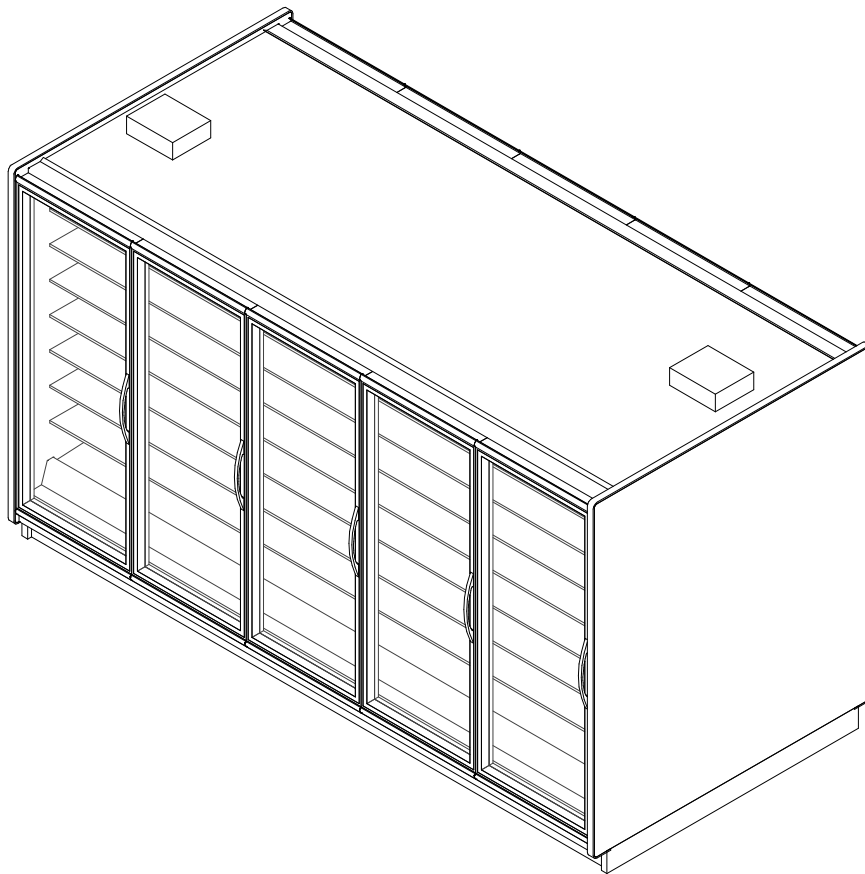


GENERAL NOTES:

- For back-to-back configurations, customers are required to install separate current-limiting devices for each side of the case per the amperage values listed. (Current-limiting devices are available for purchase through Hillphoenix).
- 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 20% minimum off time at 75°F/55%RH.



SHIPPING WEIGHT	
Case	Weight
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ELECTRICAL DATA Single-Side									
Case Length	Fans Per Case	High Efficiency Fans		Drain Heater		Defrost Heaters (1 - Phase)			
		120 Volts		120 Volts		208 Volts		240 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
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

ELECTRICAL DATA Back-To-Back									
Case Length	Fans Per Case	High Efficiency Fans		Drain Heater		Defrost Heaters (1 - Phase)			
		120 Volts		120 Volts		208 Volts		240 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
4 Door	4	1.20	104	2.54	304	14.92	3104	17.24	4136
6 Door	6	2.00	156	2.86	342	21.86	4548	25.16	6036
8 Door	8	2.60	208	3.78	454	28.70	5968	33.26	7984
10 Door	10	3.20	260	4.58	550	35.00	7280	40.34	9680

LIGHTING DATA Single-Side					
Case Length	Door Size	OP45		OP7 Single Swing	
		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts
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

LIGHTING DATA Back-To-Back					
Case Length	Door Size	OP45		OP7 Single Swing	
		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts
4 Door	30"	0.72	86.2	0.66	79.4
6 Door	30"	1.08	130.4	0.98	118.0
8 Door	30"	1.46	174.6	1.31	156.6
10 Door	30"	1.82	218.8	1.63	195.2

GUIDELINES AND CONTROL SETTINGS							
Application	Door	BTUH/Door		Superheat Set Point @ Bulb (°F)	Evaporator (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
		Conventional	Parallel				
Frozen	Heated	986	968	3 - 5	- 7	- 1	455
Frozen	Low E	937	919	3 - 5	-7	-1	455
Ice Cream	Heated	1074	1048	3 - 5	- 15	- 8	455
Ice Cream	Low E	1021	995	3 - 5	- 15	- 8	455



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ANTI CONDENSATE DATA Single-Side											
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
2 Door	30"	0.65	72	0.36	43	0.66	79	0.37	45	1.36	163
3 Door	30"	0.98	109	0.53	64	0.99	118	0.56	67	1.90	228
4 Door	30"	1.31	145	0.71	85	1.31	158	0.74	89	2.48	298
5 Door	30"	1.63	181	0.89	107	1.64	197	0.93	112	3.00	360

ANTI CONDENSATE Back to Back											
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
4 Door	30"	1.30	144	0.72	86	1.32	158	0.74	90	2.72	326
6 Door	30"	1.92	218	1.06	128	1.98	236	1.12	134	3.80	456
8 Door	30"	2.62	290	1.42	170	2.62	316	1.48	178	4.96	596
10 Door	30"	3.26	362	1.78	214	3.28	394	1.86	224	6.00	720

DEFROST CONTROLS					
Defrosts Per Day	Run-Off Time (Min)	Electric Defrost		Hot Gas Defrost	
		Fail Safe (Min)	Termination Temp (°F)	Fail Safe (Min)	Termination Temp (°F)
1	13-15	46	50	24	73

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.
- Anti-condensate heat values for Eliminator and Vista C 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.



