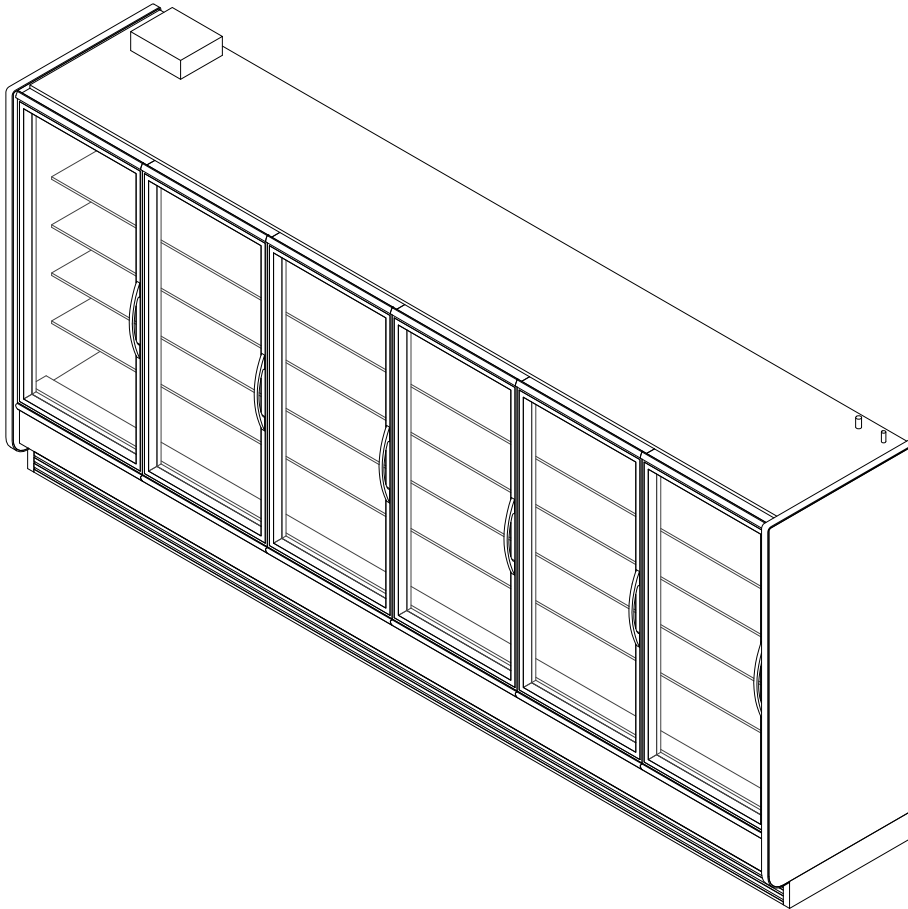


GENERAL NOTES

- 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: Light controls should be based on occupancy sensors.



SHIPPING WEIGHT	
Case	Weight
ONRB	1000 to 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	1.1	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

NOTES

- "----" indicates that this feature is not an option on this case model.
- Anti-condensate heat values represent a door with no heat.
- 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 acquire DOE representation, reduce light wattage by 42% at 75°F/55%RH conditions, reduce the light wattages above by 42%.
- Data listed is for Optimax Radiant and low power Optimax Pro (high power available). For other lighting options please contact your sales representative.



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ANTI CONDENSATE DATA						
Case Length	Door Size	Number of Doors	101 Frames		Vista Frames	
			Un Heated Doors		Un Heated Doors	
			ELMD, ELMH, I90		Vista C, I60, Elite	
			120 V		120 V	
			Amps	Watts	Amps	Watts
1 Door	31"	1	0.16	19	0.16	19
2 Door	30"	2	0.32	38	0.32	38
3 Door	30"	3	0.50	60	0.50	60
4 Door	30"	4	0.69	83	0.69	83
5 Door	30"	5	0.86	103	0.86	103
6 Door	30"	6	1.06	127	1.06	127
4'	24"	2	0.18	22	0.18	22
6'	24"	3	0.35	42	0.35	42
8'	24"	4	0.39	47	0.39	47
8'	32"	3	0.51	61	0.51	61
12'	24"	6	0.63	76	0.63	76
12'	36"	4	0.74	89	0.74	89

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"	510	465	34	4 - 6	40	250
Beverage	4'	24"	405	370	34	4 - 6	40	250
Beverage	6'	24"	405	370	34	4 - 6	40	250
Beverage	8'	24"	405	370	34	4 - 6	40	250
Beverage	8'	32"	540	495	34	4 - 6	40	250
Beverage	12'	24"	405	370	34	4 - 6	40	250
Beverage	12'	36"	610	555	34	4 - 6	40	250
Deli / Dairy	1 - 6 Door	30"	520	475	30	4 - 6	36	250
Deli / Dairy	4'	24"	415	380	30	4 - 6	36	250
Deli / Dairy	6'	24"	415	380	30	4 - 6	36	250
Deli / Dairy	8'	24"	415	380	30	4 - 6	36	250
Deli / Dairy	8'	32"	555	510	30	4 - 6	36	250
Deli / Dairy	12'	24"	415	380	30	4 - 6	36	250
Deli / Dairy	12'	36"	625	570	30	4 - 6	36	250
Meat	1 - 6 Door	30"	600	550	28	4 - 6	34	250
Meat	4'	24"	480	440	28	4 - 6	34	250
Meat	6'	24"	480	440	28	4 - 6	34	250
Meat	8'	24"	480	440	28	4 - 6	34	250
Meat	8'	32"	640	590	28	4 - 6	34	250
Meat	12'	24"	480	440	28	4 - 6	34	250
Meat	12'	36"	720	660	28	4 - 6	34	250

