



Crystal Merchandiser® RVLC30 & RVLC30BB Specs

Low Temp Reach-Ins with 30" x 74" CoolView® Illusion™ Doors

RVLC30BB: BB=Back-to-Back

Refrigeration Data

Refrigeration	
Evaporator Temperature (°F) ¹	-7
Baseline Btu/h ^{2,3}	925
Discharge Air Temperature (°F) (w/ 8°F Superheat)	-3
Btu/h Deducts	
RVLC30BB ⁴	-75
Btu/h Adders	
Optional Glass Windowed End Panel (Each)	315
Anti-Sweat High Humidity Package	100

Lineup Data	
Per Door Avg	
FF	IC
-7	-16
925	1,005
-3	-12
FF	IC
-75	-85
FF	IC
315	350
100	100

Individual Case Data (Includes 1 Pair of End Panels)									
2-Door		3-Door		4-Door		5-Door			
FF	IC	FF	IC	FF	IC	FF	IC	FF	IC
-7	-16	-7	-16	-7	-16	-7	-16	-7	-16
2,130	2,430	3,280	3,540	4,300	4,640	5,330	5,750		
-3	-12	-3	-12	-3	-12	-3	-12	-3	-12

Electrical & Energy Data ⁵

Fan Motors (115V) ⁶	
High Efficiency Electronic (ECM or SSC)	0.42
Lighting System (120V)	
LED Lighting (Zero Zone ChillBrite 4190)	0.16
Anti-Sweat Heat (115V) ⁷	
Standard-Energy Doors (Zero Zone CoolView Illusion)	0.74
High Humidity Package (Zero Zone CoolView Illusion) ⁸	1.08
Defrost Heaters ^{9,10}	
Single Phase (208V/1/60Hz)	4.00
Three Phase (208V/3/60Hz)	2.31

Lineup Data	
Per Door Avg	
Amps	Watts
0.42	24
Amps	Watts
0.16	19
Amps	Watts
0.74	85
1.08	125
Amps	Watts
4.00	832
2.31	832

Individual Case Data (Includes 1 Pair of End Panels)									
2-Door		3-Door		4-Door		5-Door			
Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
0.84	48	1.26	72	1.68	96	2.10	120		
Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
0.32	39	0.48	58	0.63	77	0.79	96		
Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1.50	173	2.23	257	2.97	341	3.70	425		
2.22	255	3.29	378	4.35	501	5.42	623		
Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
8.00	1,680	12.00	2,496	16.00	3,328	20.00	4,160		
4.66	1,680	6.93	2,496	9.23	3,328	11.55	4,160		

Physical Data

Refrigeration Piping: R-404A & R-448A ¹¹	
Suction Line O.D. (Standard Refrigeration Exit)	
Suction Line O.D. (Top Refrigeration Exit)	
Liquid Line O.D. (Electric Defrost)	
Liquid Line O.D. (Hot Gas Defrost)	
Refrigeration Piping: CO2 ¹¹	
Suction Line O.D. (Standard Refrigeration Exit)	
Suction Line O.D. (Top Refrigeration Exit)	
Liquid Line O.D. (Electric Defrost)	
Liquid Line O.D. (Hot Gas Defrost)	

Outlet Size (in.)			
2-Door	3-Door	4-Door	5-Door
7/8	7/8	7/8	7/8
3/8	5/8	5/8	5/8
3/8	3/8	3/8	3/8
1/2	1/2	1/2	1/2
2-Door	3-Door	4-Door	5-Door
1/2	1/2	1/2	1/2
1/2	1/2	1/2	1/2
3/8	3/8	3/8	3/8
1/2	1/2	1/2	1/2

Case Calculations	Solid End Panel	Windowed End	2-Door	3-Door	4-Door	5-Door
Facings (ft. ²)	N/A	N/A	28.4	42.3	56.3	70.2
Packout (ft. ³) 22" Shelves	N/A	N/A	51.5	76.7	101.9	127.1
Packout (ft. ³) 24" Shelves	N/A	N/A	55.1	82.1	109.2	136.1
Weight (lbs.) RVLC30	30	55	755	1,055	1,420	1,800
Weight (lbs.) RVLC30BB	60	110	1,450	2,030	2,740	3,480

