



**CRYSTAL**  
merchandiser®

## Crystal Merchandiser® RVMC24D Specs

Medium Temp Reach-In Remote Display Cases

2-Door, 3-Door, 4-Door, and 6-Door Cases

### Quick Specs

**Energy (Btu/h per Door)\***

**Standard:** 410 at 28°F Evaporator

\*when used with parallel rack system

**Merchandising (6-Door)**

**Facings:** 69.8 ft<sup>2</sup>

**Packout:** 156.5 ft<sup>3</sup> with 24" x 24" deep shelves

### Features & Options

#### Go Green

Remote cases ready for CO<sub>2</sub>. 90-bar rating available.

#### High Humidity

Control climate challenges with our advanced humidity package

#### CoolView® Doors

24" wide x 74" tall CoolView® Ultra® Doors

#### LED Lighting

ChillBrite® 3500K and 4000K LED Lighting

#### Additional Models

The Crystal medium temp lineup offers cases with 30" doors and an optional bottom coil design.

#### Hybrid™ Display Case

Available as Hybrid™ cases with R-404A or R-448A

### Applications



Beverage



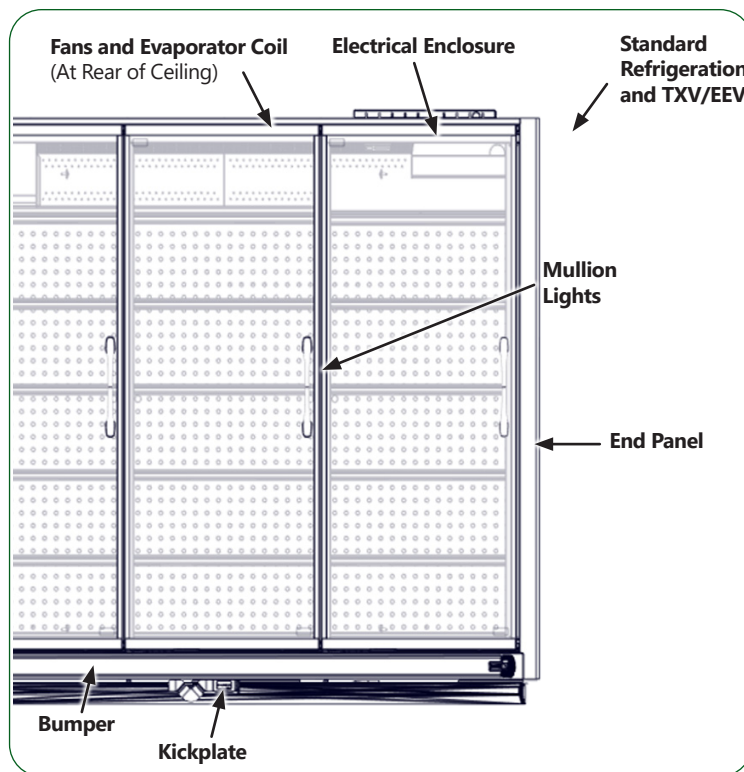
Dairy



Produce



Meat



Manuals and Instructions:

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



**Contact Us:**

800-247-4496

[www.zero-zone.com](http://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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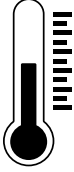
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## Refrigeration Data



Set Points	°F
Evaporator Temperature <sup>1</sup>	28
Discharge Air Temperature (w/ 8°F Superheat)	33

Notes:

- For high-glide refrigerants, use dew point for unit sizing. Adjust evaporator pressure as needed to maintain discharge air temperatures.



Energy Use with Parallel Rack System <sup>2</sup>	Lineup Data	Individual Case Data (includes 1 pair of end panels)			
	Per Door Avg	2-Door	3-Door	4-Door	6-Door
RVMC24D Baseline Btu/h	410	930	1,360	1,740	2,570
Energy Use with Condensing Unit <sup>2</sup>	Per Door Avg	2-Door	3-Door	4-Door	6-Door
RVMC24D Baseline Btu/h	445	1,005	1,470	1,880	2,775
Btu/h Adders	Per Door Avg	2-Door	3-Door	4-Door	6-Door
Rail Heated Doors (Zero Zone CoolView® Ultra®)	+10	+20	+30	+40	+60
Rail & Glass Heated Doors (Zero Zone CoolView® Ultra®)	+30	+60	+90	+120	+180
End Panels	Btu/h Per Case				
Glass Windowed End Panel (1-Pair) <sup>3</sup>	+410				

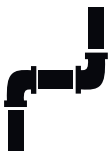
Notes:

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

Glycol Data <sup>4</sup>	2-Door	3-Door	4-Door	6-Door
Flow Rate (GPM)	0.6	0.8	1.2	1.8
Pressure Drop (PSIG)	2.0	3.3	6.1	5.8

Notes:

- All Glycol data based on 35% propylene glycol by weight, 20°F supply temperature, and 23°-24°F outlet temperature.



