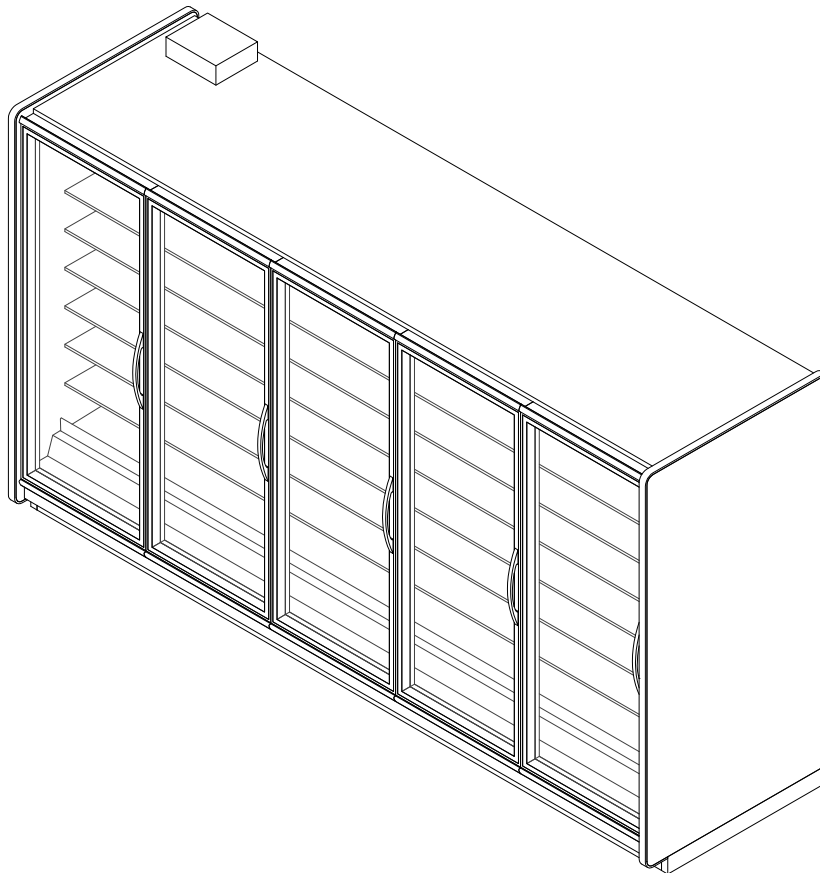


GENERAL NOTES

- 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
- Door frames are heated. Doors are not heated.
- 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. Store level A/S control should be set to 20% minimum off time at 75°F/55%RH.



SHIPPING WEIGHT	
Case	Weight
VRB	1000-2000LB



VRB

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ELECTRICAL DATA			
Case Length	Number of Fans	High Efficiency Fans	
		120 Volts	
		Amps	Watts
2 Door	1	0.22	26
3 Door	2	0.43	52
4 Door	2	0.43	52
5 Door	3	0.65	78
4'	1	0.22	26
6'	1	0.43	52
8'	2	0.43	52
12'	3	0.65	78

LIGHTING DATA							
Case Length	Door Size	OP45		OP55 (French Swing Only)		Optimax Pro 24 Low	
		120 Volts		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts
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
4'	24"	---	---	0.26	31.0	0.22	25.8
6'	24"	---	---	0.52	61.9	0.39	46.2
8'	24"	---	---	0.52	61.9	0.42	50.8
8'	32"	0.54	65.2	---	---	0.46	54.8
12'	24"	---	---	0.77	92.8	0.63	75.8
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	
		Amps	Watts	Amps	Watts
2 Door	30"	0.36	43	0.36	43
3 Door	30"	0.57	68	0.57	68
4 Door	30"	0.79	95	0.79	95
5 Door	30"	0.98	118	0.98	118
4'	24"	0.19	23	0.19	23
6'	24"	0.40	48	0.4	48
8'	24"	0.44	53	0.44	53
8'	32"	0.58	70	0.58	70
12'	24"	0.70	84	0.7	84
12'	36"	0.84	101	0.84	101



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GUIDELINES AND CONTROL SETTINGS

