



## Crystal Merchandiser® RVMC30D Specs

### Medium Temp Deep Reach-In Remote Display Cases

2-Door, 3-Door, 4-Door, and 5-Door Cases; Rear Load (RL) Cases

## Quick Specs

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

Standard: 495 at 28°F Evaporator

\*when used with parallel rack system

### Merchandising (5-Door)

Facings: 74.4 ft<sup>2</sup>

Packout: 167.5 ft<sup>3</sup> with 30" x 27" 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

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

### LED Lighting

ChillBrite® 3500K and 4000K LED Lighting

### Additional Models

The Crystal medium temp with 30" doors offer a standard, bottom coil, rear load, deep, and deep rear load style.

### Hybrid™ Display Case

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

## Applications



Beverage



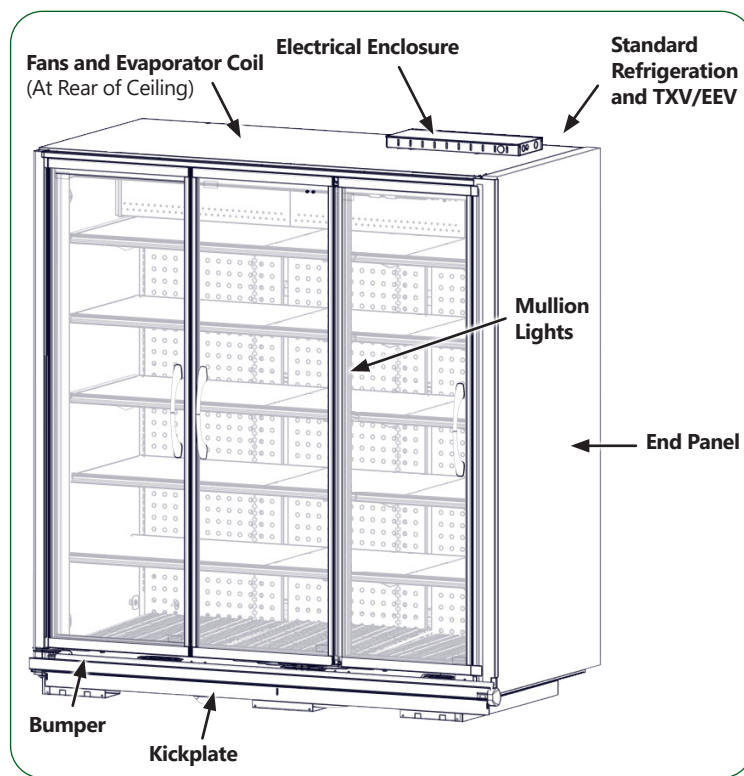
Dairy



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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## Refrigeration Data <sup>1</sup>



Set Points	°F
Evaporator Temperature <sup>2</sup>	28
Discharge Air Temperature (w/ 8°F Superheat)	33

Notes:

1. Crystal Merchandiser® Rear Load cases must be installed in front of the opening in a walk-in cooler.
2. 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>3</sup>	Lineup Data	Individual Case Data (includes 1 pair of end panels)			
	Per Door Avg	2-Door	3-Door	4-Door	5-Door
RVMC30D Baseline Btu/h	495	1,100	1,570	2,050	2,570
RVMC30DRL Baseline Btu/h	495	1,100	1,570	2,050	2,570
Energy Use with Condensing Unit <sup>3</sup>	Per Door Avg	2-Door	3-Door	4-Door	5-Door
RVMC30D Baseline Btu/h	535	1,190	1,695	2,215	2,775
RVM30DRL Baseline Btu/h	535	1,190	1,695	2,215	2,775
Btu/h Adders	Per Door Avg	2-Door	3-Door	4-Door	5-Door
Rail Heated Doors (Zero Zone CoolView Ultra)	+10	+20	+30	+40	+50
Rail & Glass Heated Doors (Zero Zone CoolView Ultra)	+40	+80	+120	+160	+200
End Panels	Btu/h Per Case				
Glass Windowed End Panel (1-Pair) <sup>4</sup>	+410				

Notes:

3. 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.
4. Glass windowed end panels only available with 2 1/2" end panels.

