

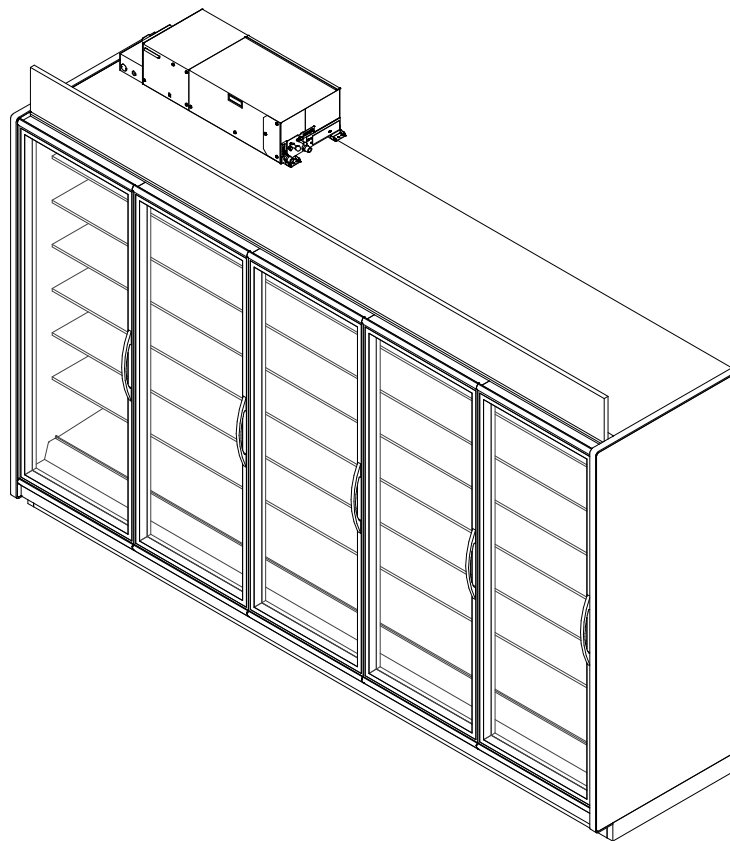
VNRZHQA

1, 2, 3, 4, & 5 Door High Narrow Reach-In Merchandiser
Frozen Food/Ice Cream

SOLOCHILL
MICRO-DISTRIBUTED

GENERAL NOTES:

- Light controls - occupancy sensors are required.
- 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.



SHIPPING WEIGHT	
Case	Weight
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COMPONENT

ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72-2005 SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

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ELECTRICAL DATA									
Case Length	Fans Per Case	High Efficiency Fans		Drain Heaters		Defrost Heaters			
		120 Volts		120 Volts		208 Volts		240 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1 Door	1	0.40	26	0.90	113	3.27	680	3.78	906
2 Door	2	0.60	52	1.27	152	7.46	1552	8.62	2068
3 Door	3	1.00	78	1.43	171	10.93	2274	12.58	3018
4 Door	4	1.30	104	1.89	227	14.35	2984	16.63	3992
5 Door	5	1.60	130	2.29	275	17.50	3640	20.17	4840

LIGHTING DATA					
Case Length	Door Size	OP45		OP7 Single Swing	
		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts
1 Door	31"	0.18	21.0	0.17	20.4
2 Door	30"	0.36	43.1	0.33	39.7
3 Door	30"	0.54	65.2	0.49	59.0
4 Door	30"	0.73	87.3	0.65	78.3
5 Door	30"	0.91	109.4	0.81	97.6

ANTI CONDENSATE DATA											
Case Length	Door Size	Individual Circuits									
		I90 Doors				ELMD,ELMH 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
1 Door	31"	0.33	39	0.19	23	0.36	44	0.21	25	0.86	103
2 Door	30"	0.65	78	0.38	46	0.73	87	0.42	50	1.41	169
3 Door	30"	0.98	118	0.58	69	1.09	131	0.63	75	1.97	236
4 Door	30"	1.31	157	0.77	92	1.45	174	0.84	100	2.56	307
5 Door	30"	1.63	196	0.96	115	1.82	218	1.05	126	3.09	371