Application	Case Length	Door Size	BTUH/door		Superheat Set Point @ Bulb (°F)	Evaporator (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
			Conventional	Parallel				
Beverage/Produce	2 - 5 Door	30"	555	550	6 - 8	34	39	235
Beverage/Produce	4'	24"	445	440	6 - 8	34	39	235
Beverage/Produce	6'	24"	445	440	6 - 8	34	39	235
Beverage/Produce	8'	24"	445	440	6 - 8	34	39	235
Beverage/Produce	8'	32"	595	585	6 - 8	34	39	235
Beverage/Produce	12'	24"	445	440	6 - 8	34	39	235
Beverage/Produce	12'	36"	665	660	6 - 8	34	39	235
Deli/Dairy/Cut Produce	2 - 5 Door	30"	605	580	6 - 8	31	35	235
Deli/Dairy/Cut Produce	4'	24"	485	465	6 - 8	31	35	235
Deli/Dairy/Cut Produce	6'	24"	485	465	6 - 8	31	35	235
Deli/Dairy/Cut Produce	8'	24"	485	465	6 - 8	31	35	235
Deli/Dairy/Cut Produce	8'	32"	645	620	6 - 8	31	35	235
Deli/Dairy/Cut Produce	12'	24"	485	465	6 - 8	31	35	235
Deli/Dairy/Cut Produce	12'	36"	725	695	6 - 8	31	35	235
Meat	2 - 5 Door	30"	665	640	6 - 8	28	33	235
Meat	4'	24"	530	510	6 - 8	28	33	235
Meat	6'	24"	530	510	6 - 8	28	33	235
Meat	8'	24"	530	510	6 - 8	28	33	235
Meat	8'	32"	710	680	6 - 8	28	33	235
Meat	12'	24"	530	510	6 - 8	28	33	235
Meat	12'	36"	795	765	6 - 8	28	33	235

DEFROST CONTROLS

Defrosts Per Day	Timed-Off Defrost	
	Fail-Safe (Min)	Termination Temp (°F)
2	30	38

NOTES

- "---" indicates that this feature is not an option on this case model.
- 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 above by 42%.



VRB

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SECOND NATURE DATA								
Case	No. of Coils	Application	Front Sill Type	BTUH/ft (DR)		GPM/ft (DR)	Supply Fluid Temp (°F)	Discharge Air Temp (°F)
				Conventional	Parallel			
VRB (30" Door)	1	Beverage	Std. Reach In	640	666	0.07	20	34
VRB (30" Door)	1	Deli	Std. Reach In	710	697	0.10	20	31
VRB (30" Door)	1	Meat	Std. Reach In	810	777	0.15	20	28
VRB (30" Door)	1	Beverage	Std. Reach In	640	666	0.10	25	34
VRB (30" Door)	1	Deli	Std. Reach In	710	697	0.16	25	31
VRB (30" Door)	1	Meat	Std. Reach In	810	777	0.21	25	28
VRB (Per Foot)	1	Beverage	Std. Reach In	268	266	0.03	20	34
VRB (Per Foot)	1	Deli	Std. Reach In	284	139	0.04	20	31
VRB (Per Foot)	1	Meat	Std. Reach In	324	311	0.06	20	28
VRB (Per Foot)	1	Beverage	Std. Reach In	268	266	0.04	25	34
VRB (Per Foot)	1	Deli	Std. Reach In	284	139	0.06	25	31
VRB (Per Foot)	1	Meat	Std. Reach In	324	311	0.08	25	28

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)
VRB (30" Door)	1	Beverage	Std. Reach In	2	60	47	26	49
VRB (30" Door)	1	Deli	Std. Reach In	2	60	47	26	49
VRB (30" Door)	1	Meat	Std. Reach In	2	60	47	26	49
VRB (30" Door)	1	Beverage	Std. Reach In	2	60	42	26	49
VRB (30" Door)	1	Deli	Std. Reach In	2	60	42	26	49
VRB (30" Door)	1	Meat	Std. Reach In	2	60	42	26	49
VRB (Per Foot)	1	Beverage	Std. Reach In	2	60	47	26	49
VRB (Per Foot)	1	Deli	Std. Reach In	2	60	47	26	49
VRB (Per Foot)	1	Meat	Std. Reach In	2	60	47	26	49
VRB (Per Foot)	1	Beverage	Std. Reach In	2	45	42	26	49
VRB (Per Foot)	1	Deli	Std. Reach In	2	45	42	26	49
VRB (Per Foot)	1	Meat	Std. Reach In	2	45	42	26	49

NOTES

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- Listed discharge air velocity represents the average velocity at the peak of defrost.
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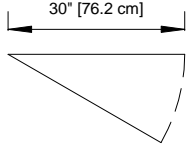
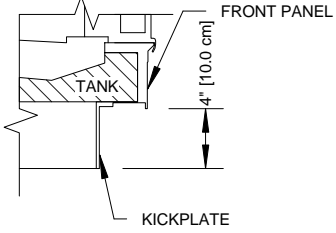
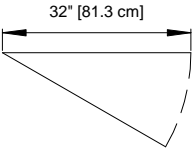
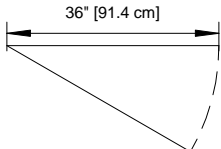
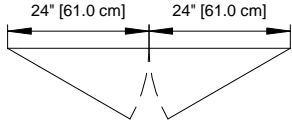


