OPEN REACHING ISLAND

POLAR FREEZE™

R 290

ETL Certified

PB-AC-FT-04

PB-AC-FT-06

Intertek *CONFORMS TO UL STD. 471 CERTIFIED TO CSA STD. C22.2 No. 120*

Intertek *CONFORMS TO NSF STD. 7*



WARNING / FOR YOUR SAFETY
Do not store or use gasoline or other flammable vaporsand liquids in the vicinity of this or any other appliance.

WARNING / R290 flammable refrigerant in use.
Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

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Performance data

Refrigeration Data [1]

	Deli / Beverage / Meat	
	4 Foot	6 Foot
Operating Temperature °F (°C)	30.2~41 (-1~5)	
Average Evaporator °F (°C)	14 (-10)	
Cooling Capacity (W) [2]	1598	1598
Rated Power (W)	600	750
Total Heat of Rejection [3]	2308	2465

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. System Cooling Capacity is calculated at an evaporator temperature of 14°F and a condensing temperature of 113°F.
3. Total Heat of Rejection listed for maximum design conditions, normal operating loads may be lower.

Defrost Data

Frequency (hours between defrost)	8
Defrost Type	Hot Gas
Defrost Termination (Temperature °F)	45
Time (minutes)	30

Refrigerant Data

Refrigerant Type : R-290

Charge

4 Foot	0.254lb	4.06oz	115g
6 Foot	0.276lb	4.41oz	125g

Product Data [4]

	4 Foot	6 Foot
Total Display Area (ft²)	11.07	16.6
Total Display Area (ft²/ft)	2.77	
Shelf Area (in²)	1594.1	2390.4
Shelf Area (ft²)	11.07	16.60
Shelf Area (ft²/ft)	2.8	
AHRI Gross Refrigerated Volume (cu ft³)	7.4	11.1
AHRI Gross Refrigerated Volume (cu ft/ft)	1.85	
AHRI Gross Refrigerated Volume (cu m/m)	0.17	
Total Display Area (sq m/m)	0.83	
Shelf Area (m²/m)	0.83	

4.Computed using AHRI 1200 standard methodology.

Self-Contained Horizontal Merchandiser, Air-Cooled, Self-Contained R-290

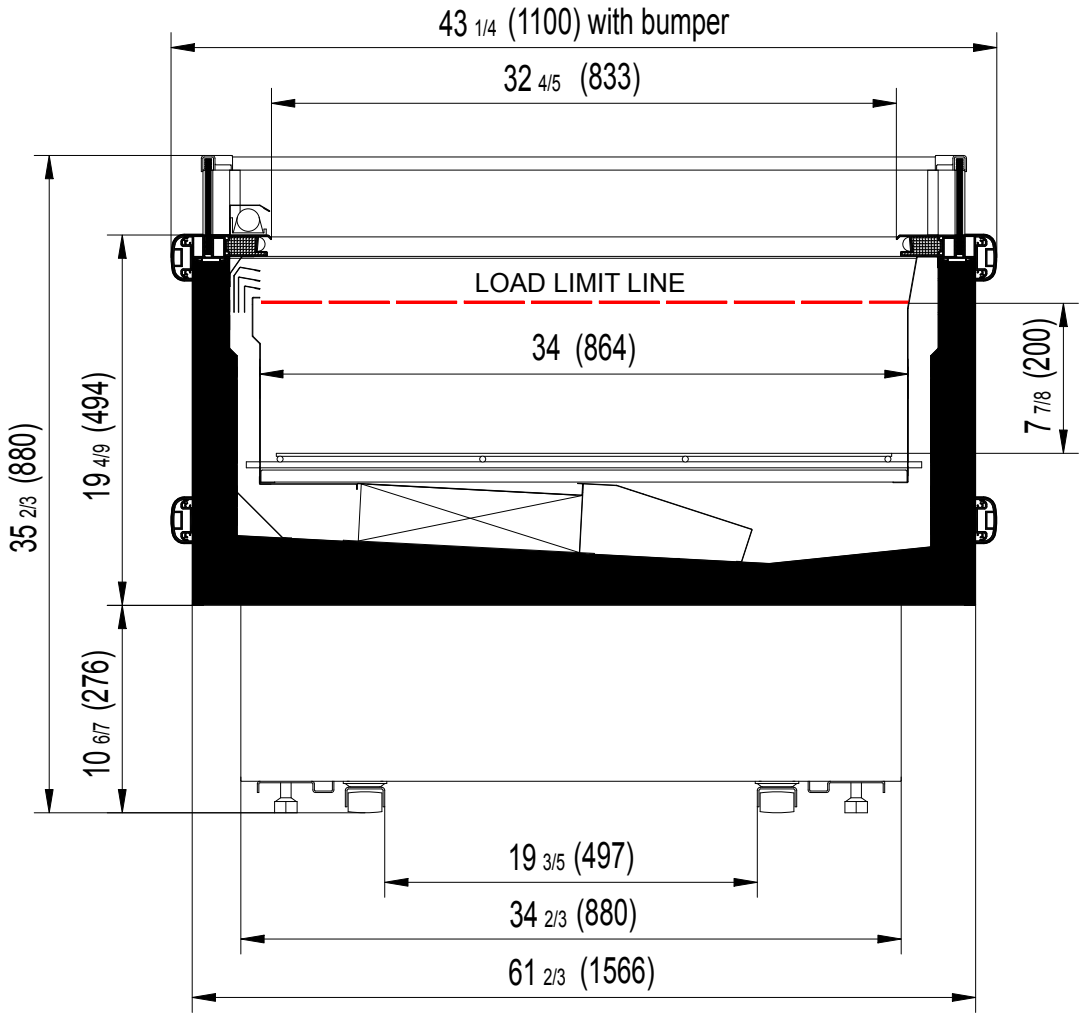
Open Reaching Island
Deli / Beverage / Meat

