

MACH CN12



KEY FEATURES

- Horizontal and vertical flying
- Speakon terminal with link option and barrier strip terminals
- 19mm MDF cabinet
- 3mm extruded aluminum profiles
- Thermal protection of the tweeter
- 12" woofer
- 6" midrange
- 1" horn tweeter

DESCRIPTION

The CN12 is a 3-way speaker system designed for mid- and near-field use in small and medium-sized venues. The acoustic design has been optimized for monitor-like sound at high SPL. The very compact size of the enclosure makes the CN12 particularly suitable for high output venues with low overhead fixing points. The trapezoidal shape of the cabinets requires minimal space when flown horizontally. The CN12 can operate in full-range mode, but the ideal application is in combination with a subwoofer below 100 Hz. It features a 12" low-mid unit with a 3" voice coil with excellent clarity and speed. The 6" unit enables the CN12 to handle critical program material with excellent clarity and detail. A 1" dome tweeter with phaseplug is used as a HF unit. The cabinet is made of Medium Density Fibre with very high inner damping and excellent surface finish. The black aluminum profiles and the tough moisture resistant steel grille underline the stylish yet rugged design of the CN12. The speaker is available in black as standard with any RAL code color choice as optional.

SPECIFICATIONS

Power rating IEC268:	320 watt
Power rating peak:	1280 watt
Sensitivity 1w/1m:	97 dB
Max SPL, calc. long term:	122 dB
Max SPL, peak:	128 dB
Frequency response +/-3dB:	72 Hz-18 kHz
Dispersion angle:	100 x 65 degrees
Nominal impedance:	8 ohm
Recommended High Pass filter:	100 Hz (24 dB/octave)
Recommended amplifier:	450 watt in 8 ohm

Weight & Measurements:

Dimensions (HxWxD):	62x43x35 cm (24.4x17x13.8 inches)
Net weight:	26.5 kg (58.4 lbs)
Finish:	Black SafeCoat coating with other colors optional
Grille:	2 mm steel with foam backing
Input connectors:	2 x Speakon® NL4 and barrier strip terminals
Rigging hardware:	Included eyebolts and U-bracket

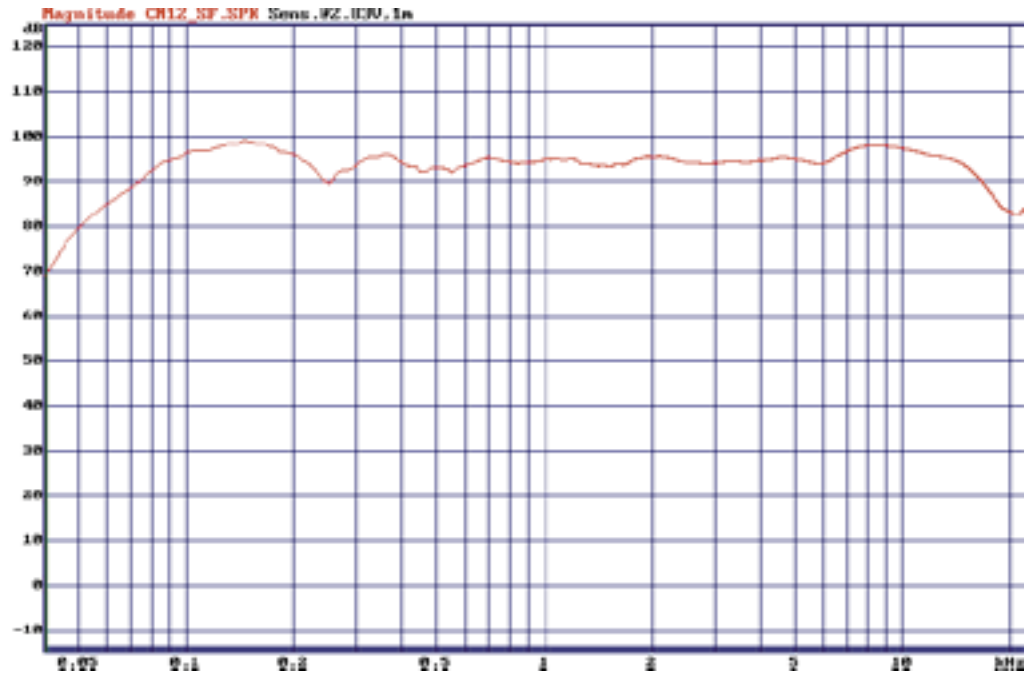
ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a three-way reflex loaded top-box with an IEC268 power handling of 320 watt and a frequency response from 72 Hz-18 kHz with crossover frequencies at xx kHz. The loudspeaker system shall have a sensitivity of 97 dB and a maximum output of 128 dB. The loudspeaker system shall also have a 12" low mid unit and a 1" horn tweeter. The loudspeaker shall also have 18 flying points protected with the SafeCoat surface. The speaker shall be constructed of 19mm Medium Density Fibre, built around an aluminum profile, trapezoidal in shape with a 15 degree angle and shall be 62cm (24.4in) high, 43 cm (17in) wide and 35 cm (13.8in) deep with a weight of 26.5 kg (58.4 lbs). The loudspeaker system shall be the Mach CN12.

