

Reveal Merchandiser® ORMC(82/87) Remote Specs

Medium Temp Open Multi-Deck Remote Display Cases

4', 6', 8', and 12' Long Cases with Low (L), Medium (M), or High (H) Sills; Beverage (B), Dairy or Deli (D), Produce (P), and Meat (M)

Quick Specs

Energy (Btu/h per Foot)*

	Btu/h	Evaporator
ORMC82	1,265	26°F
ORMC82-M	1,345	22°F
ORMC87	1,395	26°F

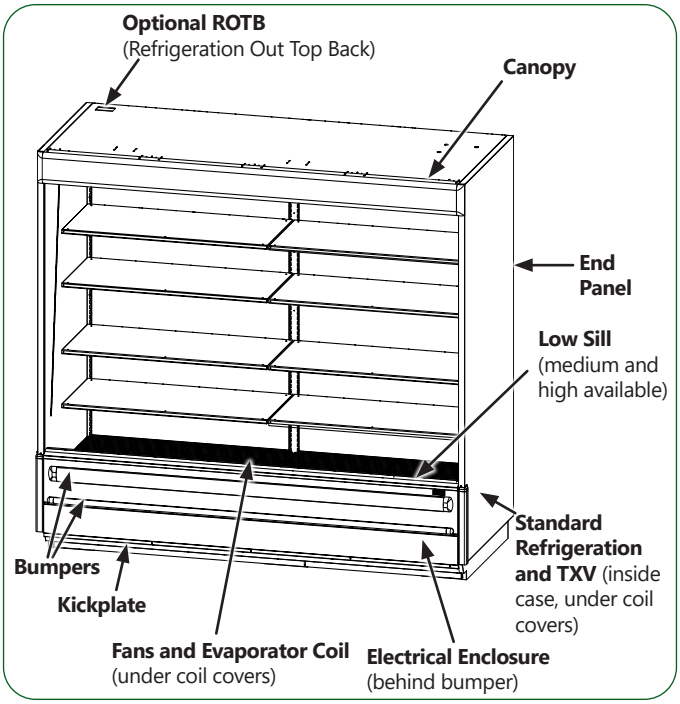
*when used with parallel rack system

Merchandising (Per Foot)

Facings: 55.4 ft² with Medium Sill
ORMC82 Packout: 7.14 ft³ with four 22" Shelves
ORMC87 Packout: 10.78 ft³ with four 22" shelves

Applications

Beverage | Dairy | Deli | Produce | Meat



Features & Options

Go Green
Remote cases ready for CO_2. 90-bar rating available.

Additional Models
See separate spec sheets for Meat Exclusive, Produce Exclusive, and Doored cases on the Zero Zone website.

LED Lighting
ChillBrite® 4000K LED Lighting for the canopy, sill, or undershelf

Low, Medium, or High Sills
Maximize facings with the low sill, maximize efficiency with the high sill, or balance both with the medium sill.

Enhance Your Reveal
Options include mirrors, night curtains, spray hose connection, and more.

Hybrid™ Display Case
Available as Hybrid™ cases. See separate spec sheet.

Manuals and Instructions:
https://www.zero-zone.com/ormc

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	Per Foot Avg B/D/P	Per Foot Avg M
Evaporator Temperature (°F) [1, 2]	26	22
Discharge Air Temperature (°F) (w/ 8°F Superheat) [3]	34	30
Discharge Air Velocity (fpm) [4]	260	260

Notes:
1. For high-glide refrigerants, use dew point for unit sizing. Adjust evaporator pressure as needed to maintain discharge air temperatures.
2. Evaporator temperatures listed above are for unlit, flat shelves. Evaporator temperatures may need to be reduced for lit and/or angled shelves or aftermarket display accessories.
3. Discharge air temperature is measured at the outlet of the honeycomb.
4. Discharge air velocity is average velocity at peak of defrost.

