



CRYSTAL
merchandiser®

Crystal Merchandiser® RVL30DT Specs

Dual Temp Reach-In Remote Display Cases

2-Door, 3-Door, 4-Door, and 5-Door Cases

Applications



Beverage



Meat



Ice Cream



Frozen Food



Dairy



Deli

Quick Specs

Energy (Btu/h per Door)*

Frozen Food: 925 at -7°F Evaporator

Ice Cream: 1,005 at -16°F Evaporator

*when used with parallel rack system

Merchandising (5-Door)

Facings: 70.2 ft²

Packout: 136.1 ft³ with 30" x 24" deep shelves

Features & Options

Go Green

Remote cases ready for CO₂

High Humidity

Control climate challenges with advanced humidity package

CoolView® Doors

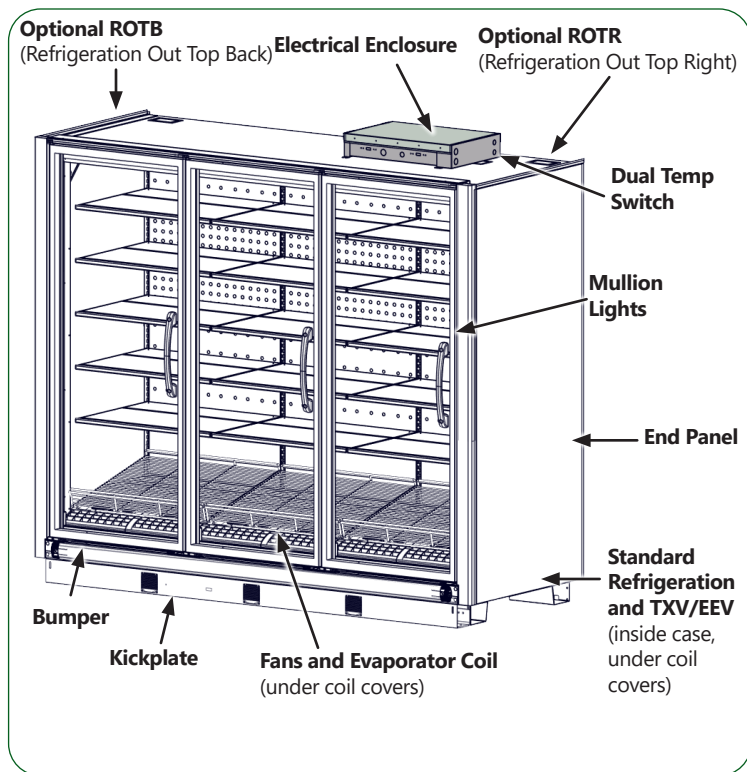
30" wide x 74" tall CoolView® Illusion® Doors

LED Lighting

ChillBrite® 4000K LED Lighting

Additional Models

The Crystal low temp lineup offers a standard, back-to-back, ice merchandiser, and dual temp case.



Manuals and Instructions:
<https://www.zero-zone.com/rvmc-rvlc>



Contact Us:

800-247-4496

www.zero-zone.com

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.



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Refrigeration Data



Set Points	Frozen Food (FF)	Ice Cream (IC)	Medium Temp
Evaporator Temperature (°F) ¹	-7	-16	28
Discharge Air Temperature (°F) (w/ 8°F Superheat)	-3	-12	34

Notes:

- For high-glide refrigerants, use dew point for unit sizing. Adjust evaporator pressure as needed to maintain discharge air temperatures.
- Evaporator temperature if EPR is used.

	Lineup Data		Individual Case Data (includes 1 pair of end panels)							
	Per Door Avg		2-Door		3-Door		4-Door		5-Door	
	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC
Low Temp Energy Use with Parallel Rack System ²										
RVLC30DT Baseline Btu/h	925	1,005	2,130	2,430	3,280	3,540	4,300	4,640	5,330	5,750
Energy Use with Condensing Unit ²										
RVLC30DT Baseline Btu/h	980	1,065	2,260	2,575	3,475	3,750	4,560	4,920	5,650	6,095
Btu/h Adders										
Anti-Sweat High-Humidity Package	+100	+100	+200	+200	+300	+300	+400	+400	+500	+500
End Panels	Btu/h Per Case									
Glass Windowed End Panel (each) ³	+315	+350								



