



HIGHLIGHT
merchandiser®

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

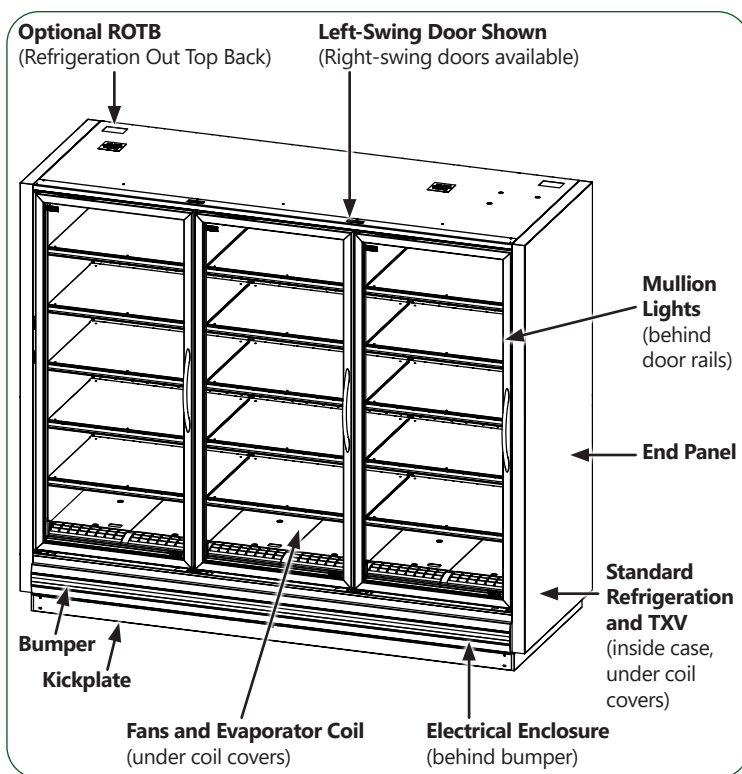
ChillBrite® 4000K LED Lighting

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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Page 1 of 5





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.



| | Lineup Data | | Individual Case Data (includes 1 pair of end panels) | | | | | | | | |
|---|--------------|-------|--|-------|--------|-------|--------|-------|--------|-------|--|
| | Per Door Avg | | 2-Door | | 3-Door | | 4-Door | | 5-Door | | |
| Energy Use with Parallel Rack System ² | 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 | | 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 |
| 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 (120V/1/60Hz or 208V/1/60Hz) | 4.00 | 832 | 8.00 | 1,680 | 12.00 | 2,496 | 16.00 | 3,328 | 20.00 | 4,160 |
| Three Phase (208V/3/60Hz) | 2.31 | 832 | 4.66 | 1,680 | 6.93 | 2,496 | 9.23 | 3,328 | 11.55 | 4,160 |

Notes:

4. Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.
5. Standard doors include glass heat, rail heat, sill, and mullion heat.
6. 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.
7. 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.
8. 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



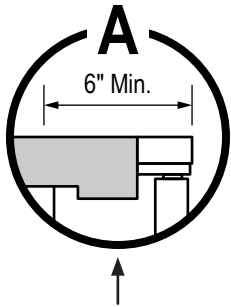
| Merchandising | 2-Door | 3-Door | 4-Door | 5-Door |
|--|--------|--------|--------|--------|
| Facings (ft. ²) | 29.4 | 44.1 | 58.8 | 73.5 |
| Packout (ft. ³) 22" Shelves | 54.7 | 82.1 | 109.3 | 136.7 |
| Packout (ft. ³) 24" Shelves | 58.8 | 88.2 | 117.5 | 147.0 |
| Shipping Weight without End Panels | 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 ⁸ | 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 ⁸ | 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:

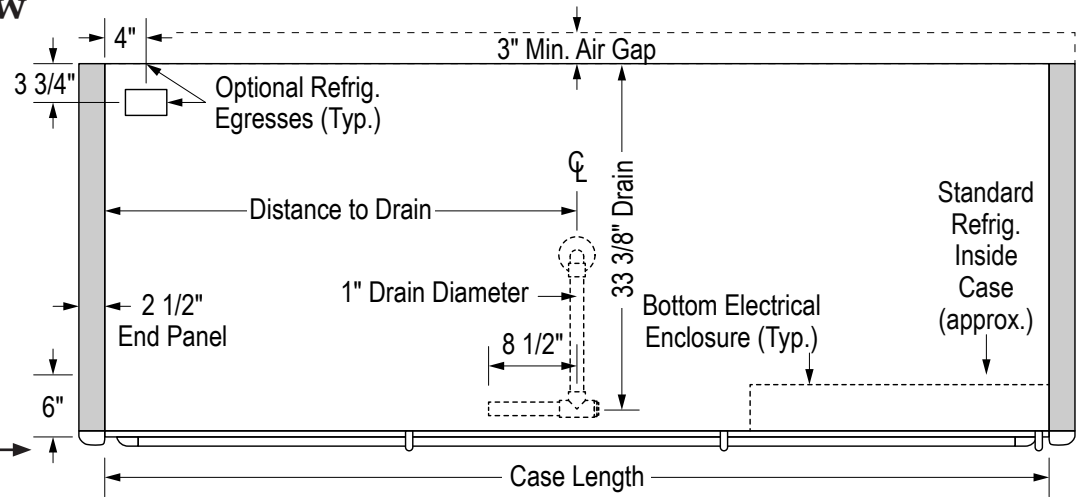
8. Each solid end panel: 30 lbs for RHLC30T or 60 lbs for RHLC30TBB. Each windowed end panel: 60 lbs. for RHLC30T or 110 lbs for RHLC30TBB.



