



# Crystal Merchandiser® RVMC30RL Rear Load Specs

Medium Temp Rear Load Reach-Ins with 30" x 74" CoolView® Ultra™ Doors  
 RVMC30RL-(B,D,P,M): RL=Rear Load (B=Beverage, D=Dairy/Deli, P=Produce, M=Meat)

## Refrigeration Data <sup>1</sup>

Refrigeration	Lineup Data		Individual Case Data (Includes 1 Pair of End Panels)			
	Per Door Avg		2-Door	3-Door	4-Door	5-Door
Evaporator Temperature (°F) <sup>2</sup>	28		28	28	28	28
Baseline Btu/h <sup>3,4</sup>	490		1,110	1,570	2,050	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)	40					
Optional Glass Windowed End Panel (Each) <sup>5</sup>	410					

Glycol Data <sup>6</sup>	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

## Electrical & Energy Data <sup>7</sup>

Electrical & Energy Data	Lineup Data		Individual Case Data (Includes 1 Pair of End Panels)							
	Per Door Avg		2-Door		3-Door		4-Door		5-Door	
Fan Motors (115V) <sup>8</sup>	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
High Efficiency Electronic (ECM or SSC)	0.30	9	0.60	18	0.60	19	0.60	19	0.90	31
Lighting System (120V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
LED Lighting (Zero Zone ChillBrite 4234)	0.16	19	0.32	39	0.48	58	0.63	77	0.79	96
Anti-Sweat Heat (115V) <sup>9</sup>	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	0.10	12	0.16	18	0.21	24	0.26	30
Rail & Glass Heated Doors (Zero Zone CoolView Ultra)	0.18	21	0.37	42	0.55	63	0.73	84	0.91	105

## Physical Data

Refrigeration Piping: R-404A & R-448A <sup>10</sup>	Outlet Size (in.)			
	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: CO2 <sup>10</sup>	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

Case Calculations	Solid End Panel	Windowed End	2-Door	3-Door	4-Door	5-Door
Facings (ft. <sup>2</sup> )	N/A	N/A	30.1	44.9	59.7	74.4
Packout (ft. <sup>3</sup> ) 24" Shelves	N/A	N/A	55.2	82.3	109.3	136.4
Packout (ft. <sup>3</sup> ) 27" Shelves	N/A	N/A	59.3	88.5	117.6	146.8
Weight (lbs.)	30	55	903	1,020	1,137	1,254

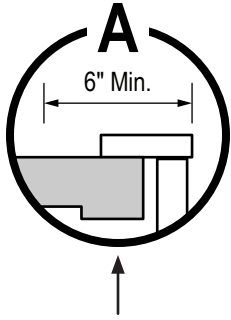
### Notes:

- 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. 5-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.

