



CRYSTAL
merchandiser®

Crystal Merchandiser® RVMC24D Hybrid™ Specs

Deep Medium Temp Reach-In Remote Display Cases

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

Quick Specs

Energy Use (Per Door Avg Daily)*

With Condensate Removal: 2.8 kWh

Without Condensate Removal: 2.7 kWh

*Standard package with R-404A Refrigerant

Merchandising (6-Door)

Facings: 69.8 ft²

Packout: 156.5 ft³ with 24" wide x 27" deep shelves

Features & Options

High Humidity

Control climate challenges with advanced humidity package.

Additional Models

The Crystal® Hybrid™ medium temp lineup includes a standard and deep display case with 24" or 30" wide doors.

CoolView® Doors

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

LED Lighting

ChillBrite® 4000K LED Lighting

Applications



Beverage



Dairy



Produce



Deli



Refrigeration Data ¹

| 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.



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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Standard Package

| Refrigeration Data | R-404A Refrigerant | | | | R-448A Refrigerant | | | |
|---|-----------------------------------|----------|----------|----------|-----------------------------------|----------|----------|----------|
| | 2-Door | 3-Door | 4-Door | 6-Door | 2-Door | 3-Door | 4-Door | 6-Door |
| Refrigerant Charge (lbs.) ¹ | 4.0 | 4.0 | 6.0 | 6.2 | 4.0 | 4.0 | 6.0 | 6.2 |
| Zero Zone Condensing Unit # | 69-10042 | 69-10221 | 69-10324 | 69-10045 | 69-9933 | 69-10222 | 69-10235 | 69-10237 |
| Condensing Unit Crated Weight (lbs.) | 61 | 70 | 70 | 120 | 61 | 70 | 70 | 120 |
| Electrical & Energy Data ^{2, 3, 4} | With Condensate Removal System | | | | With Condensate Removal System | | | |
| MOCP (amps) ⁵ | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| MCA (amps) ⁶ | 7.3 | 7.7 | 12.8 | 14.6 | 7.3 | 7.7 | 12.8 | 14.6 |
| Daily Energy Use (kWh) | 5.9 | 9.9 | 10.1 | 15.6 | 5.3 | 9.1 | 9.4 | 14.5 |
| Rejected Heat (Btu/h) ⁷ | 832 | 1,402 | 1,441 | 2,223 | 760 | 1,292 | 1,334 | 2,064 |
| Electrical & Energy Data ^{2, 3, 4} | Without Condensate Removal System | | | | Without Condensate Removal System | | | |
| MOCP (amps) ⁵ | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| MCA (amps) ⁶ | 5.7 | 7.7 | 6.8 | 8.6 | 5.7 | 7.7 | 6.8 | 8.6 |
| Daily Energy Use (kWh) | 5.7 | 9.6 | 9.7 | 15.0 | 5.1 | 8.8 | 9.0 | 13.9 |
| Rejected Heat (Btu/h) ⁷ | 803 | 1,359 | 1,384 | 2,137 | 732 | 1,249 | 1,276 | 1,979 |

High Humidity Package ⁹

| Refrigeration Data | R-404A Refrigerant | | | | R-448A Refrigerant | | | |
|--|-----------------------------------|----------|----------|----------|-----------------------------------|----------|----------|----------|
| | 2-Door | 3-Door | 4-Door | 6-Door | 2-Door | 3-Door | 4-Door | 6-Door |
| Refrigerant Charge (lbs.) ¹ | 4.0 | 4.0 | 6.0 | 6.2 | 4.0 | 4.0 | 5.1 | 6.7 |
| Zero Zone Condensing Unit # | 69-10042 | 69-10324 | 69-10324 | 69-10045 | 69-9933 | 69-10235 | 69-10235 | 69-10232 |
| Condensing Unit Crated Weight (lbs.) | 61 | 70 | 70 | 120 | 61 | 70 | 70 | 150 |
| Electrical & Energy Data ^{2, 3, 4, 9} | With Condensate Removal System | | | | With Condensate Removal System | | | |
| MOCP (amps) ⁵ | 15 | 15 | 15 | 25 | 15 | 15 | 15 | 20 |
| MCA (amps) ⁶ | 13.0 | 13.3 | 13.6 | 15.8 | 7.7 | 13.3 | 13.6 | 16.6 |
| Daily Energy Use (kWh) | 7.9 | 9.9 | 12.7 | 21.4 | 7.1 | 9.9 | 12.7 | 17.7 |
| Rejected Heat (Btu/h) ⁷ | 1,127 | 1,404 | 1,802 | 3,040 | 1,012 | 1,404 | 1,802 | 2,522 |
| Electrical & Energy Data ^{2, 3, 4, 9} | Without Condensate Removal System | | | | Without Condensate Removal System | | | |
| MOCP (amps) ⁵ | 15 | 15 | 15 | 20 | 15 | 15 | 15 | 15 |
| MCA (amps) ⁶ | 7.0 | 7.3 | 7.6 | 9.8 | 5.7 | 7.3 | 7.6 | 10.6 |
| Daily Energy Use (kWh) | 7.7 | 9.6 | 12.3 | 20.8 | 6.6 | 9.6 | 12.3 | 17.1 |
| Rejected Heat (Btu/h) ⁷ | 1,098 | 1,361 | 1,745 | 2,954 | 983 | 1,361 | 1,745 | 2,436 |

