

# MACH CM12



## KEY FEATURES

- Horizontal and vertical flying
- Speakon terminal with link option and barrier strip terminals
- 19mm MDF cabinet
- 3mm extruded aluminum profiles
- Rotatable horn
- 12" woofer
- 1" compression driver
- Modular crossover switchable between passive and active mode

## DESCRIPTION

The CM12 is a 2-way speaker designed for compact yet high power installations in medium-sized venues. It is a dedicated top-box designed to be supported by a subwoofer below 90 Hz. The bass reflex cabinet houses a powerful 12" low-mid unit and a 1" compression driver with smooth frequency response and low distortion. The horn is 90 x 75 degrees rotatable with controlled dispersion characteristics. The crossover is placed directly behind the input terminal and can easily be switched between active and passive mode. It features a thermal protection circuit in passive mode. 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 CM12. The speaker is available in black as standard with any RAL code color choice as optional.

## SPECIFICATIONS

Power rating IEC268:	325 watt
Power rating peak:	1300 watt
Sensitivity 1w/1m:	98.5 dB
Max SPL, calc. long term:	124 dB
Max SPL, peak:	130 dB
Frequency response +/-3dB:	70 Hz-18 kHz
Dispersion angle:	90 x 75 degree rotatable horn
Nominal impedance:	8 ohm
Recommended High Pass filter:	100 Hz (24dB/octave)
Recommended controller:	Mach M20.06
Recommended amplifier:	450 watt in 8 ohm

### Drive units:

<u>Woofer:</u>	1 x 12" with an interleaved sandwich coil
Nominal impedance:	8 ohm
Powerhandling AES:	350 watt
Sensitivity 1w/1m:	99.5 dB
Max SPL, calc. long term:	125 dB
Max SPL, peak:	131 dB
Recommended High Pass filter:	100 Hz (24dB/octave)
Recommended amplifier:	500 watt in 8 ohm

### Compression driver:

Nominal impedance:	8 ohm
Powerhandling above 1.6kHz/24dB/oct:	80 watt
Sensitivity 1w/1m:	107dB
Max SPL, calc. long term:	126 dB
Max SPL, peak:	132 dB
Recommended crossover freq:	1600 Hz/24dB/oct
Recommended amplifier:	115 watt in 8 ohm
Recommended controller:	Mach M20.06

### 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
Optional top-hat adapter:	35mm diameter
Rigging hardware:	Included eyebolts and U-bracket

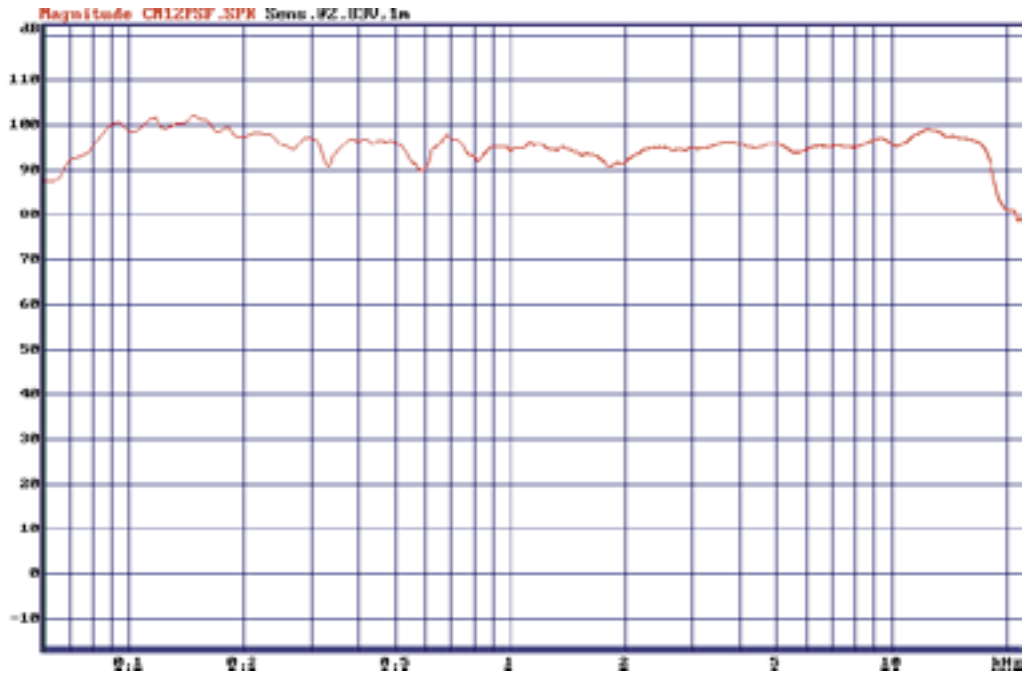
## ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way reflex loaded top-box with an IEC268 power handling of 325 watt and a frequency response from 70 Hz-18 kHz with crossover frequencies at 1.7 kHz. The loudspeaker system shall have a sensitivity of 98.5 dB and a maximum output of 130 dB. The loudspeaker system shall also have a 12" woofer and a 1" compression driver. The modular crossover shall be switchable between active and passive mode. 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 CM12.

