

# Vertiv™ CoolPhase Perimeter

## Pumped Refrigerant Economization System



The Vertiv™ CoolPhase Perimeter is the world's most reliable and efficient pumped refrigerant free cooling economization system for large data centers. Offering superior reliability, uses proven pumped refrigerant economization technology from Vertiv, deployed in more than 8,500 installations worldwide.

### Lower Energy Usage

- Pumped refrigerant economizer uses one-tenth the power of compressors
- Advanced monitoring and control algorithms for multi-unit teamwork, automated transitions to economization and automated protection routines
- Highly efficient in low load / part load conditions

### Easier Servicing

- Rear-access servicing
- No need to enter the data center
- Refrigerant pump is virtually maintenance free
- No dampers to service or outside air filters to replace

### Improves Data Center Stability

- No outside air, contaminants or humidity allowed into the data center
- No water usage
- Advanced control algorithms automate unit lead/lag, protect against coil freeze, maximize economization and avoid adverse thresholds

### Highly Flexible Design

- High-density design supports loads of more than 250 watts per square foot
- Units can be situated side by side to form a “wall of cooling”
- Underfloor or front air discharge
- Split-system design allows high application flexibility

## Benefits

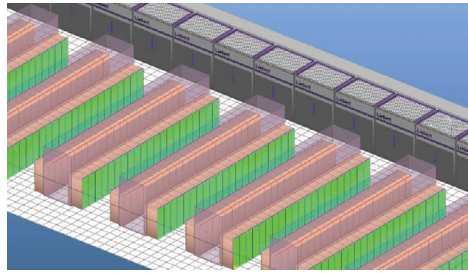
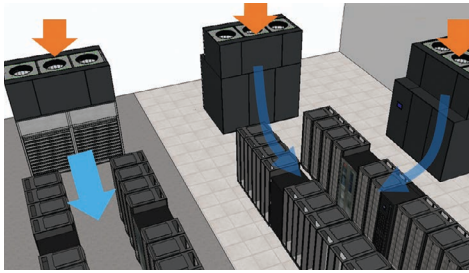
- High-efficiency, with a PUE under 1.2
- Low GWP refrigerant, utilizing R-454B
- Low peak power to allow downsizing of backup generator capacity or more IT power for sale
- Rapidly scalable for faster deployment and time to market
- Low operating costs for higher TCO and ROI
- Integrated controls automatically manage unit operation to maximize economization and deliver the highest number of free cooling hours
- Complete separation of data center and outdoor air, operating as a split system and allowing highly flexible installations



**Vertiv™ CoolPhase Perimeter**

## Features

- Lower unit count compared to traditional DX systems
- Non-raised floor configurations, such as fan array
- Supports high density data center suites - in excess of 250 watts per square foot
- More consistent data center environment, through physical separation of heat rejection air and data center air
- Minimal air leakage design with less than 1% air leakage at 1.5 times static pressure and no volumetric displacement
- Low peak power, for smaller generator sizing or more IT power to deploy
- Advanced controls for automatic protection routines, multi-unit teamwork and greater efficiency



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## Physical data

	DA250	DA265
Unit dimensions (H x W x D), m (in)	3407 x 3054 x 2118 (134-1/8 x 120-1/4 x 83-3/8)	
Shipping dimensions (Coil section) (H x W x D), m (in)	2,286 x 3,251 x 2,464 (90 x 128 x 97)	
Shipping dimensions (Fan section) (H x W x D), m (in)	2,286 x 3,251 x 1,372 (90 x 128 x 54)	
Weight, kg (lbs) (Coil section)	2,159 (4,761)	
Weight, kg (lbs) (Fan section)	1,055 (2,325)	
Shipping weight, kg (lbs) (Coil section)	2,966 (6,540)	
Shipping weight, kg (lbs) (Fan section)	1,667 (3,676)	
Efficiency	Up to 95% @100% Load	

## Performance data

Nominal cooling capacity, kW (kBTU/hr)	270.6 (923,326)	278.2 (949,258)
Nominal air flow, m3/h (ACFM)	62,014 (36,500)	62,014 (36,500)
SCOP	3.25	3.25
Refrigerant	R-454B	

\* Nominal Performance data calculated at unit inlet air temp 95°F, 0.2 inH2O, dew point 52°F, outdoor temp 95°F, and airflow listed above. For performance data at different site conditions, contact local sales representative

## Electrical data (No Reheat, No Humidifier)

	460V	575V
FLA	165.4	127.8
OPD	175	150
Nominal power consumption	76	73

## Ambient conditions

Operating conditions	0 - 120°F (0 to 49°C)
Storage conditions	-40 - 158°F (-40 to 70°C)

**Vertiv.com** | Vertiv Headquarters, 505 N Cleveland Ave, Westerville, OH 43082, USA

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