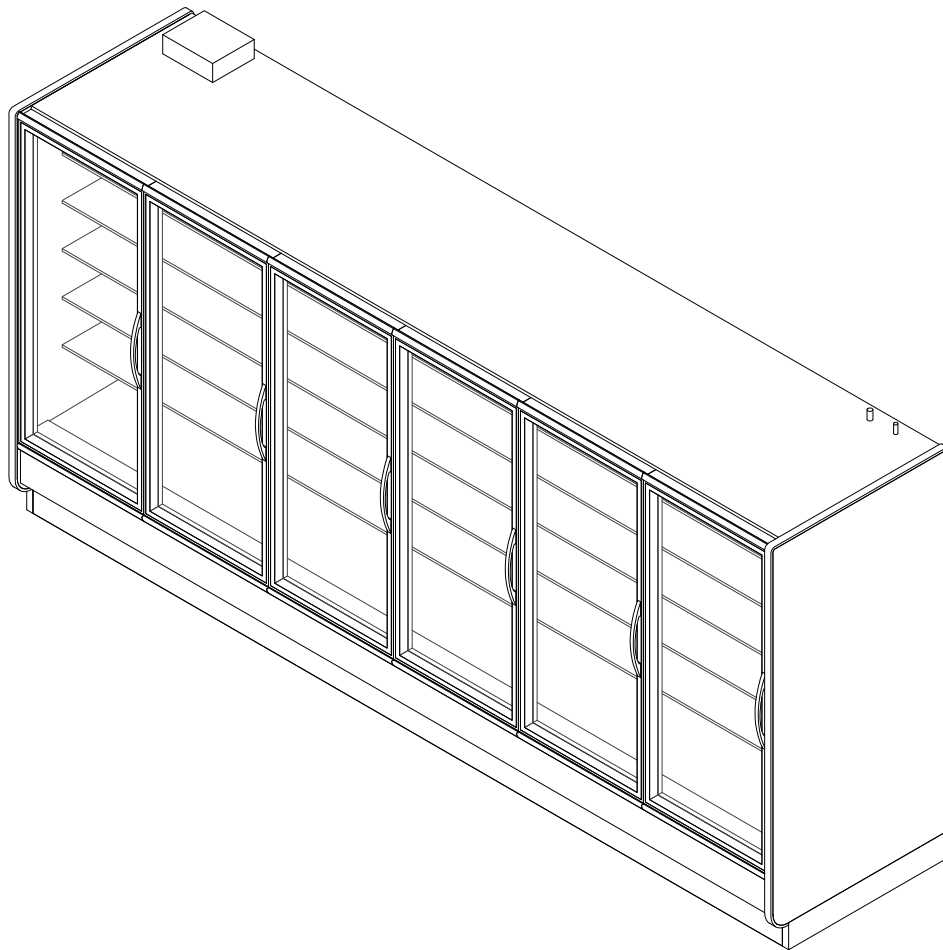


GENERAL NOTES

- 4-foot cases consist of 2 (24") doors
- 8-foot cases single swing consist of 3 (32") doors
- 8-foot case Bi-swing consist of 4 (24") doors
- 12-foot cases single swing consist of 4 (36") doors
- 12-foot cases Bi-swing consist of 6 (24") doors
- Lighting controls - occupancy sensors are required.
Option 1: OEM Provided: Lighting controls (on/off) are standard unless otherwise specified.
Option 2: End User Provided: Lighting controls should be based on occupancy sensors.



SHIPPING WEIGHT	
Case	Weight
ORBH	1000-2000 LBs



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ELECTRICAL DATA			
Case Length	Fans Per Case	High Efficiency Fans	
		120 Volts	
		Amps	Watts
1 Door	1	0.22	26
2 Door	2	0.44	53
3 Door	3	0.66	79
4 Door	4	0.88	106
5 Door	5	1.10	132
6 Door	6	1.32	158
4'	1	0.22	26
6'	2	0.44	53
8'	2	0.44	53
12'	3	0.66	79