	Lineup Data		Individual Case Data (includes 1 pair of end panels)			
	Per Door Avg		2-Door	3-Door	4-Door	5-Door
	Per Door Avg		2-Door	3-Door	4-Door	5-Door
Medium Temp Energy Use with Parallel Rack System ³						
RVMC30DT Baseline Btu/h	495		875	1,445	2,015	2,585
Btu/h Adders						
Rail Heated Doors (Zero Zone CoolView® Illusion®)	+10		+20	+30	+40	+50
Rail & Glass Heated Doors (Zero Zone CoolView® Illusion®)	+40		+80	+120	+160	+200

Notes:

Cycle Defrost	R-404A	R-448A	CO ₂
Time Per Defrost (Minutes)	45	45	45
Time	N/A	N/A	N/A
Settings (PSIG)	52	55	461
Frequency (Per Day)	4	4	4

- Baseline Evaporator Btu/h based on LED lighting (Zero Zone ChillBrite® 4000K), standard-energy doors (Zero Zone CoolView® Illusion®), and ECM or SSC electronic fan motors.
- Baseline Evaporator Btu/h based on LED lighting (Zero Zone ChillBrite® 4000K), standard-energy doors (Zero Zone CoolView® Illusion®), and ECM or SSC electronic fan motors.
- Glass windowed end panels only available with 2 1/2" end panels.



	Outlet Size (in.)			
	2-Door	3-Door	4-Door	5-Door
Refrigeration Piping: R-404A & R-448A ⁴				
Suction Line O.D. (Standard Refrigeration Exit)	7/8	7/8	7/8	7/8
Suction Line O.D. (Top Refrigeration Exit)	3/8	5/8	5/8	5/8
Liquid Line O.D. (Electric Defrost)	3/8	3/8	3/8	3/8
Liquid Line O.D. (Hot Gas Defrost)	1/2	1/2	1/2	1/2
Refrigeration Piping: CO₂ ⁴				
Suction Line O.D. (Standard Refrigeration Exit)	1/2	1/2	1/2	1/2
Suction Line O.D. (Top Refrigeration Exit)	1/2	1/2	1/2	1/2
Liquid Line O.D. (Electric Defrost)	3/8	3/8	3/8	3/8
Liquid Line O.D. (Hot Gas Defrost)	1/2	1/2	1/2	1/2

Notes:

- Read the Installation & Operation Manual for more about refrigeration piping to properly size individual risers for circuits of more than one case.



Electrical & Energy Data ⁵



Fan Motors (115V)	Per Door Avg		2-Door		3-Door		4-Door		5-Door	
Number of Fans			2		3		4		5	
Fan Motors (115V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
High-Efficiency Electronic (ECM or SSC)	0.42	24	0.84	48	1.26	72	1.68	96	2.1	120
Lighting System (120V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
LED Lighting	0.16	19	0.32	39	0.48	58	0.63	77	0.79	96
Anti-Sweat Heat (115V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
Standard-Energy Doors (CoolView® Illusion®) ⁶	0.74	85	1.50	173	2.23	257	2.97	341	3.70	425
High-Humidity Package (CoolView® Illusion®) ⁷	1.08	125	2.22	255	3.29	378	4.35	501	5.42	623
Defrost Heaters ^{8, 9}	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
Single Phase (120V/1/60Hz or 208V/1/60Hz)	4.00	832	8.00	1,680	12.00	2,496	16.00	3,328	20.00	4,160
Three Phase (208V/3/60Hz)	2.31	832	4.66	1,680	6.93	2,496	9.23	3,328	11.55	4,160

Notes:

- Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.
- Standard doors include glass heat, rail heat, mullion heat, sill heat, and a deep coil.
- High-humidity package includes 10% increase in glass heat, rail heat, sill heat, and mullion heat. This package also includes a deep coil and an anti-sweat controller.
- 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.

Physical Data



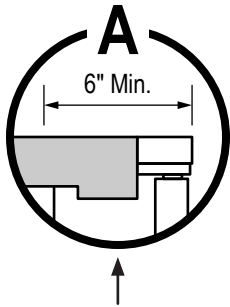
Merchandising	2-Door	3-Door	4-Door	5-Door
Facings (ft. ²)	28.4	42.3	56.3	70.2
Packout (ft. ³) 22" Shelves	51.5	76.7	101.9	127.1
Packout (ft. ³) 24" Shelves	55.1	82.1	109.2	136.1
Shipping Weight without End Panels ¹⁰	2-Door	3-Door	4-Door	5-Door
RVLC30DT Weight (lbs.)	755	1,055	1,420	1,800
Shipping Weight with Solid End Panels ¹⁰	2-Door	3-Door	4-Door	5-Door
RVLC30DT Weight (lbs.)	815	1,115	1,480	1,860
Shipping Weight with Windowed End ¹⁰	2-Door	3-Door	4-Door	5-Door
RVLC30DT Weight (lbs.)	865	1,165	1,530	1,910