	Lineup Data Per Foot Avg		Individual Case Data [5] 4'		6'		8'		12'	
Energy Use with Parallel Rack System [6]	**B/D/P**	**M**	**B/D/P**	**M**	**B/D/P**	**M**	**B/D/P**	**M**	**B/D/P**	**M**
ORMC82 Baseline Btu/h	1,265	1,345	5,595	5,930	8,230	8,730	10,765	11,415	15,830	16,790
ORMC87 Baseline Btu/h	1,395	---	6,150	---	9,055	---	11,840	---	17,410	---
Energy Use with Condensing Unit [6]	**B/D/P**	**M**	**B/D/P**	**M**	**B/D/P**	**M**	**B/D/P**	**M**	**B/D/P**	**M**
ORMC82 Baseline Btu/h (R-404A)	1,380	1,495	6,100	6,585	8,970	9,690	11,735	12,670	17,255	18,635
ORMC87 Baseline Btu/h (R-404A)	1,520	---	6,705	---	9,870	---	12,905	---	18,975	---
ORMC82 Baseline Btu/h (R-448A)	1,440	1,535	6,380	6,760	9,380	9,950	12,270	13,015	18,045	19,140
ORMC87 Baseline Btu/h (R-448A)	1,590	---	7,010	---	10,325	---	13,500	---	19,850	---
Btu/h Deducts	**Per Foot Avg**		**4'**		**6'**		**8'**		**12'**	
High Sill	-40		-160		-240		-320		-480	
Btu/h Adders	**Per Foot Avg**		**4'**		**6'**		**8'**		**12'**	
Low Sill	+40		+160		+240		+320		+480	
Canopy Lights (ChillBrite® 4000K) 2nd Row	+13		+52		+78		+104		+156	
Sill Lights (ChillBrite® 4000K) 1 Row	+7		+28		+42		+56		+84	
Undershelf Lights (ChillBrite® 4000K) Per Row	+10		+40		+60		+80		+120	

Notes:
5. Individual case data includes 1 pair of end panels.
6. Baseline Evaporator Btu/h based on 1 row LED canopy lighting (Zero Zone ChillBrite® 4000K), ECM or SSC electronic fan motors, 4 rows of 22" flat shelves, and medium sill height.

	Outlet Size (in.)			
Refrigeration Piping: R-404A & R-448A [7]	**4'**	**6'**	**8'**	**12'**
Suction Line O.D. (Top Refrigeration Exit)	5/8	5/8	7/8	7/8
Liquid Line O.D. (Off Cycle Defrost)	3/8	3/8	3/8	3/8
Refrigeration Piping: CO_2 [7]	**4'**	**6'**	**8'**	**12'**
Suction Line O.D. (Top Refrigeration Exit)	1/2	1/2	1/2	1/2
Liquid Line O.D. (Off Cycle Defrost)	3/8	3/8	1/2	1/2

Notes:
7. 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 [8]

ORMC82	Per Foot Avg.		4'		6'		8'		12'	
Number of Fans			2		2		3		4	
Fan Motors ORMC82 (115V)	**Amps**	**Watts**	**Amps**	**Watts**	**Amps**	**Watts**	**Amps**	**Watts**	**Amps**	**Watts**
High-Efficiency Electronic (ECM or SSC)	0.14	7.7	0.84	42	0.84	42	0.84	63	1.26	84

ORMC87	Per Foot Avg.		4'		6'		8'		12'	
Number of Fans			2		2		3		4	
Fan Motors ORMC87 (115V)	**Amps**	**Watts**	**Amps**	**Watts**	**Amps**	**Watts**	**Amps**	**Watts**	**Amps**	**Watts**
High-Efficiency Electronic (ECM or SSC)	0.16	7.7	0.84	42	0.84	42	1.26	63	1.68	84

Lighting System ORMC(82/87) (120V)	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
Canopy LED Lights Per Row	0.047	5.8	0.19	23	0.28	35	0.38	46	0.56	69
Sill LED Lights 1 Row	0.023	2.9	0.09	12	0.14	17	0.19	23	0.28	35
Undershelf LED Lights Per Row	0.012	1.5	0.05	6	0.07	9	0.10	12	0.14	17

Notes:
8. Amps are based on electrical nameplate values. Watts are based on laboratory observations of actual energy use.