VRB

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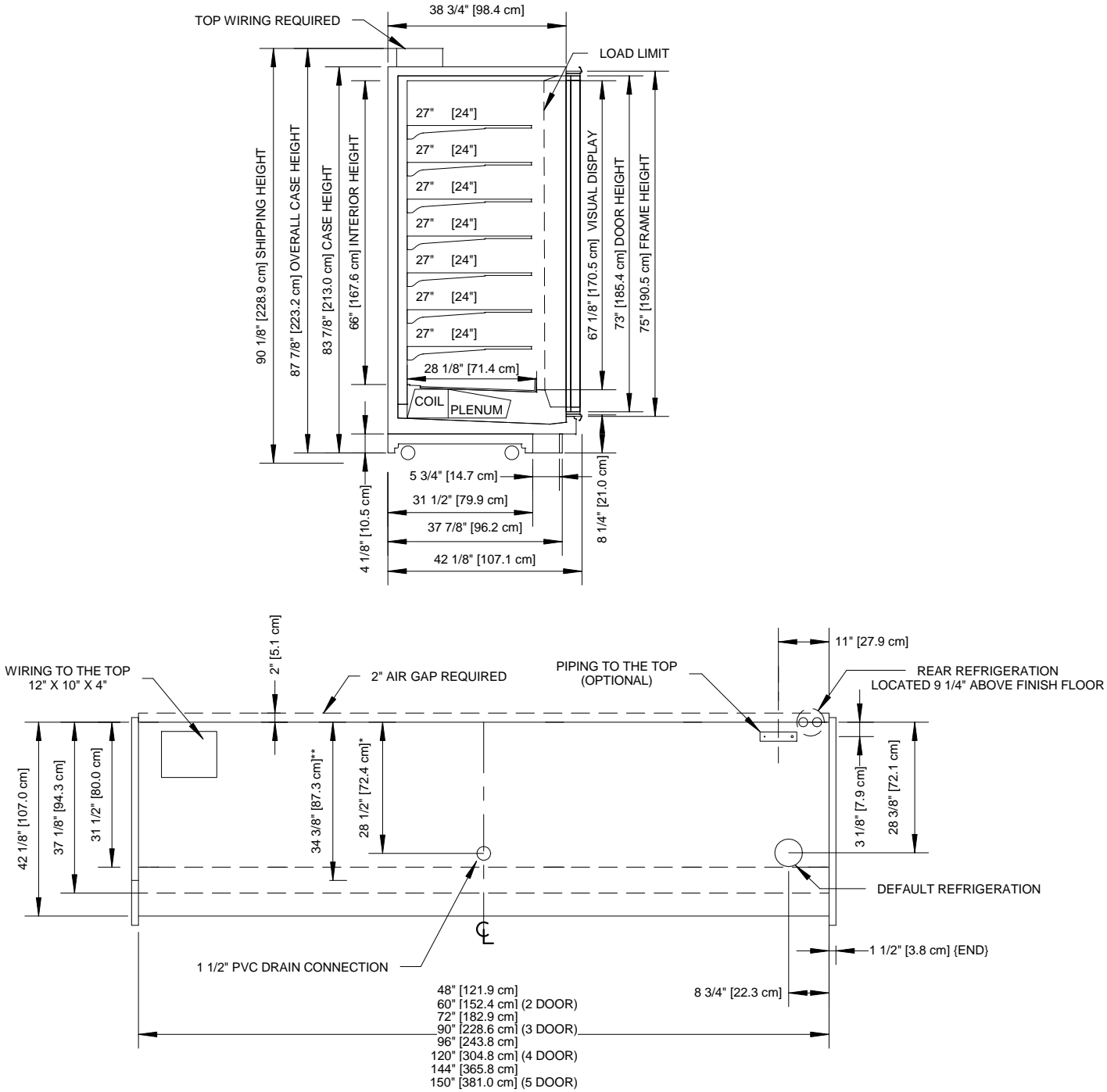
DOOR OPTIONS	FRONT OPTIONS
<p>STANDARD SWING DOOR 2,3,4,5 - DOOR CASES</p> 	<p>FLAT FRONT (V SERIES)</p> 
<p>STANDARD SWING DOOR 8' CASE</p> 	
<p>STANDARD SWING DOOR 12' CASE</p> 	
<p>BI-SWING DOOR 4,8' & 12' CASES</p> 	



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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



VRB

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