Physical Data

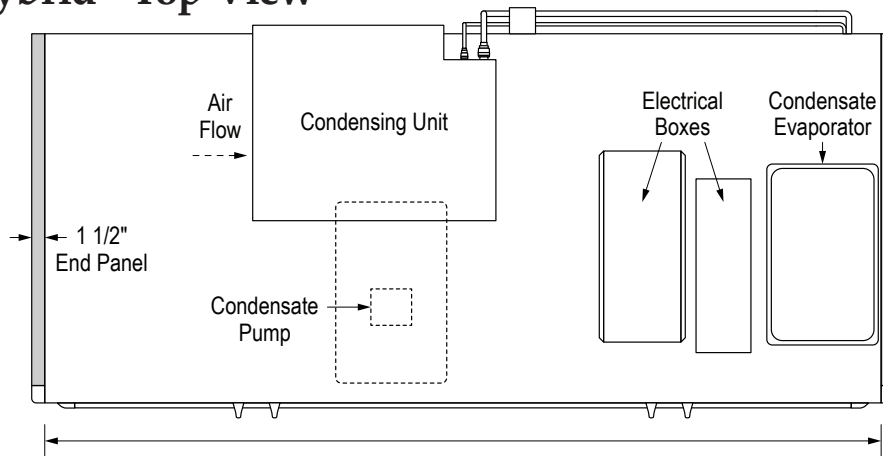
| Case Calculations | 2-Door | 3-Door | 4-Door | 6-Door |
|---|--------|--------|--------|--------|
| Facings (ft. ²) | 23.7 | 35.2 | 46.7 | 69.8 |
| Packout (ft. ³) 22" Shelves | 53.0 | 78.8 | 104.8 | 156.5 |
| Weight (lbs.) ¹⁰ | 775 | 933 | 1,020 | 1,254 |

Notes:

- Refrigerant charge includes combined condensing unit and case charges.
- Data based on Zero Zone ChillBrite® 4000K LED lighting, Zero Zone CoolView® Ultra™ French-swing doors, and SSC electronic fan motors. See separate reach-in case spec sheets for more details.
- 208V (four-wire) service; 115/208V-1PH-60Hz; red and black AC Line, white AC neutral, green Safety Ground. Buck/boost transformer available for low voltage conditions.
- Optional main service disconnect is available upon request.
- MOCP (Maximum Over-Current Protection) is the maximum circuit breaker size that can be used to properly protect the product.
- MCA (Minimum Circuit Ampacity) is used to calculate the minimum wire size. This is selected so wires will not overheat in typical operating conditions and prevent nuisance circuit breaker trips.
- Zero Zone recommends that a circuit breaker size should be larger than the MCA, but smaller than or equal to the MOCP. For example, if the equipment is listed having an MCA of 36.8 amps and an MOCP of 45 amps, a 40 amp or 45 amp circuit breaker would be acceptable.
- Adequate ventilation must be provided to dissipate rejected heat from the top of the unit for proper performance. Clearance of less than 30" above the top of the shroud to the ceiling requires special design considerations. See Zero Zone Hybrid™ Installation & Operation Manual for specific details.
- High Humidity Package includes high-wattage anti-sweat components that prevent condensation on doors and components in ambient conditions up to 85°F and relative humidity of 70%.
- Does not include weight of condensing unit. Weights include 2 end panels at 60 lbs. per pair.



RVMC24D Hybrid™ Top View



| Measurements | 2-Door | 3-Door | 4-Door | 6-Door |
|--------------------------------------|--------|--------|--------|---------|
| Case Length (in.) without End Panels | 48 1/8 | 72 1/4 | 96 1/4 | 143 7/8 |
| Case Length (in.) with End Panels | 51 1/8 | 75 1/4 | 99 1/4 | 146 7/8 |

RVMC24D Hybrid™ End View