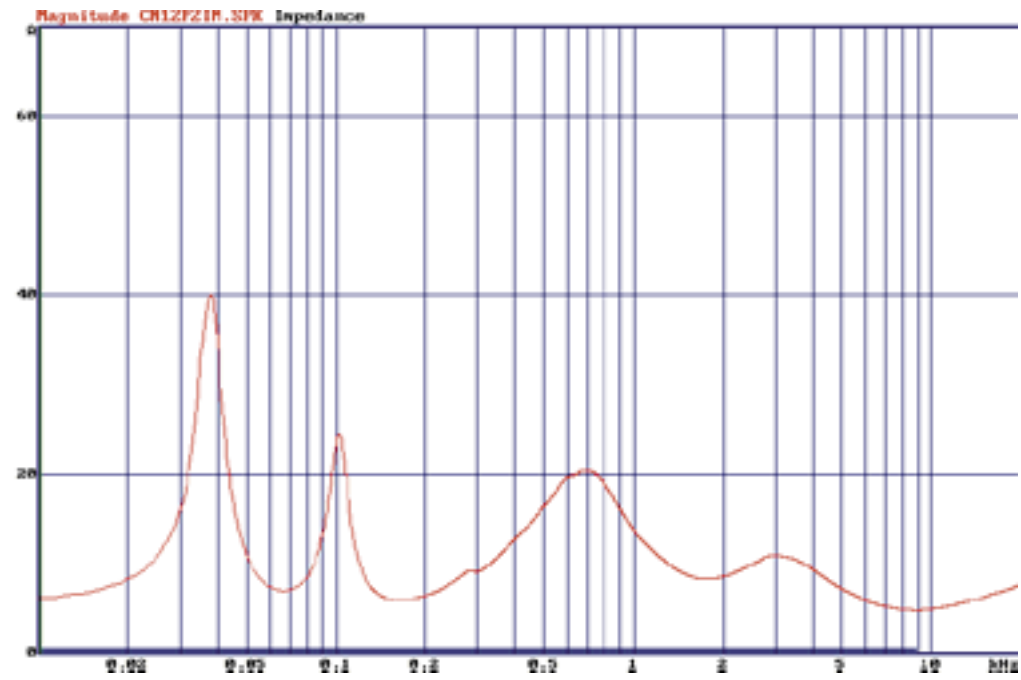
NOTE: Mach is continually working on research and production improvements, which can be introduced into existing products without notice. The products will always equal or exceed the original design specifications unless otherwise stated.

