



## Highlight Merchandiser® RHLC30 Remote Specs

### Low Temp Reach-In Remote Display Cases

1-Door, 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:** 820 at -7°F Evaporator

**Ice Cream:** 940 at -16°F Evaporator

\*when used with parallel rack system

#### Merchandising (5-Door)

**Facings:** 68.2 ft<sup>2</sup>

**Packout:** 136.4 ft<sup>3</sup> with 30" x 24" deep shelves

## Features & Options

#### Go Green

Remote cases ready for CO<sub>2</sub>

#### High Humidity

Control climate challenges with our advanced humidity package

#### CoolView® Doors

30" wide x 68" tall CoolView® Envision® Doors

#### LED Lighting

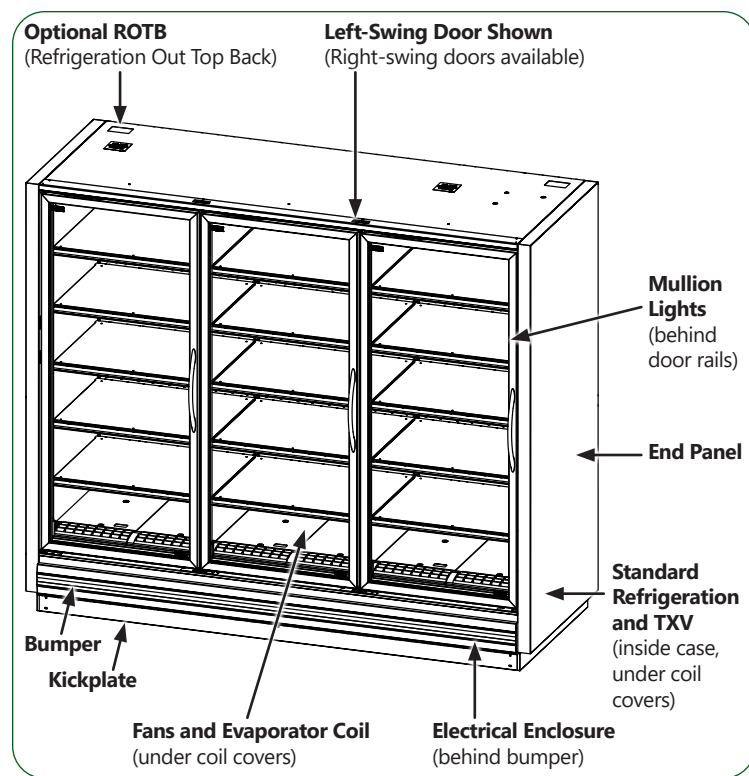
ChillBrite® 4000K LED Lighting

#### Additional Models

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

#### 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](http://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) <sup>1</sup>	-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 <sup>2</sup>	Lineup Data		Individual Case Data (includes 1 pair of end panels)									
	Per Door Avg		1-Door		2-Door		3-Door		4-Door		5-Door	
	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC
RHLC30 Baseline Btu/h	820	940	980	1,085	1,910	2,080	2,700	2,960	3,490	3,830	4,110	4,710
RHLC30BB Baseline Btu/h (Each Side)	745	855	---	---	1,760	1,910	2,475	2,705	3,190	3,490	3,735	4,285
Energy Use with Condensing Unit <sup>2</sup>	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC
RHLC30 Baseline Btu/h	870	995	1,040	1,150	2,025	2,205	2,860	3,140	3,700	4,060	4,355	4,995
RHLC30BB Baseline Btu/h (Each Side)	790	905	---	---	1,865	2,025	2,625	2,865	3,380	3,700	3,960	4,540
Btu/h Adders	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC	FF	IC
Anti-Sweat High-Humidity Package	+100	+100	+100	+100	+200	+200	+300	+300	+400	+400	+500	+500
Btu/h Per Case	FF	IC										
Additional Features	FF	IC										
Glass Windowed End Panel (1-Pair)	+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 & R-454C <sup>3</sup>	Outlet Size (in.)				
	1-Door	2-Door	3-Door	4-Door	5-Door
Suction Line O.D. (Standard Refrigeration Exit)	3/8	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)	1/4	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 <sub>2</sub> <sup>3</sup>	1-Door	2-Door	3-Door	4-Door	5-Door
Suction Line O.D. (Standard Refrigeration Exit)	3/8	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)	1/4	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 <sup>4</sup>



