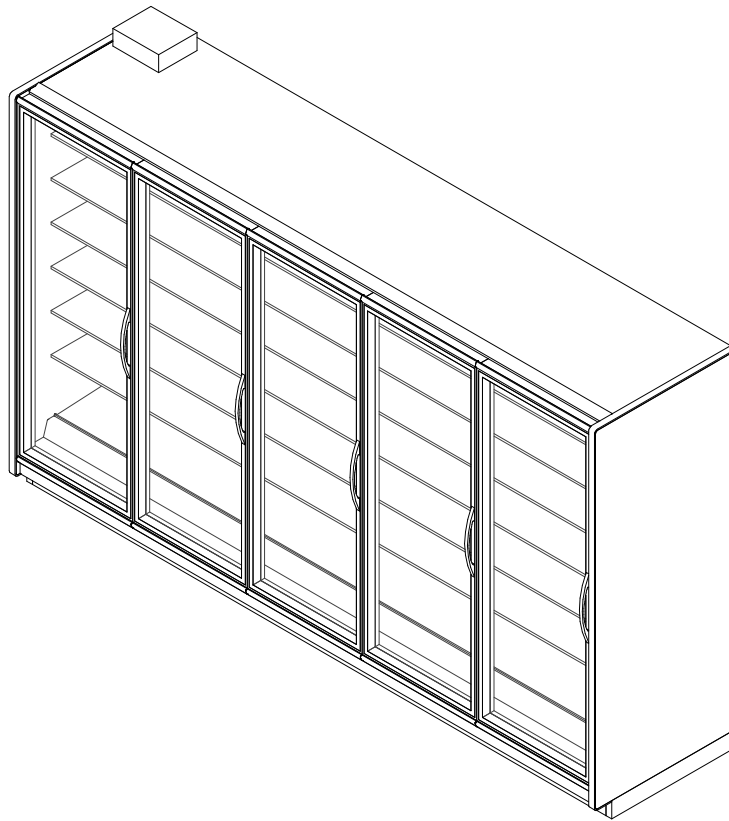


# VNRZH

## 1, 2, 3, 4, & 5 Door High Narrow Reach-In Merchandiser Frozen Food/Ice Cream

### GENERAL NOTES:

- 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 30% minimum off time at 75°F/55%RH.



SHIPPING WEIGHT	
Case	Weight
VNRZH	---



COMPONENT

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## 1, 2, 3, 4, & 5 Door High Narrow Reach-In Merchandiser Frozen Food/Ice Cream

ELECTRICAL DATA									
Case Length	Fans Per Case	High Efficiency Fans		Drain Heaters		Defrost Heaters (1 - Phase)			
		120 Volts		120 Volts		208 Volts		240 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1 Door	1	0.40	26	0.90	113	3.27	680	3.78	906
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

LIGHTING DATA					
Case Length	Door Size	OP45		OP7 Single Swing	
		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts
1 Door	31"	0.18	21.0	0.17	20.4
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

ANTI CONDENSATE DATA											
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
1 Door	31"	0.33	39	0.19	23	0.36	44	0.21	25	0.86	103
2 Door	30"	0.65	78	0.38	46	0.73	87	0.42	50	1.41	169
3 Door	30"	0.98	118	0.58	69	1.09	131	0.63	75	1.97	236
4 Door	30"	1.31	157	0.77	92	1.45	174	0.84	100	2.56	307
5 Door	30"	1.63	196	0.96	115	1.82	218	1.05	126	3.09	371



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GUIDELINES AND CONTROL SETTINGS								
Case Length	Application	Door	BTUH/Door		Superheat Set Point @ Bulb (°F)	Evaporator (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
			Conventional	Parallel				
1 Door	Frozen	Heated	1510	1495	3 - 5	- 7	- 1	255
1 Door	Frozen	Low E	1480	1460	3 - 5	- 7	- 1	255
1 Door	Ice Cream	Heated	1675	1655	3 - 5	- 15	- 8	255
1 Door	Ice Cream	Low E	1640	1615	3 - 5	- 15	- 8	255

Case Length	Application	Door	BTUH/Door		Superheat Set Point @ Bulb (°F)	Evaporator (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
			Conventional	Parallel				
2 - 5 Door	Frozen	Heated	1173	1149	3 - 5	- 7	- 1	550
2 - 5 Door	Frozen	Low E	1150	1126	3 - 5	- 7	- 1	550
2 - 5 Door	Ice Cream	Heated	1262	1236	3 - 5	- 15	- 8	550
2 - 5 Door	Ice Cream	Low E	1237	1211	3 - 5	- 15	- 8	550

DEFROST CONTROLS						
Defrosts Per Day	Electric Defrost			Hot Gas Defrost		
	Fail Safe (Min)	Termination Temp (°F)	Run Off Time (Min)	Fail Safe (Min)	Termination Temp (°F)	Run Off Time (Min)
1	46	50	0	24	73	13 - 15

### 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.
- Defrost heater 3-phase load is unbalanced.
- 3-phase defrost heater data listed represents the maximum amps per phase.
- Data listed is for Optimax Radiant. For other lighting options please contact your sales representative.
- Anti-condensate heat values for Low E doors 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