Glycol Data <sup>5</sup>	2-Door	3-Door	4-Door	5-Door
Flow Rate (GPM)	0.8	1.0	1.4	1.8
Pressure Drop (PSIG)	3.1	4.3	7.2	5.8

Notes:

5. 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 <sup>6</sup>	Outlet Size (in.)			
	2-Door	3-Door	4-Door	5-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>6</sup>	2-Door	3-Door	4-Door	5-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:

6. 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>7</sup>



Fan Motors (115V)	Per Door Avg		2-Door		3-Door		4-Door		5-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	9	0.84	18	0.84	19	.84	19	1.26	31
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
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>8</sup>	0.05	6	0.10	12	0.16	18	0.21	24	0.26	30
Rail & Glass Heated Doors (Zero Zone CoolView® Ultra®) <sup>8</sup>	0.18	21	0.37	42	0.55	63	0.73	84	0.91	105

Notes:

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

## Physical Data



Merchandising	2-Door	3-Door	4-Door	5-Door
Facings (ft. <sup>2</sup> )	30.1	44.9	59.7	74.4
Packout (ft. <sup>3</sup> ) 24" Shelves	59.4	88.5	117.6	146.8
Packout (ft. <sup>3</sup> ) 27" Shelves	67.8	101.0	134.3	167.5
Shipping Weight without End Panels	2-Door	3-Door	4-Door	5-Door
RVMC30D Weight (lbs.)	913	1,034	1,155	1,277
RVMC30DRL Weight (lbs.)	913	1,034	1,155	1,277
Shipping Weight with Solid End Panels <sup>9</sup>	2-Door	3-Door	4-Door	5-Door
RVMC30D Weight (lbs.)	973	1,094	1,215	1,337
RVMC30DRL Weight (lbs.)	973	1,094	1,215	1,337
Shipping Weight with Windowed End <sup>9</sup>	2-Door	3-Door	4-Door	5-Door
RVMC30D Weight (lbs.)	1,023	1,144	1,265	1,387
RVMC30DRL Weight (lbs.)	1,023	1,144	1,265	1,387

Notes:

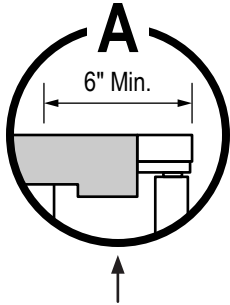
9. Each solid end panel: 30 lbs. Each windowed end panel: 55 lbs.



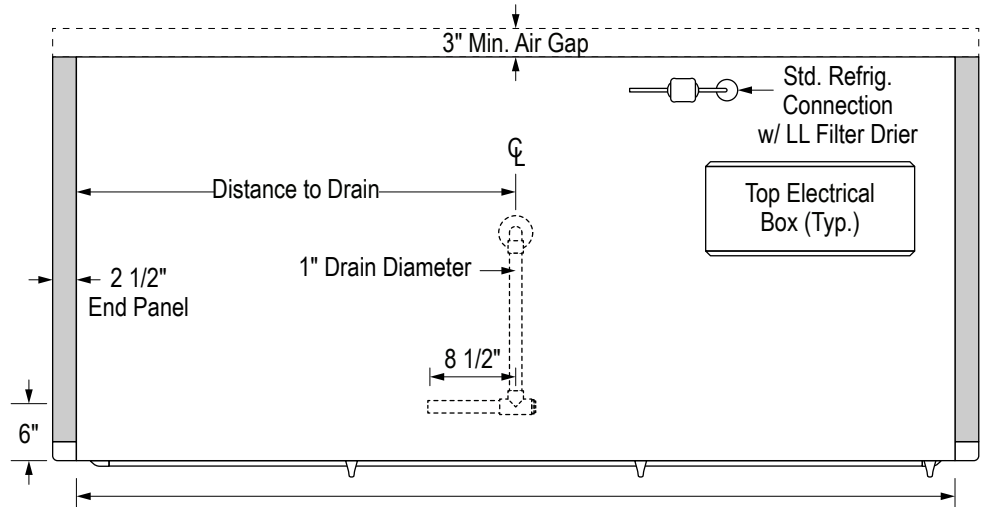
# Crystal Merchandiser® RVMC30D Remote Specs