MACH CN12

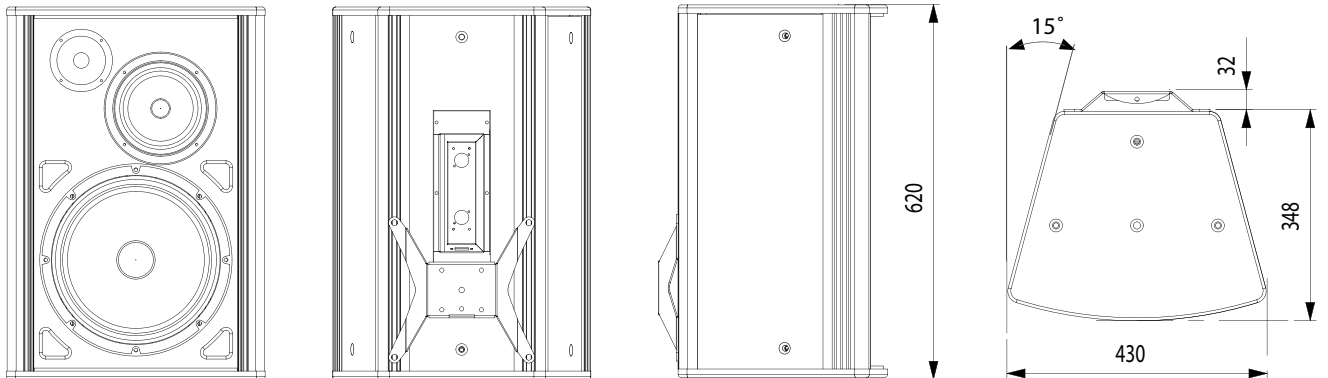
Frequency Response



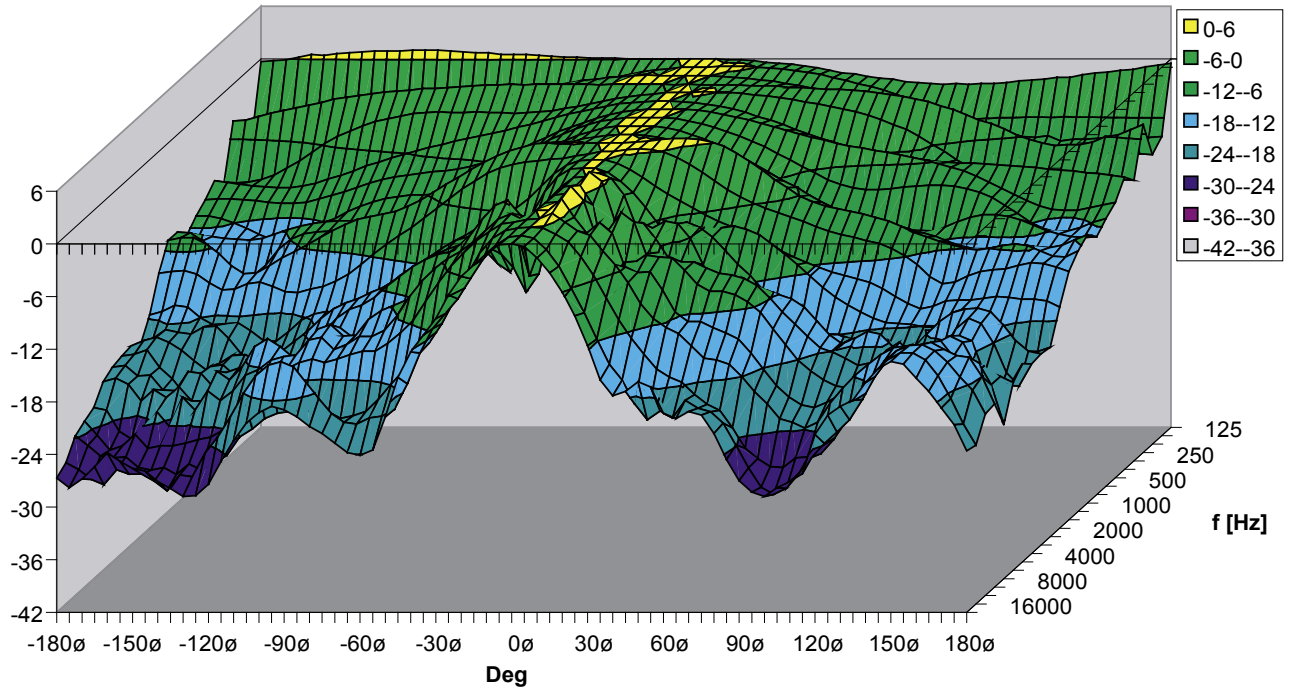
