

# European EMC Products Ltd

SOUND MASKING



**Designers, Suppliers & Installers of Sound Masking and Eavesdropping Protection Systems Worldwide for Healthcare, Military & Defence, Financial & Corporate Business Sectors and General Business Office Areas**

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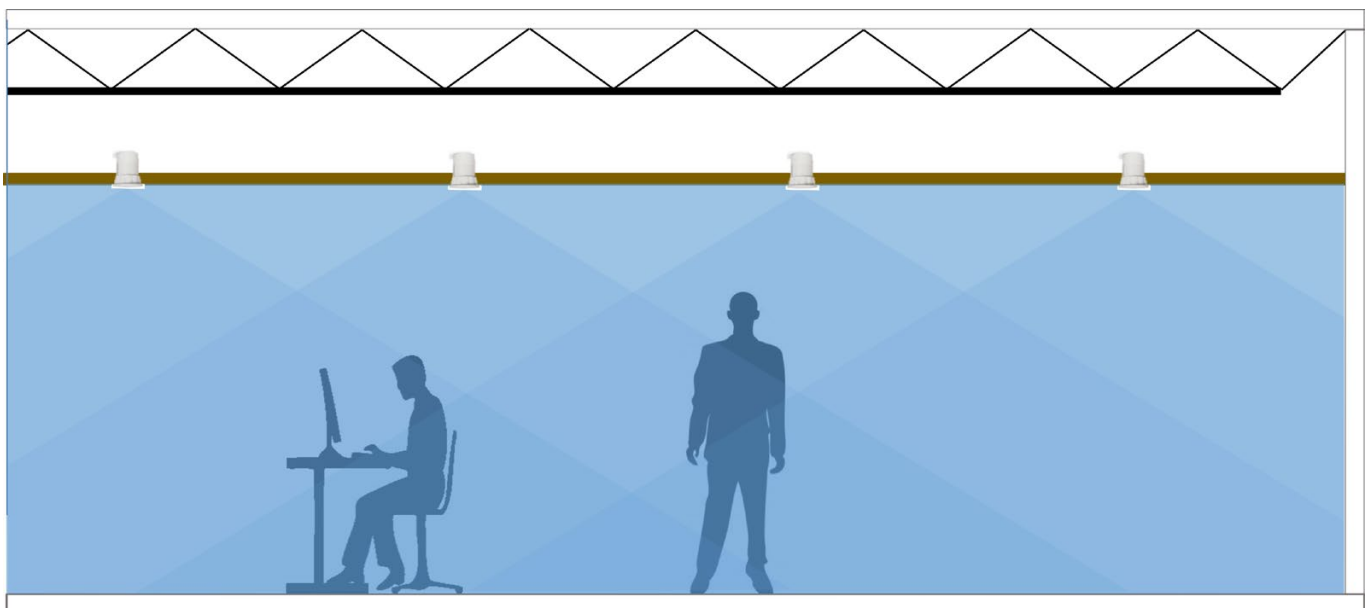
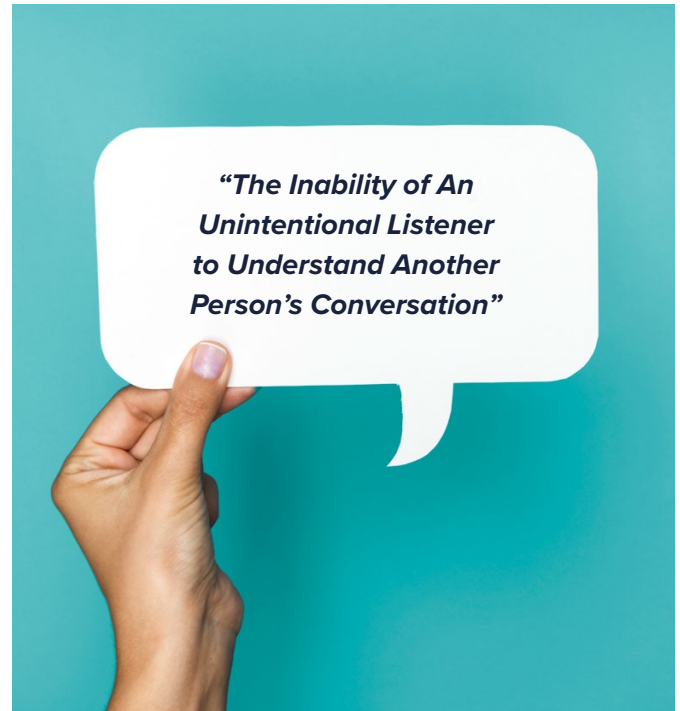


## SOUND MASKING

European EMC Products Ltd (EEP) design, supply and install sound masking and eavesdropping protection systems. Our systems are globally supported and comply with all relevant standards.

Sound masking is the addition of a specifically tailored low level electronic sound to an environment and is effective when placed at the unintentional listener location to lower the level of speech intelligibility. Masking is deployed using the latest technology from Cambridge Sound Management Masking Systems and can be installed in new build construction or retrofit projects.

