



CRYSTAL
merchandiser®

Crystal Merchandiser® RVMC24UN Specs

Medium Temp Ultra Narrow Reach-In Remote Display Cases

2-Door Ultra Narrow; 2-Door and 3-Door Back-to-Back (BB) Cases

Quick Specs

Energy (Btu/h per Door)*

Standard: 410 at 28°F Evaporator

*when used with parallel rack system

Merchandising (2-Door)

Facings: 23.6 ft²

Packout: 26.7 ft³ with 24" x 15" deep shelves

Features & Options

Go Green

Remote cases ready for CO₂

High Humidity

Control climate challenges with our advanced humidity package

CoolView® Doors

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

LED Lighting

ChillBrite® 3500k or 4000k LED Lighting

Back-to-Back Cases

Save on floor space and energy by choosing a back-to-back case.

Additional Models

The Crystal medium temp with 24" French doors offers a standard, rear load, deep, deep rear load, ultra-narrow, and back-to-back ultra-narrow model

Applications



Beverage



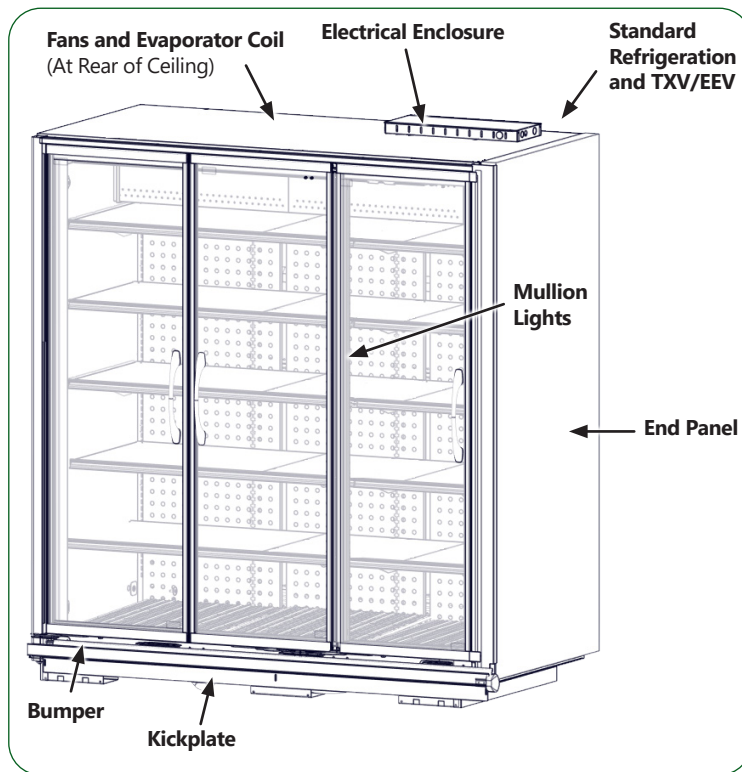
Dairy



Produce



Meat



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.



SS-78 Rev E • 4/11/2024

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Refrigeration Data ¹



Set Points	Avg
Evaporator Temperature (°F) ²	28
Discharge Air Temperature (°F) (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 ³	Lineup Data	Individual Case Data (Includes 1 pair of end panels)	
	Per Door Avg	2-Door	3-Door
RVMC24UN Baseline Btu/h	---	930	---
RVMC24BBUN Baseline Btu/h	410	930	1,360
Energy Use with Condensing Unit ³	Per Door Avg	2-Door	3-Door
RVMC24UN Baseline Btu/h	--	1,005	--
RVM24BBUN Baseline Btu/h	440	1,005	1,470
Btu/h Adders RVMC24UN	Per Door Avg	2-Door	3-Door
Rail Heated Doors (Zero Zone CoolView® Ultra®)	---	+20	---
Rail & Glass Heated Doors (Zero Zone CoolView® Ultra®)	---	+60	---
Btu/h Adders RVMC24BBUN	Per Door Avg	2-Door	3-Door
Rail Heated Doors (Zero Zone CoolView® Ultra®)	+10	+20	+30
Rail & Glass Heated Doors (Zero Zone CoolView® Ultra®)	+30	+60	+90

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.



Refrigeration Piping: R-404A & R-448A ⁴	Outlet Size (in.)	
	2-Door	3-Door
Suction Line O.D. (Top Refrigeration Exit)	1/2	1/2
Liquid Line O.D.	3/8	3/8
Refrigeration Piping: CO ₂ ⁴	2-Door	3-Door
Suction Line O.D. (Top Refrigeration Exit)	3/8	3/8
Liquid Line O.D.	3/8	3/8

Notes:

4. 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 ⁵



Fan Motors (115V)	Per Door Avg		2-Door		3-Door	
Number of Fans	---		2		2	
Fan Motors (115V) ⁵	Amps	Watts	Amps	Watts	Amps	Watts
High-Efficiency Electronic (ECM or SSC)	0.42	8	0.84	15	0.84	22
Lighting System (120V)	Amps	Watts	Amps	Watts	Amps	Watts
LED Lighting	0.15	18	0.30	36	0.48	58
Anti-Sweat Heat (115V)	Amps	Watts	Amps	Watts	Amps	Watts
Standard Energy Doors (Zero Zone CoolView® Ultra®)	0.00	0	0.00	0	0.00	0
Rail Heated Doors (Zero Zone CoolView® Ultra®) ⁶	0.05	6	0.09	10	0.14	16
Rail & Glass Heated Doors (Zero Zone CoolView® Ultra®) ⁶	0.16	18	0.31	36	0.47	54

Notes:

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

Physical Data



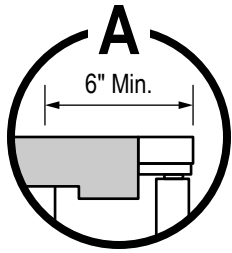
RVMC24UN Merchandising	2-Door	3-Door
Facings (ft. ²)	23.6	---
Packout (ft. ³) 15" Shelves	26.7	---
RVMC24BBUN Merchandising	2-Door	3-Door
Facings (ft. ²)	47.2	70.4
Packout (ft. ³) 15" Shelves	53.0	79.0
Shipping Weight without Solid End Panels	2-Door	3-Door
RVMC24UN Weight (lbs.)	580	---
RVMC24BBUN Weight (lbs.)	1,100	1,650
Shipping Weight with Solid End Panels ⁸	2-Door	3-Door
RVMC24UN Weight (lbs.)	640	---
RVMC24BBUN Weight (lbs.)	1,160	1,710

Notes:

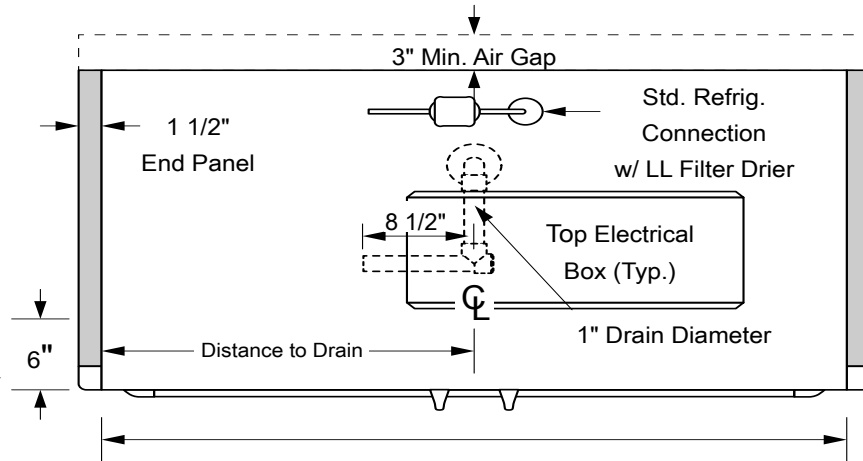
- 8. Each solid end panel: 30 lbs.



RVMC24UN Top View



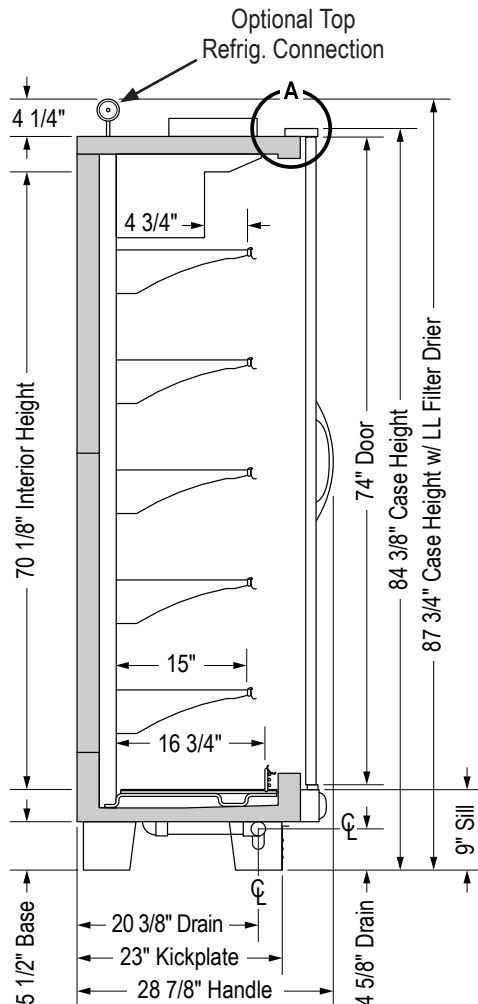
Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



Case Dimensions

Measurements	2-Door
Case Length (in.) without End Panels	48 3/4
Case Length (in.) with End Panels	53 3/4
Distance to Drain (in.) without End Panels	24 3/8

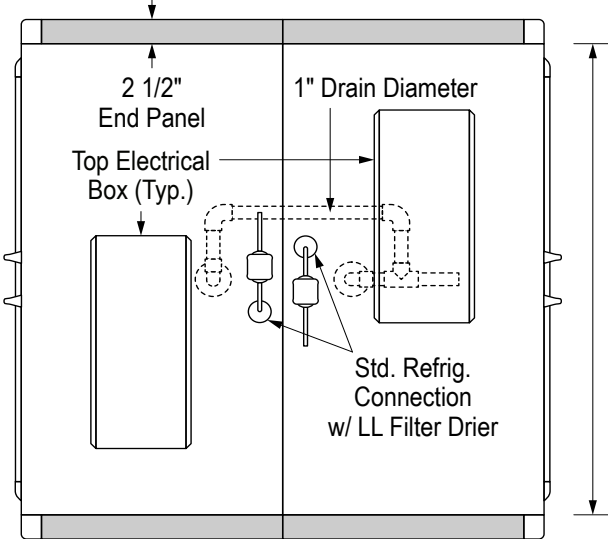
RVMC24UN End View



IMPORTANT: The Ultra Narrow must be anchored to either another case or a wall to ensure the case will not tip forward. See Installation & Operation Manual for more information.



RVMC24BBUN Top View



Case Dimensions

Measurements	2-Door	3-Door
Case Length (in.) without End Panels	48 3/4	53 3/4
Case Length (in.) with End Panels	53 3/4	58 3/4

RVMC24BBUN End View

