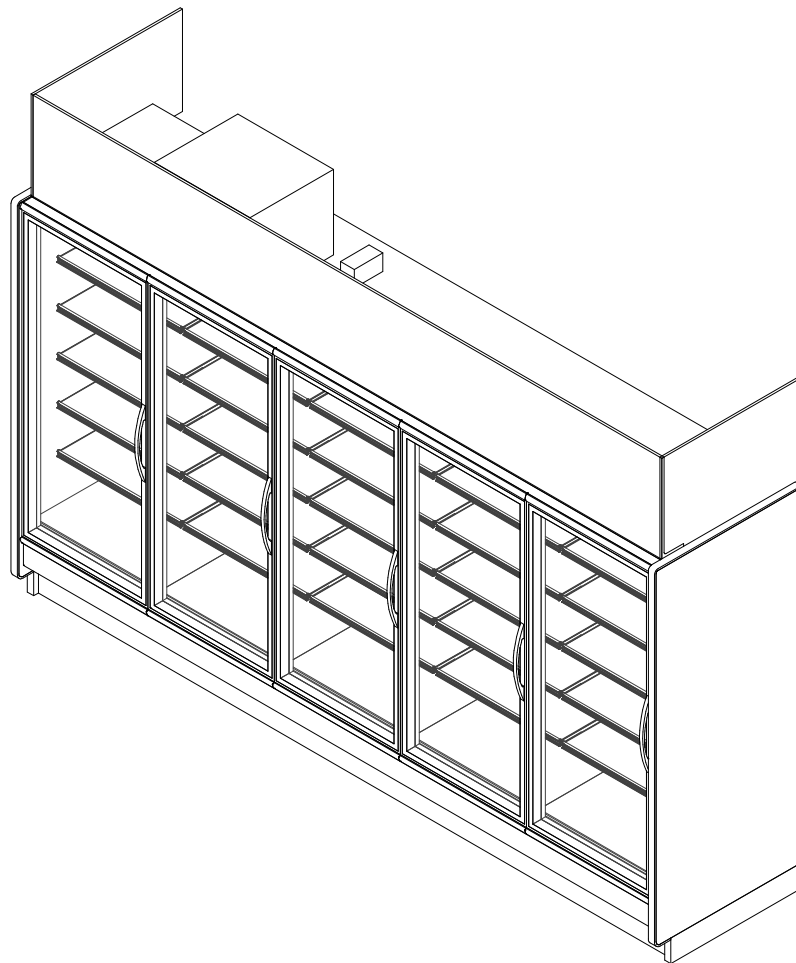




GENERAL NOTES:

- "---" indicates that the feature is not an option with this case model and/or the data is not available at this time.
- Light controls - occupancy sensors are required for heated doors only. Low E doors do not require the sensors.
- Option 1: OEM Provided: OEM anti-condensate and lighting controls (on/off) are standard unless otherwise specified.
- Option 2: End User Provided: Light controls should be based on occupancy sensors. Store level A/S control should be set to 30% minimum off time at 75°F/55%RH.
- WARNING: R-290 flammable refrigerant in use. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.
- Condensate pump is optional. Non-electric condensation pan comes standard with case located within CDU and not shown on drawing. All field-supplied components must be certified for R290 (propane) applications.



SHIPPING WEIGHT	
Case	Weight
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SYSTEM REQUIREMENT

Case Length	Volts	Wiring Type	Phase	Frequency (Hz)	Optional Factory Installed Plug	MCA	MOP	Total Load (Amps)	24hr Energy Usage (kWh)	THR (BTUH)
2 Door	120/208	3 Wire + Gnd	1	60	NEMA 14-20/L14-20	8.8	15.0	7.5	22.1	3142.0
3 Door	120/208	3 Wire + Gnd	1	60	NEMA 14-20/L14-20	12.8	15.0	10.4	33.0	4692.0
4 Door	120/208	3 Wire + Gnd	1	60	NEMA L14-30	27.8	30.0	23.4	37.5	5331.0
5 Door	120/208	3 Wire + Gnd	1	60	NEMA L14-30	29.6	30.0	24.9	48.4	6881.0