DOE 2017 Energy Efficiency Compliant

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

Cross-Section View

Dimensions shown as in. and (mm).



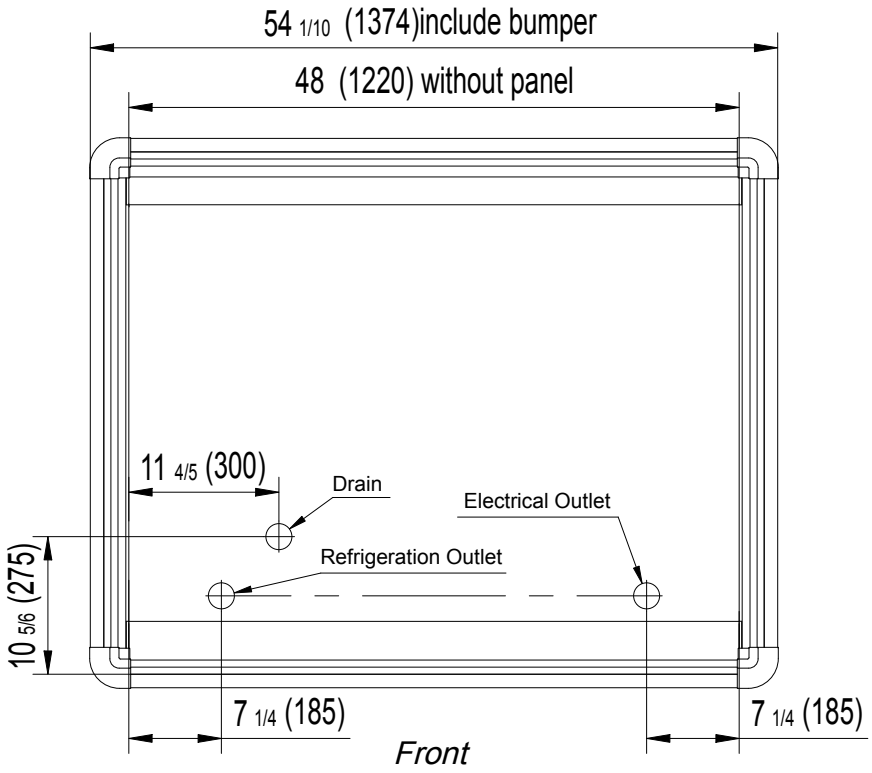
Notes:
A clearance of 10-in is needed around the case to ensure no obstruction in the condensing unit air flow.