	1-Door		2-Door		3-Door		4-Door		5-Door	
Number of Fans	1		2		3		4		5	
<b>Fan Motors (115V)</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>
High-Efficiency Electronic (ECM or SSC)	0.70	20	1.40	38	2.10	59	2.80	78	3.50	98
<b>Lighting System (120V)</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>
LED Lighting	0.15	18	0.29	35	0.44	53	0.59	70	0.73	88
<b>Anti-Sweat Heat (115V)</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>
Standard-Energy Doors (CoolView Envision) <sup>5</sup>	0.73	83	1.43	164	2.13	245	2.84	326	3.54	408
High-Humidity Package (CoolView Envision) <sup>6</sup>	1.06	122	2.15	247	3.20	368	4.25	488	5.30	609
Solid Doors (CoolView Envision)	0.50	58	1.01	116	1.50	173	2.00	230	2.50	287
<b>Defrost Heaters <sup>7, 8</sup></b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>
Single Phase (120V/1/60Hz or 208V/1/60Hz) <sup>9</sup>	9.10	1,047	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.
- Electric Defrost Heater for 1RHLC30 only = 120V/1/60Hz. Electric Defrost Heater for 2, 3, 4 & 5RHLC30 = 208V/1/60Hz.

## Physical Data



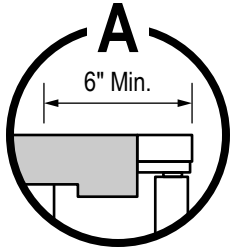
<b>Merchandising</b>	<b>1-Door</b>	<b>2-Door</b>	<b>3-Door</b>	<b>4-Door</b>	<b>5-Door</b>
Facings (ft. <sup>2</sup> )	13.6	27.3	40.9	54.5	68.2
Packout (ft. <sup>3</sup> ) 22" Shelves	25.4	50.0	75.0	100.0	125.0
Packout (ft. <sup>3</sup> ) 24" Shelves	27.3	54.5	81.9	109.0	136.4
<b>Shipping Weight without End Panels</b>	<b>1-Door</b>	<b>2-Door</b>	<b>3-Door</b>	<b>4-Door</b>	<b>5-Door</b>
RHLC30 Weight (lbs.)	530	720	970	1,280	1,585
RHLC30BB Weight (lbs.)	---	1,380	1,860	2,460	3,050
<b>Shipping Weight with Solid End Panels <sup>10</sup></b>	<b>1-Door</b>	<b>2-Door</b>	<b>3-Door</b>	<b>4-Door</b>	<b>5-Door</b>
RHLC30 Weight (lbs.)	590	780	1,030	1,340	1,645
RHLC30BB Weight (lbs.)	---	1,500	1,980	2,580	3,170
<b>Shipping Weight with windowed End Panels <sup>10</sup></b>	<b>1-Door</b>	<b>2-Door</b>	<b>3-Door</b>	<b>4-Door</b>	<b>5-Door</b>
RHLC30 Weight (lbs.)	640	830	1,080	1,390	1,695

Notes:

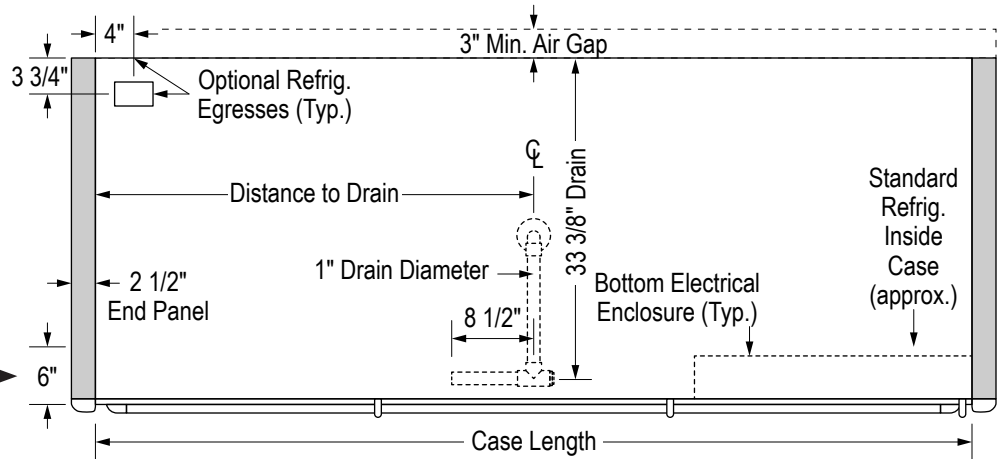
- Each solid end panel: 30 lbs for RHLC30 or 60 lbs for RHLC30BB. Each windowed end panel: 55 lbs for RHLC30.



