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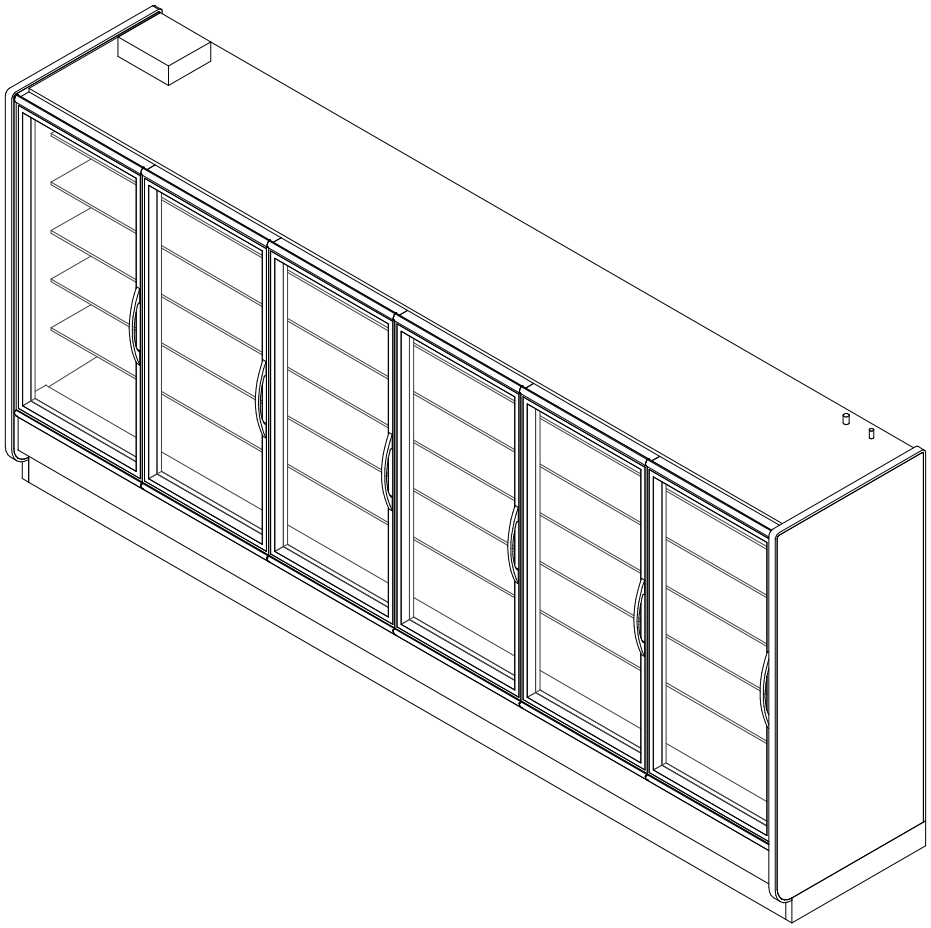
2, 3, 4, 5 & 6 Door Narrow Reach-In Glass Door Merchandiser
Frozen Food/Ice Cream

GENERAL NOTES:

• "---" indicates that the feature is not an option with this case model and/or the data is not available at this time.
• 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 75ºF/55%RH.



SHIPPING WEIGHT	
Case	Weight
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Rev. Date	Rev. #	Rev. Title
04-25-24	12	ENDVIEW UPDATE
10-24-23	11	NOTES UPDATE

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ELECTRICAL DATA

Case Length	Fans Per Case	High Efficiency Fans		Drain Heaters		Defrost Heaters (1-Phase)				Defrost Heaters (3-Phase)			
		120 Volts		120 Volts		208 Volts		240 Volts		208 Volts		240 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
2 Door	2	0.60	50	1.32	152	7.50	1552	8.60	2068	6.50	1552	7.50	2068
3 Door	3	1.00	75	1.50	171	10.90	2274	12.60	3018	9.50	2274	10.90	3018
4 Door	4	1.30	100	1.90	226	14.30	2984	16.60	3992	12.40	2984	14.40	3992
5 Door	5	1.60	125	2.30	275	17.50	3640	20.20	4840	15.10	3640	17.40	4840
6 Door	6	1.90	150	2.70	320	20.30	4224	23.40	5624	17.60	4224	20.30	5624

LIGHTING DATA

Case Length	Door Size	OP7 Single Swing	
		120 Volts	
		Amps	Watts
2 Door	30"	0.28	33.0
3 Door	30"	0.41	49.2
4 Door	30"	0.55	65.4
5 Door	30"	0.68	81.6
6 Door	30"	0.82	97.8