ELECTRICAL DATA

Case Length	Fans Per Case	Evaporator Fans	
		120 Volts	
		Amps	Watts
2 Door	1	0.42	34
3 Door	2	0.84	68
4 Door	3	1.26	102
5 Door	3	1.26	102

LIGHTING DATA

Case Length	Door Size	OP7 Single Swing	
		120 Volts	
		Amps	Watts
2 Door	30"	0.28	33.0
3 Door	30"	0.41	49.2
4 Door	30"	0.55	65.4
5 Door	30"	0.68	81.6

ANTI CONDENSATE DATA

Case Length	Door Size	Individual Circuits									
		190 Doors				ELMD Doors				Door Frame	
		Heated Doors		Low E Doors		Heated Doors		Low E Doors		101-LE	
		120 Volts		120 Volts		120 Volts		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
2 Door	30"	0.56	67	0.34	40	0.64	76	0.38	45	1.26	151
3 Door	30"	0.84	101	0.51	61	0.95	114	0.57	68	1.76	211
4 Door	30"	1.12	135	0.67	81	1.27	152	0.76	91	2.29	275
5 Door	30"	1.40	169	0.84	101	1.59	191	0.95	114	2.78	334

GUIDELINES AND CONTROL SETTINGS

Case Length	Application	Superheat Set Point @ Bulb (°F)	Discharge Air (°F)	Set Point Differential (°F)	Discharge Air Velocity (FPM)
2 - 5 Door	Frozen Food	3 - 8	- 2	4	250
2 - 5 Door	Frozen Food	3 - 8	- 2	4	250
2 - 5 Door	Ice Cream	3 - 8	- 9	4	250
2 - 5 Door	Ice Cream	3 - 8	- 9	4	250



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**CONDENSING UNIT DATA**

Case Length	Volts	Phase	Frequency (Hz)	Horsepower	RLA	LRA	Refrigerant	Refrigerant (g)	Room Area Min. (m)	Room Area Min. (ft)
2 Door	208	1	60	1	3.9	25.4	R-290	150	3.26	35.11
3 Door	208	1	60	1 1/2	6.1	48.0	R-290	180	3.91	42.14
4 Door	208	1	60	2 1/2	18.0	75.0	R-290	260	5.65	60.87
5 Door	208	1	60	2 1/2	18.0	75.0	R-290	300	6.52	70.23

DEFROST CONTROLS

Defrosts Per Day	Hot Gas Defrost		
	Run-Off Time (Min)	Fail-Safe (Min)	Termination Temp (°F)
1	0	30	72

NOTES:

- "----" indicates that this feature is not an option on this case model.
- The 24 Hour Energy Value is based upon AHRI 1200 test conditions with Hillphoenix provided evaporator fans, condensing unit, LED lights, occupancy sensor based (on/off) lighting control, dew point based anti-sweat heat controller, condensate pump, evaporator pan, heated door frame, and heated glass doors/electric defrost on low temp cases.
- Heat dissipated to room listed for maximum design conditions, normal operating loads may be lower.
- Data listed is for Optimax. For other lighting options please contact your sales representative.
- Light wattages above reflect 100% run time. To determine actual daily energy usage at 75°F/55%RH conditions, reduce the light wattages above by 42% and reduce the A/S values above by the minimum off time.
- Anti-condensate heat values for Low E represent a door with no heat on the glass.
- Low energy doors (no heat on the glass) do not require anti-condensate or lighting controls. Frame A/S heat is cycled off during defrost cycles.
- Heated doors (heat on the glass) require anti-condensate and lighting controls. Frame A/S heat is cycled off during defrost cycles.
- The recommended evaporator temperature and defrost settings may need to be adjusted based on system setup, store conditions, etc. The minimum recommended evaporator temperature is 4°F below the listed evaporator temperature.
- Discharge air temperature values represent readings taken within the upper air channel immediately behind/upstream of the honeycomb.
- Listed discharge air velocity represents the average velocity immediately after defrost completion using a Testo 410i vane anemometer with anemometer air scoop (HP part number P109185M) positioned adjacent to the interior edge of the discharge honeycomb.

