

AirMover by PVD is a modular data center fabricated enclosure solution designed for high and low ambient outdoor applications.

It can be deployed in as few as 12 weeks and provides cooling that is more cost effective, scalable, efficient, and easily maintained than other data center offerings.

The AirMover control system is equipped with programmable controllers and sensors to monitor air temperature and humidity to optimize cooling efficiency and lower overall TCO (Total Cost of Ownership).



Cooling Modes

100% Recirculation

The return air from the enclosure is more suitable for use than ambient air. The ambient air damper will be closed 100% and the return air damper will be open 100% allowing the hot aisle air to return to the AirMover cooling module for conditioning.

Hybrid

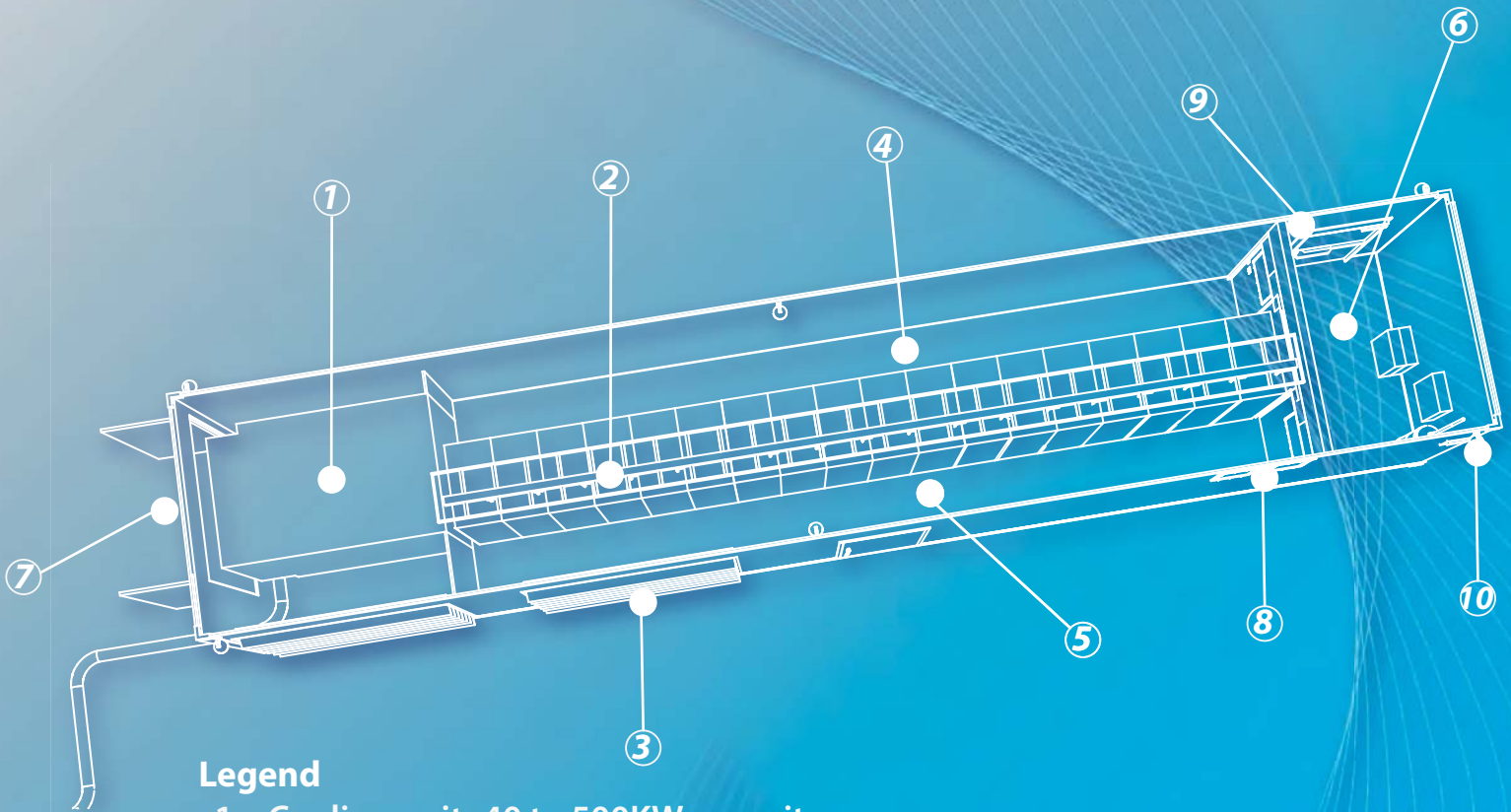
The ambient air temperature is more suitable for use than the return air temperature. This will be based on a temperature and humidity comparison of the outdoor and return air. The outdoor, exhaust and return air dampers and chilled water valve will modulate to maintain air temperature of the cold aisle. The VFD fans will change speed based on difference from temperature set point.