Notes:

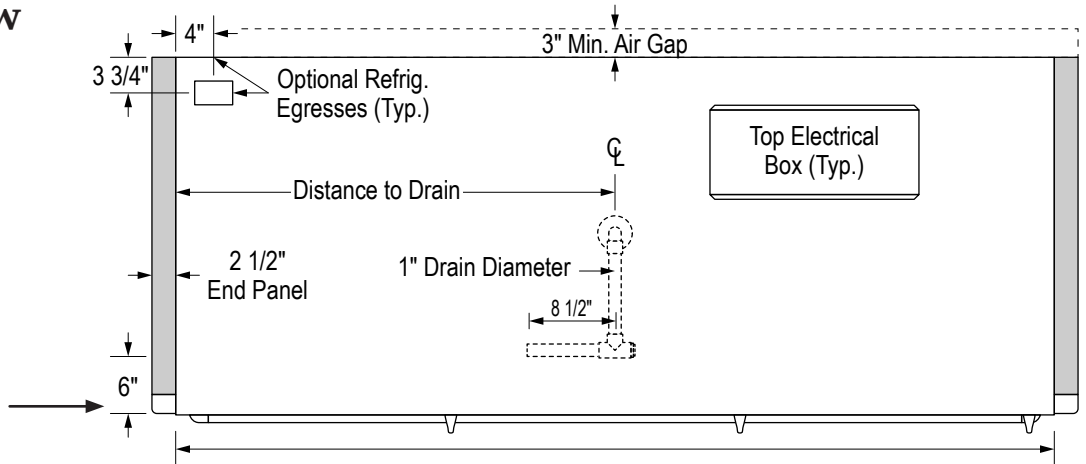
- Each solid end panel: 30 lbs for RVLC30DT. Each windowed end panel: 55 lbs for RVLC30DT.



RVLC30 Top View



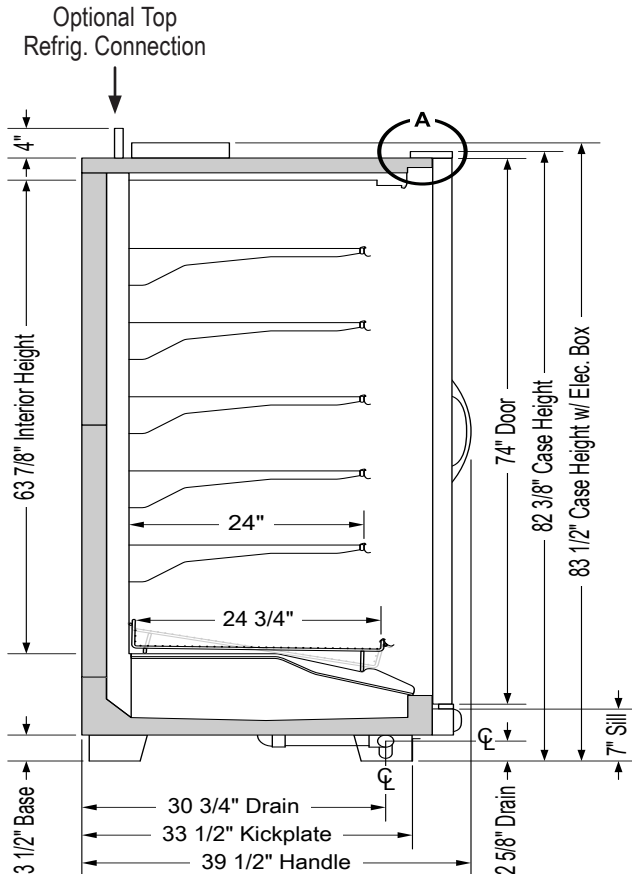
Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



Case Dimensions

Measurements	2-Door	3-Door	4-Door	5-Door
Case Length (in.) without End Panels	62 1/8	92 1/2	123	153 3/8
Case Length (in.) with End Panels	67 1/8	97 1/2	128	158 3/8
Distance to Drain (in.) without End Panels	31	46 1/4	61 1/2	76 3/4

RVLC30DT End View



DR-201-C