Open Reaching Island
Deli / Beverage / Meat

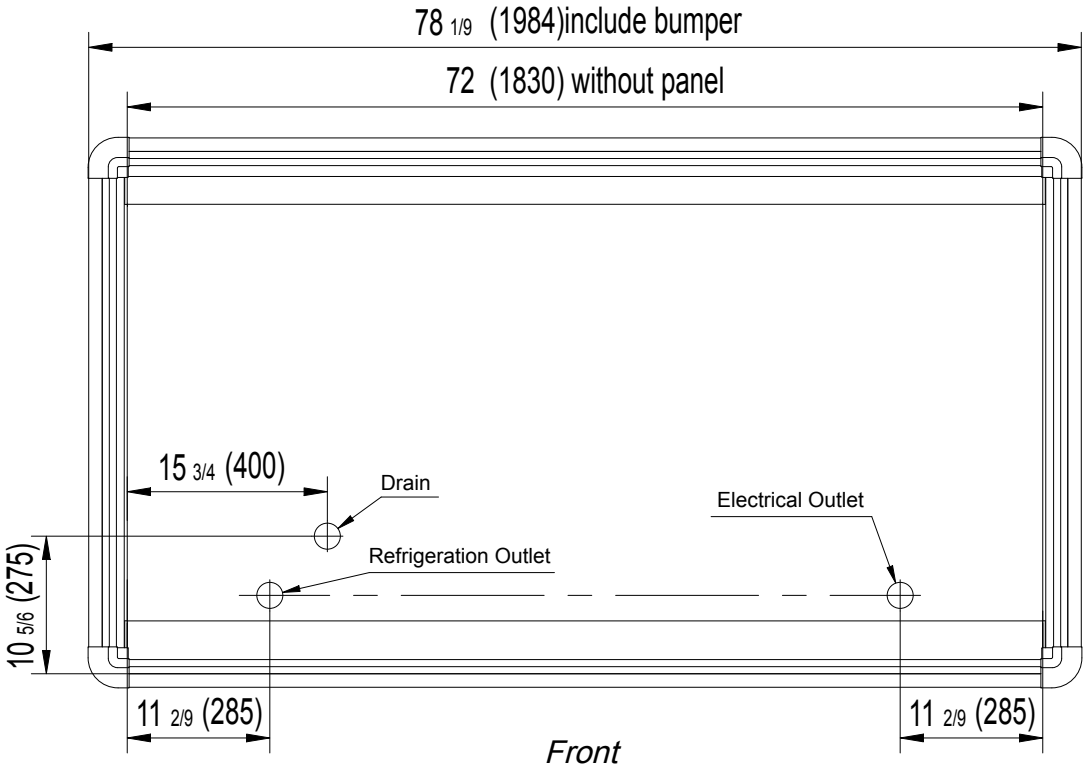
Engineering Plan View

4 Foot

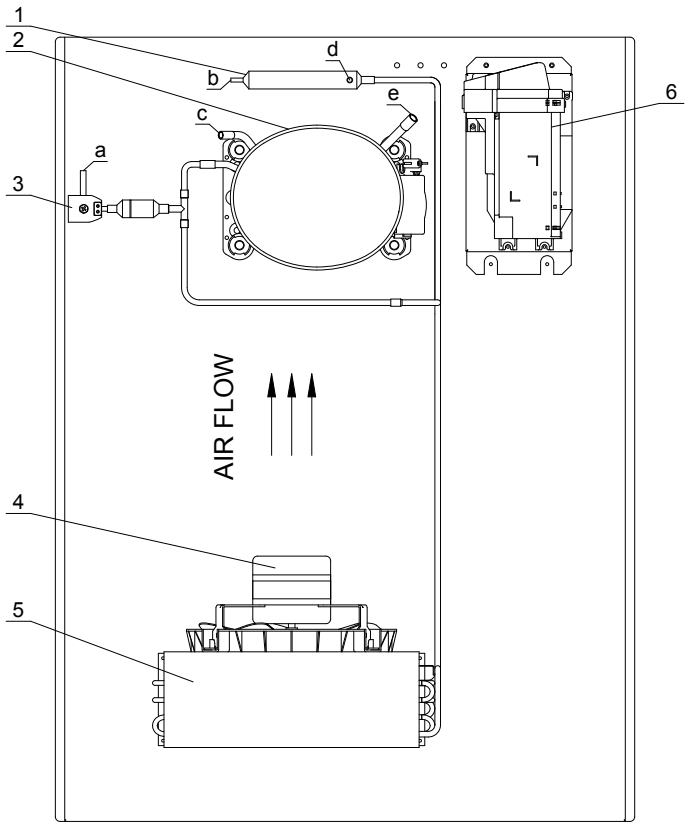
Dimensions shown as in. and (mm).