Sound masking systems for speech privacy and white noise are widely deployed in the Healthcare, Financial & Corporate sectors and general office areas. It can include office paging and background music solutions into the functionality of the product to minimise office distractions.



Eavesdropping protection solutions for secure rooms within the Military and Defence sectors are regularly used to protect intellectual property, mission-critical conversations, and national security. The eavesdropping protection systems are designed to prevent deliberate and intentional attempts to intercept private and confidential conversations. When viewed as a six sided enclosure the breach points of most rooms can be easily identified. Windows are vulnerable to laser listening devices, ductwork can easily channel sound to adjacent areas and doors form an obvious weak point. Sound transmission through utility penetrations, access floor cavities and above suspended ceilings can create a lack of confidential privacy. All these areas can be effectively masked using specific products.

# WHY DO YOU NEED SOUND MASKING?

- Reducing Noise Distraction.
- With Sound Masking installed, conversation becomes less intelligible to others.
- Protecting speech privacy & increasing environmental acoustic comfort.
- Private and sensitive conversations should remain private. Sound Masking will increase speech privacy.
- Improve workplace productivity.

## 3 ELEMENTS OF EFFECTIVE ACOUSTIC DESIGN



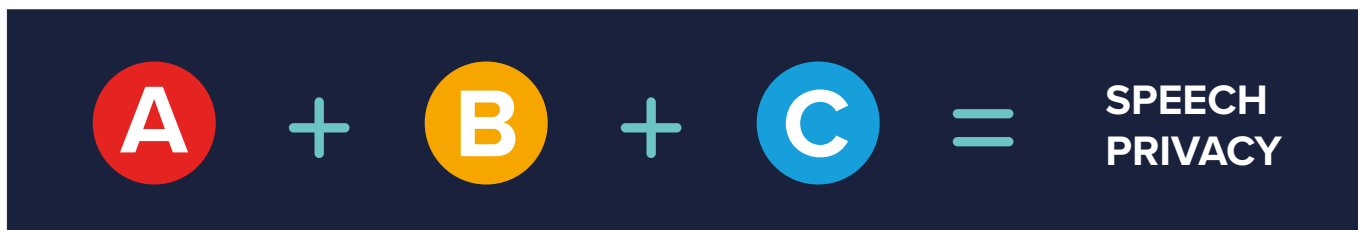
Absorb  
i.e. acoustic ceiling tiles,  
acoustic wall panels



Block  
i.e. cubicle  
partitions, walls



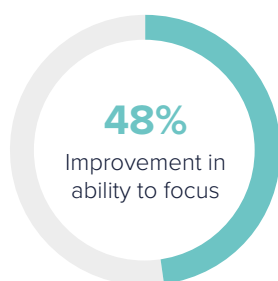
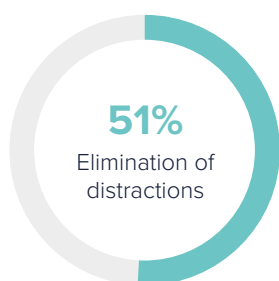
Cover  
i.e. background sound,  
sound masking



## 3 ELEMENTS OF EFFECTIVE ACOUSTIC DESIGN

Sound masking is achieved by creating an ambient sound. This is done by placing a network of emitters in the ceiling of the environment. The emitters put out an ambient sound which increases the decibel level of the background sound in the desired area. This makes the peaks in noise from another conversation harder to discern at a distance, and harder to notice and overhear or understand another conversation across a room.

## HOW IT HELPS YOU



\*Productivity: Impacts of Ambient Noise, Speech Privacy & Acoustical Conditions on Worker Performance

– David M. Sykes PhD, IAPP, HFES

# WHAT EQUIPMENT IS REQUIRED?

## SOUND MASKING PROCESSOR

A Cambridge Qt® X Sound Masking processor will be required to control the attached emitters. The model of controller will be selected dependent upon the quantity of emitter and areas to mask. 1 Zone, 3 Zone, and 6 Zone processors available.



## SOUND MASKING EMITTERS

For direct field Sound Masking emitters are placed equally around the environment into the ceiling. We offer standard Qt® Sound Masking Emitters or Qt® Active Emitters. The advantage of choosing the Qt® Active Emitters is that they can also incorporate Paging & Background Music to applications.



## AUXILIARY EQUIPMENT

A separate power supply and power injector is required when using Qt® Active Emitters.

### PI-AE Power Injector

- Supports Up to 50 Qt® Active Emitters.
- A power injector is required for each zone.

