



# Highlight Merchandiser® RHLC30T & RHLC30TBB Tall Specs

Low Temp Tall Reach-Ins with 30" x 73" CoolView® Envision® Doors

RHLC30TBB: T=Tall; BB=Back-to-Back

## Refrigeration Data

	Lineup Data	
	Per Door Avg	
	FF	IC
<b>Refrigeration</b>		
Evaporator Temperature (°F) <sup>1</sup>	-7	-16
Baseline Btu/h <sup>2,3,4</sup>	950	1,035
Discharge Air Temperature (°F) (w/ 8°F Superheat)	-3	-12
<b>Btu/h Deducts</b>	<b>FF</b>	<b>IC</b>
Back-to-Back (RHLC30TBB) <sup>4</sup>	-75	-85
Solid Doors	-70	-70
<b>Btu/h Adders</b>	<b>FF</b>	<b>IC</b>
Optional Glass Windowed End Panel (Each)	315	350
Anti-Sweat High-Humidity Package	90	90

Individual Case Data (Includes 1 Pair of End Panels)									
2-Door		3-Door		4-Door		5-Door			
FF	IC	FF	IC	FF	IC	FF	IC		
-7	-16	-7	-16	-7	-16	-7	-16		
2,080	2,250	3,030	3,290	3,980	4,320	4,920	5,370		
-3	-12	-3	-12	-3	-12	-3	-12		

## Electrical & Energy Data <sup>5</sup>

	Lineup Data	
	Per Door Avg	
	Amps	Watts
<b>Fan Motors (115V) <sup>6</sup></b>		
High-Efficiency Electronic (ECM or SSC)	0.30	23
<b>Lighting System (120V)</b>		
LED Lighting (Zero Zone ChillBrite 4244)	0.16	19
<b>Anti-Sweat Heat (115V) <sup>7</sup></b>		
Standard-Energy Doors (Zero Zone CoolView Envision)	0.75	86
High-Humidity Package (Zero Zone CoolView Envision) <sup>8</sup>	1.06	121
Solid Doors (Zero Zone CoolView Envision)	0.52	60
<b>Defrost Heaters <sup>9,10</sup></b>	<b>Amps</b>	<b>Watts</b>
Single Phase (208V/1/60Hz)	4.00	832
Three Phase (208V/3/60Hz)	2.31	832

Individual Case Data (Includes 1 Pair of End Panels)									
2-Door		3-Door		4-Door		5-Door			
Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		
0.60	46	0.90	69	1.20	92	1.50	115		
0.32	38	0.48	58	0.64	77	0.79	96		
1.52	175	2.26	260	3.01	346	3.75	431		
2.14	246	3.19	366	4.23	487	5.28	607		
1.05	121	1.56	179	2.06	237	2.57	296		
8.00	1,680	12.00	2,496	16.00	3,328	20.00	4,160		
4.66	1,680	6.93	2,496	9.23	3,328	11.55	4,160		

## Physical Data

Refrigeration Piping: R-404A & R-448A <sup>11</sup>	
Suction Line O.D. (Standard Refrigeration Exit)	
Suction Line O.D. (Top Refrigeration Exit)	
Liquid Line O.D. (Electric Defrost)	
Liquid Line O.D. (Hot Gas Defrost)	
Refrigeration Piping: CO2 <sup>11</sup>	
Suction Line O.D. (Standard Refrigeration Exit)	
Suction Line O.D. (Top Refrigeration Exit)	
Liquid Line O.D. (Electric Defrost)	
Liquid Line O.D. (Hot Gas Defrost)	

Outlet Size (in.)			
2-Door	3-Door	4-Door	5-Door
7/8	7/8	7/8	7/8
1/2	5/8	5/8	5/8
3/8	3/8	3/8	3/8
1/2	1/2	1/2	1/2
2-Door	3-Door	4-Door	5-Door
1/2	1/2	1/2	1/2
1/2	1/2	1/2	1/2
3/8	3/8	3/8	3/8
1/2	1/2	1/2	1/2