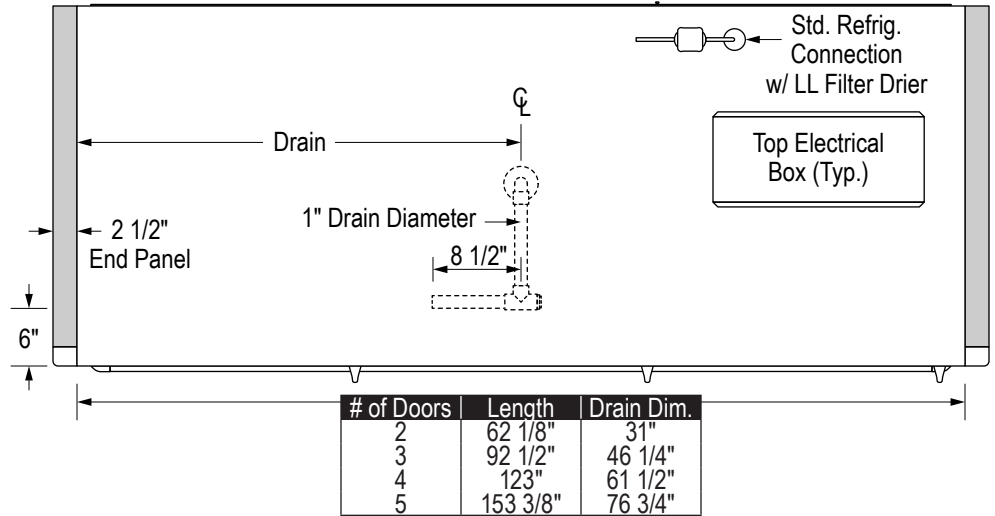


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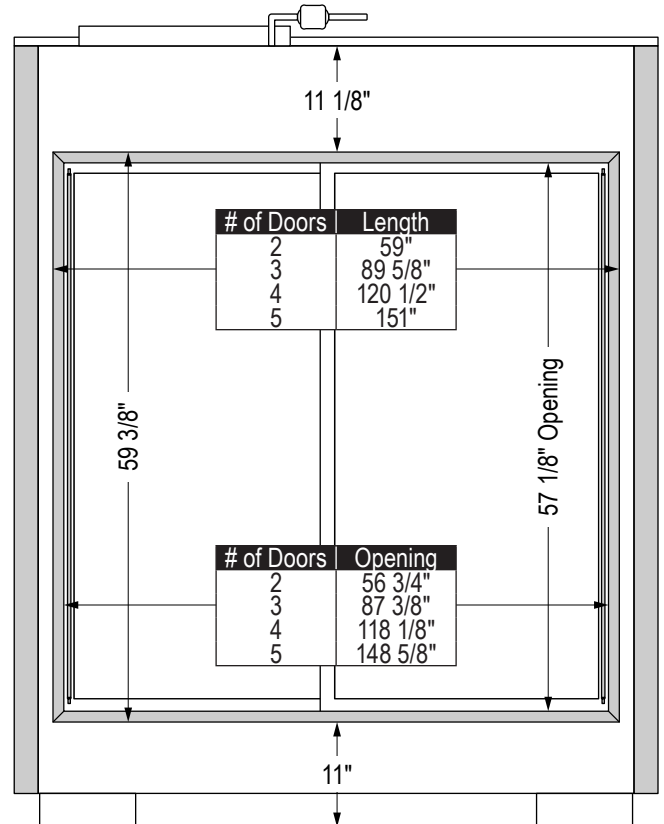
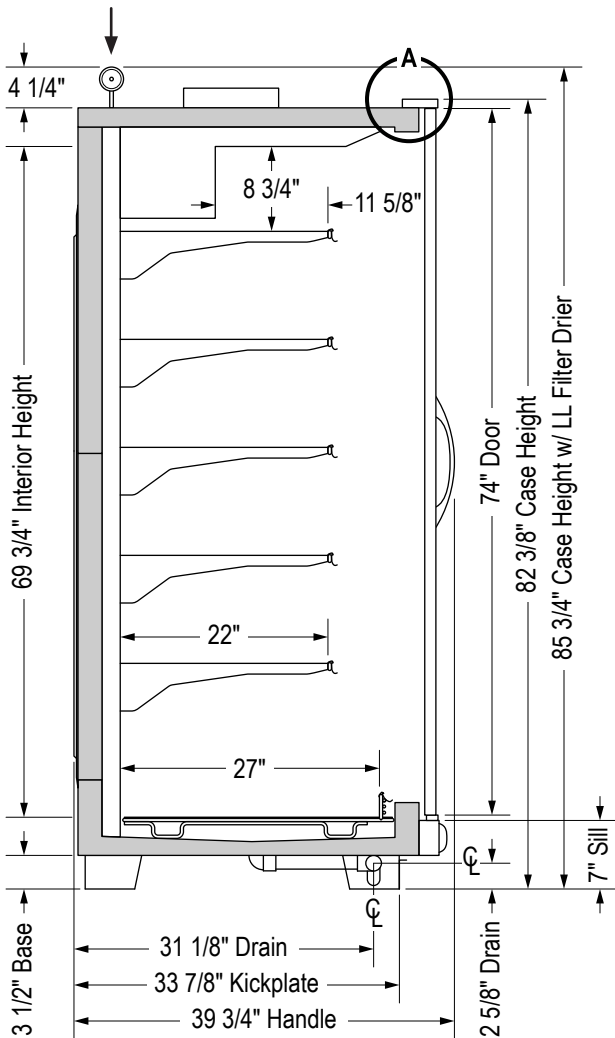
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Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



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



SS-06-N

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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