Notes:

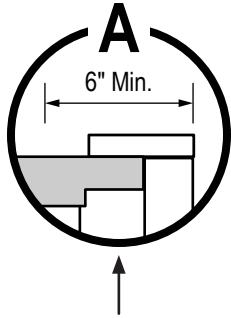
- For high-glide refrigerants, use dew point for unit sizing. Adjust evaporator pressure as needed to maintain discharge air temperatures.
- Baseline Evaporator Btu/h based on parallel rack system, LED Lighting (Zero Zone ChillBrite® 4244), standard-energy doors (Zero Zone CoolView® Illusion™), and ECM or SSC electronic fan motors.
- For condensing units (non-rack system), multiply total Btu/h rating by 1.06.
- RVLC30BB data reported per side. Btu/h deduct is applied to each side.
- Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.
- One fan motor per door.
- Door (Anti-Sweat) Options: standard-energy and high-humidity package = heated glass, heated rails, mullion heat, and sill heat.
- Anti-sweat controller required for the high humidity package to comply with DOE energy requirements.
- Electric Defrost: 1 per day. Defrost termination temperature setting is 50°F. Failsafe time is 55 minutes. Refer to the Installation & Operation Manual for details.
- Hot Gas Defrost: 1 per day. Defrost termination temperature setting is 65°F. Failsafe time is 30 minutes. Refer to the Installation & Operation Manual for details. Zero Zone recommends 1 riser per refrigeration circuit when utilizing hot gas defrost.
- Individual risers for circuits of more than one case require refrigeration line sizing by Zero Zone.



