



Benefits of the LogiSon[®] Sound Masking System in application

The award-winning LogiSon Sound Masking System performs to the highest standard of sound masking and noise control.

Environmental impact

The built environment can have a substantial impact on the natural environment, as well as on a company's bottom line. Early incorporation of the LogiSon Acoustic Network in a project can have several advantages.

In application

When the Network is included in the facility design from the outset, the need for extra insulation or layers of drywall, plenum barriers, and high-spec or permanent walls around private offices is reduced or eliminated. Fewer slab-to-slab walls mean reduced HVAC zone requirements and a less interrupted ceiling grid. Savings include lower initial ceiling costs, lowered costs in future office moves as the ceiling grid does not need to be revised when partition walls are removed, and lowered costs when leasing because the ceiling does not need to be returned to standard before the new tenant occupies the space.

Because the LogiSon network reduces construction requirements, it also decreases the amount of waste produced during facility reconfiguration. Less construction waste, such as gypsum wallboard, rigid fibre panels, stud tracking, insulation and transfer ducts, and other components used in conventional construction, end up in landfill sites.

The LogiSon Network also helps to maintain the flexibility of the space for future renovations and changes, increasing the ability to occupy the same facility for a longer period of time. In open plan spaces, masking can help maintain a level of acoustical control as density increases and workstation partitions become lower. Facilities with natural ventilation often have noise problems due to the absence of any sound from forced-air ventilation systems. The LogiSon Network can enable the use of this type of ventilation while maintaining an effective acoustic environment.



Advantages include

- Increased speech privacy
- Reduced noise disruptions
- Improved concentration
- Increased productivity
- Enhanced facility flexibility
- Simultaneous paging and music distribution
- Reduced construction and furniture system costs

Disadvantages

- A slight incremental increase in the cost of the facility

Often, a building's most significant impact is its energy consumption. The LogiSon Network has low energy requirements. Running an installation of approximately 13,500ft² uses as little energy as a light bulb.

In manufacture

The LogiSon Network includes recyclable plenum-rated enclosures, ROHS compliant lead-free components and formaldehyde-free damping materials. An industry-first recycling program ensures zero landfill. Product packaging is made from 100% recycled content, at least 95% post-consumer.



Appropriate and inappropriate applications

The LogiSon Acoustic Network has been installed in commercial, financial, government, medical, institutional, educational, library, hospitality, military and judicial facilities ranging in size from hundreds to millions of square feet.

Sound masking is not suitable for outdoor use and it would probably be difficult to properly distribute the sound in such a setting. Physical barriers can be constructed, but may have a limited impact depending upon the type of noise that needs to be addressed. Landscape designers recommend using water features, such as small fountains, to distract listeners.

Sound masking is not an appropriate solution for industrial noise problems. Masking is intended to solve noise problems arising from insufficient background sound levels. Industrial environments typically have very high background and average sound levels; therefore, introducing the masking at acceptable levels will not have any impact. Absorption and physical barriers should be considered as methods of controlling noise in these environments.

Sound masking can only be used in very limited restaurant applications. To be effective, the restaurant must exhibit characteristics that

are similar to a typical open office environment; for example, there should be sufficient absorptive materials, low background sound levels, and a concern with speech privacy, such as in airport lounges or members clubs. Most restaurants feature high average sound levels and reverberation; therefore, we generally recommend adding absorptive materials to the space. Attractive absorptive panels, featuring custom fabric or artwork, are now readily available.

As a general rule, school classrooms would not benefit from the installation of a sound masking system because it would further decrease students' ability to hear their teacher. However, sound masking is an effective acoustic treatment in other areas of the educational facility that require both noise control and speech privacy, such as administrative and counselling offices, staff rooms, libraries, computer and health centres, research laboratories, student unions and residential halls.

Life cycle costs

- The LogiSon Network has a long life-span and can easily be expanded or relocated to new premises.
- Its energy requirements are very low.

Long term maintenance

A sound masking system's quality and durability depend on its ability to adapt to changes as much as on its material construction.

Central control of all settings from the Network Control Panel, PC or handheld computer facilitates future adjustments, keeps planning time and disruptions to a minimum, and greatly enhances the LogiSon Acoustic Network's ability to continue to perform at peak levels following organisational or structural changes. It is covered by a 5 year warranty.