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



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SECOND NATURE DATA								
Case Model	No. of Coils	Application	Front Sill Type	BTUH/ft		GPM/ft	Supply Fluid Temp (°F)	Discharge Air Temp (°F)
				Conventional	Parallel			
ONRB (30" DOOR)	1	Beverage	Std. Reach In	510	465	0.06	20	38
ONRB (30" DOOR)	1	Deli / Dairy	Std. Reach In	520	475	0.08	20	36
ONRB (30" DOOR)	1	Meat	Std. Reach In	600	550	0.11	20	34
ONRB (30" DOOR)	1	Beverage	Std. Reach In	510	465	0.08	25	38
ONRB (30" DOOR)	1	Deli / Dairy	Std. Reach In	520	475	0.12	25	36
ONRB (30" DOOR)	1	Meat	Std. Reach In	600	550	0.16	25	34
ONRB (PER FOOT)	1	Beverage	Std. Reach In	203	185	0.02	20	34
ONRB (PER FOOT)	1	Deli / Dairy	Std. Reach In	208	190	0.03	20	34
ONRB (PER FOOT)	1	Meat	Std. Reach In	240	220	0.04	20	34
ONRB (PER FOOT)	1	Beverage	Std. Reach In	203	185	0.03	25	34
ONRB (PER FOOT)	1	Deli / Dairy	Std. Reach In	208	190	0.05	25	34
ONRB (PER FOOT)	1	Meat	Std. Reach In	240	220	0.06	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)
ONRB (30" DOOR)	1	Beverage	Std. Reach In	4	60	47	26	49
ONRB (30" DOOR)	1	Deli / Dairy	Std. Reach In	4	60	47	26	49
ONRB (30" DOOR)	1	Meat	Std. Reach In	4	60	47	26	49
ONRB (30" DOOR)	1	Beverage	Std. Reach In	4	45	47	26	49
ONRB (30" DOOR)	1	Deli / Dairy	Std. Reach In	4	45	47	26	49
ONRB (30" DOOR)	1	Meat	Std. Reach In	4	45	47	26	49
ONRB (PER FOOT)	1	Beverage	Std. Reach In	4	60	47	26	49
ONRB (PER FOOT)	1	Deli / Dairy	Std. Reach In	4	60	47	26	49
ONRB (PER FOOT)	1	Meat	Std. Reach In	4	60	47	26	49
ONRB (PER FOOT)	1	Beverage	Std. Reach In	4	45	47	26	49
ONRB (PER FOOT)	1	Deli / Dairy	Std. Reach In	4	45	47	26	49
ONRB (PER FOOT)	1	Meat	Std. Reach In	4	45	47	26	49

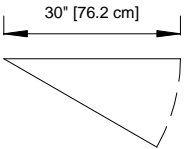
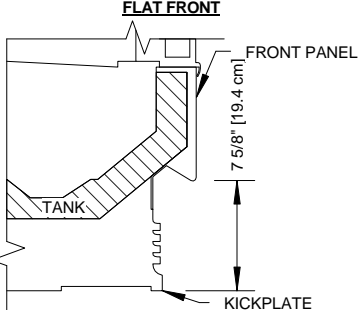
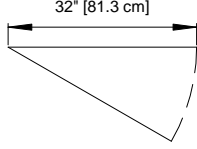
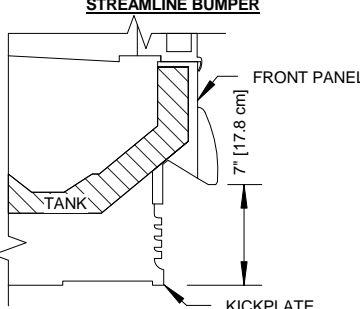
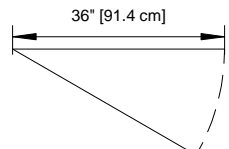
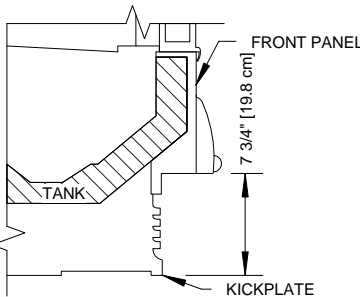
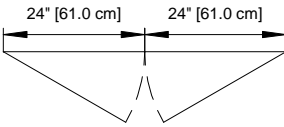


