



Crystal Merchandiser® RVMC24RL Rear Load Specs

Medium Temp Rear Load Reach-Ins with 24" x 74" CoolView® Ultra™ Doors
 RVMC24RL-(B,D,P,M): RL=Rear Load (B=Beverage, D=Dairy/Deli, P=Produce, M=Meat)

Refrigeration Data ¹

| Refrigeration | Lineup Data | Individual Case Data (Includes 1 Pair of End Panels) | | | |
|-------------------------------------------------------|--------------|------------------------------------------------------|--------|--------|--------|
| | Per Door Avg | 2-Door | 3-Door | 4-Door | 6-Door |
| Evaporator Temperature (°F) ² | 28 | 28 | 28 | 28 | 28 |
| Baseline Btu/h ^{3,4} | 410 | 930 | 1,360 | 1,740 | 2,560 |
| Discharge Air Temperature (°F) (w/ 8°F Superheat) | 33 | 33 | 33 | 33 | 33 |
| Btu/h Adders | Per Door Avg | | | | |
| Rail Heated Doors (Zero Zone CoolView Ultra) | 10 | | | | |
| Rail & Glass Heated Doors (Zero Zone CoolView Ultra) | 30 | | | | |
| Optional Glass Windowed End Panel (Each) ⁵ | 410 | | | | |

| Glycol Data ⁶ | 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 |

Electrical & Energy Data ⁷

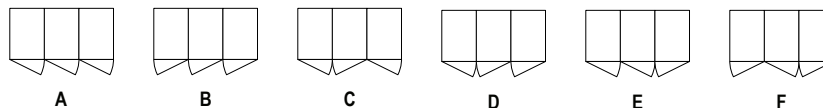
| Fan Motors (115V) ⁸ | Lineup Data | | Individual Case Data (Includes 1 Pair of End Panels) | | | | | | | |
|------------------------------------------------------------|--------------|-------|------------------------------------------------------|-------|--------|-------|--------|-------|--------|-------|
| | Per Door Avg | | 2-Door | | 3-Door | | 4-Door | | 6-Door | |
| | Amps | Watts | Amps | Watts | Amps | Watts | Amps | Watts | Amps | Watts |
| High Efficiency Electronic (ECM or SSC) | 0.30 | 8 | 0.60 | 15 | 0.60 | 22 | 0.60 | 25 | 0.90 | 31 |
| Lighting System (120V) (Zero Zone ChillBrite 4234) | Per Door Avg | | 2-Door | | 3-Door | | 4-Door | | 6-Door | |
| | 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) ⁹ | Per Door Avg | | 2-Door | | 3-Door | | 4-Door | | 6-Door | |
| | 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) | 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 |

Physical Data

| Refrigeration Piping: R-404A & R-448A ¹⁰ | 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: CO2 ¹⁰ | 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 |

| Case Calculations | Solid End Panel | Windowed End | 2-Door | 3-Door | 4-Door | 6-Door |
|-----------------------------------------|-----------------|--------------|--------|--------|--------|--------|
| Facings (ft. ²) | N/A | N/A | 23.7 | 35.2 | 46.7 | 69.8 |
| Packout (ft. ³) 22" Shelves | N/A | N/A | 42.8 | 63.6 | 81.5 | 121.8 |
| Packout (ft. ³) 24" Shelves | N/A | N/A | 46.3 | 68.8 | 89.3 | 133.4 |
| Weight (lbs.) | 30 | 55 | 775 | 933 | 1,020 | 1,254 |

FIG. 1: 3-Door Configuration Options



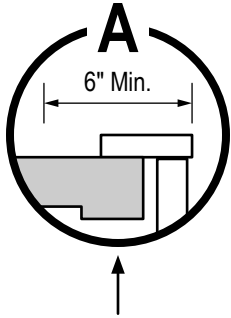
Notes:

- Crystal Merchandiser® Rear Load cases must be installed in front of the opening in a walk-in cooler.
- For high-glide refrigerants, use dew point for unit sizing. Adjust evaporator pressure as needed to maintain discharge air temperatures.
- Baseline Evaporator Btu/h based on parallel rack system, LED Lighting (Zero Zone ChillBrite® 4234), no-energy doors (Zero Zone CoolView® Ultra™), and ECM or SSC electronic fan motors.
- For condensing units (non-rack system), multiply total Btu/h rating by 1.08.
- Glass windowed end panels only available with 2 1/2" end panels.
- All glycol data based on 35% propylene glycol by weight, 20°F supply temperature, and 23°-24°F outlet temperature.
- Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.
- 2 to 4-door cases use two fan motors. 6-door cases use three fan motors.
- Door (Anti-Sweat) Options: no-energy = no-heat glass and no-heat rails. Rail heat and glass heat available.
- Individual risers for circuits of more than one case require refrigeration line sizing by Zero Zone.