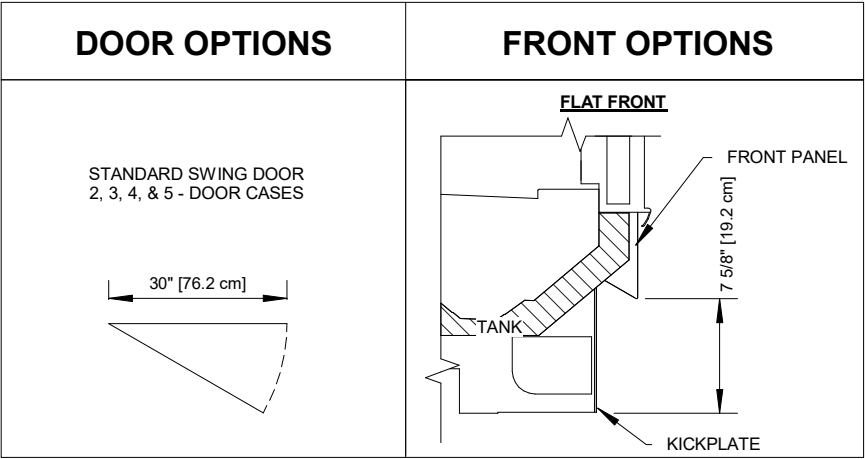


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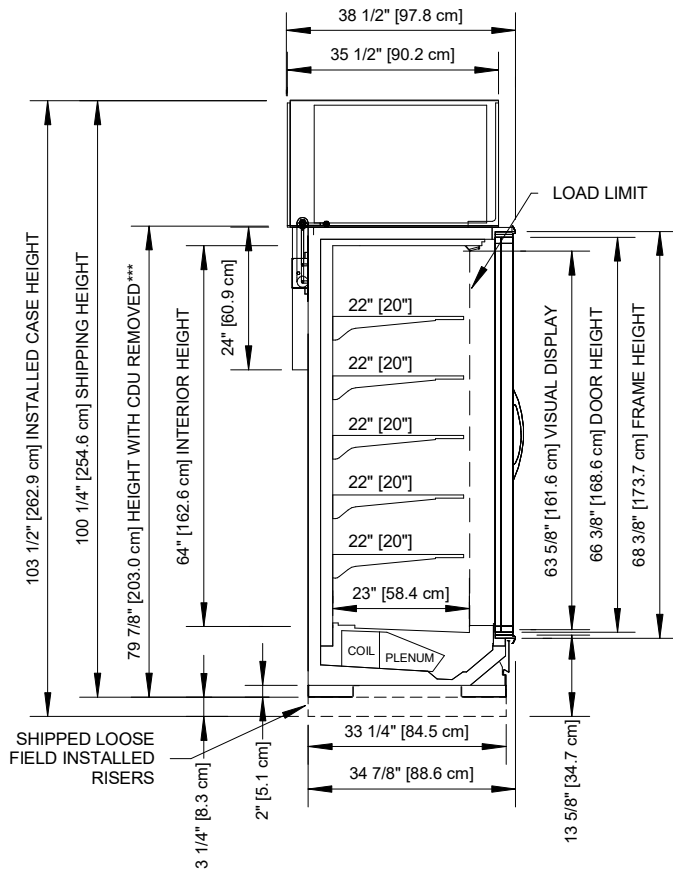


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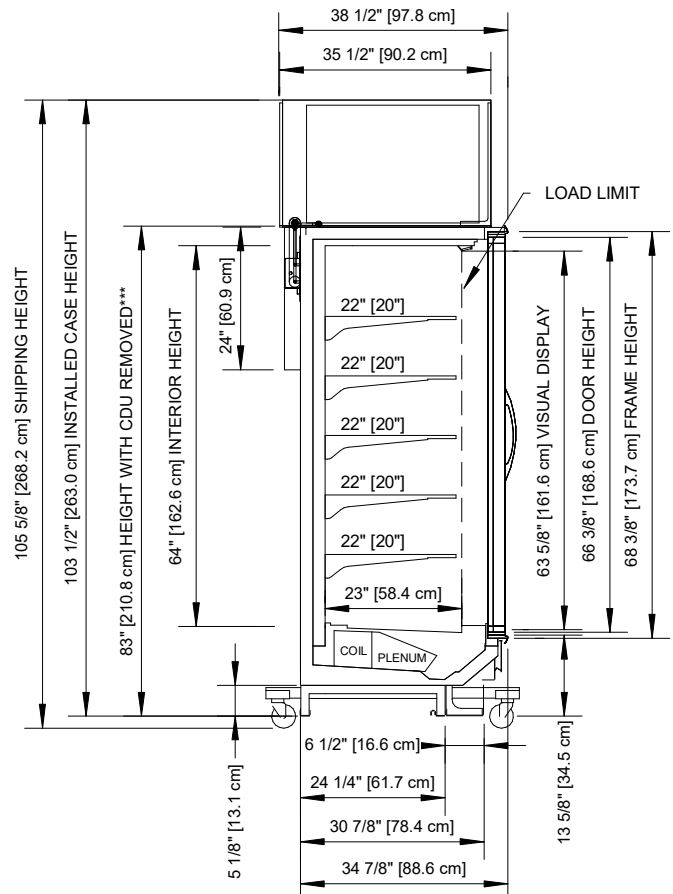
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SPECIALIZED