Refrigeration Piping: R-404A, R-448A & R-454C <sup>5</sup>	Outlet Size (in.)			
	2-Door	3-Door	4-Door	6-Door
Suction Line O.D. (Top Refrigeration Exit)	1/2	1/2	1/2	1/2
Liquid Line O.D.	3/8	3/8	3/8	3/8
Refrigeration Piping: CO <sub>2</sub> <sup>5</sup>	2-Door	3-Door	4-Door	6-Door
Suction Line O.D. (Top Refrigeration Exit)	3/8	3/8	3/8	3/8
Liquid Line O.D.	3/8	3/8	3/8	3/8

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 <sup>6</sup>



Fan Motors (115V)	Per Door Avg		2-Door		3-Door		4-Door		6-Door	
Number of Fans	--		2		2		2		3	
Fan Motors (115V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
High-Efficiency Electronic (ECM or SSC)	0.42	8	0.84	15	0.84	22	.84	25	1.26	31
Lighting System (120V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
Same-Swing Doors (Fig. 1: Options A & B)	0.16	19	0.33	39	0.48	58	0.64	77	1.00	115
French-Swing Doors (Fig. 1: Options C, D, E, F for 3-Door)	0.15	18	0.30	36	0.53	64	0.60	72	0.90	108
Anti-Sweat Heat (115V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
No-Energy Doors (Zero Zone CoolView® Ultra®)	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Rail Heated Doors (Zero Zone CoolView® Ultra®) <sup>7</sup>	0.05	6	0.09	10	0.14	16	0.19	22	0.28	32
Rail & Glass Heated Doors (Zero Zone CoolView® Ultra®)	0.16	18	0.31	36	0.47	54	0.63	72	0.94	108

Notes:

- 6. Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.
- 7. High-humidity package includes glass heat, rail heat, and mullion heat.

Physical Data

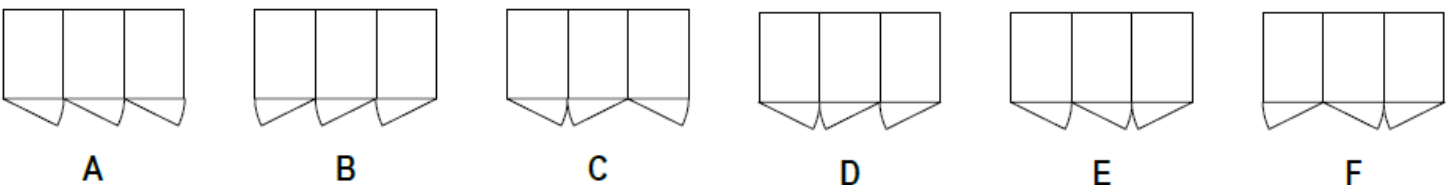


Merchandising	2-Door	3-Door	4-Door	6-Door
Facings (ft. <sup>2</sup> )	23.7	35.2	46.7	69.8
Packout (ft. <sup>3</sup> ) 24" Shelves	48.1	71.5	95.1	141.9
Packout (ft. <sup>3</sup> ) 27" Shelves	53.0	78.8	104.8	156.5
Shipping Weight without End Panels	2-Door	3-Door	4-Door	6-Door
RVMCD Weight (lbs.)	775	933	1,020	1,254
Shipping Weight with End Panels <sup>8</sup>	2-Door	3-Door	4-Door	6-Door
RVMCD Weight (lbs.)	835	993	1,080	1,314
Shipping Weight with Windowed End <sup>8</sup>	2-Door	3-Door	4-Door	6-Door
RVMCD Weight (lbs.)	885	1,043	1,130	1,364

Notes:

- 8. Each solid end panel: 30 lbs. Each Windowed End: 55 lbs.