Impedance Response



Size and Shape

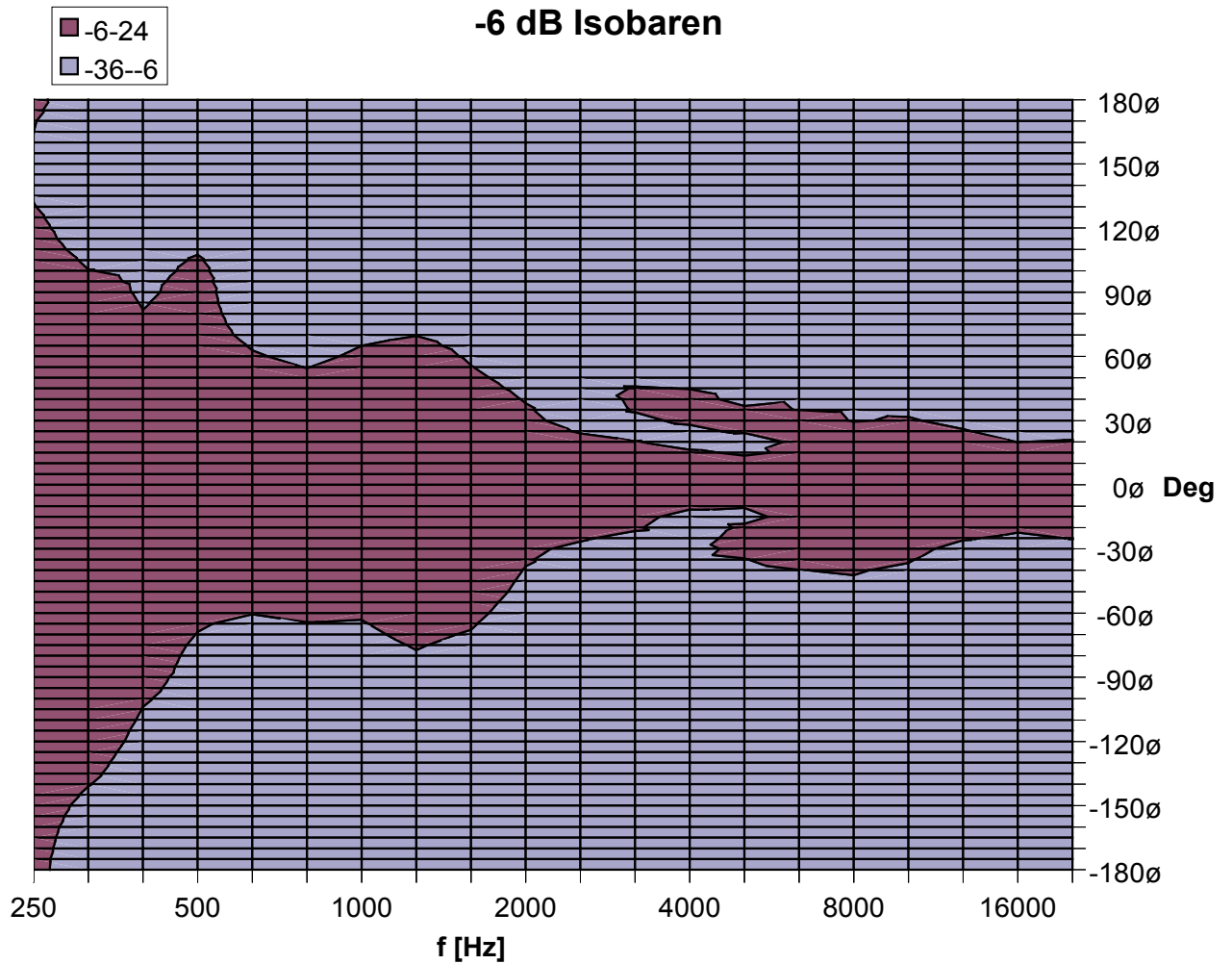


3D Directivity Plot

