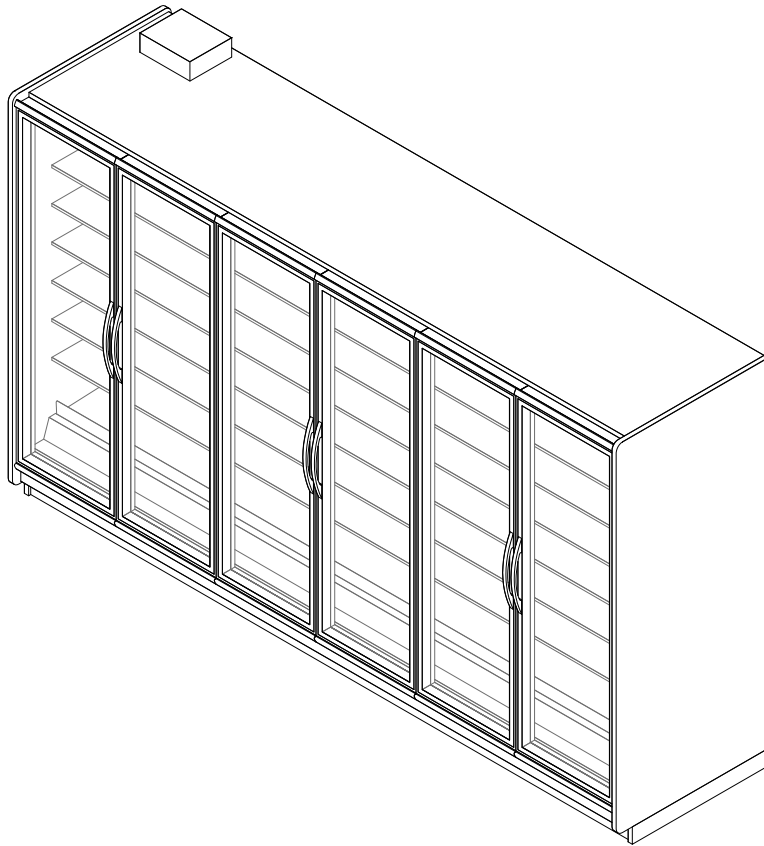


GENERAL NOTES

- 4-foot cases consist of 2 (24") doors.
- 6-foot cases consist of 2 (36") doors.
- 8-foot cases single swing consist of 3 (32") doors.
- 8-foot cases 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.



SHIPPING WEIGHT	
Case	Weight
VNRB	1000-2000 LBs



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VNRB

Rev Date:	Rev #	Revision Description:
4-25-18	2	NEW STANDARDS
12-1-17	1	DOE 2017

ELECTRICAL DATA			
Case Length	Fans Per Case	High Efficiency Fans	
		120 Volts	
		Amps	Watts
2 Door	1	0.22	26
3 Door	2	0.43	52
4 Door	2	0.43	58
5 Door	3	0.65	78
4'	1	0.22	26
6'	2	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	0.28	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	Number of Doors	101 Frames		Vista Frames	
			Un Heated Doors		Un Heated Doors	
			ELMD, ELMH, I90		Vista C, I60, Elite	
			Amps	Watts	Amps	Watts
2 Door	30"	2	0.36	43	0.36	43
3 Door	30"	3	0.57	68	0.57	68
4 Door	30"	4	0.79	95	0.79	95
5 Door	30"	5	0.98	118	0.98	118
4'	24"	2	0.19	23	0.19	23
6'	24"	3	0.40	48	0.40	48
8'	24"	4	0.44	53	0.44	53
8'	32"	3	0.58	70	0.58	70
12'	24"	6	0.70	84	0.70	84
12'	36"	4	0.84	101	0.84	101

NOTES

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- Data listed is for Optimax Radiant and low power Optimax Pro (high power available). For other lighting options please contact your sales representative.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- 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%.