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DEFROST CONTROLS			
Defrosts Per Day	Electric Defrost		
	Fail Safe (Min)	Termination Temp (°F)	Run Off Time (Min)
1	46	50	0

Notes:

- "---" indicates that this feature is not an option on this case model.
- Door / Frame A/S circuits and fans share the same circuit (same cycle). Default jumpers can be removed in field if separate circuits are desired for A/S and fans.
- Drain heater and fan motors share the same circuit (separate cycles). Electrical circuits must be properly sized to accommodate the higher current draw of the tank heater.
- Defrost heater 3-phase load is unbalanced.
- 3-phase defrost heater data listed represents the maximum amps per phase.
- Data listed is for Optimax Radiant. For other lighting options please contact your sales representative.
- Anti-condensate heat values for Low E doors represent a door with no heat on the glass.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- Defrost Run-off Time applies to Hot Gas Defrost only. Electric Defrost has a 0-minute run-off time.
- Temperature and defrost settings listed above are recommended start-up settings. Final operational settings may need to be adjusted for the store conditions in which the case operates.
- The recommended evaporator temperatures 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.
- 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.
- Light and A/S 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.



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SOLOCHILL DATA			@95° Condensing Temperature	
Volts	Phase	Frequency	Wire	
208	1	60	3 Wire + Ground	
Application	Case Length	Evaporator Temp (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
Frozen Food	1 Door	-7	-1	550
Frozen Food	2 Door	-7	-1	550
Frozen Food	3 Door	-7	-1	550
Frozen Food	4 Door	-7	-1	550
Frozen Food	5 Door	-7	-1	550
Ice Cream	1 Door	-15	-8	550
Ice Cream	2 Door	-15	-8	550
Ice Cream	3 Door	-15	-8	550
Ice Cream	4 Door	-15	-8	550
Ice Cream	5 Door	-15	-8	550

Application	Case Length	R448A					
		Condensing Unit Model	MCA	MOP	Required Capacity	THR (BTUH)	Flow Rate
Frozen Food	1 Door	Remote	---	---	---	---	---
Frozen Food	2 Door	DA130	12.8	15	2346	3754	1.1
Frozen Food	3 Door	DA220	20.1	25	3519	5444	1.6
Frozen Food	4 Door	DA330	28.8	30	4692	7492	2.1
Frozen Food	5 Door	DA420	39.9	40	5865	9153	2.6
Ice Cream	1 Door	Remote	---	---	---	---	---
Ice Cream	2 Door	DA130	12.8	15	2524	3973	1.1
Ice Cream	3 Door	DA220	20.1	25	3786	5724	1.6
Ice Cream	4 Door	DA330	28.8	30	5048	7911	2.3
Ice Cream	5 Door	DA420	39.9	40	6310	9650	2.8



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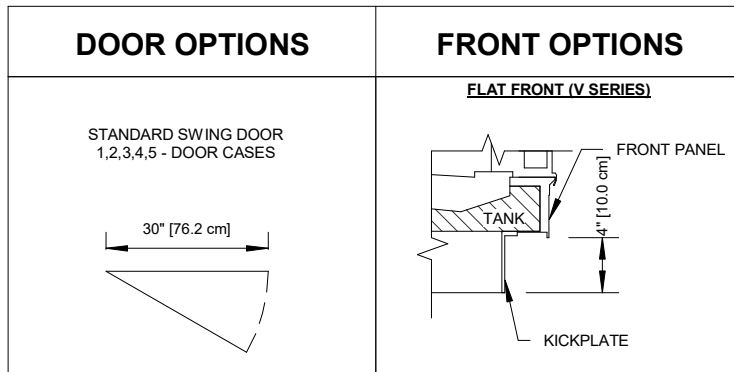