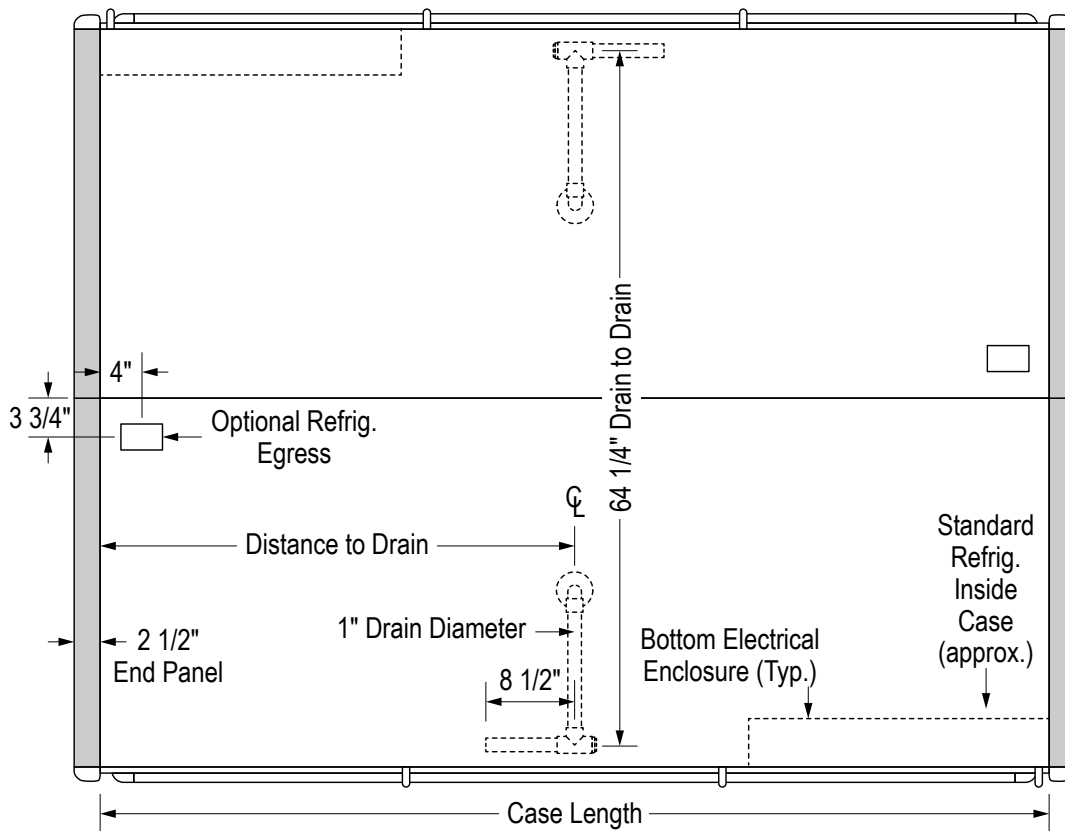
## RHLC30 Top View



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.



