

Quiet/Low Velocity/Energy Efficient Air Handler

Air Defrost - 1/4 H₂O Static Pressure, 2,023 to 27,967 BTUH

Application - Vertical airflow, mechanical closets

**Extremely
Quiet
Unit**

LRC's Energy Efficient Vertical Air Handler (VAH-EC) Evaporators are powerful, low noise units in small insulated cabinets that supply refrigerated/humidity controlled air without the inconvenience or noise of an in-room evaporator. VAH-EC Units are designed for small to medium sized rooms and have an air return at the rear of the unit and a top outlet.

VAH-EC Evaporator units are available in capacities from 2,023 to 27,967 BTU and can be used with R-22, R134a, R404a, or other refrigerants. Chilled water models available by special order.

- Low noise for sensitive areas
- Provides 1/4" H₂O duct run static pressure
- **Energy efficient ECM motors meet or exceed California energy standards**
- Rustproof all-aluminum cabinet. Flat black powder coated finish available. Call for details.
- Ideal for mechanical closets
- Provides consistent room humidity by maintaining a steady coil temperature, reducing the need for expensive temperature and humidity controls in most applications.* Call for details.
- Constant pressure expansion valve and solenoid valve standard
- High performance staggered coils with copper tubing mechanically expanded into aluminum fins
- Pressure tested to eliminate leaks.
- Factory wired for easy installation
- Coil coated with LRCCoat™ anticorrosion coating
- 0 - 10V DC speed control or fixed fan speed standard.

- Corrosion resistant drainpan.

Options Available **Call for details**

- Copper or coated coils for coastal/special applications
- Secondary drain pan for elevated/sensitive installations
- Stainless steel or painted cabinets available for corrosive environments available
- Pre-charged, custom or OEM units can be made to your order

Our Application Engineers can help you design the system you need. Call us today, 562-944-1969, and we'll help you get the right LRC product for your project.



OUR UNCONDITIONAL GUARANTEE

We're proud of the workmanship that goes into every LRC product. Because of our exacting design and manufacturing standards, and our thorough testing prior to shipping, we unconditionally guarantee our products to be free from manufacturing defects for one year. You can count on LRC Coil for quality heat transfer products.

Visit www.LRCCoil.com for installation and maintenance data, and wiring diagrams.

At LRC, we are continuously working to improve our products, therefore, we reserve the right to make changes without notice.

* = Assumes areas surrounding the humidity controlled room are maintained to ASHRAE conditions of 80°/67°. For humidity controlled rooms with different surrounding conditions, please contact LRC.

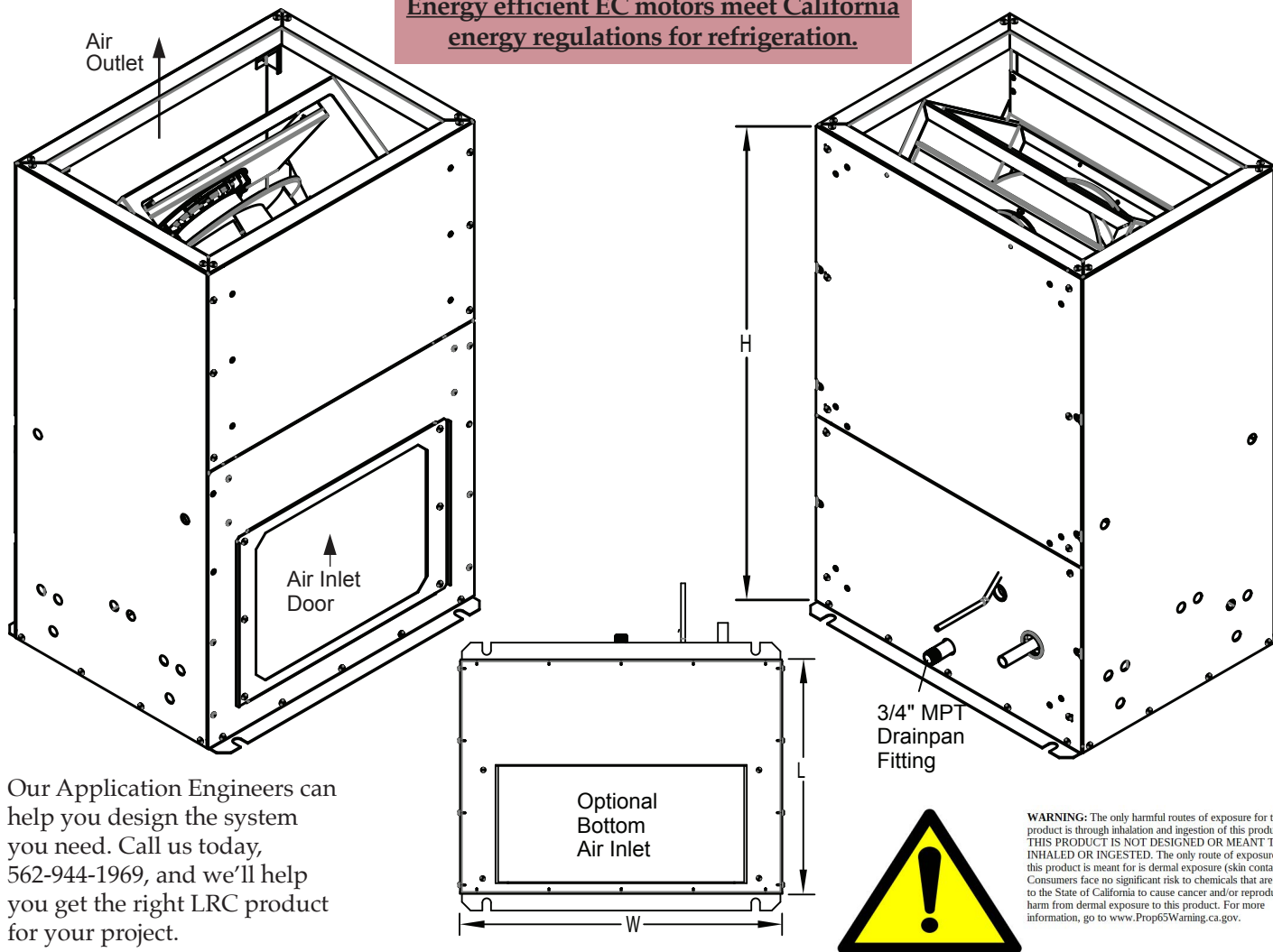
LRC Energy Effic. Vert. Air Handler (VAH-EC)

