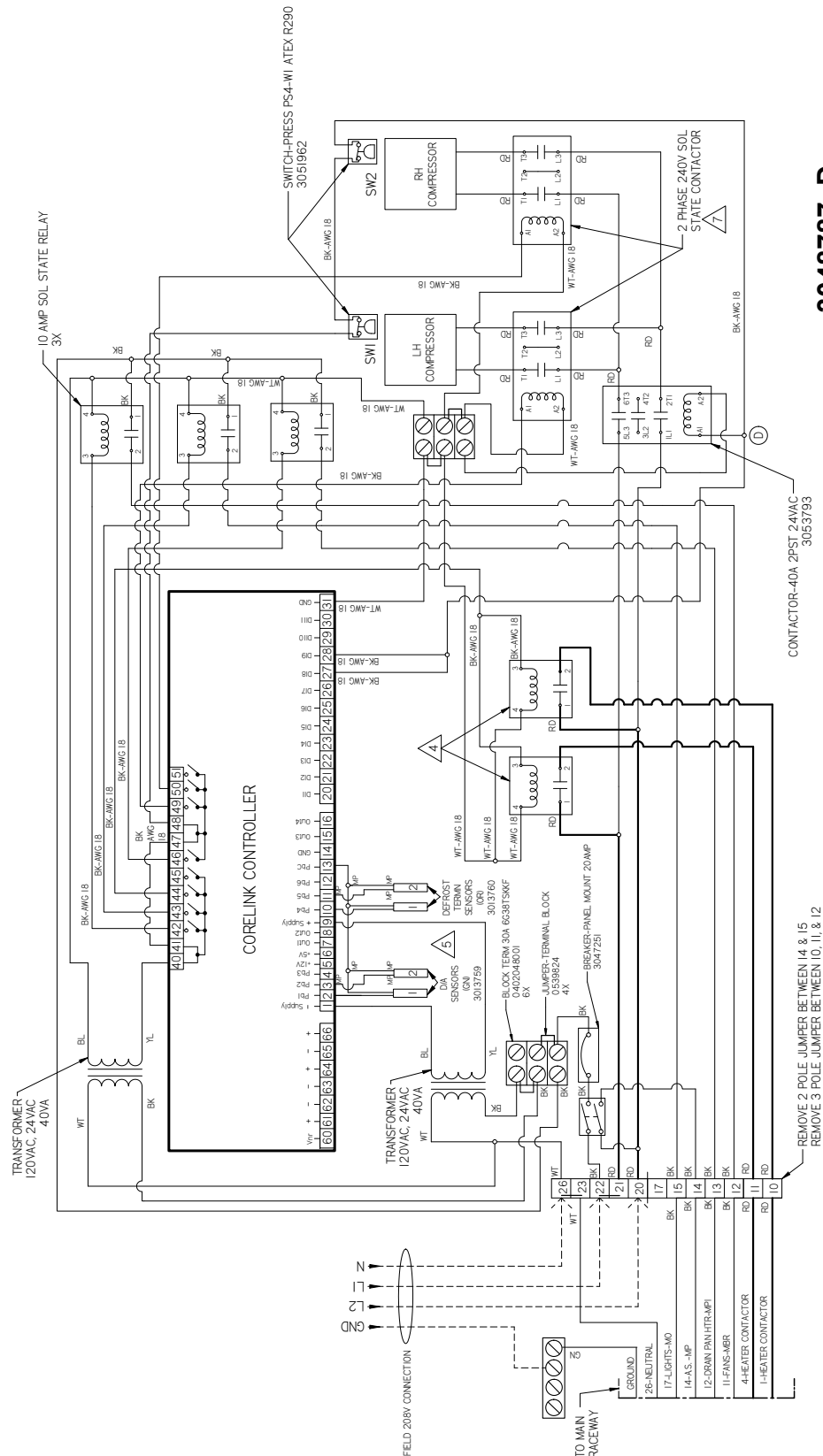
4-5 Door Wiring Diagram



3048787_D

4-5 Door Corelink Wiring Diagram

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Low Temperature**



Scan the QR code with your mobile device to access additional product information or order parts.

Parts may also be ordered at:

parts.husmann.com

Call toll free: 1.855.487.7778

Revision History

Revision A: January 2018: Original Issue

Revision B: May 2018: New format

Revision C: June 2018: Updated shipping weight

Revision D: February 2019: Added MicroDS logo

Revision E: December 2020: Updated performance data, drawings and wiring diagrams; remove replacement parts page.