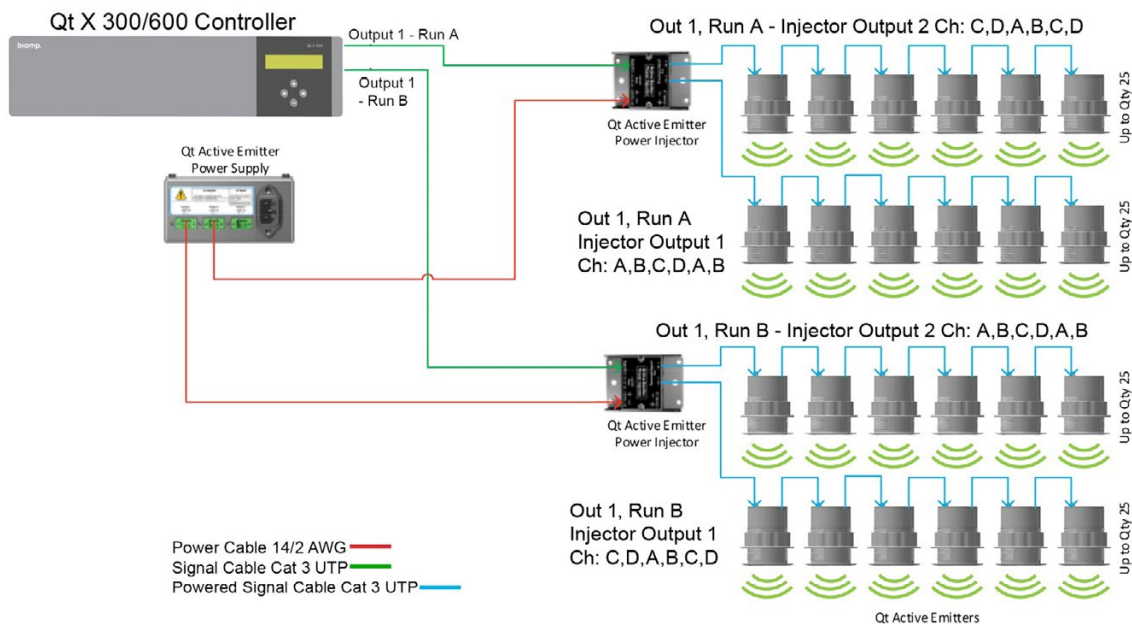


### PS-AE-3 Power Supply

- Supports 150 Qt® Active Emitters.
- 3 Output ports for power connection to PI-AE.
- 120VAC / 240VAC Operation.



**Plenum and Under Floor Sound Masking Options also available upon request.**



## INSTALLATION & COMMISSIONING

Each project is designed by EEP receiving drawings of building layout, building material details and the customers requirements to achieve uniform speech privacy across the selected areas.



## TESTING & COMMISSIONING

Following installation, each system will be tuned in accordance with Biamp/Cambridge sound guidelines. All installations will then be tested using the latest technology in sound control test equipment.

## ADVANTAGES OF WORKING WITH EEP FOR YOUR SOUND MASKING EQUIPMENT

- In-house team of design engineers.
- Installation of the world's largest sound masking manufacturer.
- The most effective and uniform system.
- Installer friendly products, perfect for new construction or retrofits.
- Direct-field, in-plenum, and underfloor sound masking technology.
- All in one sound masking, office paging, and background music solutions. (Active Emitters only)
- Products, Installation and support available worldwide.



Processors



Sound Masking Emitters



Power Supply



Power Injector



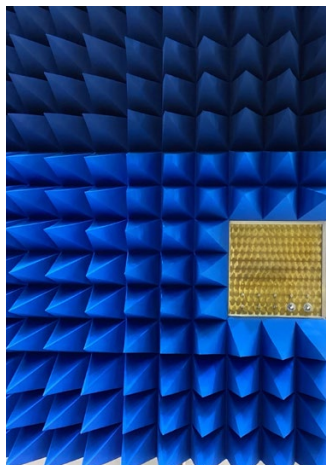
# About Us

Established in 1996, European EMC Products Ltd (EEP) are an established British company whose experience and understanding of the science of shielding makes it an ideal partner in whom you can place your trust with confidence.

The purpose of installing EEP shielding systems is to protect people and equipment against the threats posed by electromagnetic and radio frequency (RF) interference, radiation, magnetic fields and electromagnetic pulses. Our diverse range of turnkey products and services, including design, installation, project management, testing and consultancy are delivered across multiple sectors to an international client base.



Security Doors



Anechoic Chambers



MRI Rooms



EMP Power Filters

European EMC Products Limited are registered to BS EN ISO 9001:2015, Certificate Number FS38901. Registered Scope: The design, assembly, installation, servicing and testing of RF Shielded Structures and equipment including EMI Shielding, Blast Doors, Gas Tight Doors and specialised mobile Electromagnetic Pulse Protection (EMPP) containers. Radio Frequency, Magnetic Shielding and Quench systems for MRI (Magnetic Resonance Imaging) scanners. The design, assembly and installation of Ionising Radiation Protection facilities. The design, manufacture and installation of LED lighting systems for medical applications. European EMC Products Ltd can design, supply & install sound masking and eavesdropping protection systems that comply with all relevant standards. EEP Filters Limited are registered to BS EN ISO 9001:2015, Certificate Number FS38901. Registered Scope: The design, manufacture, management of installation and testing of high performance EMC and EMP Power and Data Line Filters.

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