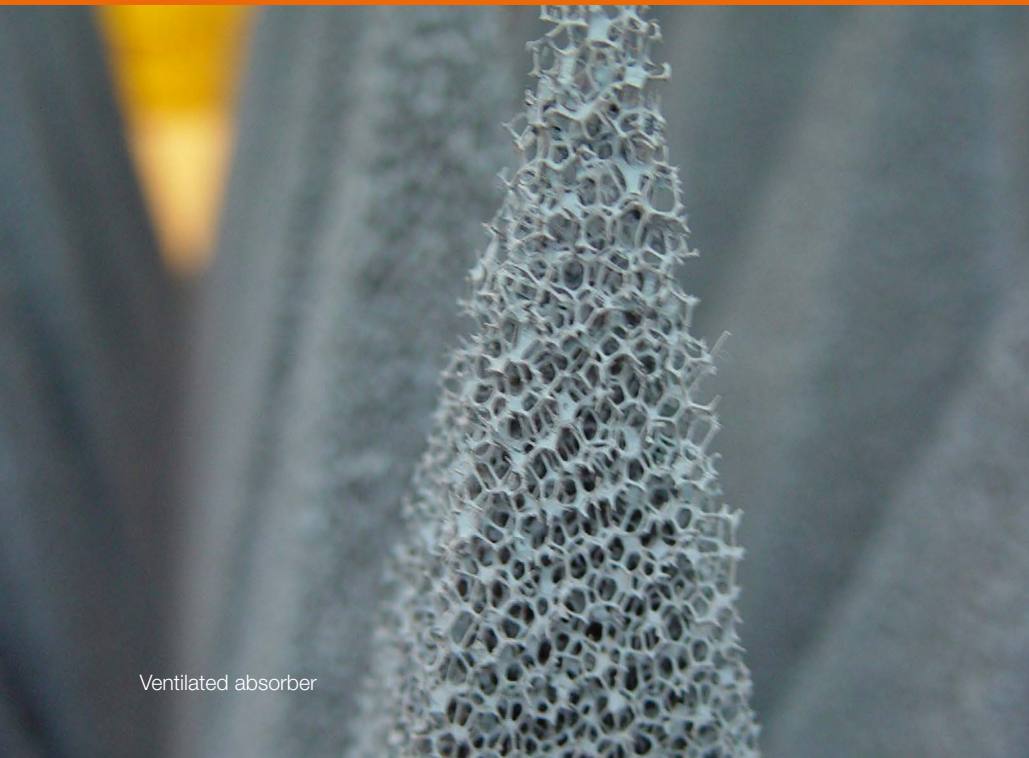


# Ventilated Absorbers - AEPV Series



Ventilated absorber

## SOLUTION FOR

- Chamber HVAC Systems
- Medium Power Applications
- NRL 8093 – 1, 2, 3
- ISO 11925-2
- DIN 4102-B2

## Main features

- Low Air Flow Resistance
- Open Cell Structure for Rapid Cooling

## Product configuration

### Shape

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- Pyramidal
- Wedge
- Flat

### Frequency band

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- From 125 MHz to 40 GHz

### Standard base size

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- 2' x 2' (60.96 cm x 60.96 cm)

### Height

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- 4" to 72" (10.2 cm to 121.9 cm)

### Operating conditions

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- Temperature: 70°F +/-5° (21°C +/-3°)
- Relative humidity: 55% RH +/-15%

### Indoor/outdoor

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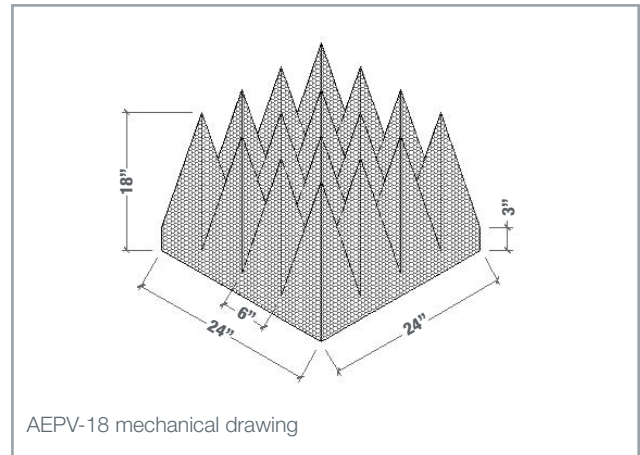
- Indoor

## Description

Ventilated absorbers are manufactured from special reticulated (open cell) foam. When used as a vent material, this product allows air to move freely.

## Medium Power Absorber Specifications

When the material is used as a medium power absorber, it can safely dissipate 2 W/in<sup>2</sup> CW with standard convection cooling. This is accomplished by the open cell characteristics of the reticulated foam, which increases the ability of the absorber to dissipate the heat generated by the absorption of the microwave energy. For higher power applications, the material must be force-cooled.



### ORDERING CODE

- AEPV-XX, where XX designates absorber height in inches

## Pressure Drop Specifications

HVAC professionals use pressure drop calculations to ensure adequate air flow for proper air turn-over within a chamber.

### Specifications

		AEPV-2	AEPV-4	AEPV-6	AEPV-8	AEPV-12	AEPV-18	AEPV-24	AEPV-36	AEPV-48
Height	in	2	4	6	8	12	18	24	36	48
	cm	5.1	10.2	15.2	20.3	30.5	45.7	61	91.4	121.9
Pyramids	per block	256	144	64	64	36	16	9	4	4
Absorption @ Normal Incidence	@ 125 MHz									28
	@ 250 MHz							30	32	35
	@ 500 MHz						30	35	37	40
	@ 1.0 GHz				30	35	37	40	45	45
	@ 3.0 GHz		30	33	37	40	45	45	50	50
	@ 6.0 GHz	20	35	37	45	45	50	50	50	50
	@ 10.0 GHz	30	40	40	50	50	50	50	50	50
	@ 15.0 GHz	30	45	50	50	50	50	50	50	50
	@ 18.0 GHz	35	50	50	50	50	50	50	50	50
	@ 40.0 GHz	35	50	50	50	50	50	50	50	50
Power*	Watt/in <sup>2</sup>	2	2	2	2	2	2	2	2	2
	Watt/m <sup>2</sup>	3100	3100	3100	3100	3100	3100	3100	3100	3100
Weight	lbs/pc.	1.2	2.5	3.5	4.5	6.5	8	11.5	16	22
	kg/pc.	0.5	1.1	1.6	2	2.9	3.6	5.2	7.3	10

\* Absorbing material can withstand higher power with forced air cooling



Contact your local sales representative for more information  
[www.mvg-world.com/absorbers](http://www.mvg-world.com/absorbers)  
[salesteam@mvg-world.com](mailto:salesteam@mvg-world.com)