LIGHTING DATA							
Case Length	Door Size	OP45		OP55 (French Swing Only)		Optimax Pro 24 LO	
		120 V		120 V		120 V	
		Amps	Watts	Amps	Watts	Amps	Watts
1 Door	31"	0.18	21.0	---	---	0.16	18.8
2 Door	30"	0.36	43.1	---	---	0.31	36.8
3 Door	30"	0.54	65.2	---	---	0.46	54.8
4 Door	30"	0.73	87.3	---	---	0.61	72.8
5 Door	30"	0.91	109.4	---	---	0.76	90.8
6 Door	30"	1.10	131.5	---	---	0.91	108.8
4'	24"	---	---	0.26	31.0	0.28	33.7
6'	24"	---	---	0.52	61.9	0.51	60.6
8'	24"	---	---	0.52	61.9	0.56	66.6
8'	32"	0.54	65.2	---	---	0.46	54.8
12'	24"	---	---	0.77	92.8	0.83	99.5
12'	36"	0.73	87.3	---	---	0.61	72.8

ANTI CONDENSATE DATA					
Case Length	Door Size	101 Frames		Vista Frames	
		Un Heated Doors		Un Heated Doors	
		ELMD, ELMH, I90		Vista C, I60, Elite	
		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts
1 Door	31"	0.18	22	0.18	22
2 Door	30"	0.36	43	0.36	43
3 Door	30"	0.55	66	0.55	66
4 Door	30"	0.75	90	0.75	90
5 Door	30"	0.94	113	0.94	113
6 Door	30"	1.15	138	1.15	138
4'	24"	0.20	24	0.20	24
6'	24"	0.39	47	0.39	47
8'	24"	0.43	52	0.43	52
8'	32"	0.56	67	0.52	62
12'	24"	0.68	82	0.68	82
12'	36"	0.80	96	0.80	96



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GUIDELINES & CONTROL DATA								
Application	Case Length	Door Size	BTUH/door		Evaporator (°F)	Superheat Set Point @ Bulb (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
			Conventional	Parallel				
Beverage	1 - 6 Door	30"	620	570	34	4 - 6	40	215
Beverage	4'	24"	495	455	34	4 - 6	40	215
Beverage	6'	24"	495	455	34	4 - 6	40	215
Beverage	8'	24"	495	455	34	4 - 6	40	215
Beverage	8'	32"	660	610	34	4 - 6	40	215
Beverage	12'	24"	495	455	34	4 - 6	40	215
Beverage	12'	36"	745	685	34	4 - 6	40	215
Deli	1 - 6 Door	30"	675	620	30	4 - 6	36	215
Deli	4'	24"	540	495	30	4 - 6	36	215
Deli	6'	24"	540	495	30	4 - 6	36	215
Deli	8'	24"	540	495	30	4 - 6	36	215
Deli	8'	32"	720	660	30	4 - 6	36	215
Deli	12'	36"	810	745	30	4 - 6	36	215
Meat	1 - 6 Door	30"	715	660	28	4 - 6	34	215
Meat	4'	24"	570	525	28	4 - 6	34	215
Meat	6'	24"	570	525	28	4 - 6	34	215
Meat	8'	24"	570	525	28	4 - 6	34	215
Meat	8'	32"	760	700	28	4 - 6	34	215
Meat	12'	24"	570	525	28	4 - 6	34	215
Meat	12'	36"	855	790	28	4 - 6	34	215

DEFROST DATA		
Defrosts Per Day	Timed-Off Defrost	
	Fail-Safe (Min)	Termination Temp (°F)
4	30	47

NOTES

- "---" indicates that this feature is not an option on this case model.
- Data listed is for Optimax Radiant and low power Optimax Pro (high power available). For other lighting options please contact your sales representative.
- Anti-condensate heat values for Eliminaator represent a door with no heat on the glass.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- 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.
- Light wattages above reflect 100% run time. To determine actual daily energy usage at 75°F/55%RH conditions, reduce the light wattages below by 42%.



