



VERTIV™

Liebert®

LVC™

from 88 to 170kW

Modular Condenser for outdoor applications



Cooling solution for medium/large data center



When it comes to cooling your critical infrastructure, Direct Expansion (DX) architecture is regarded as an ideal solution for medium/large data centers because of its modularity, scalability and ease of maintenance. Studies have shown that using a chilled water (CW) architecture consumes about 4 million gallons of water annually based on 1 MW data center capacity. In this instance, a DX solution can help you save on precious energy resources.

Challenges in DX architectures for outdoor units

Due to limited installation area on the roof-top/outdoor place (in case, if multiple condensers are installed), reticulated hot air leads to frequent high pressure alarm in the outdoor set. Particularly, in summer season this affects the capacity of the air-conditioning system.

The top three concerns while designing a DX solution for outdoor unit are as follows :

- a) Space limitation for outdoor unit placement.
- b) Frequent high pressure tripping.
- c) Saving energy.

Introducing the Liebert LVC - the most advanced range of condensers from Vertiv. This V-shaped condenser effectively saves on space, solving the problem of congestion in the air-cooled outdoor installation area. The cooling capacity ranges from 88kW to 170kW in a single unit.

Thanks to its modular design, the Liebert LVC is highly flexible and efficient, adjusting to organization demands as they evolve.



Modular Installation

Attributes :

- Made of stainless steel connectors and corrosion-resistant fins.
- Full range of EC fan frequency control.
- With R407C/R410A model series.
- Optional low noise accessories.
- Independent fan design for the independent controller.
- Optional water spray assembly.

Design Features & Benefits



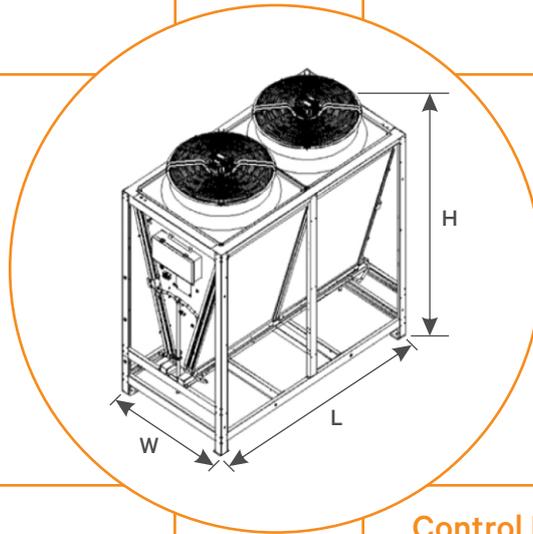
Space Saving

- V-shaped condenser coil saves 70% footprint area compared to conventional "one" condensers. High outdoor area usage.



Energy Saving

- With EC fan, saves 15~55% fan power consumption.
- Optional water spray, natural cooling and other energy-saving components.



Easy Maintenance

- Modular design for easy accessibility.
- Special design for easy dirt removal from outdoor coils.



Control Logic

- Fan speed regulation according to four control mode, thus adjusting the discharge pressure.
- Spray technology reduces power consumption & noise.

Technical Specification

V-shaped Condenser						
Unit Model	Weight(kg)	Unit Size (LXWXH) (mm)	Footprint area (m ²)	Fan Quantity	Indoor Model Series	
LVC088	315	2330 X 1100 X 1744	2.6	2		
LVC106	340	2330 X 1100 X 1744	2.6	2		
LVC140	415	2330 X 1250 X 2222	2.9	2	PEX+, CRV+	
LVC152	430	2330 X 1250 X 2222	2.9	2	PEX3, PEX4	
LVC170	450	2330 X 1250 X 2222	2.9	2		

* Specification are subject to change without any prior intimation.



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