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SOUNDPROOFING

AcoustiRACK™ ACTIVE

Product Data Sheet



AcoustiRACK™ ACTIVE noise cancelling rack utilizes Active Noise Control (ANC) to reduce noise pollution generated from IT equipment. Embedded ActiveSilencer™ Fans Trays (ASFT) dramatically reduces up to 30dBA broadband noise and ensures undisturbed air flow through the cabinet. Fits virtually all standard 19" equipment and accessories.

AcoustiRACK™ ACTIVE Benefits

A server room in a cabinet:

- Save on server room costs
- Use office space more effectively
- Easy, secure access

Quiet Work Environment:

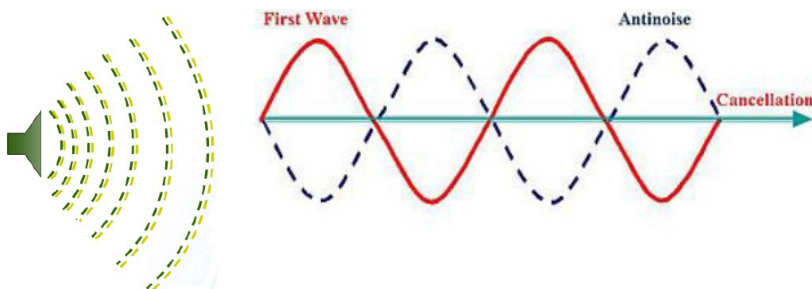
- Up to 30dBA equipment noise attenuation
- Active noise reduction technology
- Active heat dissipation:
- High capacity thermal solution up to 8KW
- Efficient airflow path

Advanced Mechanical Design:

- Glass Door - Visibility of equipment and lead alerts
- Protects equipment from dust
- Generic Solution for all vendors
- High quality, reliable Technology

ANC - How it Works:

Active noise control (ANC), is a method for reducing unwanted sound by the addition of a second sound specifically designed to cancel the first. A noise-cancellation speaker emits a sound wave with the same amplitude but with inverted phase to the original sound. The waves combine to form a new wave and effectively cancel each other out, See diagram below.



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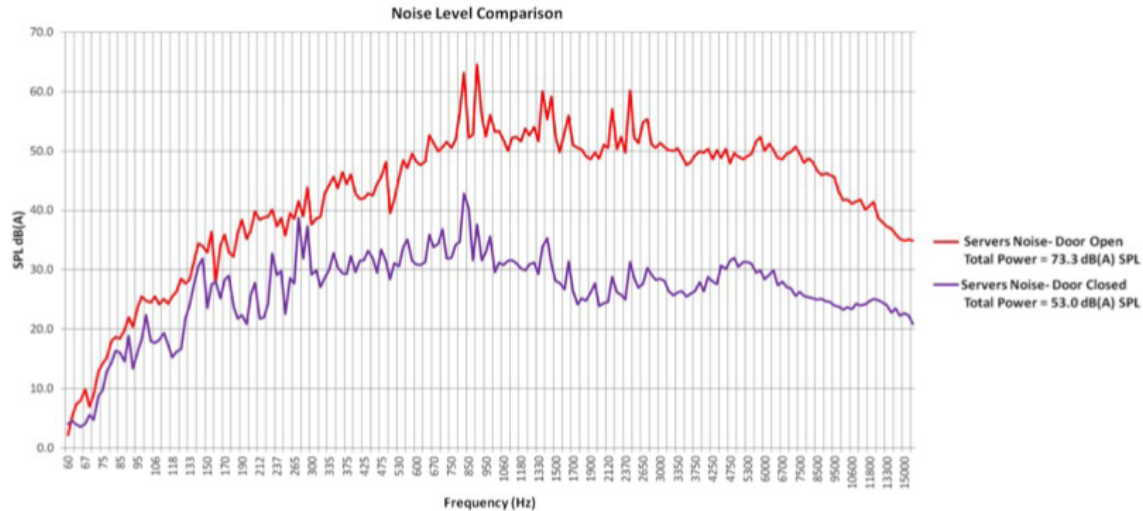


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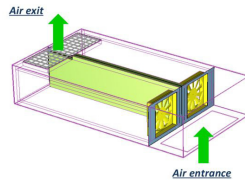
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AcoustiRACK ACTIVE Noise Reduction:



ASFT™ (Active Silencer Fans Trays) Technology:



The Active Silencer Fan Tray™ (ASFT™) is a fan drawer, designed for assisting ventilation by forcing air into and out of an enclosure, while preventing noise from escaping. The unit is lined with acoustic material and equipped with Silentium's proprietary noise-cancelling technology which

is highly effective in reducing low-frequency noise. When combined with unique high quality acoustic materials this product achieves unprecedented spatial noise reduction over the entire frequency bandwidth of the audible spectrum.

- Up to 30dB(A) broadband noise reduction
- Two dustproof fans (each 24VDC).
- 360 CFM per fan in free air, cumulative airflow is approximately 650CFM
- Significantly reduce the fan motor in approximately 20dBA & installed equipment noise in approximately 30dBA
- Anti-vibration soft fan gasket
- Thermocouple fan speed control - the ASFT™ provides the customer with airflow control
- Dimensions: 4U, 830 L x 445 W mm (2.72 L x 1.46 W Ft)
- Gross Weight: 24Kg (52.9 Lb)
- PSU: 24v, 220W
- Input Socket: DC Connector
- CE, FCC Compliance

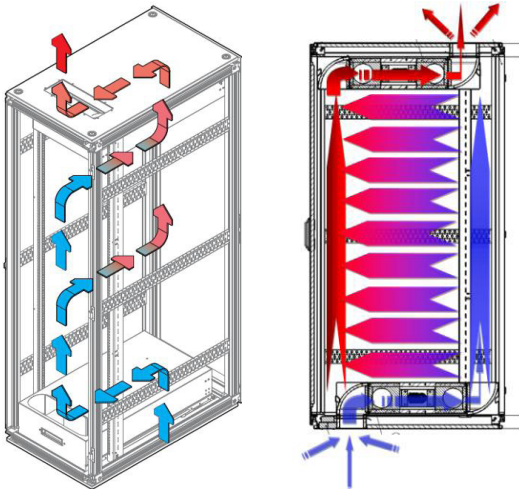
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AcoustiRACK™ ACTIVE Airflow Characteristics:

The ARA™ airflow design considerations were made to enable maximum noise reduction by using hybrid means. Simultaneously, the chance of inflicting damage to enclosed equipment is reduced by preventing hotspot and dissipating maximum heat under the constraint of keeping minimum total cost of the rack ownership.



Cool air is suctioned in through a fan tray at the bottom of the ARA™. The air is directed to the front of the unit, whereas a cool wall of air is formed and then flows through the equipment to the rear of the cabinet. The newly warm air is emitted out of the front of the cabinet through a second fan tray positioned at the top. This keeps a continuous flow of fresh air through the ARA™ cabinet. The advantages of this design allow the user to place the rack close to a wall, provides high flexibility and saves valuable space.

AcoustiRACK™ ACTIVE Applications:

