



Highlight Merchandiser® RHLC30T Remote Specs

Low Temp Tall Reach-In Remote Display Cases

2-Door, 3-Door, 4-Door, and 5-Door Cases, Back-to-Back (BB) Cases

Applications



Ice Cream



Frozen Food

Quick Specs

Energy (Btu/h per Door)*

Frozen Food: 950 at -7°F Evaporator

Ice Cream: 1,035 at -16°F Evaporator

*when used with parallel rack system

Merchandising (5-Door)

Facings: 73.5 ft²

Packout: 147.0 ft³ with 30" x 24" deep shelves

Features & Options

Go Green

Remote cases ready for CO₂. 90-bar rating available.

High Humidity

Control climate challenges with advanced humidity package

CoolView® Doors

30" wide x 73" tall CoolView® Envision® Doors

LED Lighting

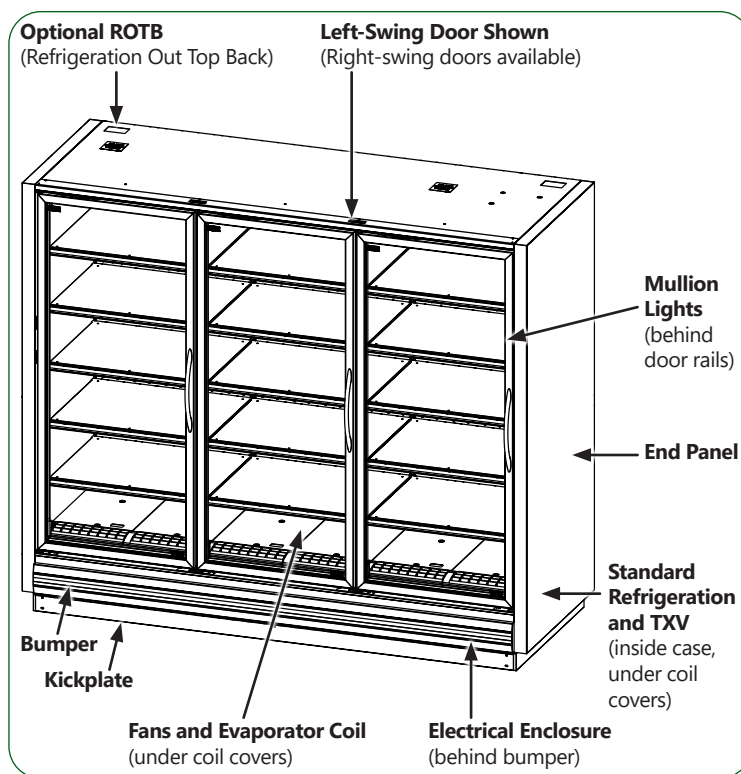
ChillBrite® 4000K LED Lighting

Additional Models

The Highlight® low temp lineup offers a standard, tall, back-to-back, and ice merchandiser.

Hybrid™ Display Case

Available as Hybrid™ cases. See separate spec sheet.



Manuals and Instructions:

<https://www.zero-zone.com/rhmc-rhlc>



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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Refrigeration Data



Set Points	Frozen Food (FF)	Ice Cream (IC)
Evaporator Temperature (°F) ¹	-7	-16
Discharge Air Temperature (°F) (w/ 8°F Superheat)	-3	-12

Notes:

- 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 ²	Lineup Data		Individual Case Data (includes 1 pair of end panels)									
	Per Door Avg		2-Door		3-Door		4-Door		5-Door			
	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC		
RHLC30T Baseline Btu/h	950	1,035	2,080	2,250	3,030	3,290	3,980	4,320	4,920	5,370		
RHLC30TBB Baseline Btu/h (Each Side)	875	950	---	---	2,805	3,035	3,680	3,980	4,545	4,945		
Energy Use with Condensing Unit ²	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC		
RHLC30T Baseline Btu/h	1,010	1,100	2,205	2,385	3,210	3,490	4,220	4,580	5,215	5,690		
RHLC30TBB Baseline Btu/h (Each Side)	930	1,020	---	---	2,975	3,217	3,900	4,220	4,820	5,240		
Btu/h Adders	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC		
Anti-Sweat High-Humidity Package	+90	+90	+180	+180	+270	+270	+360	+360	+450	+450		
Btu/h per case												
Btu/h Adders	FF	IC										
Glass Windowed End Panel (Each)	+315	+350										

Notes:

- Baseline Evaporator Btu/h based on LED lighting (Zero Zone ChillBrite® 4000K), standard-energy doors (Zero Zone CoolView® Envision®), and ECM or SSC electronic fan motors.



Refrigeration Piping: R-404A & R-448A ³	Outlet Size (in.)			
	2-Door	3-Door	4-Door	5-Door
Suction Line O.D. (Standard Refrigeration Exit)	7/8	7/8	7/8	7/8
Suction Line O.D. (Top Refrigeration Exit)	1/2	5/8	5/8	5/8
Liquid Line O.D. (Electric Defrost)	3/8	3/8	3/8	3/8
Liquid Line O.D. (Hot Gas Defrost)	1/2	1/2	1/2	1/2
Refrigeration Piping: CO ₂ ³	2-Door	3-Door	4-Door	5-Door
	2-Door	3-Door	4-Door	5-Door
Suction Line O.D. (Standard Refrigeration Exit)	1/2	1/2	1/2	1/2
Suction Line O.D. (Top Refrigeration Exit)	1/2	1/2	1/2	1/2
Liquid Line O.D. (Electric Defrost)	3/8	3/8	3/8	3/8
Liquid Line O.D. (Hot Gas Defrost)	1/2	1/2	1/2	1/2

Notes:

- 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 ⁴



	Per Door Avg		2-Door		3-Door		4-Door		5-Door	
Number of Fans			2		3		4		5	
Fan Motors (115V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
High-Efficiency Electronic (ECM or SSC)	0.30	23	0.60	46	0.90	69	1.20	92	1.50	115
Lighting System (120V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
LED Lighting	0.16	19	0.32	38	0.48	58	0.64	77	0.79	96
Anti-Sweat Heat (115V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
Standard-Energy Doors (CoolView Envision) ⁵	0.75	86	1.52	175	2.26	260	3.01	346	3.75	431
High-Humidity Package (CoolView Envision) ⁶	1.06	121	2.14	246	3.19	366	4.23	487	5.28	607
Solid Doors (CoolView Envision)	0.52	60	1.05	121	1.56	179	2.06	237	2.57	296
Defrost Heaters ^{7, 8}	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
Single Phase (208V/1/60Hz)	4.00	832	8.00	1,680	12.00	2,496	16.00	3,328	20.00	4,160

Notes:

- Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.
- Standard doors include glass heat, rail heat, sill, and mullion heat.
- High-humidity package includes 10% increase in glass heat, rail heat, and mullion heat. This package also includes an anti-sweat controller if in the United States or Territories.
- 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.

Physical Data



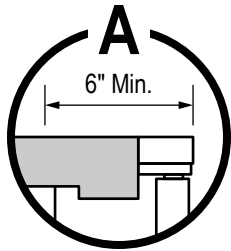
Merchandising	2-Door	3-Door	4-Door	5-Door
Facings (ft. ²)	29.4	44.1	58.8	73.5
Packout (ft. ³) 22" Shelves	54.7	82.1	109.3	136.7
Packout (ft. ³) 24" Shelves	58.8	88.2	117.5	147.0
Shipping Weight without End Panels	2-Door	3-Door	4-Door	5-Door
RHLC30T Weight (lbs.)	755	1,055	1,420	1,800
RHLC30TBB Weight (lbs.)	---	2,105	2,840	3,595
Shipping Weight with Solid End Panels ⁹	2-Door	3-Door	4-Door	5-Door
RHLC30T Weight (lbs.)	815	1,115	1,480	1,860
RHLC30TBB Weight (lbs.)	---	2,225	2,960	3,715
Shipping Weight with Windowed End ⁹	2-Door	3-Door	4-Door	5-Door
RHLC30T Weight (lbs.)	865	1,175	1,540	1,920
RHLC30TBB Weight (lbs.)	---	2,325	3,060	3,815

Notes:

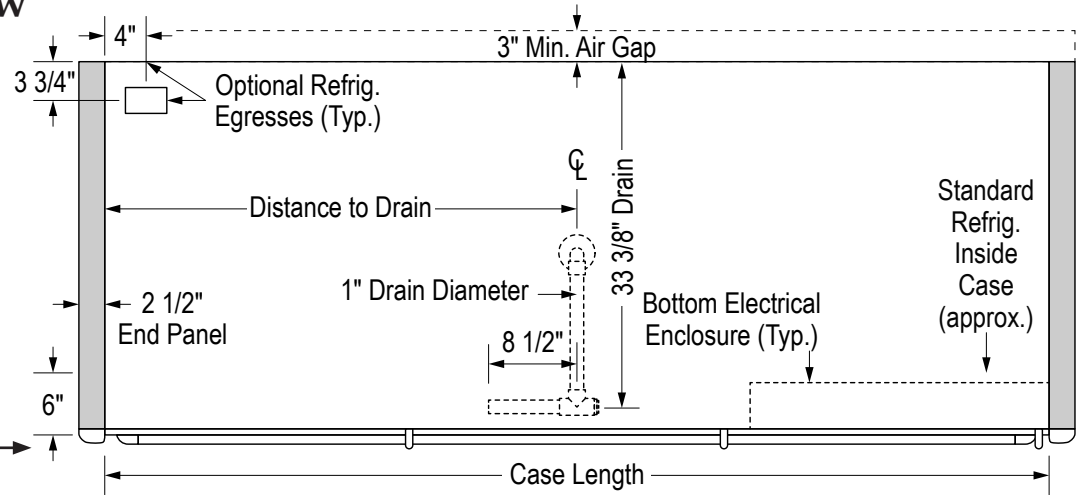
- Each solid end panel: 30 lbs for RHLC30T or 60 lbs for RHLC30TBB. Each windowed end panel: 60 lbs. for RHLC30T or 110 lbs for RHLC30TBB.



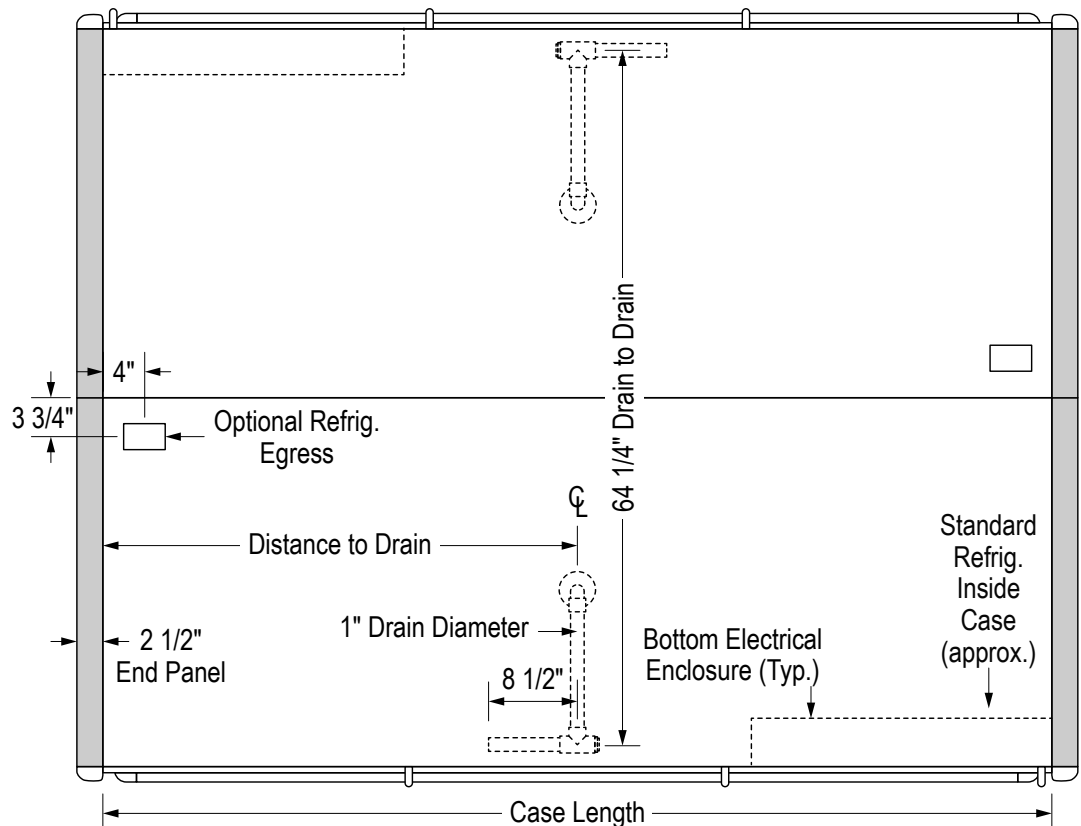
RHLC30T Top View



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.



