

Colocation and cloud hosting data center managers are seeking cooling solutions that help them save money, reduce risks and make it easier to manage their facilities. With the Liebert® EFC 400kW system, Vertiv™ has taken freecooling innovation to the highest level, setting new records for cooling performance.

## Advanced Controls

- Teamwork algorithms to coordinate operation of multiple units for maximum efficiency and protection
- Self-healing control routines to avoid reaching dangerous thresholds
- Cost saving advanced control algorithms that automatically selects the best combination of water and electricity usage based on input costs
- Independent control of capacity and temperature for optimal annual efficiency



## Highly Efficient Heat Exchanger

- Air leakage less than 0.1%, greatly reducing need for extra capacity for makeup air
- Up to 85% effective heat transfer in dry mode for less annual water consumption
- Mechanical PUE as low as 1.03
- Cooling to within 3 degree of wet bulb temperature to maximize economization hours and minimize or eliminate the need for mechanical refrigeration

## Fun Facts About The Liebert EFC



1

Total area of the enhanced heat exchanger surface of the Liebert EFC, which helps to drive its efficiency **26,000 square feet – more area than five professional basketball courts**

Amount of air saved over the 10-year life of a 1 MW data center thanks to lower air leakage, compared to air loss by a heat wheel. **Enough to fill about 15,500 Goodyear® blimps**

2



3

Energy savings from lower air leakage of the Liebert EFC, compared to a heat wheel, for a 1 MW data center at 8 cents/kWh (due to lower fan energy and lower make-up air). **\$13,600 or 14% of total operating budget**

Annual amount of CO<sub>2</sub> saved by not having to add capacity to make up for leaked air **96 tons**

4



5

Number of average-sized autos producing the amount of CO<sub>2</sub> saved annually by the Liebert EFC **20**

For more information visit [www.VertivCo.com](http://www.VertivCo.com)