



## 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



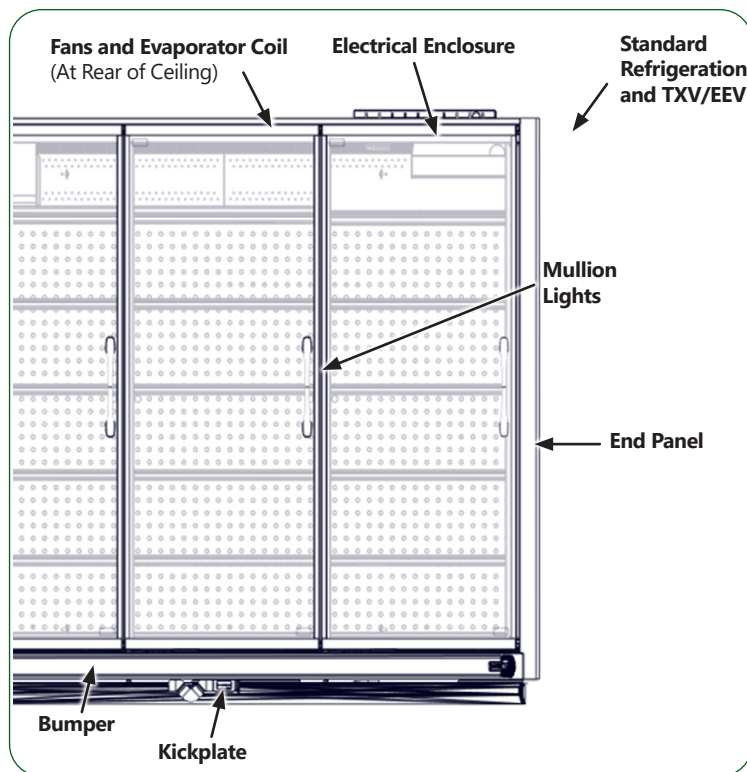
Dairy



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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## 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 | 6-Door |
| RVMC24D Baseline Btu/h                                 | 410            | 930                                                  | 1,360  | 1,740  | 2,570  |
| Energy Use with Condensing Unit <sup>3</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>4</sup>         | +410           |                                                      |        |        |        |

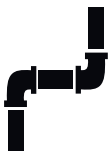
Notes:

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 | 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:

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 | 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>6</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:

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 |       | 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>8</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:

- 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

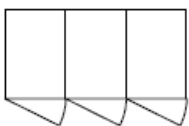


| Merchandising                                  | 2-Door | 3-Door | 4-Door | 6-Door |
|------------------------------------------------|--------|--------|--------|--------|
| Facings (ft. <sup>2</sup> )                    | 23.7   | 35.2   | 46.7   | 69.8   |
| Packout (ft. <sup>3</sup> ) 24" Shelves        | 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                | 2-Door | 3-Door | 4-Door | 6-Door |
| RVMCD Weight (lbs.)                            | 835    | 993    | 1,080  | 1,314  |
| Shipping Weight with Windowed End <sup>9</sup> | 2-Door | 3-Door | 4-Door | 6-Door |
| RVMCD Weight (lbs.)                            | 885    | 1,043  | 1,130  | 1,364  |

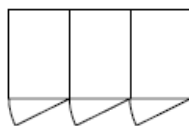
Notes:

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

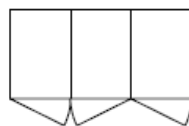
### FIG. 1: 3-Door Configuration Options



A



B



C



D



E

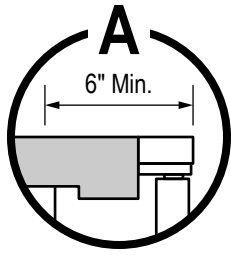


F

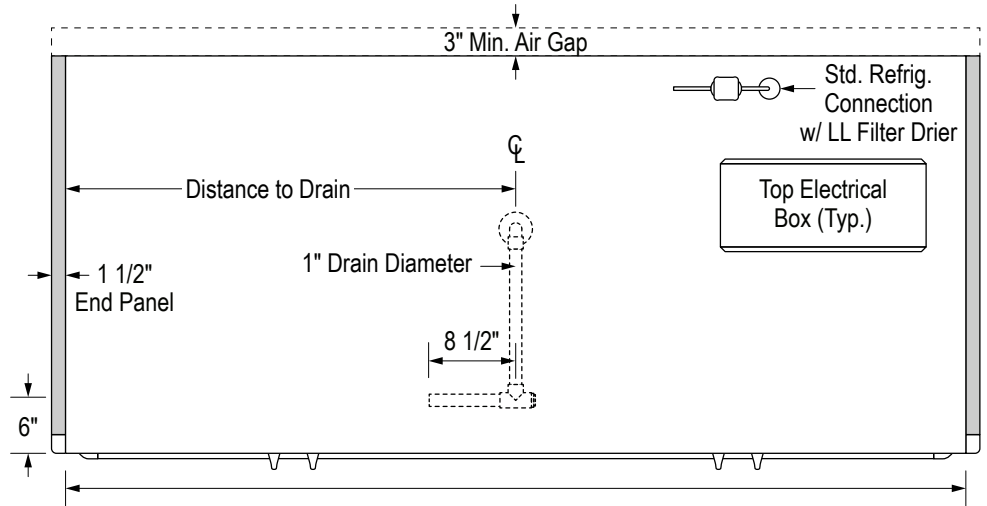


# Crystal Merchandiser® RVMC24D Remote Specs

## 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

Optional Top Refrig. Connection