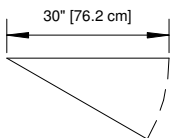
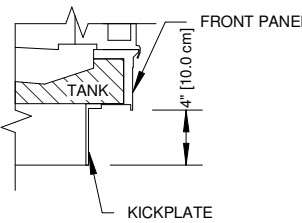
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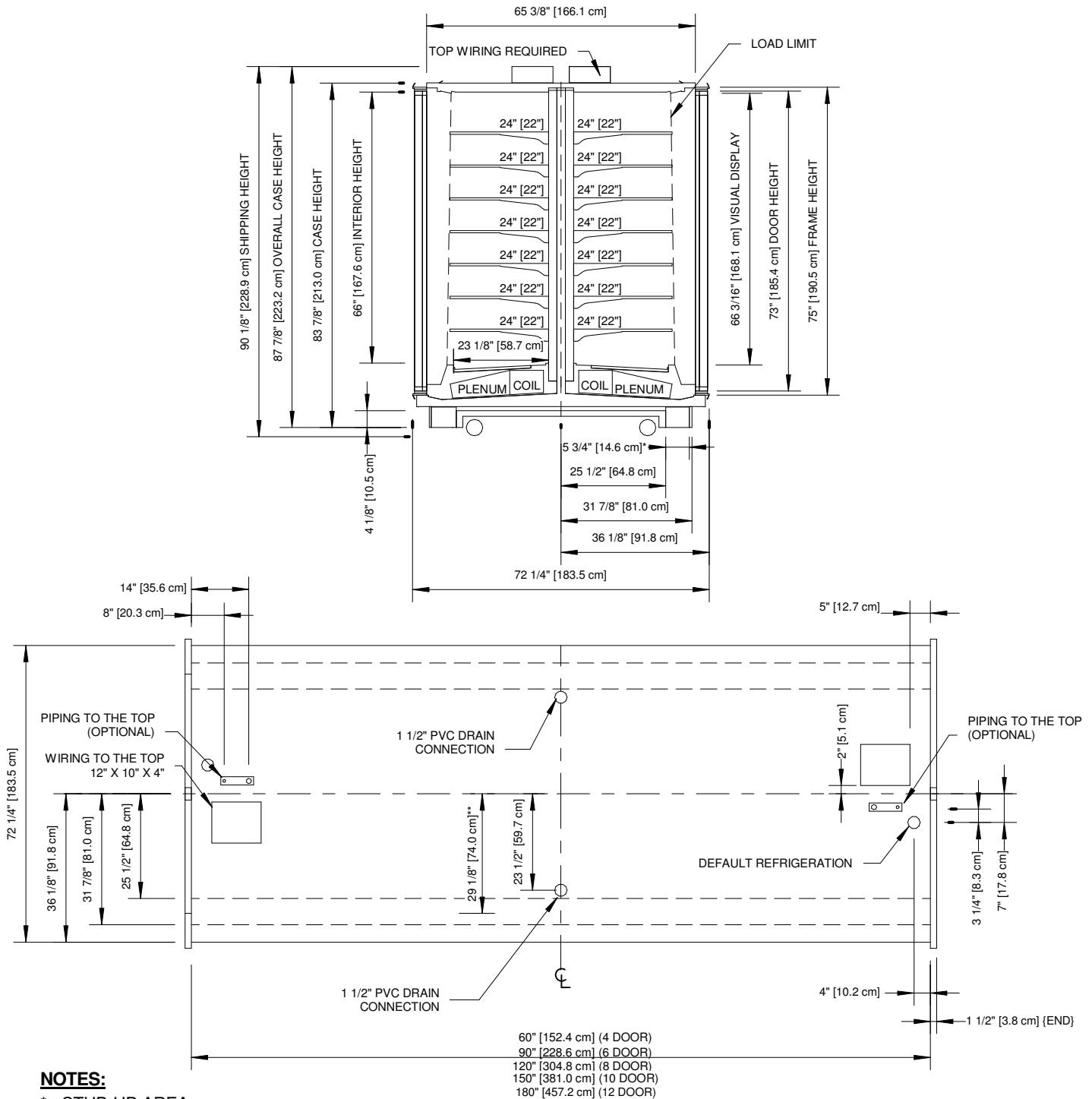
DOOR OPTIONS	FRONT OPTIONS
<p>STANDARD SWING DOOR 4, 6, 8 & 10 - DOOR CASES</p> 	<p>FLAT FRONT (V SERIES)</p> 



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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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