## RHLC30BB Back-to-Back Top View

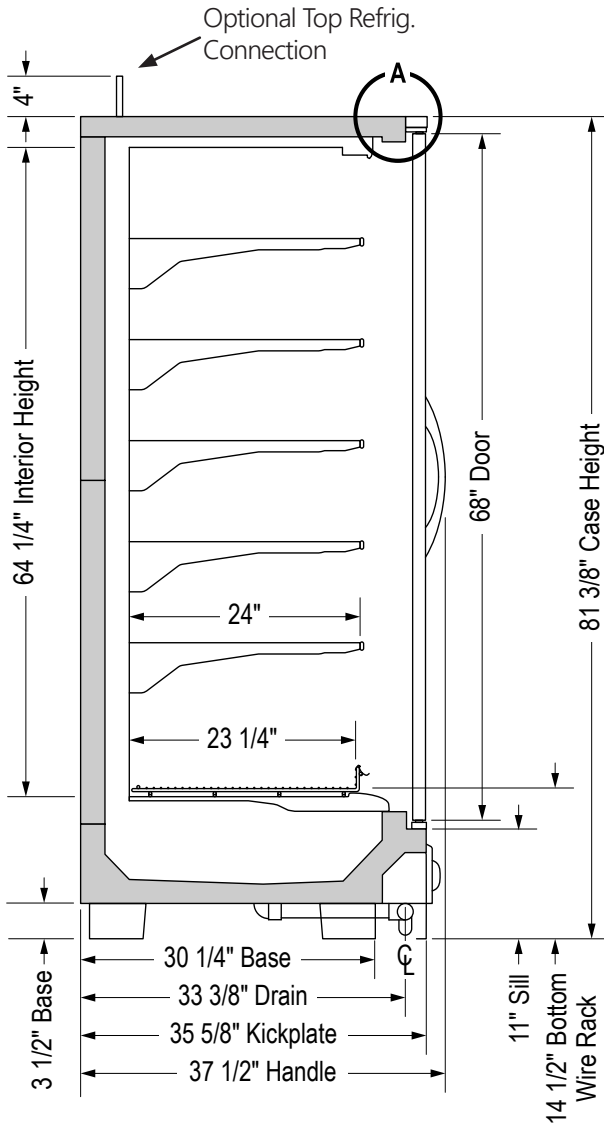


### Case Dimensions

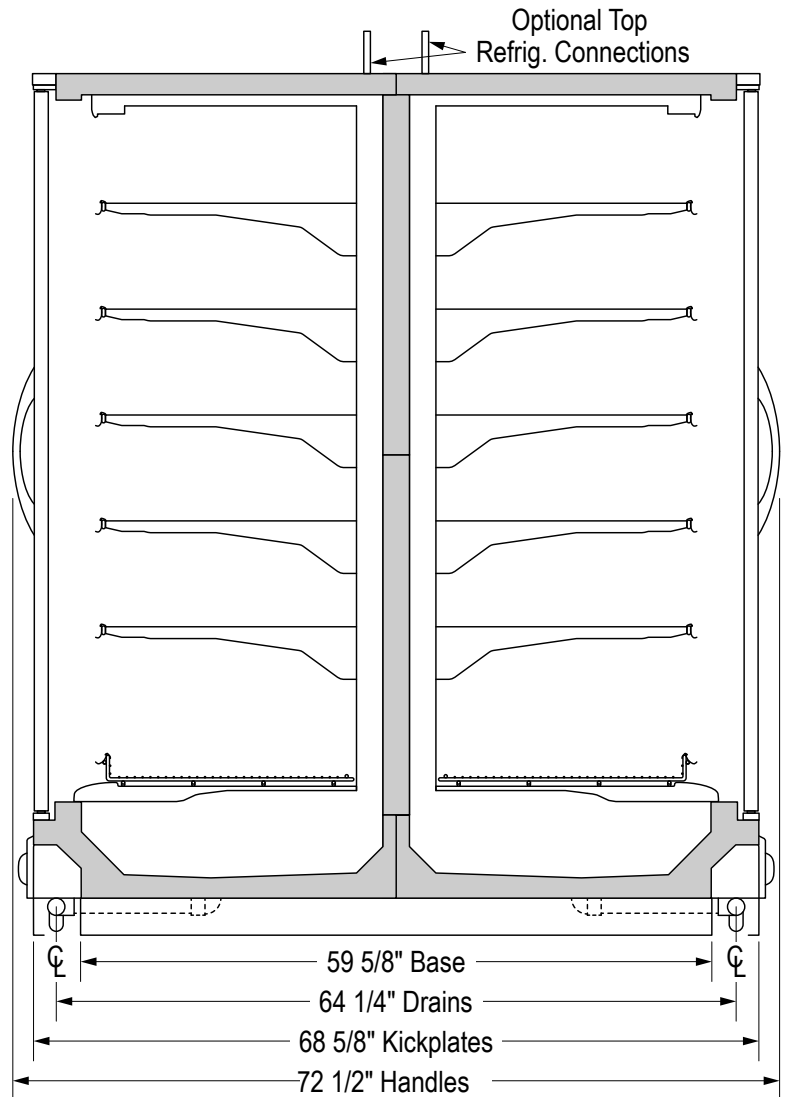
Measurements	1-Door	2-Door	3-Door	4-Door	5-Door
Case Length (in.) without End Panels	30 1/2	60 7/8	91 3/8	121 3/4	152 1/4
Case Length (in.) with End Panels	35 1/2	65 7/8	96 3/8	126 3/4	157 1/4
Distance to Drain (in.)	15 1/4	30 1/2	45 5/8	60 7/8	76 1/8