Glycol Data [9]	8′ (4-Door)	12′ (6-Door)
Flow Rate (GPM)	4.8	4.6
Pressure Drop (PSIG)	3.3	4.5

Notes:
9. Each solid end panel: 30 lbs.

Physical Data

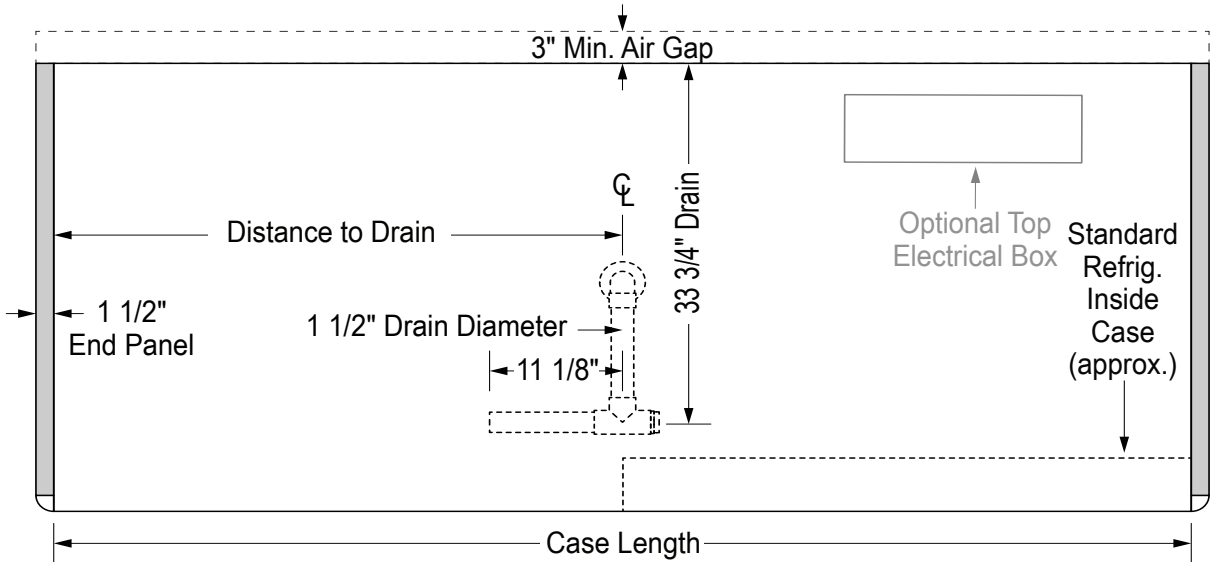
Merchandising	4'	6'	8'	12'
Facings (ft.^{2}) with Medium Sill	21.1	31.7	42.2	63.4
ORMC82 Packout (ft.^{3}) with 4 rows of 22" Deep Shelves	28.6	42.8	57.1	85.7
ORMC87 Packout (ft.^{3}) with 4 rows of 22" Deep Shelves	43.1	64.7	86.3	129.4
Shipping Weight without End Panels [10]	**4'**	**6'**	**8'**	**12'**
ORMC82 Weight (lbs.)	452	678	791	1,222
ORMC87 Weight (lbs.)	468	702	819	1,265
Shipping Weight with Solid End Panels [10]	**4'**	**6'**	**8'**	**12'**
ORMC82 Weight (lbs.)	512	738	851	1,282
ORMC87 Weight (lbs.)	528	762	879	1,325

Notes:
10. Each solid end panel: 30 lbs.