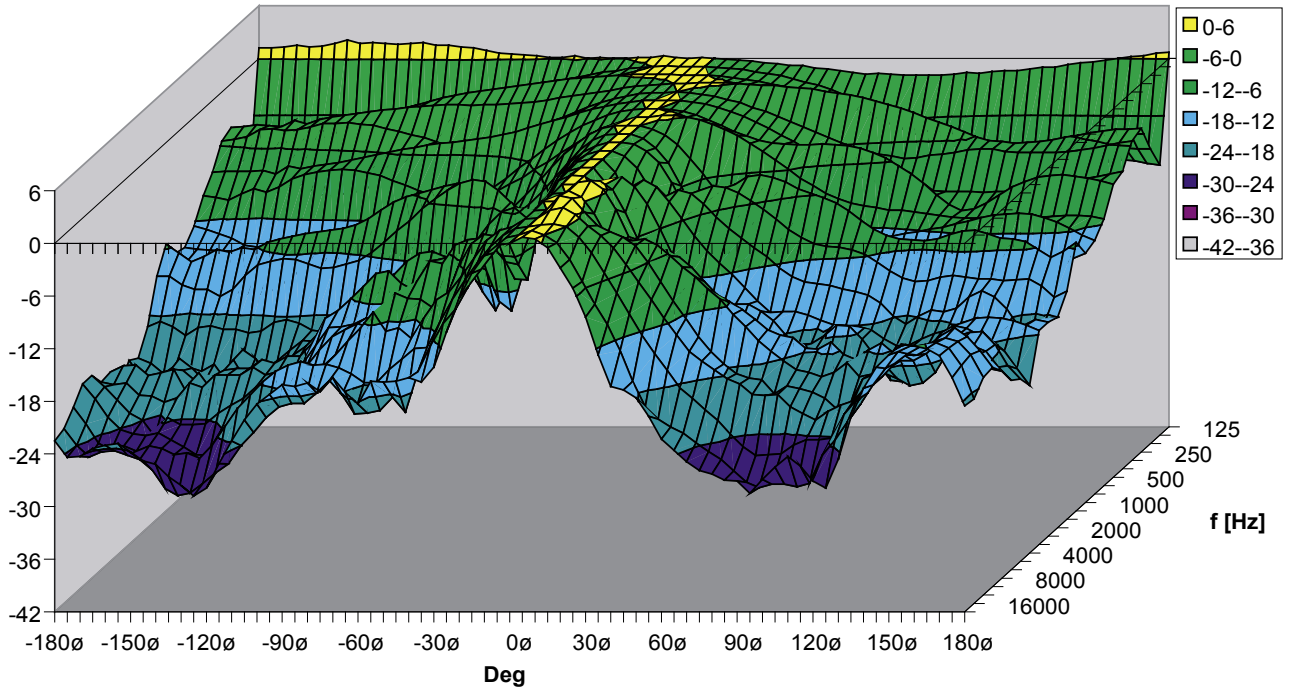


-6 dB Isobar Horizontal

-6 dB Isobaren



3D Directivity Plot



-6 dB Isobaren

