

FORTY SERIES

The brand new FORTY SERIES by Peecker Sound oriented to the fixed installation market has recently been made available on the occasion of the forty years anniversary of Sound Corporation.

The FORTY series consists of an extremely compact 2-way loudspeaker system made in birch plywood. 7 models are available, namely 5 both passive and self-powered loudspeakers mounting onboard switching amplifiers.

Electroacoustic design

Construction wise, the optimised shapes of the cabinets minimise the stationary waves inside the loudspeaker and facilitate use of side by side systems. Each part of the cabinet has been additionally reinforced to minimise internal structural vibrations.

The choice of the components has been made aiming easy handling of the loudspeaker and extreme sound quality:

- tweeters made with aluminium coils and Mylar membrane to guarantee an excellent balance of the mid-range/high frequencies;
- effective A.Q.M.[®] (High Quality Music) protections of the tweeter that prevent drastic signal peak clippings for a perfect control of transient response;
- A.W.S.[®] (Acoustic Wave Shaped) aluminium horn designed to completely rephrase the acoustic wave guide with respect to the woofer. The directivity of the loudspeakers of the FORTY series is perfectly controlled thanks to a special horn loading of the high frequency selection. The frequency response remains constant in relation to the offset angles, ensuring even coverage of the audience area.
- highly reliable and lightweight neodymium woofer;

Ergonomic dimensions of FORTY SERIES loudspeakers make them easy to transport; an accurate fixing and double inclination "pull mount" system allow a flexible installation. Evidence of attention to detail is given by the choice of the 15 tenths anti-breaking grid with 70% transparency providing absolute purity of sound.

The subwoofers are 'band-pass' type in which loudspeaker radiation is not direct but through two resonating cavities, one at the front and one at the back. This means that we have a reproduction only of the low frequencies with maximum efficiency without interfering with the other components of the system. Thanks to the particular configuration, the loudspeaker membrane is subject to far less movement compared to traditional reflex systems, consequently there is a huge reduction in distortion even at maximum power.

Acoustic Tuning

Peecker Sound knows how to make a loudspeaker sound for create feelings and transmit energy. FORTY SERIES loudspeakers have powerful sonority in ultra-low, low and high frequencies and smooth mid-range

frequencies in order to achieve high efficiency and equilibrated rendering all across the audio spectre. Factory settings make self-powered speaker reaching their top performances, and available presets allow for guaranteeing the same optimality also using passive loudspeakers and Peecker Sound amplifiers and processors.



Onboard Switching Technology

Peecker Sound switching amplifiers perform a clean and fast amplification that does not compromise the high efficiency of class D. and present an extremely efficient lightweight power supply to partner the amplifier stage.

The design has been evolved in harmony with the amplifier section and therefore achieves an optimum match between the two stages, saving significant space. This holistic approach also yields some important performance benefits such as the elimination of potential sources of noise and distortion. It is also provided the intelligent detection of the mains supply voltage, which means that the module is suitable for global operation without requiring any reconfiguration.

Comprehensive amplifier protection systems continuously monitor all aspects of performance to ensure that the amplifier and the drivers are always working within their safe operating areas.

Applications

FORTY SERIES loudspeakers find their natural applications to support any situations in which power and sound quality are needed, as in :

- ✓ Fixed installations
- ✓ Dance Halls, Clubs, Music Pubs, Lounge Bars
- ✓ Fairs, Festivals, Shows, Events
- ✓ Congress and multipurpose centres
- ✓ Small and Medium PA systems