Operating Set Points

	R-404A		R-448A		CO_2	
Off-Cycle Defrost	**B/D/P**	**M**	**B/D/P**	**M**	**B/D/P**	**M**
Time Per Defrost (Minutes)	30	36	30	30	30	36
Drip Time (Minutes)	N/A	N/A	N/A	N/A	N/A	N/A
EPR Settings (psig)	64	58	56	51	448	420
Frequency (Per Day)	4	4	6	6	4	4

ORMC(82/87) Top View



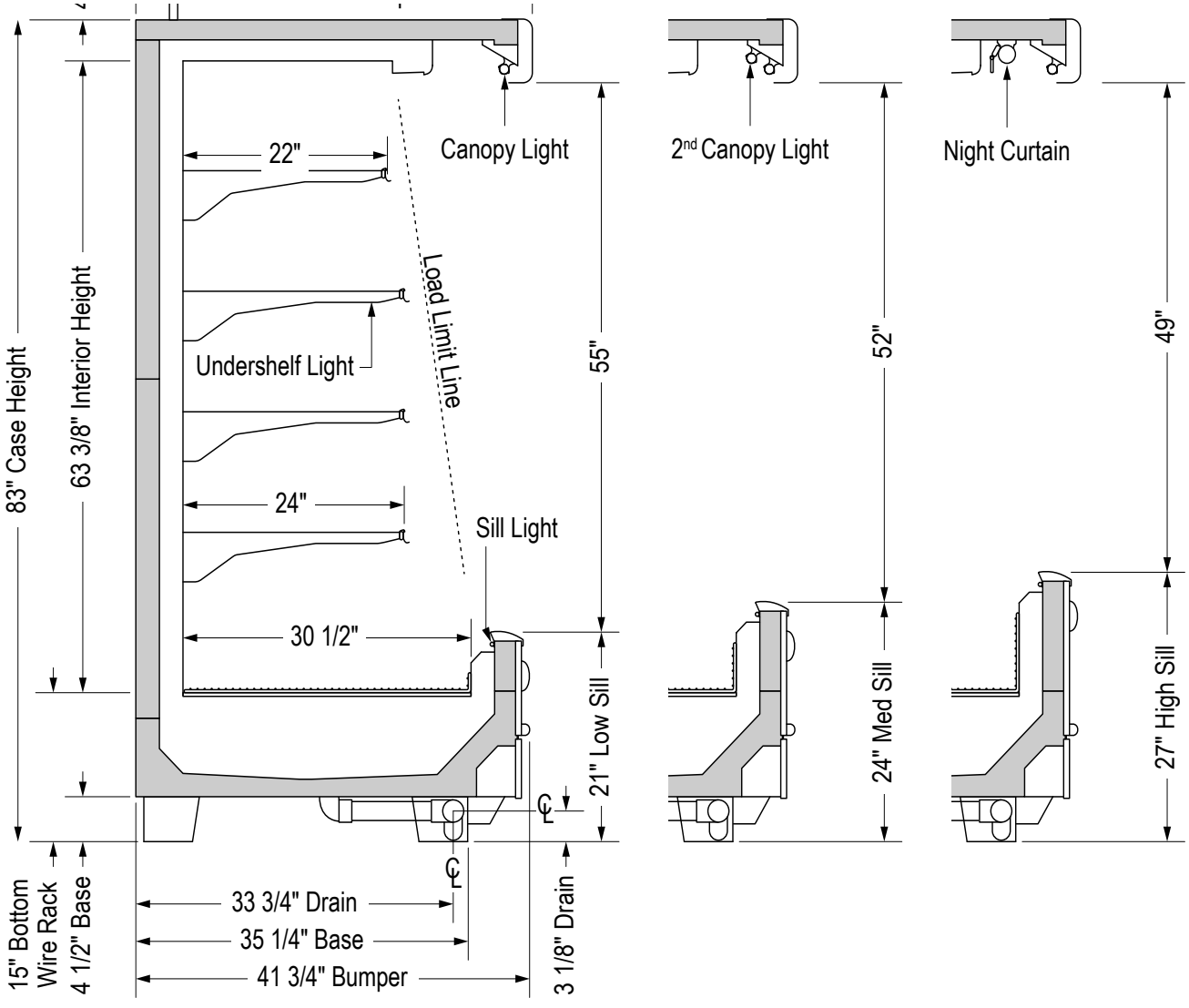
Case Dimensions

Measurements	4'	6'	8'	12'
Case Length (in.) without End Panels	48	72	96	144
Case Length (in.) with End Panels	51	75	99	147
Distance to Drain (in.)	24	36	48	72

ORMC82 End View

Shipping height notes:
- Shipping height is equal to case height minus hat channel rails, if applicable.
