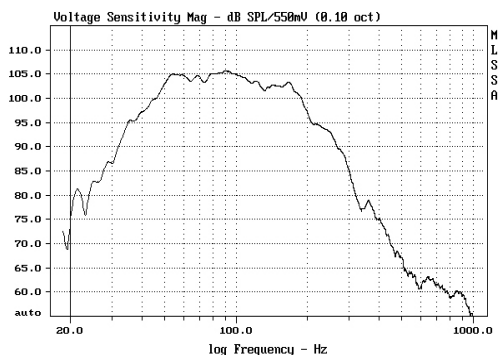




H1024 frequency response

Low frequency system – compact hybrid (horn/bass reflex) design - passive

Designed to extend the low frequency range of medium throw full range and mid-high frequency loudspeaker systems.

Frequency range	+/- 3 dB from 43 – 190 Hz -6 dB from 30 – 200 Hz
Sensitivity	100 dB ref. 20 μ Pa / 2.83 Vrms / 1m
Acoustical system output	continuous: 133 dB at 1 m / peak: 143 dB at 1 m
Nominal dispersion	- 6 dB: not applicable - 10 dB: not applicable
Nominal impedance	8 Ω
Long-term power handling	program: 2000 W – RMS: 1000 W
Recommended amplification	2000 W
Recommended crossover frequency	< 200 Hz - 24 Oct./dB - Linkwitz-Riley
Connectors	2 x 4-pole male Neutrik Speakon® (+1/-1)
Enclosure dimensions w/o feet	width: 50 cm - height: 75 cm - depth: 75 cm
Enclosure construction	reinforced 15 mm multilayer Finnish birch plywood - dado joint technique
Components	1 x 24 inch cone transducer with 160 mm voice coil
Components protection	water repellent acoustic foam attached on octagonal perforated aluminium grid with hook-and-pile-fastener
Colour	black semi-matt – other colours available on request
Weight	net: 71 Kg shipping: 74 Kg
Carriage support	two recessed steel bar handles
Rigging	not applicable
Accessories	CVR LF HR1024 – weatherproof cover SC 100 – swivel castor 100 mm FC 100 – fixed castor 100 mm SCB 100 – swivel castor with brake 100 mm

DESCRIPTION

The hybrid low frequency system LF HR1024 combines the advantages of a vented with a horn system at very compact dimensions. The system is designed to extend the low frequency range of medium throw full range or mid-high frequency loudspeaker systems.

The system is based on a 24 inch low frequency driver integrated in a vented cabinet and loaded with a short horn on the front side. This system matches thanks to the size and the linear excursion of its diaphragm at least the performance of two 18" bass reflex systems. Two large vents assure that no audible distortions occur due to turbulences at high levels. The enforced enclosure is manufactured with 15 mm Finnish birch plywood glued together in conjunction with dado joints to assure the highest quality of robustness. The driver is protected by an aluminium grid with octagonal holes, designed for maximal strength and acoustical transparency. The removable foam attached to the grid protects the system from splash water and dust. The black textured semi-matt paint makes the enclosure water repellent. Two Speakon® male connectors assure reliable electrical connections and the possibility to feed the signal through the system. The flush embedded top hat on the top side of the cabinet can be used to mount a tripod for mid-high frequency loudspeakers. Two large recessed steel bar handles and wheels mounted on the rear panel assure comfortable carriage.

APPLICATIONS

The LF HR1024 finds its application in systems for:

- distributed sound reproduction: e.g. clubs and dance halls, sport venues, fashion shows
- sound reinforcement: concerts, operas, musicals, circuses, houses of worship

COMPLEMENTARY AND RELATED PRODUCTS

Following complementary full range and mid-high frequency loudspeaker systems are recommended for a well-balanced sound sensation:

- full range systems: FR R1012
- mid-high frequency horn systems: MH H2010 and MH H1010
- line arrays: LA 2005 SP and LA 2005
- amplifier: AMP 2000

Related products:

- low frequency systems / horn: LF H1024 and LF H1021
- low frequency systems / vented: LF R1018