ACOUSTIRACK™
ACTIVE (ARA™)
IS A SOUNDPROOF, CABINET
Noise Pollution: It Harms Your Health and Hearing

- **CARDIO VASCULAR DISEASE (CVD)**
  - could the ear be a window to the heart? Hearing loss and CVD link

- **DEPRESSION**
  - Symptoms go down, quality of life goes up with hearing aid use

- **ALZHEIMER’S & DEMENTIA**
  - Dementia risk may be up to 5X higher with hearing loss

- **LACK IN INNOVATION IDEA**

- **Healthy and Quiet Environment is required for human PRODUCTIVITY AND CREATIVE THINKING**

- **HOSPITALIZATION**
  - 32% more likely for older adults with hearing loss

**Bicsi**
Definitions

Sound power or acoustic power is the rate at which sound energy is emitted, reflected, transmitted or received, per unit time.

Sound pressure or acoustic pressure is the local pressure deviation from the ambient atmospheric pressure, caused by a sound wave.

An anechoic chamber is a room designed to completely absorb reflections of either sound or electromagnetic wave.
Advantages By Eliminating The Noise

- Gain the competitive edge – Offer your products without noise
- Improve productivity - Employees work better due to a quieter, less stressful environment
- Green your IT - Eliminate noise pollution and consume less energy
- Instant ROI - Heat dissipation of up to 8 KW allows you to reset the thermostat to a normal level, dramatically reducing your electric bill.
- Extends the life of your equipment – Constant temperature maintenance prevents machine burnout
How to Eliminate the Noise of IT Equipment's and What Is AcoustiRack Active?

- IP 50 Rack Lined with Special Acoustic material
- 2 Nos. ASFT (Active Silencer Fan Tray) for air Circulation with Active Noise Cancellation
- Other accessories as per Customer Requirement

AcoustiRack
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.

The Active Silencer Fan Tray (ASFT) reduces the auxiliary fans noise and the left installed equipment noise to the surrounding noise level.
The Solution: AcoustiRACK™ ACTIVE

Noise Canceling Rack
- The ONLY solution utilizing ANC
- Embedded Active Noise Control
- Active Silencer™ Fans Trays ASFT™
ASFT™ - TECHNICAL DETAILS

- Up to 30dB(A) broadband noise reduction
- Two dustproof fans (each 24VDC).
- 360 CFM per fan in free air, cumulative airflow is approx. 650CFM
- Significantly reduce the fan motor in approx. 20dBA & installed equipment noise in approx. 30dBA
- Anti-vibration soft fan gasket
- Thermocouple fan speed control - the ASFT™ provides the customer with flexible airflow control

Specifications:
- CE, FCC compliance
- Input Socket: DC Connector
- PSU: 24v, 220W
- Gross Weight: 24Kg
- Dimensions: 4U, 830(L)x445x(W)mm
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Typical Test Reading of ANC Sound Power Level (SWL)

- Standard Rack - Sound Power = 74.3 dB(A) SWL
- AcoustiRack™ - Sound Power = 56.3 dB(A) SWL
**Upgraded product Air Flow**

- **Undisturbed air flow**
  - No impact on original server heat dissipation capabilities
- **Inlet air flow through dust filters**
- **Design to prevent hotspot within the rack**
Thermal Control

- Undisturbed air flow
- No impact on original server heat dissipation capabilities
- Inlet air flow through dust filters
- Design to prevent hotspot within the rack
Question Answer Time…