



Liebert® LVC™

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



2 series of dual system
condenser R22 (R407C) R410A



Great heat rejection
capacity



Match indoor unit
series – PDX Series



Spray cooling
optional kit



4 modes of new control logic
and spray control logic

Technical Specifications

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	2331 X 1250 X 2222	2.9	2	PEX3, PEX4
LVC170	450	2332 X 1250 X 2222	2.9	2	

* Specification are subject to change without any prior intimation.



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