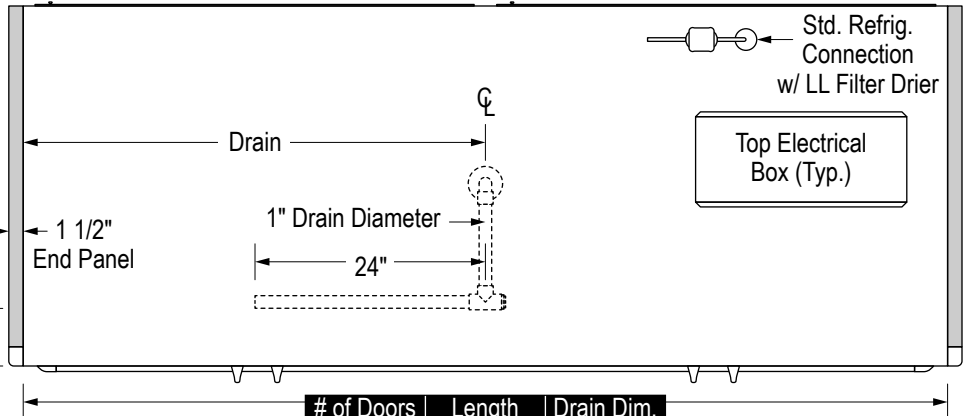


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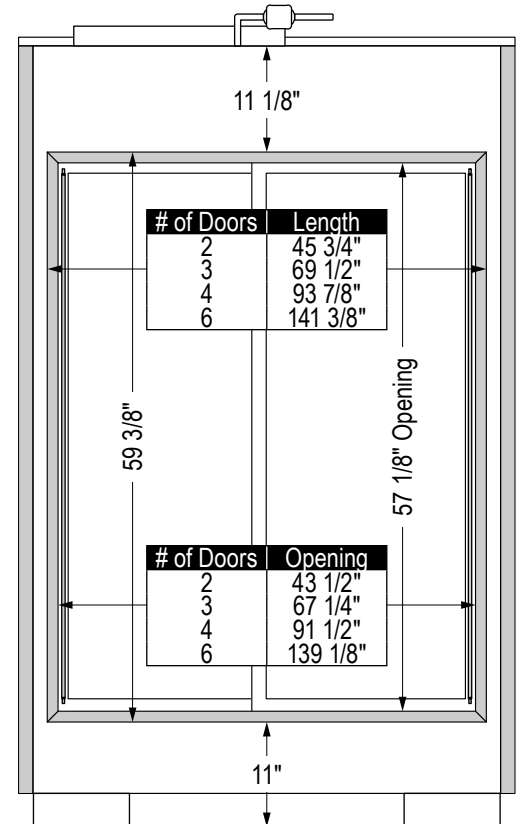
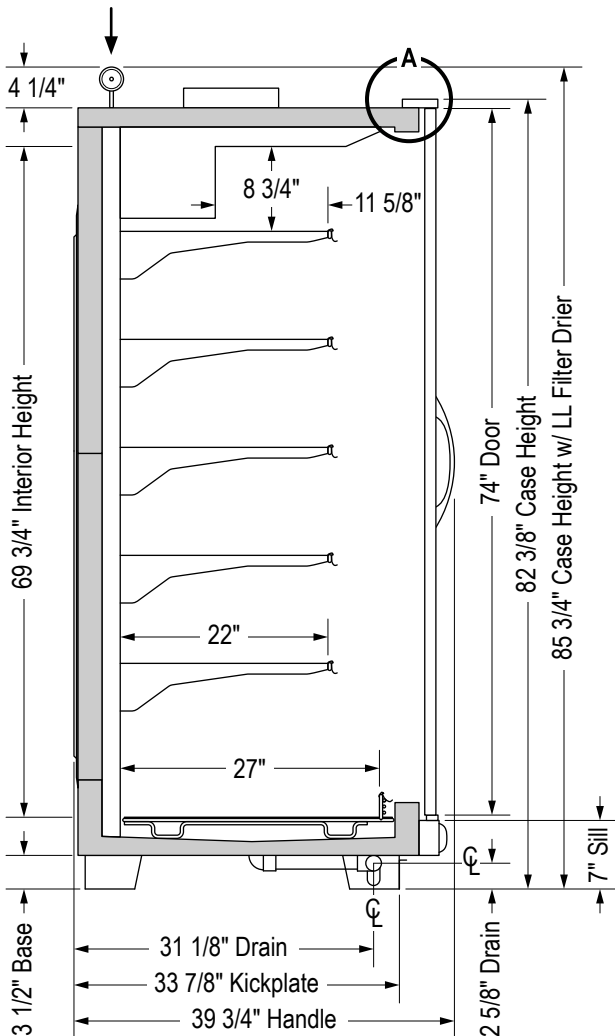


Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



| # of Doors | Length | Drain Dim. |
|------------|----------|------------|
| 2 | 48 3/4" | 24 3/8" |
| 3 | 72 1/2" | 36 1/4" |
| 4 | 96 3/8" | 48 1/8" |
| 6 | 143 7/8" | 71 7/8" |

Top refrigeration connection with LL Filter Drier increases case height by up to 4 1/4".



| # of Doors | Length |
|------------|----------|
| 2 | 45 3/4" |
| 3 | 69 1/2" |
| 4 | 93 7/8" |
| 6 | 141 3/8" |

| # of Doors | Opening |
|------------|----------|
| 2 | 43 1/2" |
| 3 | 67 1/4" |
| 4 | 91 1/2" |
| 6 | 139 1/8" |

SS-32-J

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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