



Crystal Merchandiser® RVMC30 Specs

Medium Temp 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: 490 at 28°F Evaporator *when used with parallel rack system

Merchandising (5-Door) Facings: 74.4 ft² Packout: 146.8 ft³ with 30" x 24" deep shelves

Features & Options

Go Green Remote cases ready for CO₂

High Humidity

Control climate challenges with our advanced humidity package

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

LED Lighting ChillBrite® 3500K or 4000K LED Lighting

Specialty Cases

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

Manuals and Instructions:

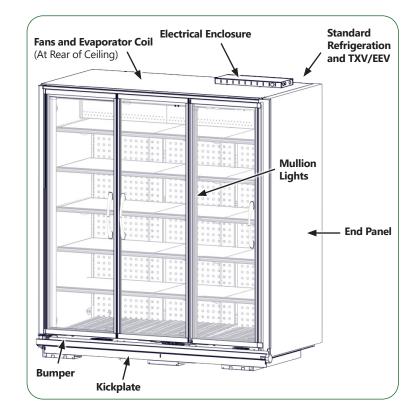


Dairv



Produce







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.





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

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Refrigeration Data¹

| Set Points | °F |
|--|----|
| Evaporator Temperature ² | 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.

| | Lineup Data | neup Data Individual Case Data (includes 1 pair of e | | | | | |
|--|----------------|--|--------|--------|--------|--|--|
| Energy Use with Parallel Rack System ³ | Per Door Avg | 2-Door | 3-Door | 4-Door | 5-Door | | |
| RVMC30 Baseline Btu/h | 490 | 1,110 | 1,570 | 2,050 | 2,560 | | |
| RVMC30RL Baseline Btu/h | 490 | 1,110 | 1,570 | 2,050 | 2,560 | | |
| Energy Use with Condensing Unit ³ | Per Door Avg | 2-Door | 3-Door | 4-Door | 5-Door | | |
| RVMC30 Baseline Btu/h | 530 | 1,200 | 1,695 | 2,215 | 2,765 | | |
| RVMC30RL Baseline Btu/h | 530 | 1,200 | 1,695 | 2,215 | 2,765 | | |
| 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) ⁴ | +410 | | | | | | |

Notes:

- 3. Baseline Evaporator Btu/h based on LED lighting (Zero Zone ChillBrite® 4000K), no-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 ⁵ | 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.

| | | Outlet Size (in.) | | | | | | |
|--|--------|-------------------|--------|--------|--|--|--|--|
| Refrigeration Piping: R-404A & R-448A 6 | 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 ₂ ⁶ | 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.



RVMC30 and RVMC30RL

Electrical & Energy Data 7

| Fan Motors (115V) | Per Do | or Avg | 2-D | oor | 3-D | oor | 4-D | oor | 5-D | oor |
|--|--------|--------|------|-------|------|-------|------|-------|------|-------|
| Number of Fans | - | - | | 2 | | 2 | â | 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 [®]) ⁸ | 0.05 | 6 | 0.10 | 12 | 0.16 | 18 | 0.21 | 24 | 0.26 | 30 |
| Rail & Glass Heated Doors (Zero Zone CoolView® Ultra®) 8 | 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 in glass heat, rail heat, and mullion heat.

Physical Data

| Merchandising | 2-Door | 3-Door | 4-Door | 5-Door |
|--|--------|--------|--------|--------|
| Facings (ft. ²) | 30.1 | 44.9 | 59.7 | 74.4 |
| Packout (ft. ³) 22" Shelves | 55.2 | 82.3 | 109.3 | 136.4 |
| Packout (ft. ³) 24" Shelves | 59.3 | 88.5 | 117.6 | 146.8 |
| Shipping Weight without End Panels | 2-Door | 3-Door | 4-Door | 5-Door |
| RVMC30 Weight (lbs.) | 903 | 1,020 | 1,137 | 1,254 |
| RVMC30RL Weight (lbs.) | 903 | 1,020 | 1,137 | 1,254 |
| Shipping Weight with Solid End Panels ⁹ | 2-Door | 3-Door | 4-Door | 5-Door |
| RVMC30 Weight (lbs.) | 963 | 1,080 | 1,197 | 1,314 |
| RVMC30RL Weight (lbs.) | 963 | 1,080 | 1,197 | 1,314 |
| Shipping Weight with Windowed End ⁹ | 2-Door | 3-Door | 4-Door | 5-Door |
| RVMC30 Weight (lbs.) | 1,013 | 1,130 | 1,247 | 1,364 |
| RVMC30RL Weight (lbs.) | 1,013 | 1,130 | 1,247 | 1,364 |

Notes:

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



Crystal Merchandiser[®] RVMC30 Remote Specs

62 1/8

67 1/8

31

92 1/2

97 1/2

46 1/4

123

128

61 1/2

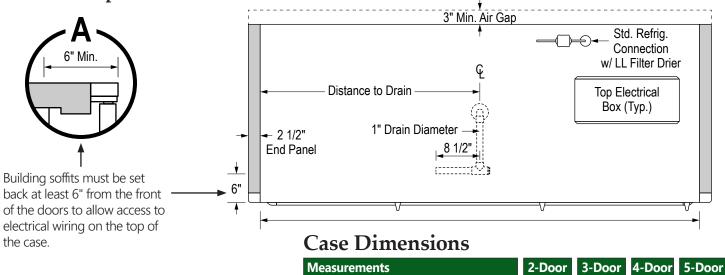
153 3/8

158 3/8

76 3/4

RVMC30 and RVMC30RL

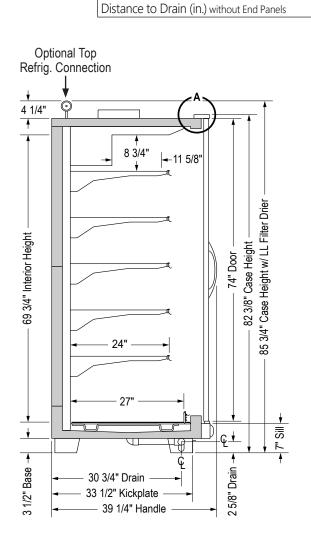
RVMC30 Top View



Case Length (in.) without End Panels

Case Length (in.) with End Panels

RVMC30 End View





Crystal Merchandiser® RVMC30 Remote Specs

RVMC30 and RVMC30RL

RVMC30RL Top View