COIL COMPANY

TECHNICAL BULLETIN: VAH-EC 180325 REV: B

PAGE 2

Energy efficient EC motors meet California energy regulations for refrigeration.



Our Application Engineers can help you design the system you need. Call us today, 562-944-1969, and we'll help you get the right LRC product for your project.

WARNING: The only harmful routes of exposure for this product is through inhalation and ingestion of this product. THIS PRODUCT IS NOT DESIGNED OR MEANT TO BE INHALED OR INGESTED. The only route of exposure that this product is meant for is dermal exposure (skin contact). Consumers face no significant risk to chemicals that are known to the State of California to cause cancer and/or reproductive harm from dermal exposure to this product. For more information, go to www.Prop65Warning.ca.gov.

VAH-EC (Energy Efficient Vertical Air Handler) Specifications

Model No.	CFM	115V Amps	Dimensions (inches)						BTUH Cap. @ 17°F TD			Unit Wt.
			H	D	W	Drn.	Liq.	Suct.	38°F SST, 55°F Room	R513A	R134a	R404a
VAH-25EC	325	2.07	20 ¹ / ₄	12 ³ / ₈	16			³ / ₈	2,078	2,023	2,101	42
VAH-31EC	580	2.07	25 ¹ / ₈	15 ⁵ / ₈	20 ⁷ / ₈			³ / ₈	4,593	4,471	4,698	49
VAH-47EC	630	2.07	30 ¹ / ₈	15 ⁵ / ₈	20 ⁷ / ₈			⁵ / ₈	7,105	6,915	7,493	55
VAH-66EC	1,150	4.6	39 ¹ / ₈	18 ¹ / ₄	22 ⁷ / ₈	³ / ₄	³ / ₈	⁵ / ₈	8,302	8,080	8,510	61
VAH-87EC	1,150	4.6	39 ¹ / ₈	18 ¹ / ₄	22 ⁷ / ₈			⁵ / ₈	12,165	11,840	12,070	65
VAH-120EC	1,400	4.6	43 ³ / ₈	20 ¹ / ₄	27 ⁷ / ₈			⁷ / ₈	19,136	18,624	19,487	73
VAH-180EC	1,800	3.64 @ 230V	44 ⁷ / ₈	22 ¹ / ₂	30 ⁷ / ₈			⁷ / ₈	27,218	26,490	27,967	89

Unit includes 2 air inlet options (bottom of the unit or back of the unit) and 1 air outlet (top). For proper air flow, at least one air inlet must be opened.

Please note:

LRC cooling units are designed to minimize noise and vibration. To reduce / eliminate amplification of existing noise or vibration, extreme care must be taken during installation. Please refer to supplied installation instructions and use proper installation materials to minimize acoustic impact.

The use of oversized condensing units can lead to poor wine room evaporator performance and possible system failure. When installing a LRC wine room evaporator, it is recommended that condensing units be sized LESS than or equal to the evaporator capacity. Contact LRC Coil's Application Engineers at 562-944-1969 for questions or assistance.

Visit www.LRCCoil.com for Installation and Maintenance Data and Wiring Diagrams.

Our website has a Wine Room Capacity Calculator that instantly determines room loads and capacities, enabling you to know cooling equipment requirements based on your exact specifications. Visit LRCCoil.com for details.