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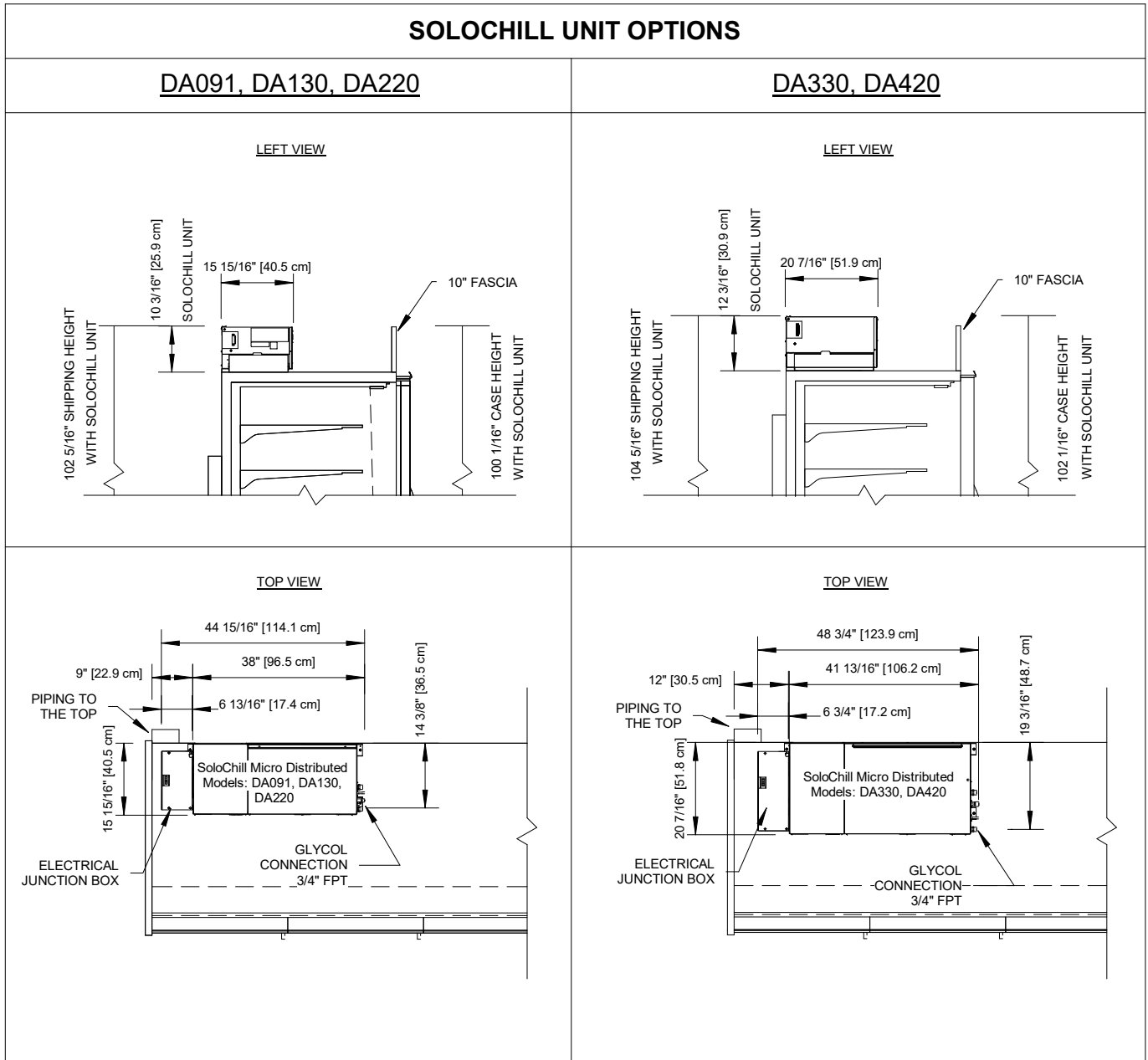


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Notes:

- SoloChill Units are not available on the 1 Door case length. This case length is remote mount due to the length of the SoloChill Units.