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
2 Door	30"	0.53	63	0.32	38	0.59	71	0.35	42	1.19	143
3 Door	30"	0.79	95	0.48	57	0.89	107	0.53	63	1.67	200
4 Door	30"	1.05	126	0.63	76	1.18	142	0.70	84	2.18	262
5 Door	30"	1.32	158	0.79	95	1.48	178	0.88	105	2.64	317
6 Door	30"	1.58	190	0.95	114	1.78	213	1.05	126	3.13	376

GUIDELINES AND CONTROL SETTINGS {DIRECT EXPANSION HFC/CO2}

Application	Door	BTUH/door		Superheat Set Point @ Bulb (°F)	Evaporator (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
		Conventional	Parallel				
Frozen Food	Heated	947	931	3 - 5	- 7	- 1	210
Frozen Food	Low E	896	881	3 - 5	- 7	- 1	210
Ice Cream	Heated	1020	995	3 - 5	- 15	- 8	210
Ice Cream	Low E	960	937	3 - 5	- 15	- 8	210

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DEFROST CONTROLS {DIRECT EXPANSION HFC/CO2}						
	Electric Defrost			Hot Gas Defrost		
Defrosts Per Day	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.
• Heated doors (heat on the glass) require anti-condensate and lighting controls.Frame A/S heat is cycled off during defrost cycles.
• Anti-condensate heat values for Eliminator represent a door with no heat on the glass.
• Listed discharge air velocity represents the average velocity immediately after defrost completion using a Testo 410i vane anemometer with anemometer air scoop (HP part number P109185M) positioned adjacent to the interior edge of the discharge honeycomb.
• The recommended evaporator temperature and defrost settings 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 75ºF/55%RH conditions, reduce the light wattages above by 42%.
• Low energy doors (no heat on the glass) do not require anti-condensate or lighting controls. Frame A/S heat is cycled off during defrost cycles.
• Heated doors (heat on the glass) require anti-condensate and lighting controls. Frame A/S heat is cycled off during defrost cycles.
• Discharge air temperature values represent readings taken within the upper air channel immediately behind/upstream of the honeycomb.
• Conventional Discharge Air Control – Recommended Settings: Cut-In Temp = Discharge Air + 2°F; Cut-Out Temp = Discharge Air - 2°F.
• For optimal defrost performance, it is recommended to close both the liquid line and suction line during defrost. Published defrost data are based upon this configuration. Parameter changes may be required if alternative control methods are used.

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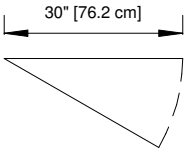
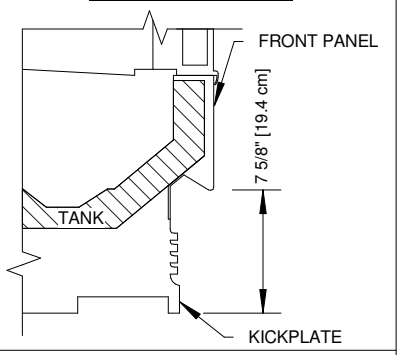
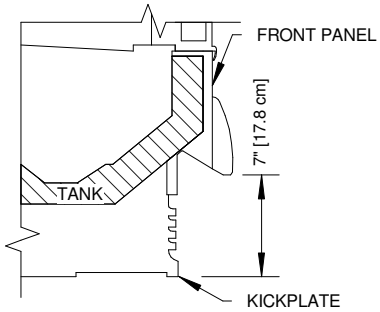
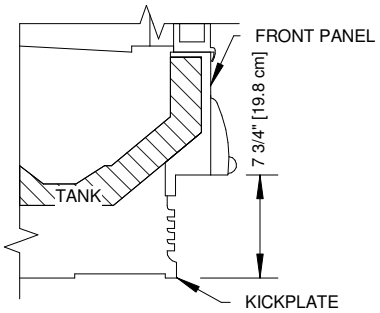
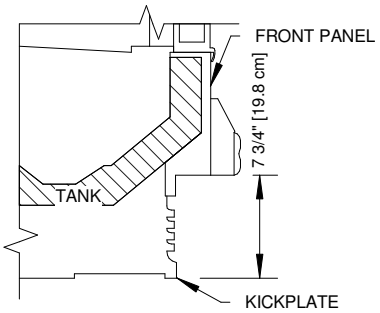
DOOR OPTIONS	FRONT OPTIONS
STANDARD SWING DOOR 2, 3, 4, 5, & 6 - DOOR CASES  	**FLAT FRONT (O SERIES)** 
	STREAMLINE BUMPER 
	HALF BUMPER 
	CLASSIC 2 BUMPER 