## RHLC30 End View



## RHLC30BB 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:

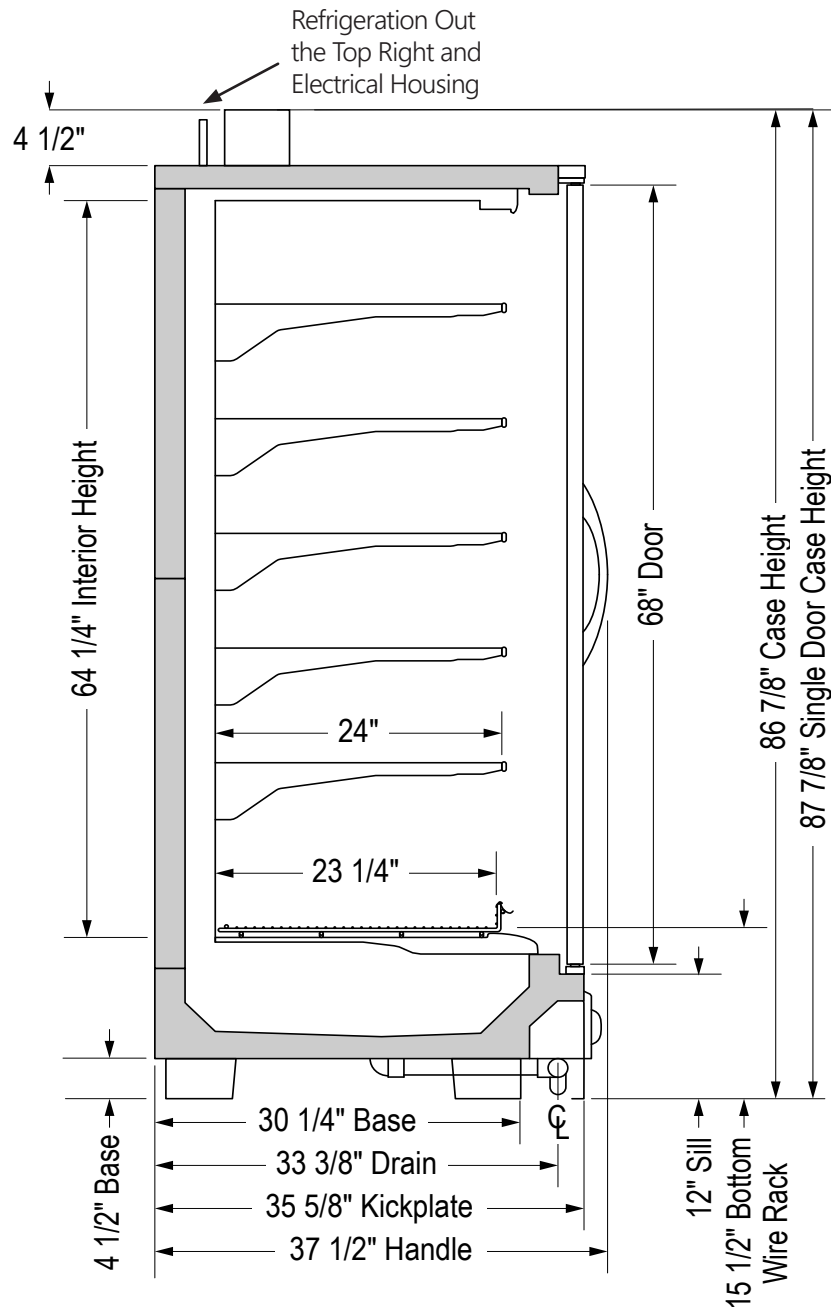
- 22" or 24" deep shelves.
- 2-position (0°, 10°) or 4-position (0°, 5°, 10°, 15°) shelves
- Available with 6" tall bottom baskets instead of bottom wire racks.



## R-454C RHLC30 End View

### Case Notes:

- Each A2L case includes a 4 1/2" kickplate (5 1/2" for single-door cases), refrigeration outlet located at the top right, and the electronic egress for case power and sensors exit through the top.
- The leak detector is located internally to the display case.
- The mitigation fans for single door cases are centered on the front kickplate.
- The mitigation fans are located on the end kickplates on 2- through 5-door cases.
- Features not available in A2L: Back-to-Back, Hybrid, High Humidity, Ref. to bottom, Elec. to bottom, Light dimming, Condensate Pump or Evaporator Pan.





## R-454C RHLC30 Low Entry Alternate End View

Case Notes:

- 2 3/4" Hat channels will ship loose with the display case for 2- through 5-door
- The leak detector is located internally to the display case.
- The mitigation fans for single door cases are centered on the front kickplate.
- The mitigation fans are located on the end kickplates on 2- through 5-door cases.
- 1-door will ship with 5 1/2" base heights.
- Features not available in A2L: Back-to-Back, Hybrid, High Humidity, Ref. to bottom, Elec. to bottom, Light dimming, Condensate Pump or Evaporator Pan.