6 Foot



Condensing Unit



Front

1-Drier Filter
2-Comprosser
3-Solenoid Valve
4-Condensing Fan
5-Condenser
6-Frequency Conversion Controller

Piping Connection Details
a-Link with evaporator defrost tube
b-Link with evaporator capillary tube
c-Link with evaporator return liquid line
d-Filter drier process tube, Seal by welding
e-Compressor drier process tube, Seal by welding

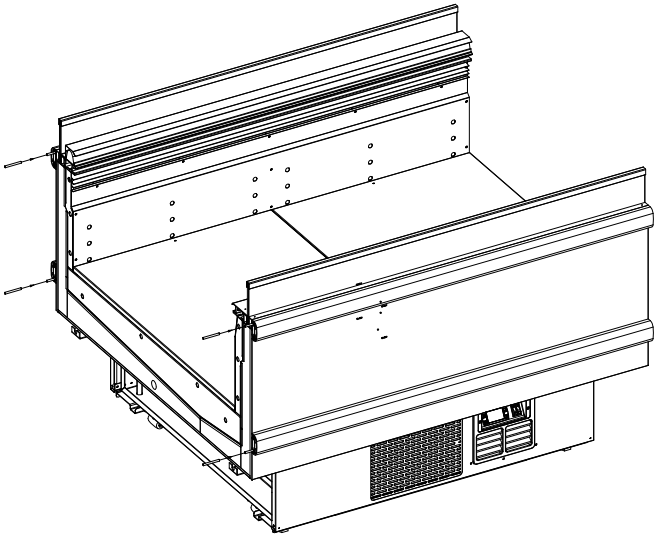
Installation

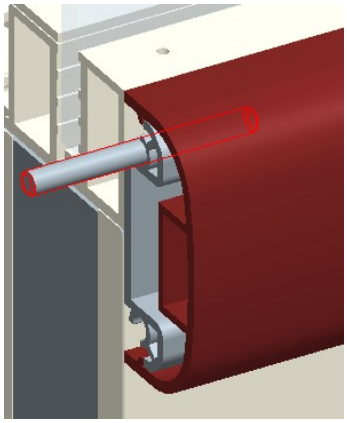
1. Upon unpacking, please confirm all accessories are present as listed.

ID	PART NUMBER	PART NAME	QTY
1	3406000719	Shaft, Ø5x50	4
2	8107015877	CDU joining cover	2
3	8106037447	Cabinet joining panel	2
4	8106037454	Cabinet joint cover plate	2
5	3200000181	Screw, ST4.3x13	13
6	3200000245	Bolt, M8x70	3
7	3201000004	Nut, M8	3
8	8200013611	90° elbow, PP	1
9	8200013612	Three-way pipe, PP	1