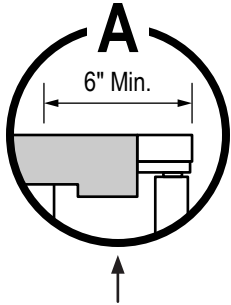
FIG. 1: 3-Door Configuration Options



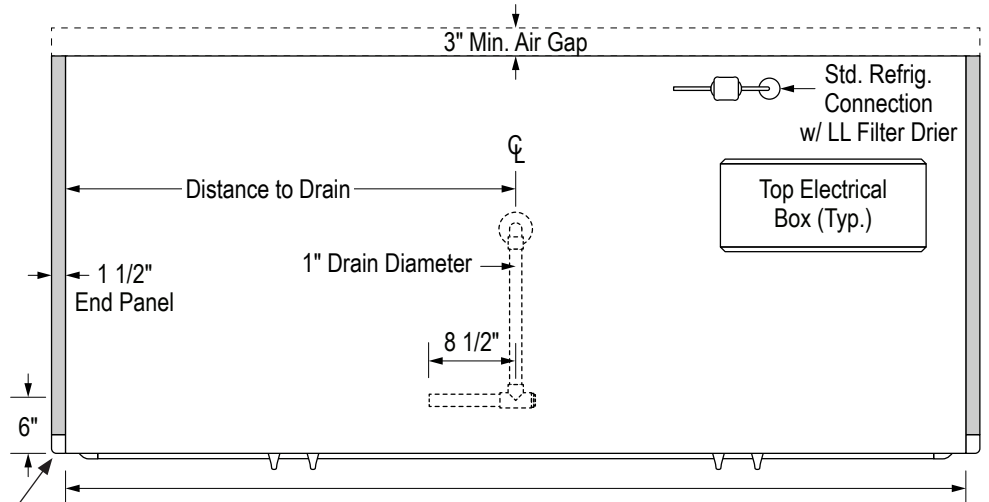


# Crystal Merchandiser® RVMC24D Remote Specs

## RVMC24D Top View



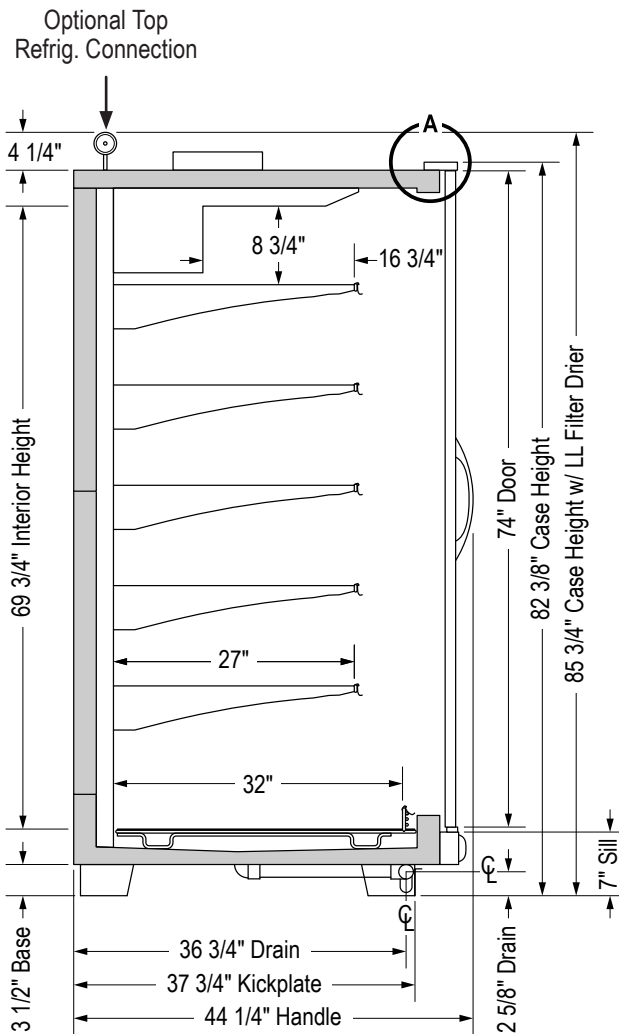
Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



## Case Dimensions

Measurements	2-Door	3-Door	4-Door	6-Door
Case Length (in.) without End Panels	48 3/4	72 1/2	96 3/8	143 7/8
Case Length (in.) with End Panels	53 3/4	77 1/2	101 3/8	148 7/8
Distance to Drain (in.) without End Panels	24 3/8	36 1/4	48 1/8	71 7/8

## RVMC24D End View





### R454C RVMC24D End View

Case Notes:

- Each A2L case includes a 4 1/2" kickplate, refrigeration outlet located at the top right, and the electronic egress for case power and sensors exit through the top.
- Case total height subject to change.
- The leak detector is located internally to the display case.
- The mitigation fans are located on the end kickplates.
- Features not available in A2L: Hybrid, High Humidity, Ref. to bottom, Elec. to bottom, Light dimming, Condensate Pump or Evaporator Pan.