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DOOR OPTIONS	FRONT OPTIONS
<p>STANDARD SWING DOOR 2,3,4,5 - DOOR CASES</p> 	<p>FLAT FRONT</p> 
<p>STANDARD SWING DOOR 8' CASE</p> 	<p>STREAMLINE BUMPER</p> 
<p>STANDARD SWING DOOR 12' CASE</p> 	<p>HALF BUMPER</p> 
<p>BI- SWING DOOR 4,8' & 12' CASES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

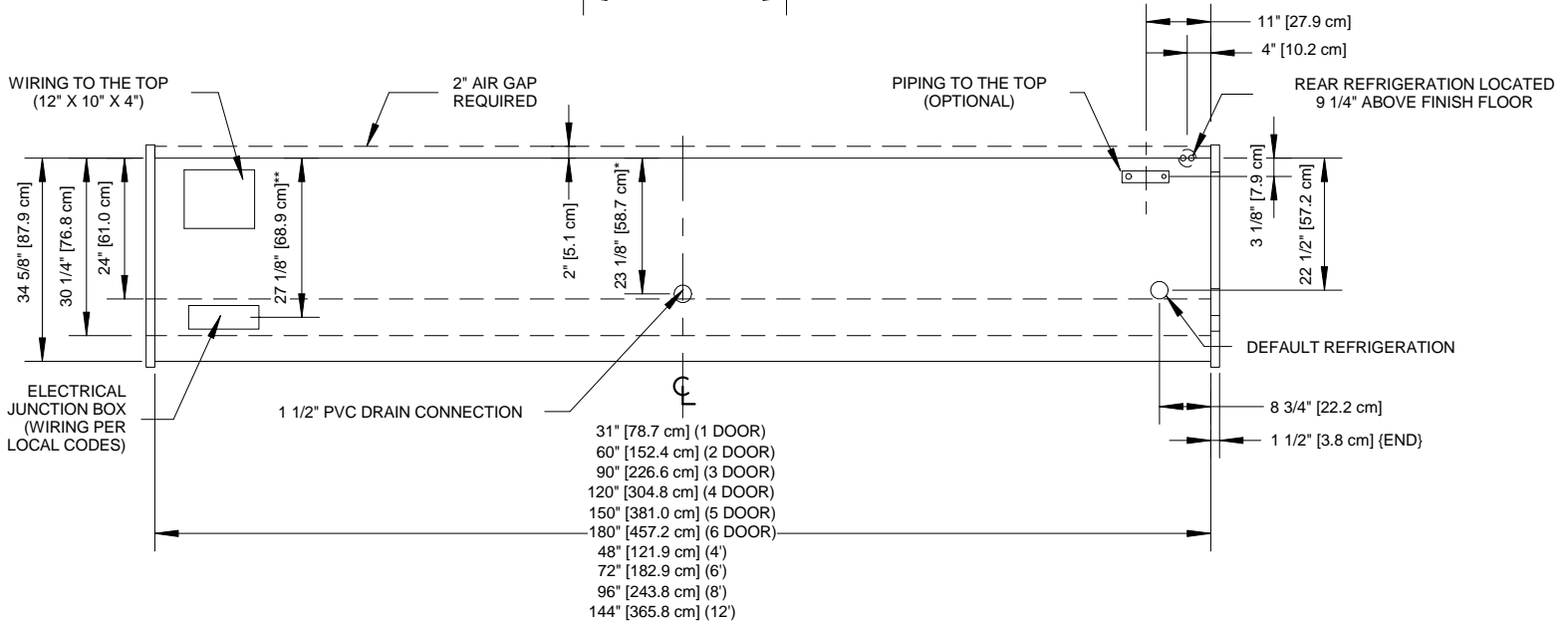
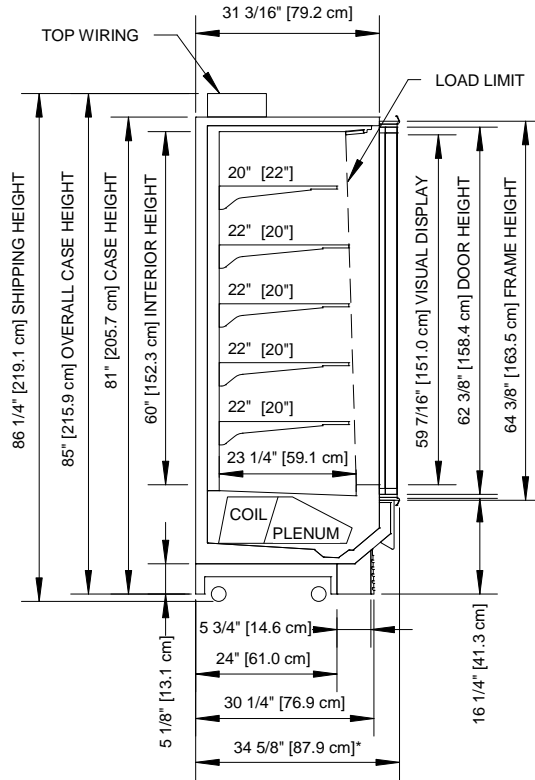


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NOTES

- * : 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.
- Back panels add approximately 1" to the rear of the case.



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