RHLC30TBB Back-to-Back Top View

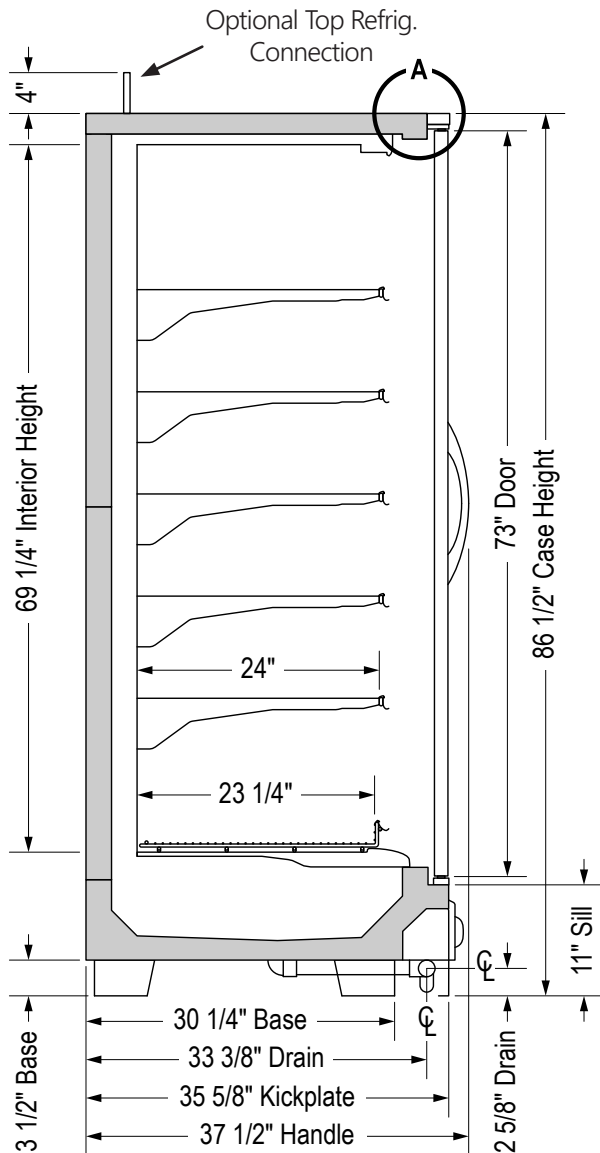


Case Dimensions

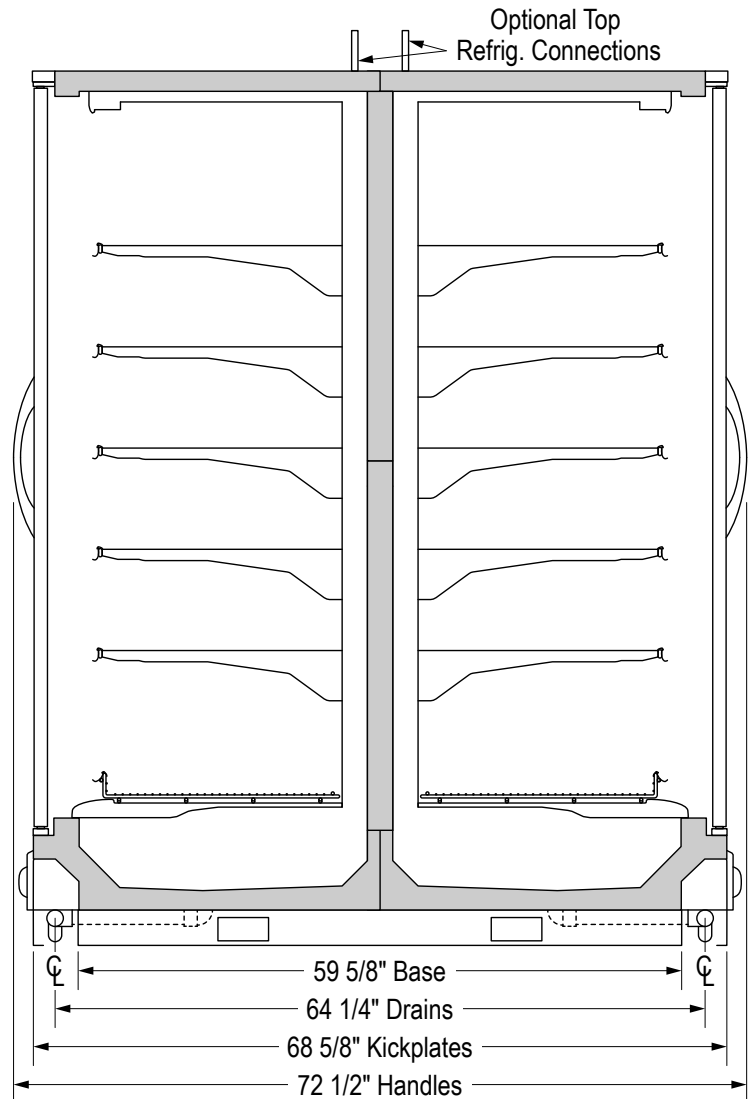
Measurements	2-Door	3-Door	4-Door	5-Door
Case Length (in.) without End Panels	60 7/8	91 3/8	121 3/4	152 1/4
Case Length (in.) with End Panels	65 7/8	96 3/8	126 3/4	157 1/4
Distance to Drain (in.)	30 1/2	45 5/8	60 7/8	76 1/8



RHLC30T End View



RHLC30TBB Back-to-Back End View



Base Notes:

- Base height options available: 1 3/4", 3 1/2", or 6 1/2".
- Changing bases affects case height and shipping height.
- Drain height from the floor: 2 5/8" with 3 1/2" base.
- Use 1 3/4" tall bases to fit through 80" doorways (shipping height = 79 5/8"). These bases must use hat channel rails.

Shelf Notes:

- 22" or 24" deep shelves.
- 2-position (0°, 10°) or 4-position (0°, 5°, 10°, 15°) shelves
- Available with 6" tall bottom baskets instead of bottom wire racks.