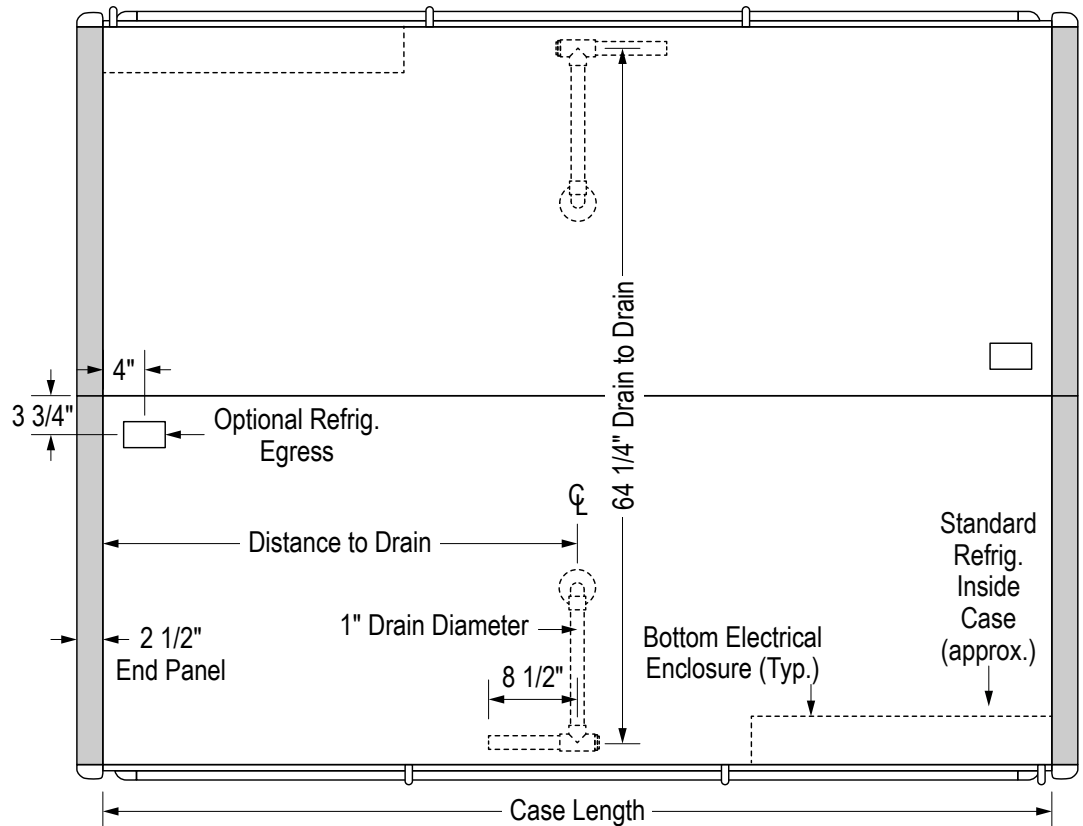
RHLC30T Top View



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

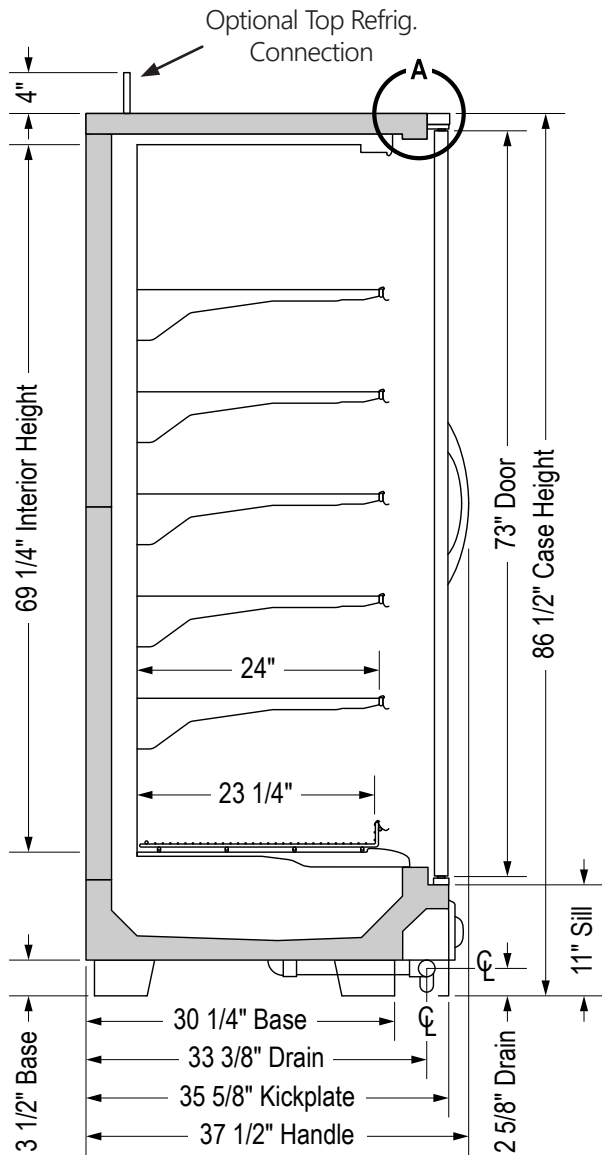


Case Dimensions

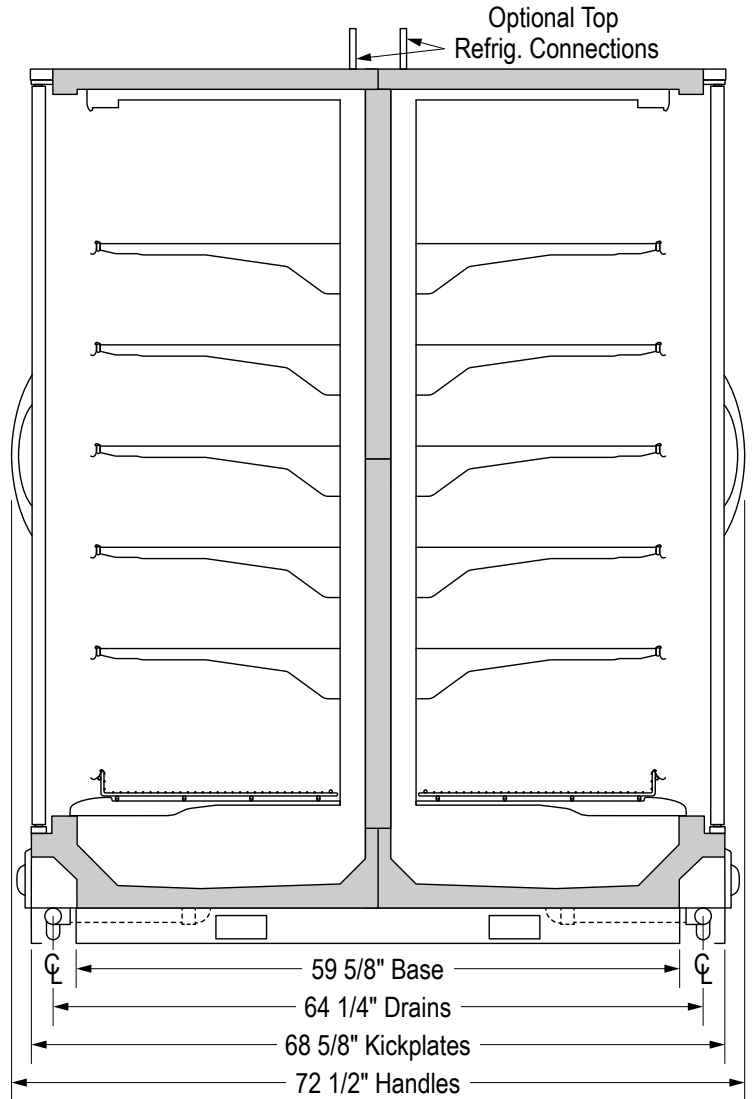
| Measurements | 2-Door | 3-Door | 4-Door | 5-Door |
|--------------------------------------|--------|--------|---------|---------|
| Case Length (in.) without End Panels | 60 7/8 | 91 3/8 | 121 3/4 | 152 1/4 |
| Case Length (in.) with End Panels | 65 7/8 | 96 3/8 | 126 3/4 | 157 1/4 |
| Distance to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