RVMC30D and RVMC30DRL

## RVMC30D Top View



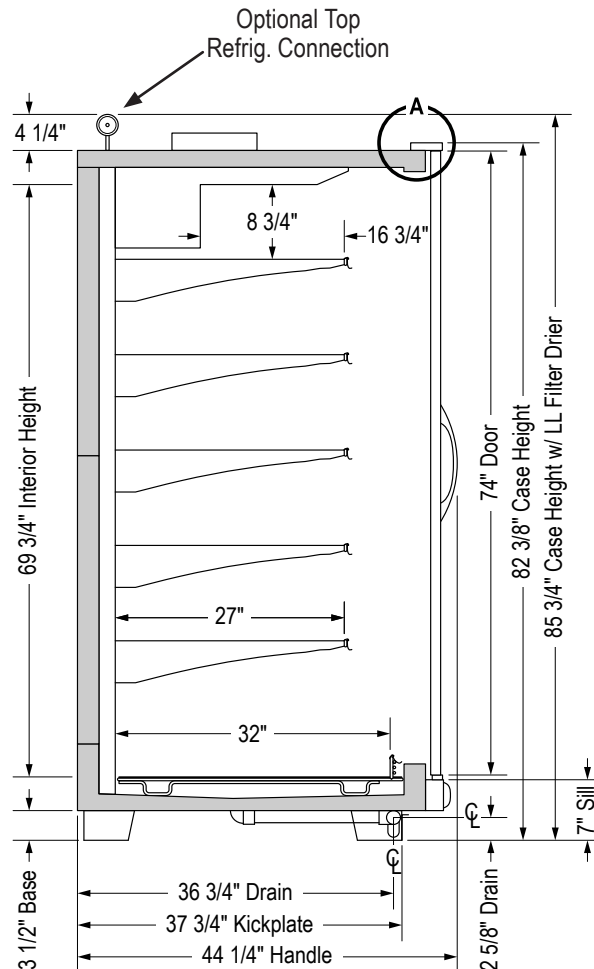
Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



## 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
Drain Dimension (in.)	31	46 1/4	61 1/2	76 3/4

## RVMC30D End View

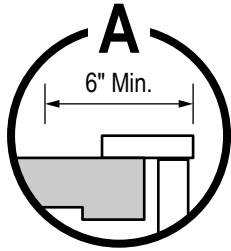




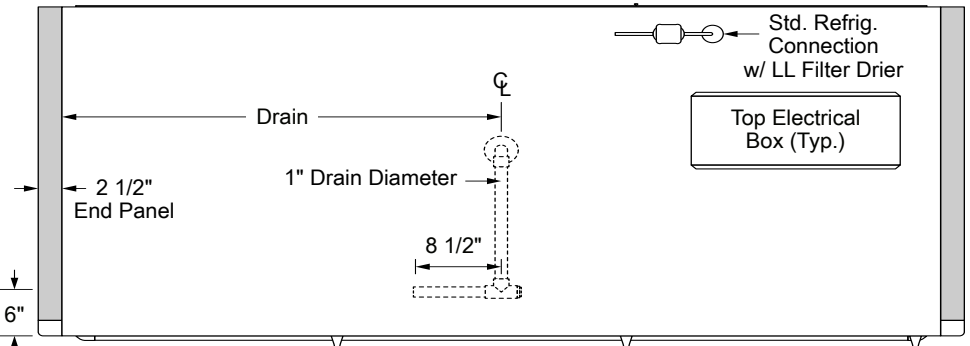
# Crystal Merchandiser® RVMC30D Remote Specs