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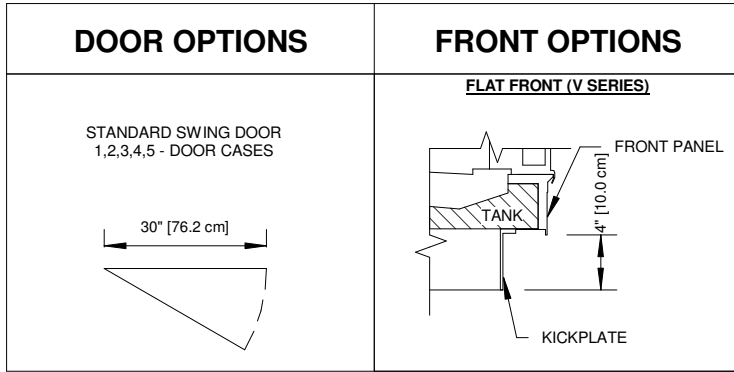
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# VNRZH

1, 2, 3, 4, & 5 Door High Narrow Reach-In Merchandiser  
Frozen Food/Ice Cream



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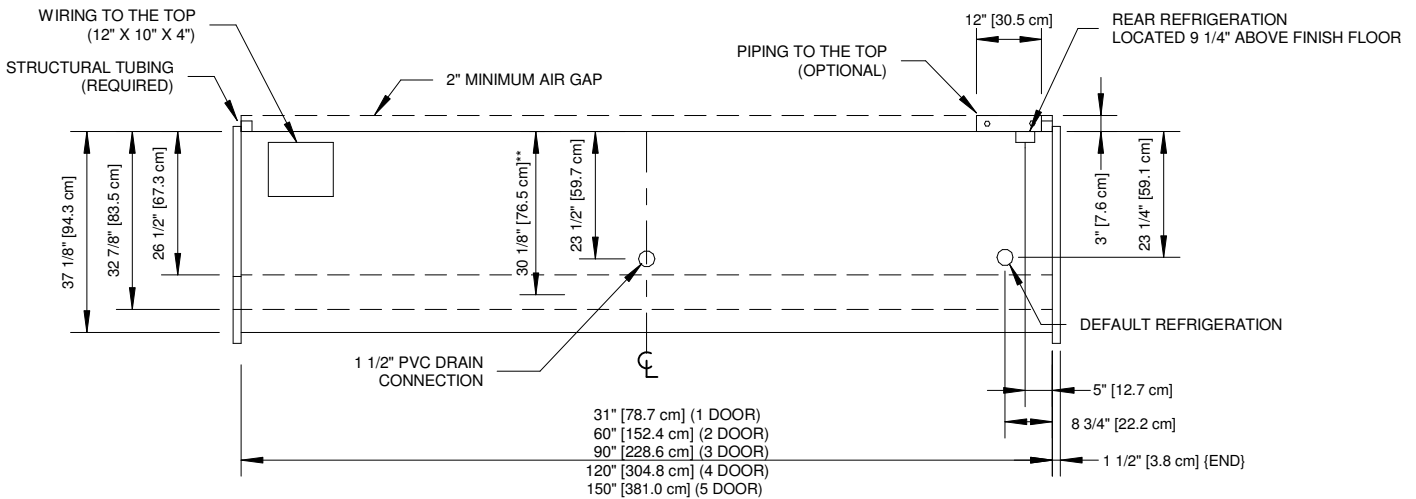
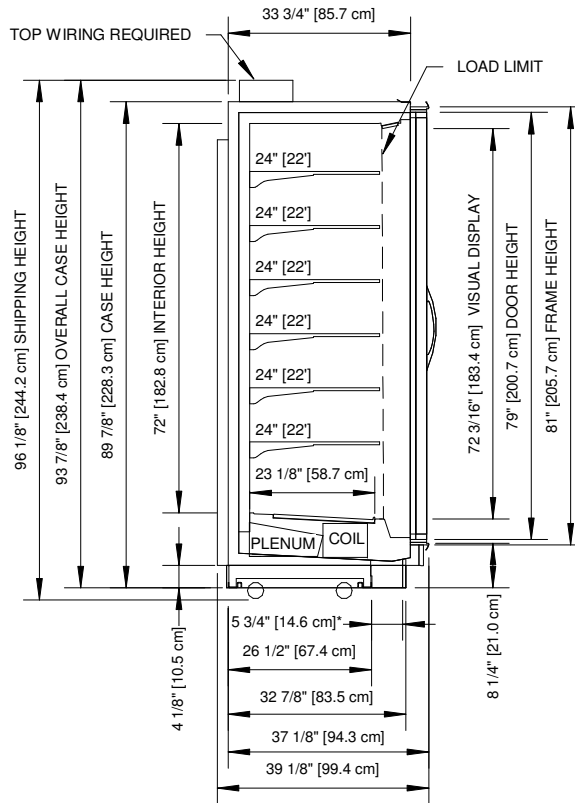
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## 1, 2, 3, 4, & 5 Door High Narrow Reach-In Merchandiser Frozen Food/Ice Cream



### 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.



COMPONENT

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