VNRB

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Rev Date:	Rev #	Revision Description:
4-25-18	2	NEW STANDARDS
12-1-17	1	DOE 2017

GUIDELINES AND CONTROL DATA								
Application	Case Length	Door Size	BTUH/Door		Superheat Set Point @ Bulb (°F)	Discharge Air (°F)	Evaporator (°F)	Discharge Air Velocity (FPM)
			Conventional	Parallel				
Beverage	2 - 5 Door	30"	505	500	6 - 8	40	34	300
Beverage	4'	24"	405	400	6 - 8	40	34	300
Beverage	6'	24"	405	400	6 - 8	40	34	300
Beverage	8'	24"	405	400	6 - 8	40	34	300
Beverage	8'	32"	545	353	6 - 8	40	34	300
Beverage	12'	24"	405	400	6 - 8	40	34	300
Beverage	12'	36"	605	600	6 - 8	40	34	300
Deli	2 - 5 Door	30"	550	530	6 - 8	36	31	300
Deli	4'	24"	445	425	6 - 8	36	31	300
Deli	6'	24"	445	425	6 - 8	36	31	300
Deli	8'	24"	445	425	6 - 8	36	31	300
Deli	8'	32"	590	565	6 - 8	36	31	300
Deli	12'	24"	445	425	6 - 8	36	31	300
Deli	12'	36"	660	635	6 - 8	36	31	300
Meat	2 - 5 Door	30"	605	585	6 - 8	34	28	300
Meat	4'	24"	485	465	6 - 8	34	28	300
Meat	6'	24"	485	465	6 - 8	34	28	300
Meat	8'	24"	485	465	6 - 8	34	28	300
Meat	8'	32"	650	620	6 - 8	34	28	300
Meat	12'	24"	485	465	6 - 8	34	28	300
Meat	12'	36"	725	700	6 - 8	34	28	300

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

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- 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%.



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Rev Date:	Rev #	Revision Description:
4-25-18	2	NEW STANDARDS
12-1-17	1	DOE 2017



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			
VNRB (30" Door)	1	Beverage	Std. Reach in	640	666	0.07	20	34
VNRB (30" Door)	1	Deli	Std. Reach in	710	697	0.10	20	31
VNRB (30" Door)	1	Meat	Std. Reach in	810	777	0.15	20	28
VNRB (30" Door)	1	Beverage	Std. Reach in	640	666	0.10	25	34
VNRB (30" Door)	1	Deli	Std. Reach in	710	697	0.16	25	31
VNRB (30" Door)	1	Meat	Std. Reach in	810	777	0.21	25	28
VNRB (Per Foot)	1	Beverage	Std. Reach in	268	266	0.03	20	34
VNRB (Per Foot)	1	Deli	Std. Reach in	284	139	0.04	20	31
VNRB (Per Foot)	1	Meat	Std. Reach in	324	311	0.06	20	28
VNRB (Per Foot)	1	Beverage	Std. Reach in	268	266	0.04	25	34
VNRB (Per Foot)	1	Deli	Std. Reach in	284	139	0.06	25	31
VNRB (Per Foot)	1	Meat	Std. Reach in	324	311	0.08	25	28

SECOND NATURE DATA								
Case	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)
VNRB (30" Door)	1	Beverage	Std. Reach in	2	60	47	26	49
VNRB (30" Door)	1	Deli	Std. Reach in	2	60	47	26	49
VNRB (30" Door)	1	Meat	Std. Reach in	2	60	47	26	49
VNRB (30" Door)	1	Beverage	Std. Reach in	2	60	42	26	49
VNRB (30" Door)	1	Deli	Std. Reach in	2	60	42	26	49
VNRB (30" Door)	1	Meat	Std. Reach in	2	60	42	26	49
VNRB (Per Foot)	1	Beverage	Std. Reach in	2	60	47	26	49
VNRB (Per Foot)	1	Deli	Std. Reach in	2	60	47	26	49
VNRB (Per Foot)	1	Meat	Std. Reach in	2	60	47	26	49
VNRB (Per Foot)	1	Beverage	Std. Reach in	2	45	42	26	49
VNRB (Per Foot)	1	Deli	Std. Reach in	2	45	42	26	49
VNRB (Per Foot)	1	Meat	Std. Reach in	2	45	42	26	49