Economizer

Active when the ambient temperature is capable of maintaining the air temperature of the cold aisle without use of chilled water. The outdoor air damper, return air damper and bypass damper will be modulated to maintain air temp of cold aisle. The air mover fans will run continuously to deliver conditioned air to the cold aisle. The VFD on the fans will change speed based on difference from temperature set point.

Toll-free: 1-866-PVD-3329 Ext 102
sales@uspvd.com
www.uspvd.com

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Legend

- 1 - Cooling unit- 40 to 500KW capacity
- 2 - Track Busway
- 3 - Automated Louver and Damper
- 4 - Cold Aisle- 3 to 4 ft access
- 5 - Hot Aisle- 3 to 4 ft access
- 6 - Controls room
- 7- Maintenance Access- Secure from IT Area
- 8 - Multi 400A input- Mil Spec Connector Option
- 9 - Secure Entry- Key/HID/Bio options
- 10- Physical Surveillance- 360 pan/tilt, Thermal, Detection options

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Specifications	AirMover 40	AirMover 45	AirMover 53
Length	40 ft.	45 ft.	53 ft.
Width	10 ft.	10 ft.	10 ft.
Height	11 ft. max	11 ft. max	11 ft. max
Max Gross Enclosure Weight	67,200 lb	67,200 lb	72,800 lb
Capacity	500 KW	500 KW	500 KW
Cooling Technology	Chilled Water - Hot/Cold Aisle	Chilled Water - Hot/Cold Aisle	Chilled Water - Hot/Cold Aisle
Cooling Modes	Mechanical/Hybrid/Free	Mechanical/Hybrid/Free	Mechanical/Hybrid/Free
Flow Rate	280 GPM max.	280 GPM max.	280 GPM max.
Temperature	45F to 75F (Max Inlet)	45F to 75F (Max Inlet)	45F to 75F (Max Inlet)
Pipe Diameter	3 in	3 in	3 in
Airflow	35,000 CFM Max.	35,000 CFM Max.	35,000 CFM Max.
Free Cooling Automated Louver and Damper Controls	Yes	Yes	Yes
Free Cooling max	80F	80F	80F
Max number server racks	14	16	20
Rack Type	19" Industry Std. Full Depth	19" Industry Std. Full Depth	19" Industry Std. Full Depth
Available U space per rack	55U max	55U max	55U max
Total Supported rack space	770U max	880U max	1100U max
Support for 3rd party IT Equipment	Yes	Yes	Yes
Up to 4 x 400A busway	28 rack pdu	32 rack pdu	40rack pdu
Avg Power capacity to rack	35 KW	31.25 KW	25 KW
Rack Dimensions	23.5"W x 42"D x 96.25"H	23.5"W x 42"D x 96.25"H	23.5"W x 42"D x 96.25"H
Smoke Detection (Vesda)	Yes	Yes	Yes
Fire Suppression	Yes	Yes	Yes
Emergency Power Off (EPO) switch	Yes	Yes	Yes
Humidity Monitoring	Yes	Yes	Yes
Humidification Control	Yes	Yes	Yes
Environmental and Physical Monitoring and Controls	Yes	Yes	Yes
Data Entry Panel	Yes	Yes	Yes
Security	Key Lock/HID/BIO	Key Lock/HID/BIO	Key Lock/HID/BIO
Operating min-max temp	(-)25F to 130F	(-)25F to 130F	(-)25F to 130F
Operating humidity range	0-100%	0-100%	0-100%

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