- Optional Top Refrigeration Connection

Shelf Notes:
- 4 shelves shown. Up to 7 available.
- Shelf depths available: 10" to 24" (in 2" increments) and 27".
- If 24" shelves are used at an angle, the top shelf must be 22" or less due to the load limit.
- 2-position (0°,10°) or 4-position (0°,5°,10°,15°) shelves
- Load limit line affects the allowable depth of shelves.

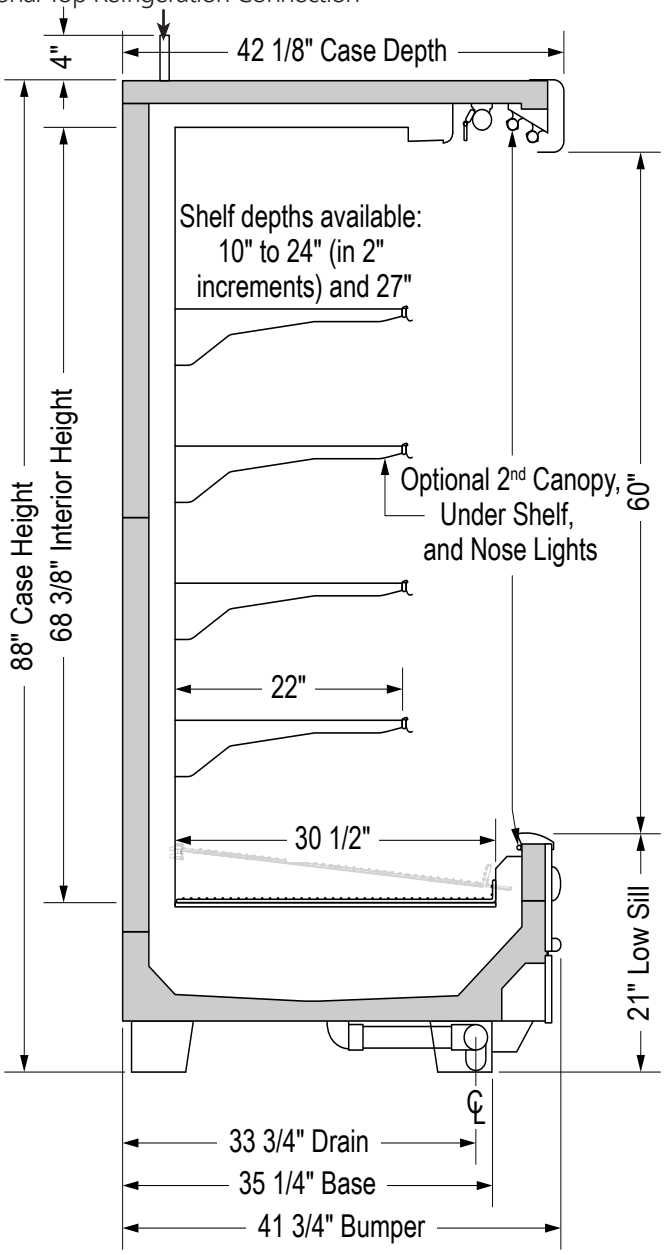


Base Notes:
- Base heights available: 3 ½", 4 ½", or 5 ½".
- Changing bases affects case height and shipping height.
- Drain height from floor: 3 1/8" with 5 ½" base.