NOTES

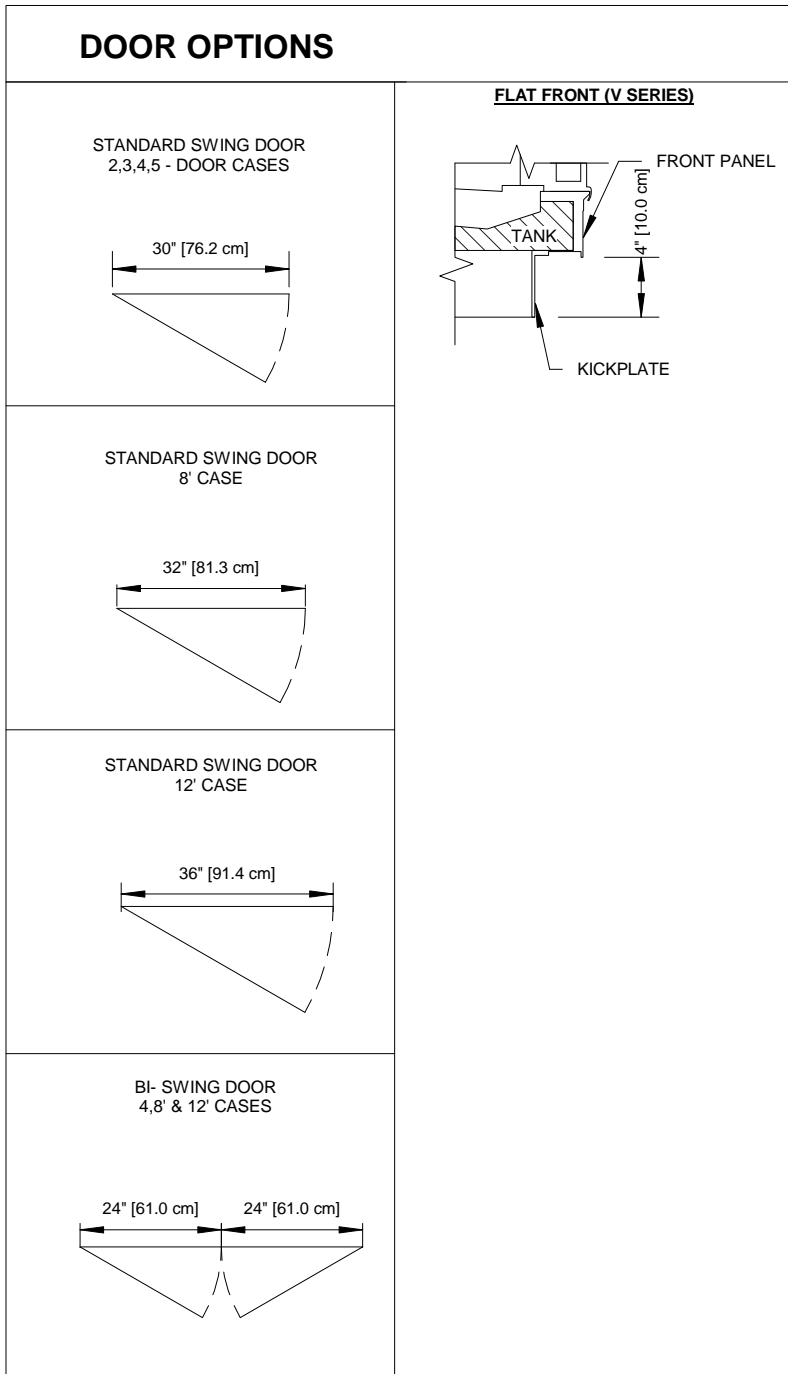
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12-1-17	1	DOE 2017