Case Calculations	Solid End Panel	Windowed End	2-Door	3-Door	4-Door	5-Door
Facings (ft. <sup>2</sup> )	N/A	N/A	29.4	44.1	58.8	73.5
Packout (ft. <sup>3</sup> ) 22" Shelves	N/A	N/A	54.7	82.1	109.3	136.7
Packout (ft. <sup>3</sup> ) 24" Shelves	N/A	N/A	58.8	88.2	117.5	147.0
Weight (lbs.) RHLC30T	30	55	755	1,055	1,420	1,800
Weight (lbs.) RHLC30TBB	60	110	N/A	2,105	2,840	3,595

### Notes:

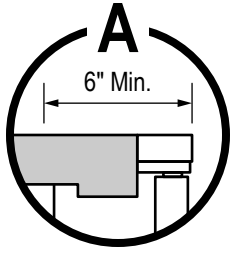
- For high-glide refrigerants, use dew point for unit sizing. Adjust evaporator pressure as needed to maintain discharge air temperatures.
- Baseline Evaporator Btu/h based on parallel rack system, LED lighting (Zero Zone ChillBrite® 4190), standard-energy doors (Zero Zone CoolView® Envision®), and ECM or SSC electronic fan motors.
- For condensing units (non-rack system), multiply total Btu/h rating by 1.06.
- Back-to-Back data reported per side. Btu/h deduct is applied to each side.
- Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.
- One fan motor per door.
- Door (Anti-Sweat) Options: standard-energy and high-humidity package = heated glass and heated rails; solid doors = heated rails. All options include mullion and sill heat.
- Anti-Sweat Controller required for the high humidity package to comply with DOE energy requirements.
- Electric Defrost: 1 per day. Defrost termination temperature setting is 50°F. Failsafe time is 55 minutes. Refer to the Installation & Operation Manual for details.
- Hot Gas Defrost: 1 per day. Defrost termination temperature setting is 65°F. Failsafe time is 30 minutes. Refer to the Installation & Operation Manual for details. Zero Zone recommends 1 riser per refrigeration circuit when utilizing hot gas defrost.
- Individual risers for circuits of more than one case require refrigeration line sizing by Zero Zone.