RVMC30D and RVMC30DRL

## RVMC30DRL Top View



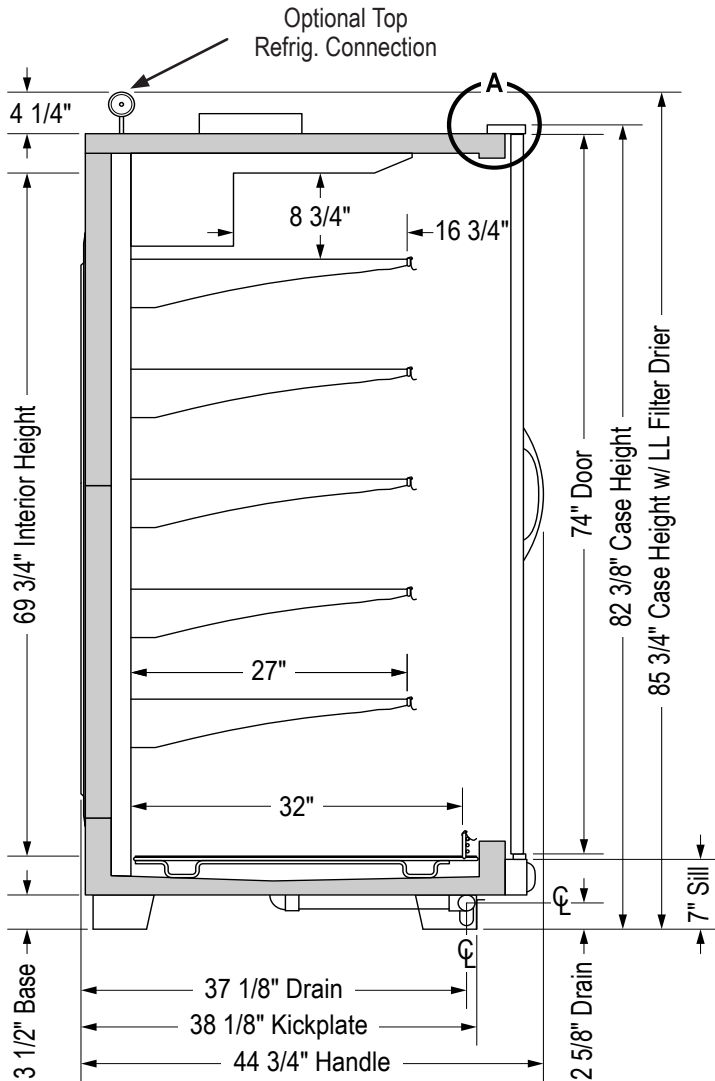
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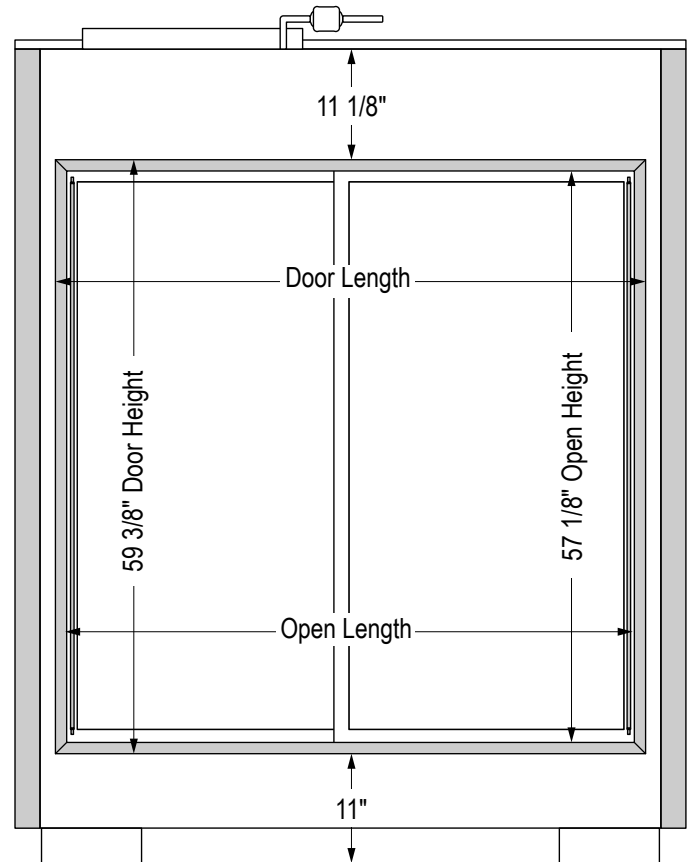
## Case Dimensions

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
Drain Dimension (in.)	31	46 1/4	61 1/2	76 3/4

## RVMC30DRL End View



## RVMC30RL Rear View



## Rear Load Dimensions

Measurements	2-Door	3-Door	4-Door	5-Door
Door Length (in.)	59	89 5/8	120 1/2	151
Open Length (in.)	56 3/4	87 3/8	118 1/8	148 5/8