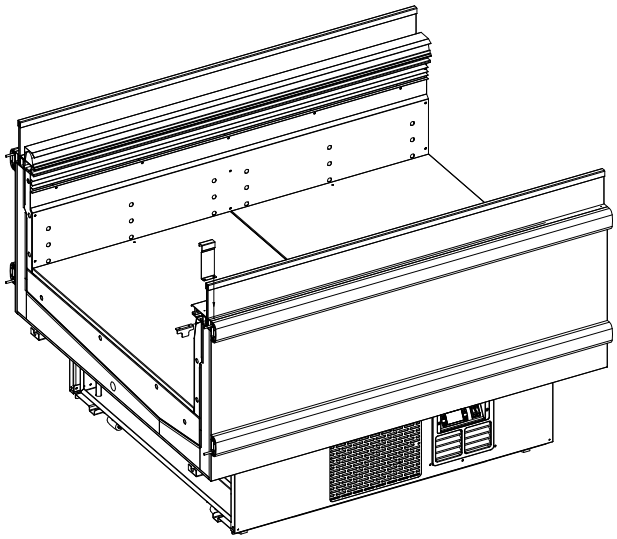
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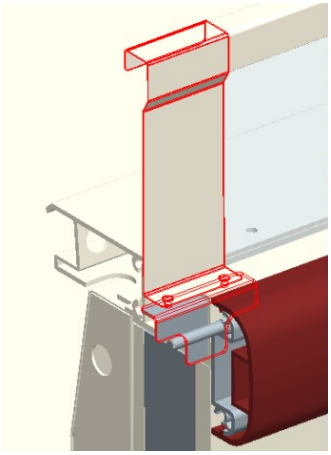
2. Please insert the **shafts** into the corresponding holes in sequence according to the positions shown in the figure below.



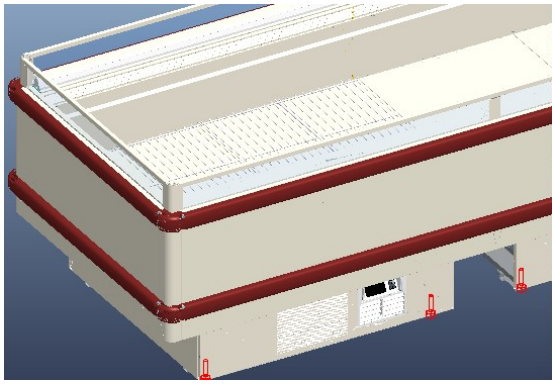


3. Insert the **cabinet joining panel** into the corresponding position as shown in the figure. Then, at the positions shown in the diagram, fix the **cabinet joining panel** and the **cabinet joint cover plate** together using screws with the screw ST4.2x13.