Light Notes:
- One row of canopy lights is standard.
- Undershelf lights, sill lights, and second row of canopy lights is optional. Up to 5 undershelf lights per case.

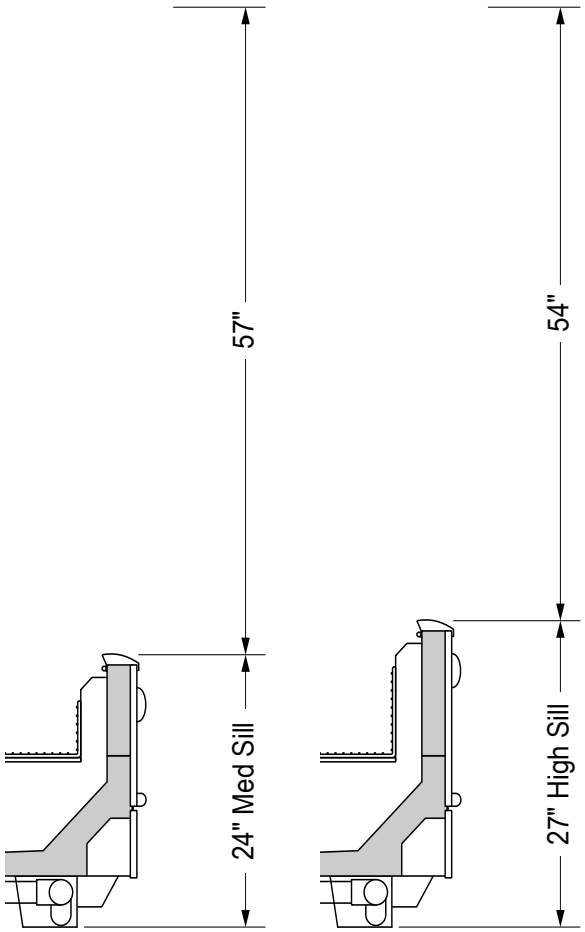
ORMC87 End View

Shipping height notes:
- Shipping height is equal to case height minus hat channel rails, if applicable.
- Optional Top Refrigeration Connection



Base Notes:
- Base heights available: 3 ½", 4 ½", 5 ½", or 6 ½".
- Changing bases affects case height and shipping height.
- Drain height from floor: 3 ⅛" with 4 ½" base

Shelf Notes:
- 4 shelves shown. Up to 7 available.
- Shelf depths available: 10" to 24" (in 2" increments) and 27".
- If 24" shelves are used at an angle, the top shelf must be 22" or less due to the load limit.
- 2-position (0°,10°) or 4-position (0°,5°,10°,15°) shelves
- Load limit line affects the allowable depth of shelves.



Light Notes:
- One row of canopy lights is standard.
- Undershelf lights, sill lights, and second row of canopy lights is optional. Up to 5 undershelf lights per case.

A2L ORMC82

Case Notes:

- Each A2L case includes a 4.5" kickplate (5.5" 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 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.