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SECOND NATURE DATA								
Case Model	No. of Coils	Application	Front Sill Type	BTUH/ft (DR)		GPM/ft (DR)	Supply Fluid Temp (°F)	Discharge Air Temp (°F)
				Conventional	Parallel			
ORBH (30" Door)	1	Beverage	Std. Reach In	620	570	0.07	20	38
ORBH (30" Door)	1	Deli / Dairy	Std. Reach In	675	620	0.10	20	36
ORBH (30" Door)	1	Meat	Std. Reach In	715	660	0.13	20	34
ORBH (30" Door)	1	Beverage	Std. Reach In	620	570	0.10	25	38
ORBH (30" Door)	1	Deli / Dairy	Std. Reach In	675	620	0.15	25	36
ORBH (30" Door)	1	Meat	Std. Reach In	715	660	0.19	25	34
ORBH (Per Foot)	1	Beverage	Std. Reach In	248	228	0.03	20	38
ORBH (Per Foot)	1	Deli / Dairy	Std. Reach In	270	248	0.04	20	36
ORBH (Per Foot)	1	Meat	Std. Reach In	285	263	0.05	20	34
ORBH (Per Foot)	1	Beverage	Std. Reach In	248	228	0.04	25	38
ORBH (Per Foot)	1	Deli / Dairy	Std. Reach In	270	248	0.06	25	36
ORBH (Per Foot)	1	Meat	Std. Reach In	285	263	0.07	25	34

SECOND NATURE DATA								
Case Model	No. of Coils	Application	Front Sill Type	No. of Defrosts	Timed Off Defrost		Warm Fluid Defrost	
					Fail-Safe (Min)	Termination Temp (°F)	Fail-Safe (Min)	Termination Temp (°F)
ORBH (30" Door)	1	Beverage	Std. Reach In	4	60	47	26	49
ORBH (30" Door)	1	Deli / Dairy	Std. Reach In	4	60	47	26	49
ORBH (30" Door)	1	Meat	Std. Reach In	4	60	47	26	49
ORBH (30" Door)	1	Beverage	Std. Reach In	4	45	47	26	49
ORBH (30" Door)	1	Deli / Dairy	Std. Reach In	4	45	47	26	49
ORBH (30" Door)	1	Meat	Std. Reach In	4	45	47	26	49
ORBH (Per Foot)	1	Beverage	Std. Reach In	4	60	47	26	49
ORBH (Per Foot)	1	Deli / Dairy	Std. Reach In	4	60	47	26	49
ORBH (Per Foot)	1	Meat	Std. Reach In	4	60	47	26	49
ORBH (Per Foot)	1	Beverage	Std. Reach In	4	45	47	26	49
ORBH (Per Foot)	1	Deli / Dairy	Std. Reach In	4	45	47	26	49
ORBH (Per Foot)	1	Meat	Std. Reach In	4	45	47	26	49

NOTES

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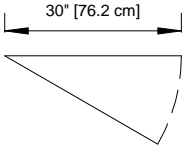
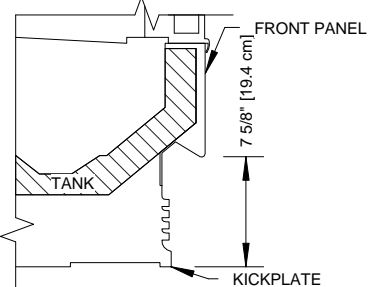
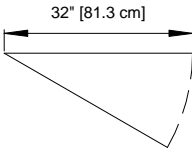
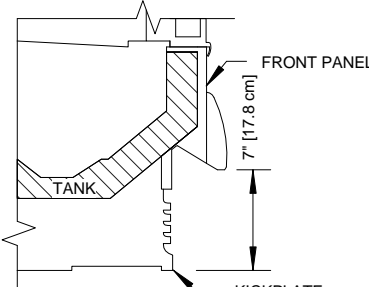
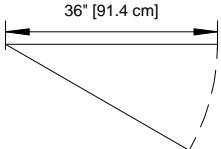
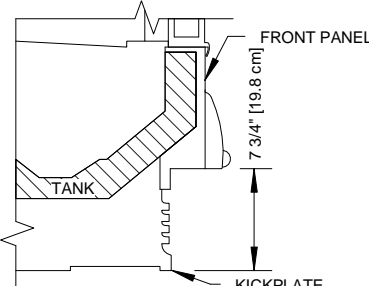
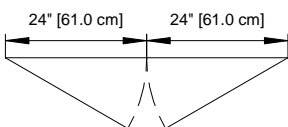