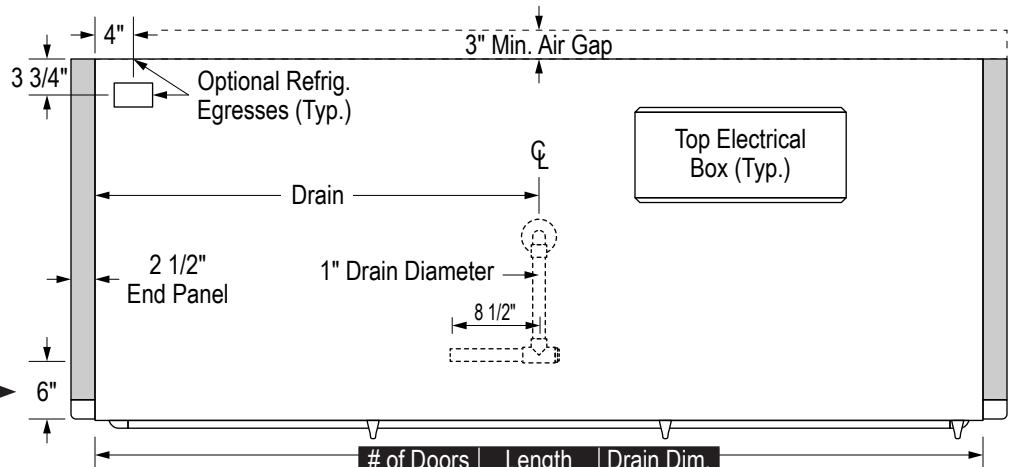
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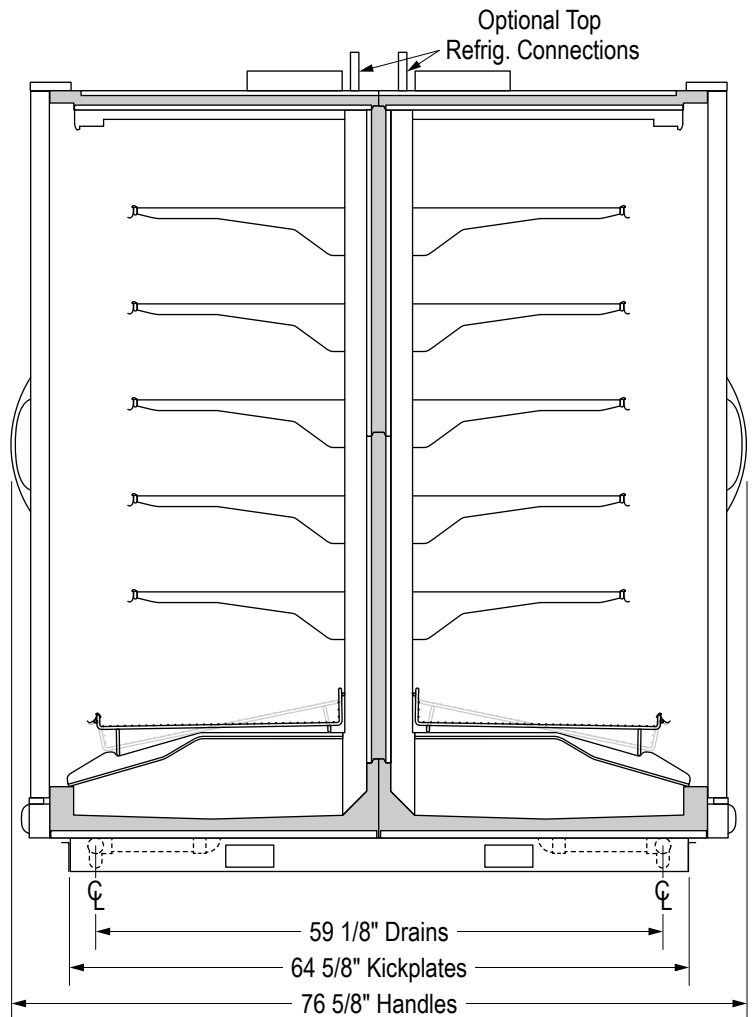
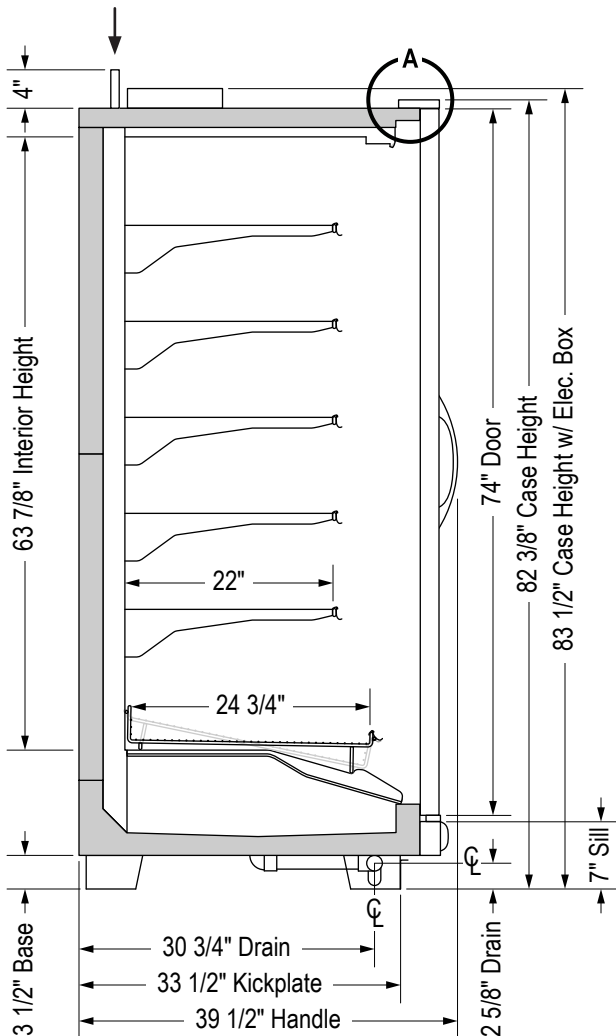


Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



# of Doors	Length	Drain Dim.
2	62 1/8"	31"
3	92 1/2"	46 1/4"
4	123"	61 1/2"
5	153 3/8"	76 3/4"

Optional top refrigeration connection increases case height by up to 4".



SS-25-Q

Specifications are subject to change without notice. All dimensions are nominal.
Case designed to operate in an ambient temperature of 75°F and relative humidity of 55% or lower.

11/16/2023

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