FIG. 2: A2L Case Parts

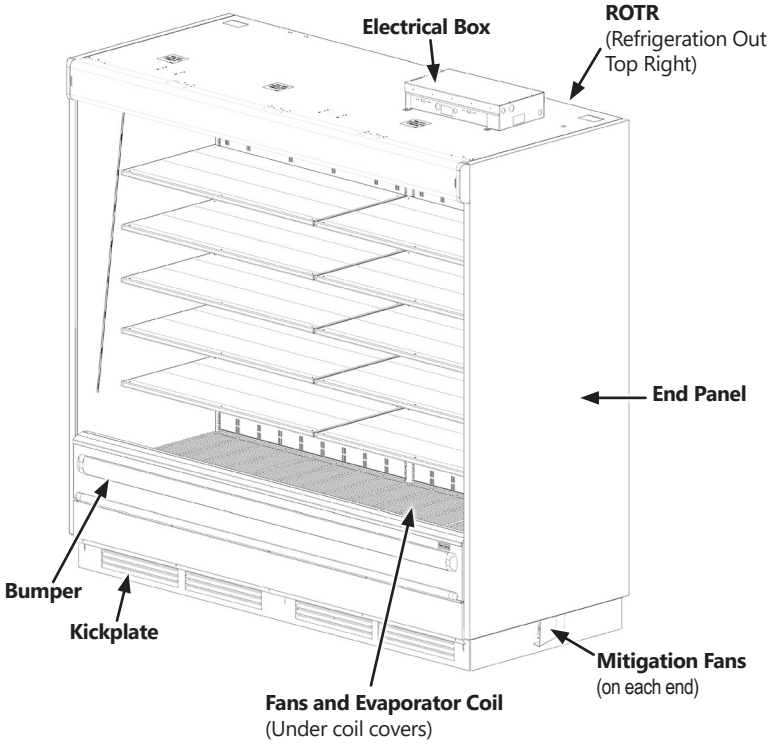


FIG. 3: A2L Side View

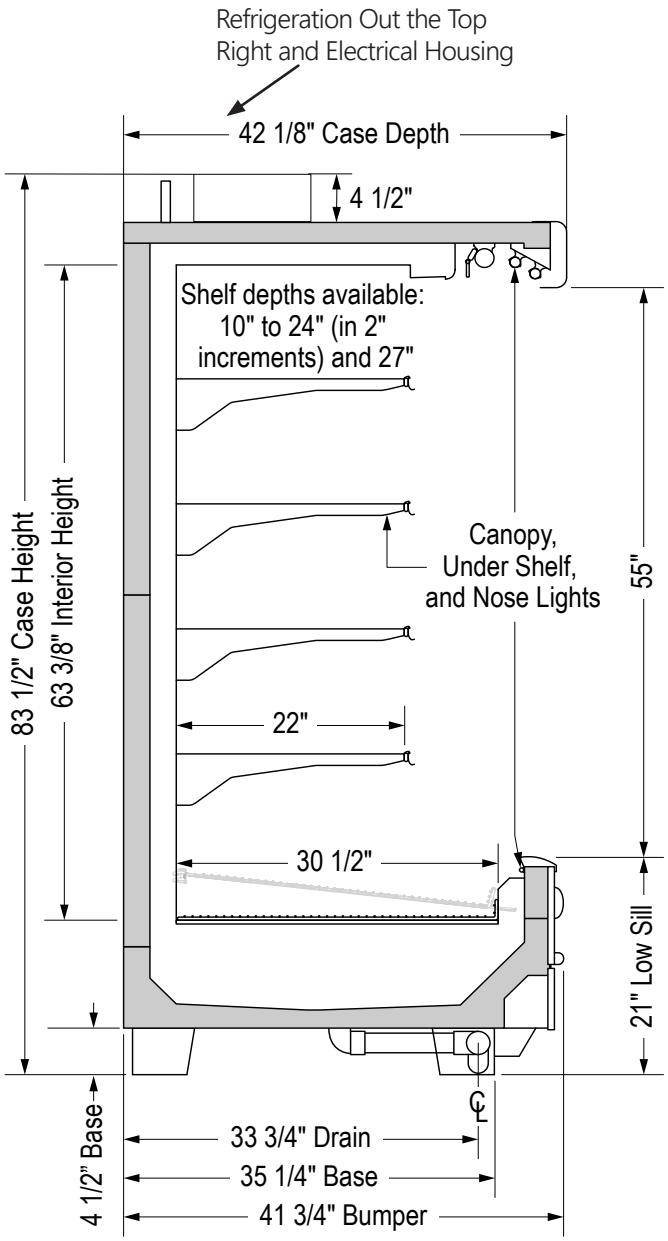


FIG. 4: A2L Top View