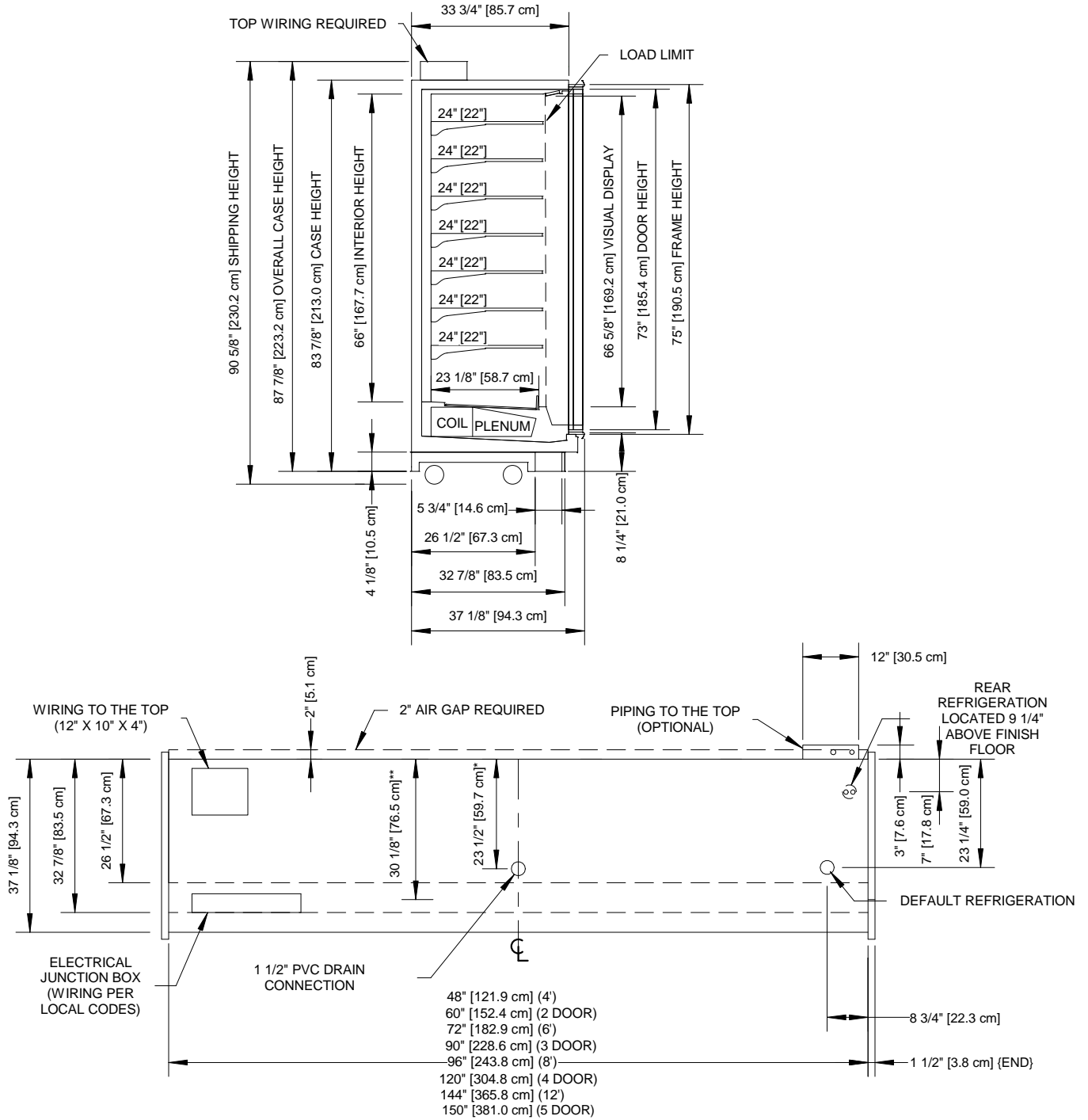


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12-1-17	1	DOE 2017



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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