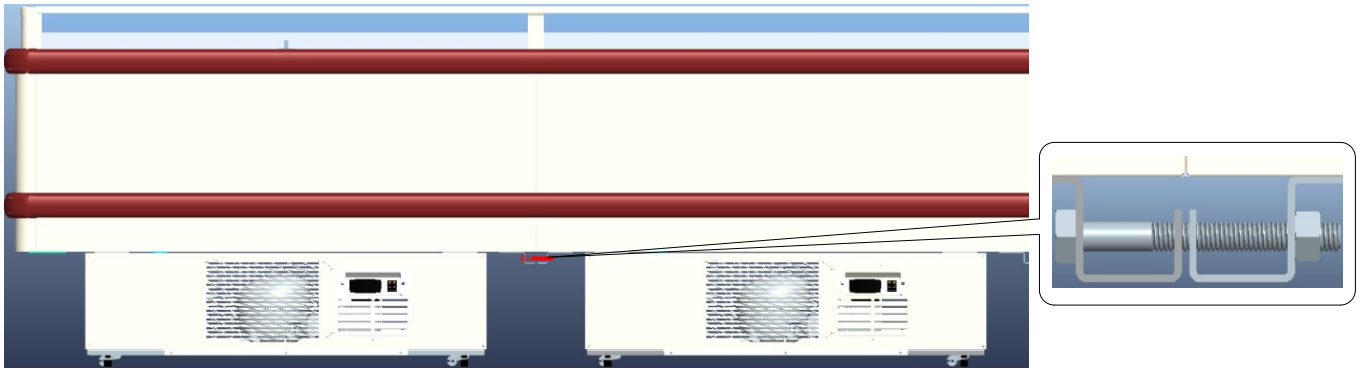




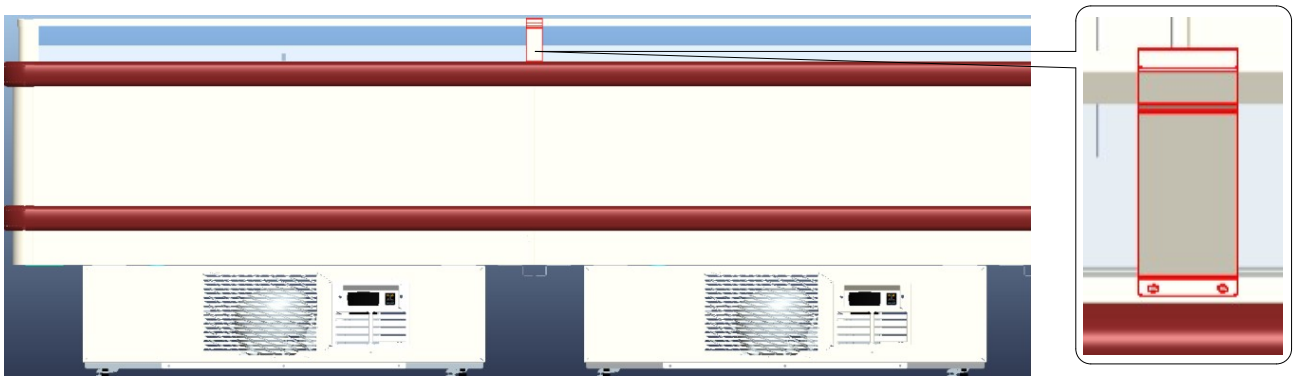
4. Splice the two cabinets together. Before splicing, adjust the leveling feet to ensure both cabinets are aligned to the same height.



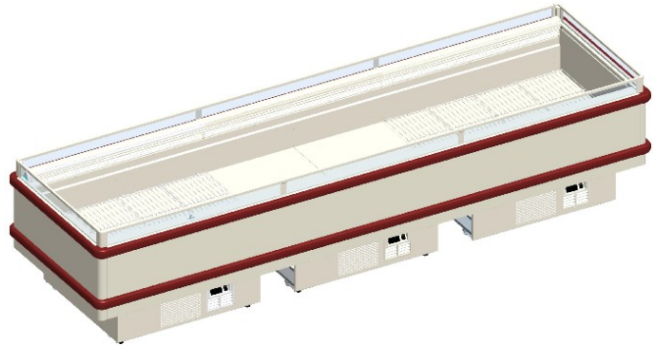
5. At the bottom of the cabinets, connect and secure the cabinet sections using M8 bolts.



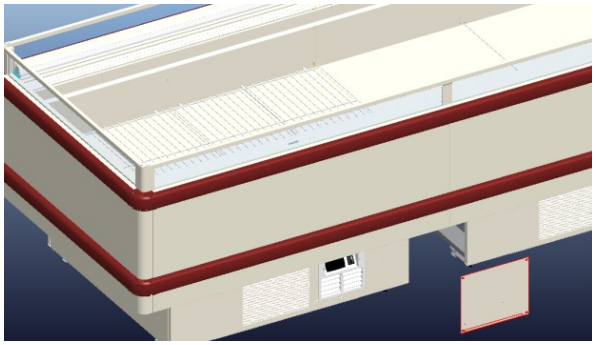
6. At the top of the cabinet, use 4.2x13 specification screws to connect and secure the cabinets at the **cabinet joint cover plate**.



7. Repeat the above steps to complete the splicing and securing of the remaining cabinets.



8. Finally, secure the CDU joining cover to the CDU position of each cabinet component using ST4.2x13 specification screws.