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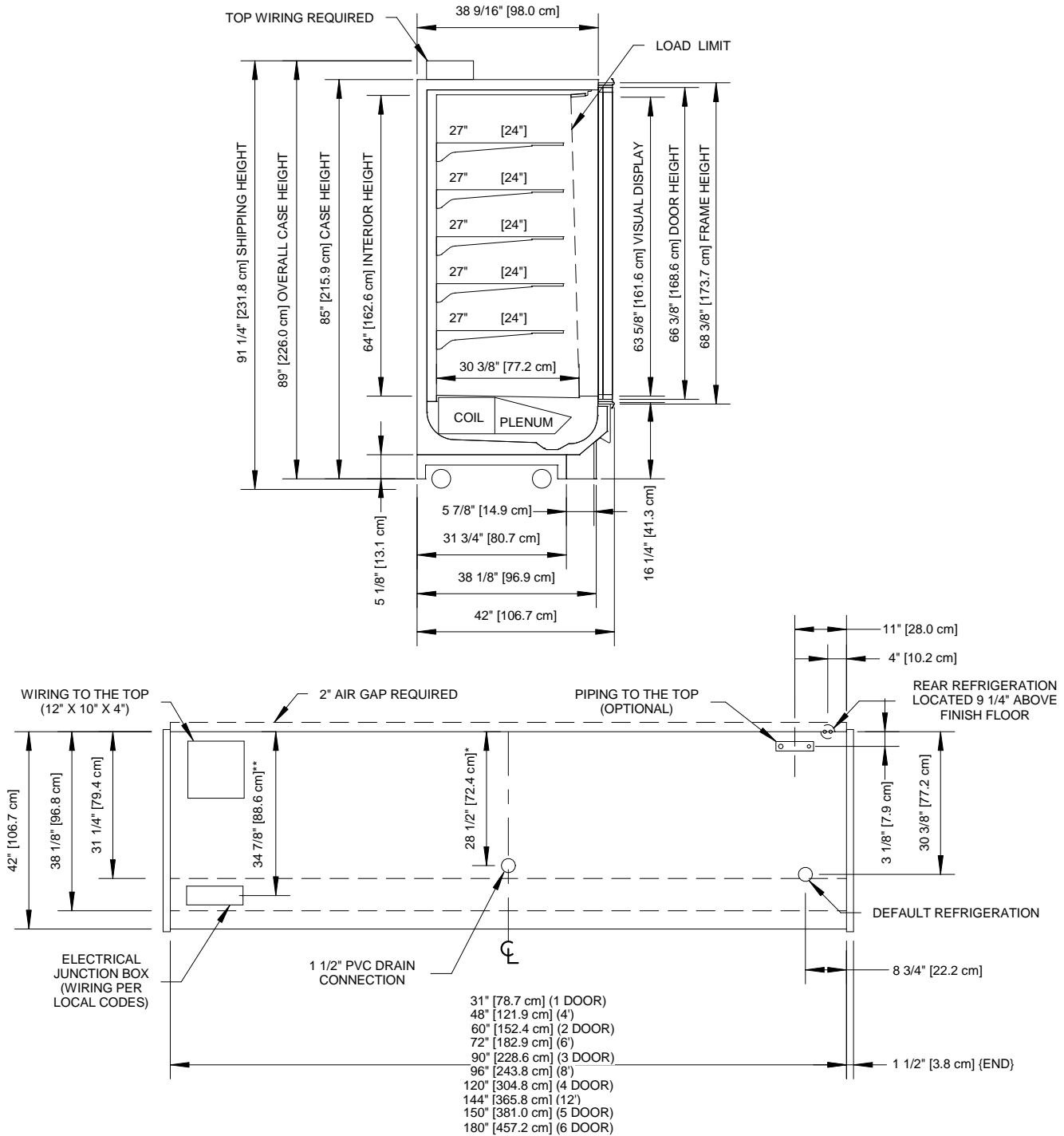
DOOR OPTIONS	FRONT OPTIONS
<p>STANDARD SWING DOOR 2,3,4,5 - DOOR CASES</p> 	<p>FLAT FRONT (O SERIES)</p> 
<p>STANDARD SWING DOOR 8' CASE</p> 	<p>STREAMLINE BUMPER</p> 
<p>STANDARD SWING DOOR 12' CASE</p> 	<p>HALF BUMPER</p> 
<p>BI- SWING DOOR 4,8' & 12' CASES</p> 	



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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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