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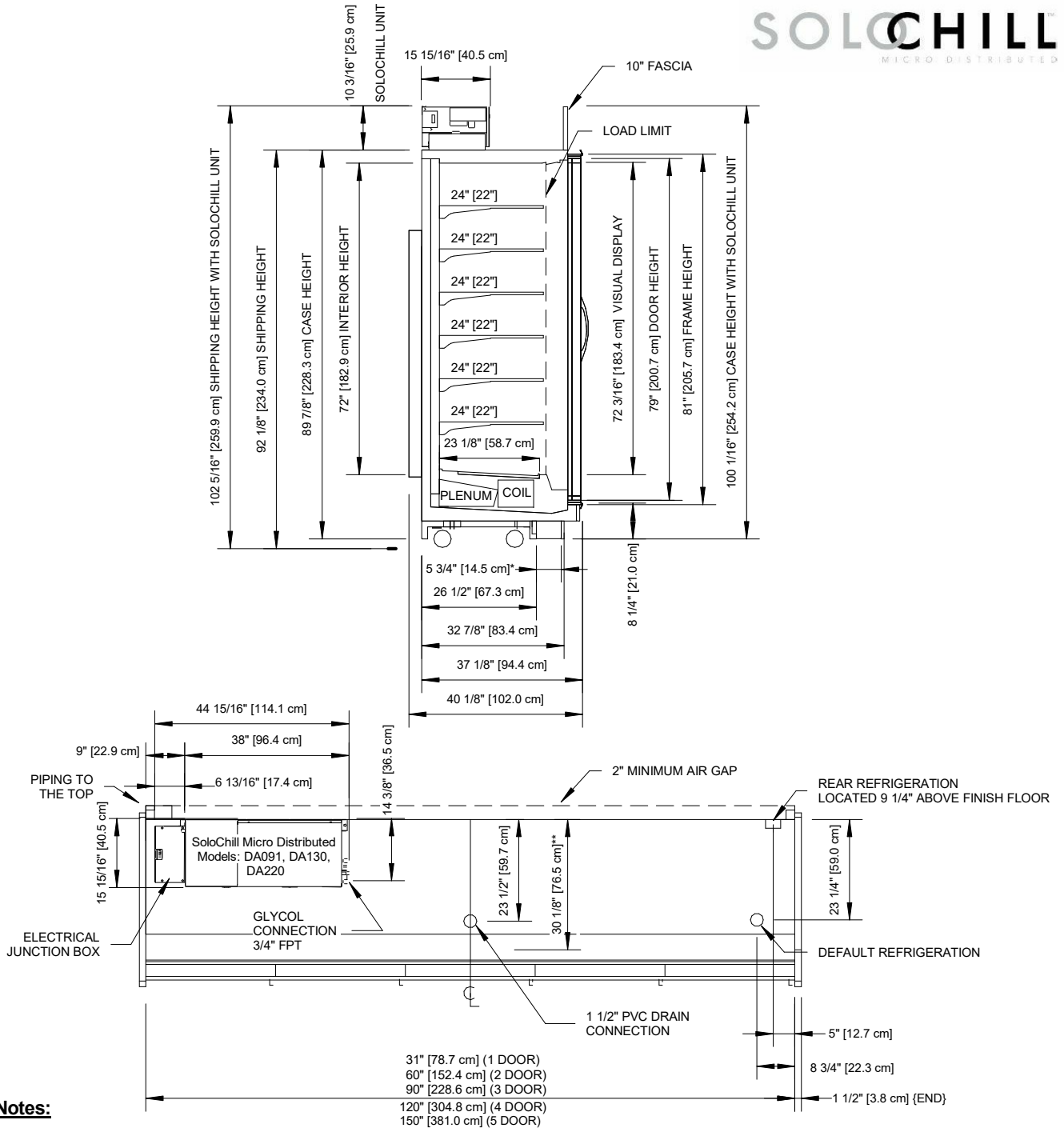
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Notes:

* : STUB-UP AREA.

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

- Ends add approximately 1" to case height, 1/2" to the back & 1" to the front.
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