STANDARD



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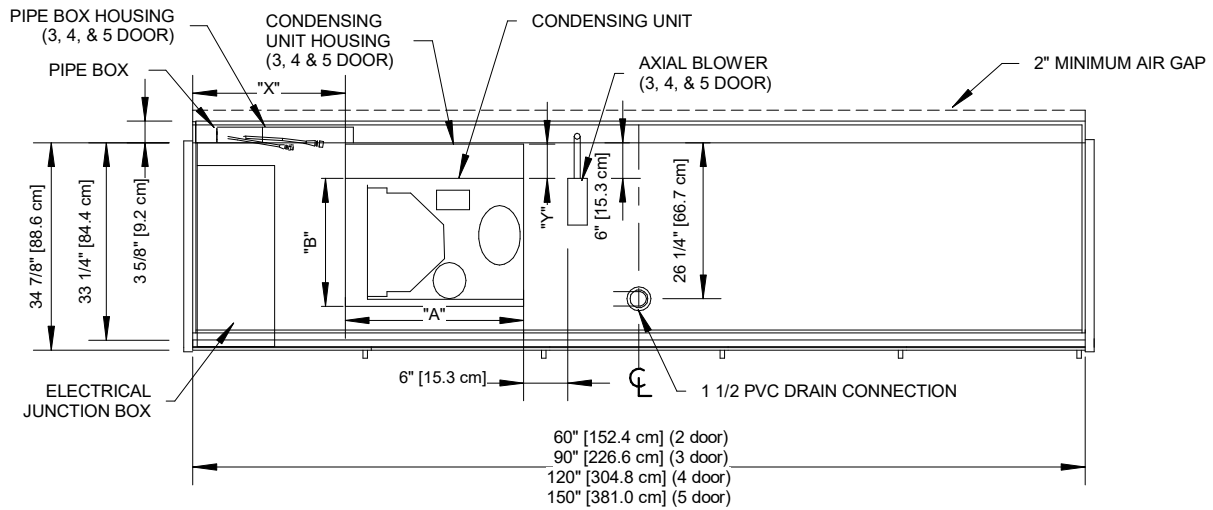
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CONDENSING UNIT SIZE AND POSITION R-290				
CASE LENGTH	2DR	3DR	4DR	5DR
"X"	25.63"	25.63"	25.63"	25.63"
"Y"	7.94"	7.94"	7.94"	7.94"
"A"	25.9"	25.8"	22.75"	22.75"
"B"	17.2"	17.3"	19.89"	19.89"



NOTES:

* : STUB-UP AREA

** : RECOMMENDED STUB-UP CENTERLINE FOR ELECTRICAL AND HUB DRAINS

*** Specialized Base Frame:

- Case fits through 80" doorway after CDU is removed in the field.
- 2" lifting brackets (installed) & 3.25" ship loose risers combine for 5" baseframe once installed.
- Drain traps ship loose.
- Ends add approximately 1/2" to the back & 1" to the front (end panel height included in case height).
- Case comes standard with 1 1/2" drain hub connection for floor drain connection. If remote pump is ordered, an optional drain assembly kit connects to the 1 1/2" drain hub as shown in the installation manual. Optional kit not shown on drawing.



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