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Electrical Data

NOTE: *These values below are rated values for individual components and should not be added together to determine total merchandiser electrical load.*

	4 Foot	6 Foot
Merchandiser Requirements		
Power Supply 115V / 1ph / 60Hz		
Total Load (Amps)	9.0	10.0
Power cord Quantity	1	1

NEMA Plug
L5-15P



ESTIMATED SHIPPING WEIGHT

Case without Packaging

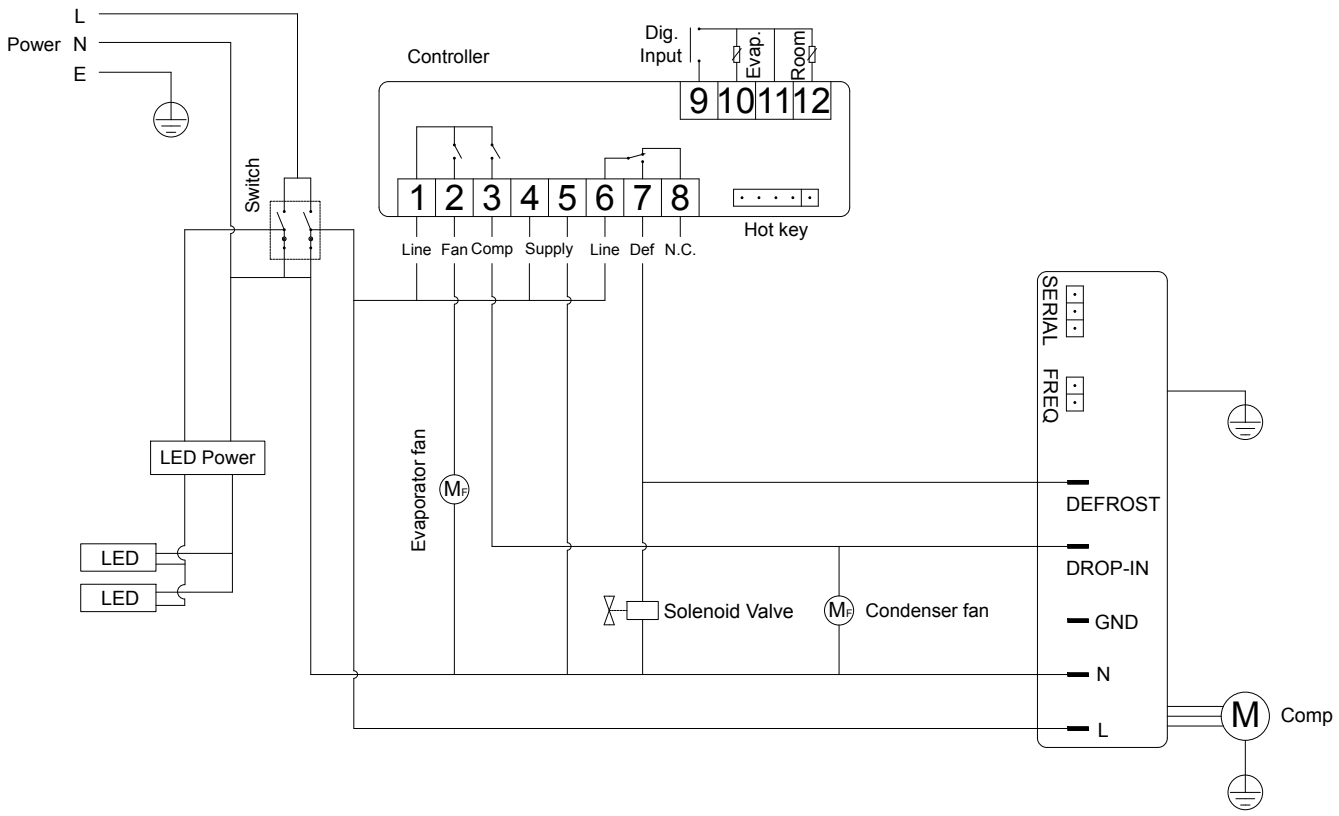
CASE	**4 Foot**	**6 Foot**
lb *(kg)*	366 *(166)*	443 *(201)*

Case with Packaging

CASE	**4 Foot**	**6 Foot**
lb *(kg)*	432 *(196)*	518 *(235)*

Actual weights will vary according to optional kits included.

Wiring Diagram



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Revision History

Revision A: March 2026: Original Issue