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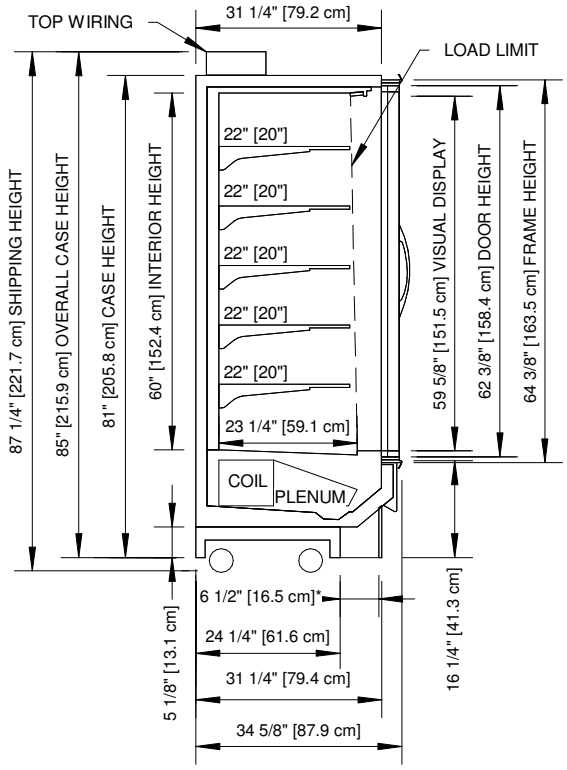

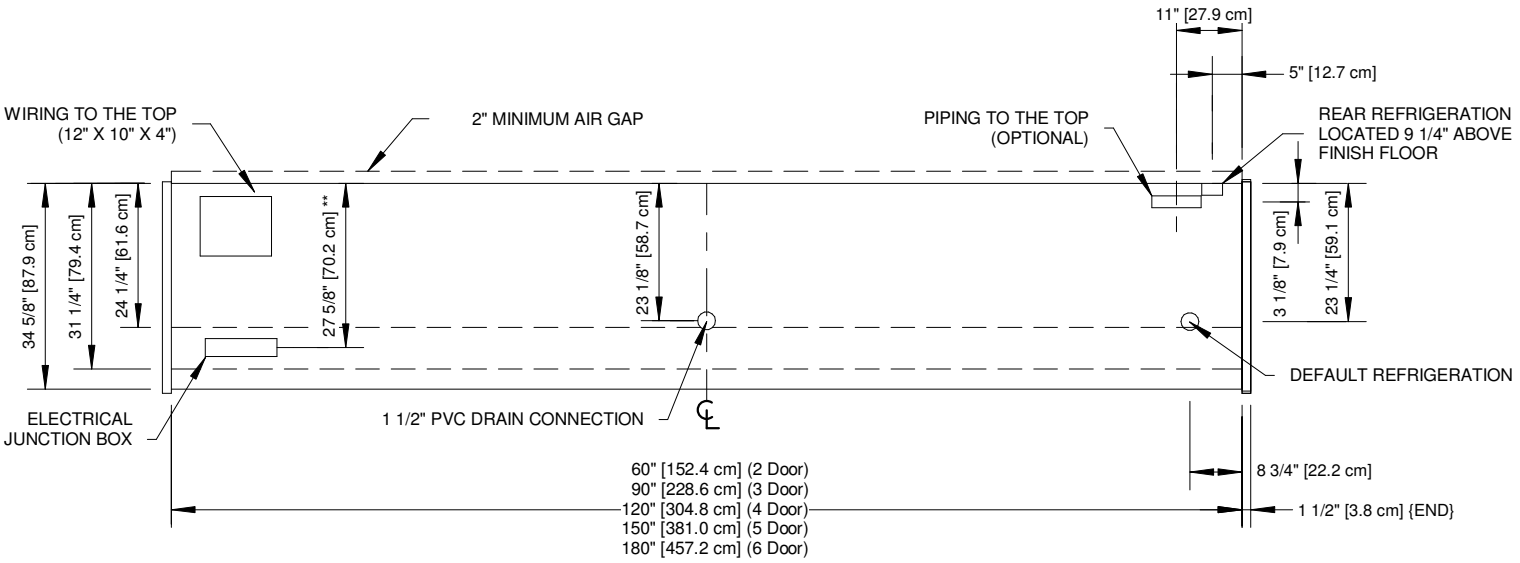

NOTES:

* : STUB-UP AREA
** : RECOMMENDED STUB-UP CENTERLINE FOR ELECTRICAL AND HUB DRAINS

• Ends add aproximately 1" to case height, 1/2" to the back & 1" to the front.

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