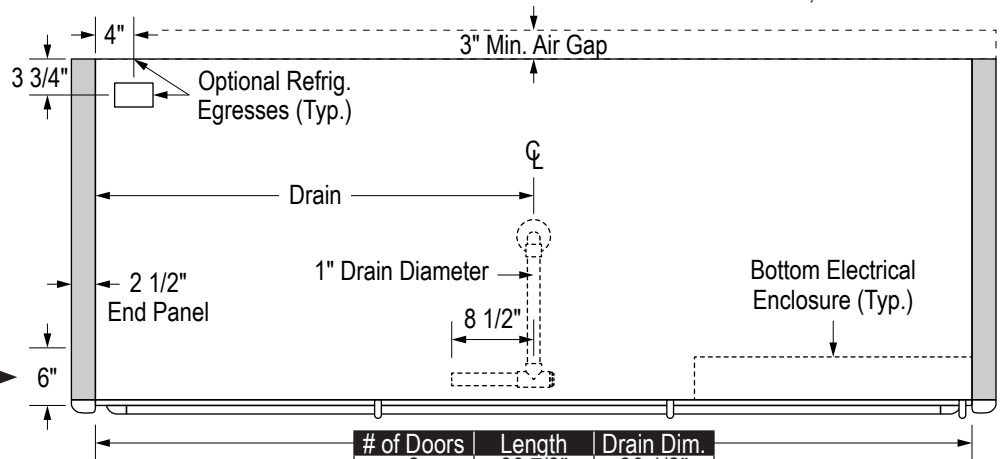
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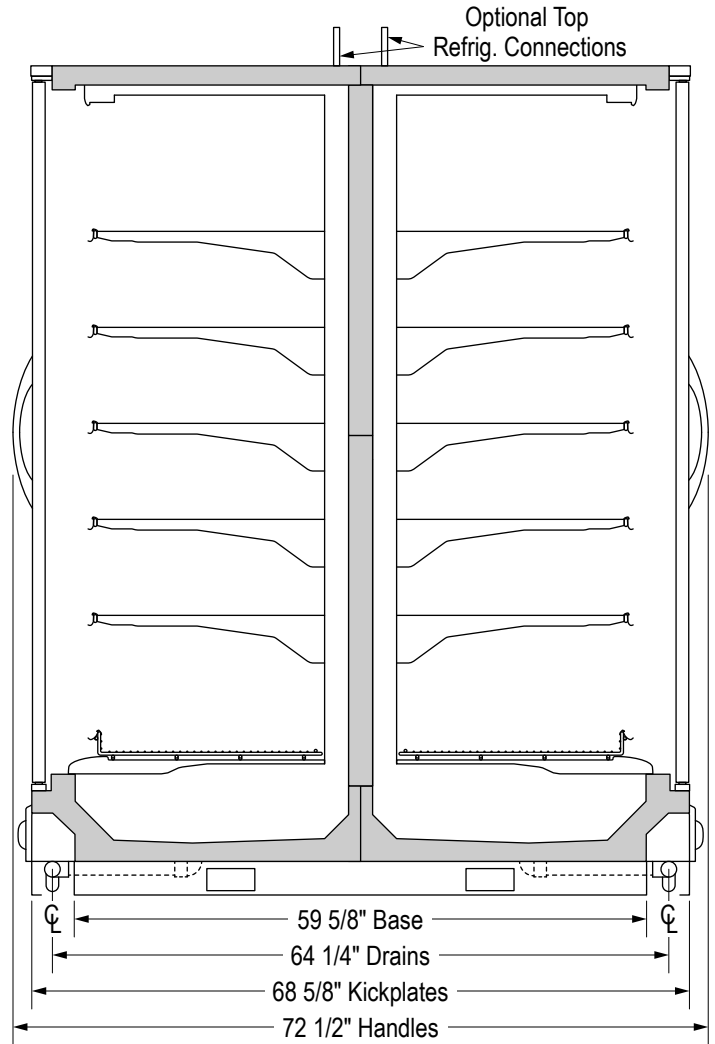
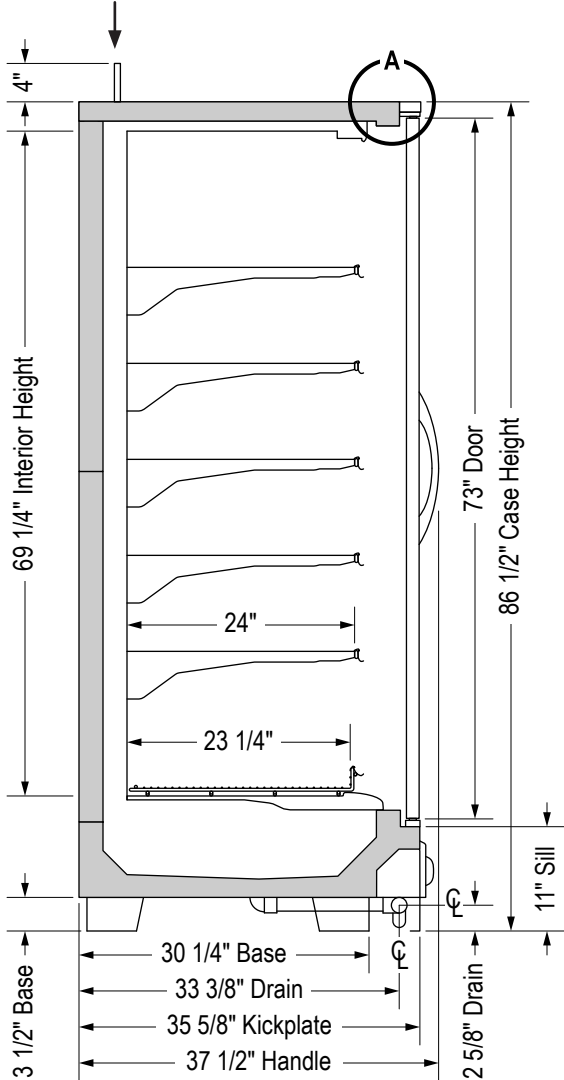


Building soffits must be set back at least 6" from the front of the doors to allow access to electrical wiring on the top of the case.



# of Doors	Length	Drain Dim.
2	60 7/8"	30 1/2"
3	91 3/8"	45 5/8"
4	121 3/4"	60 7/8"
5	152 1/4"	76 1/8"

Optional top refrigeration connection increases case height by up to 4".



SS-127-B

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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