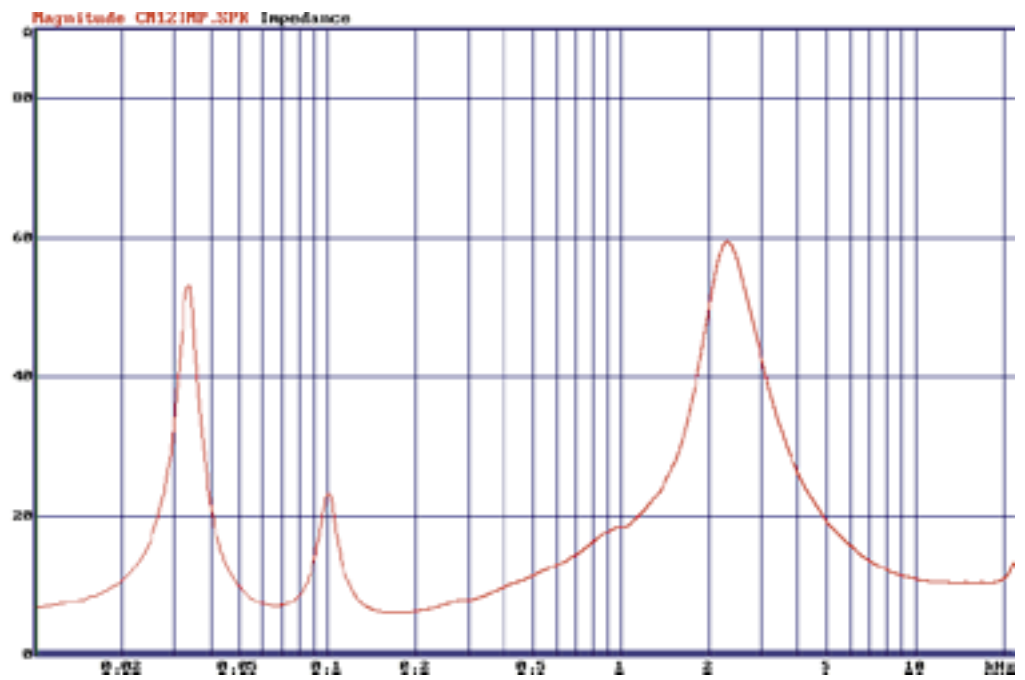
**NOTE:** Mach is continually working on research and production improvements, which can be introduced into existing products without notice. The products will always equal or exceed the original design specifications unless otherwise stated.

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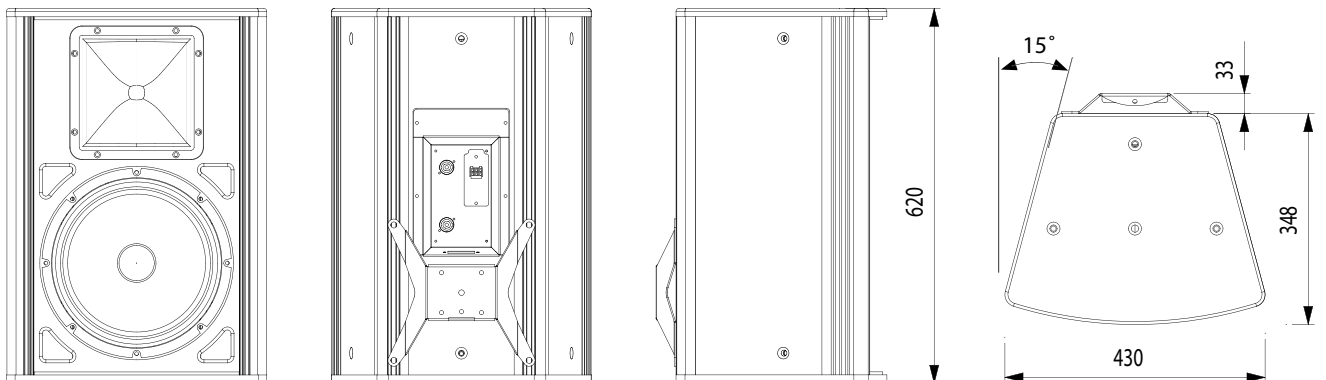
## Frequency Response

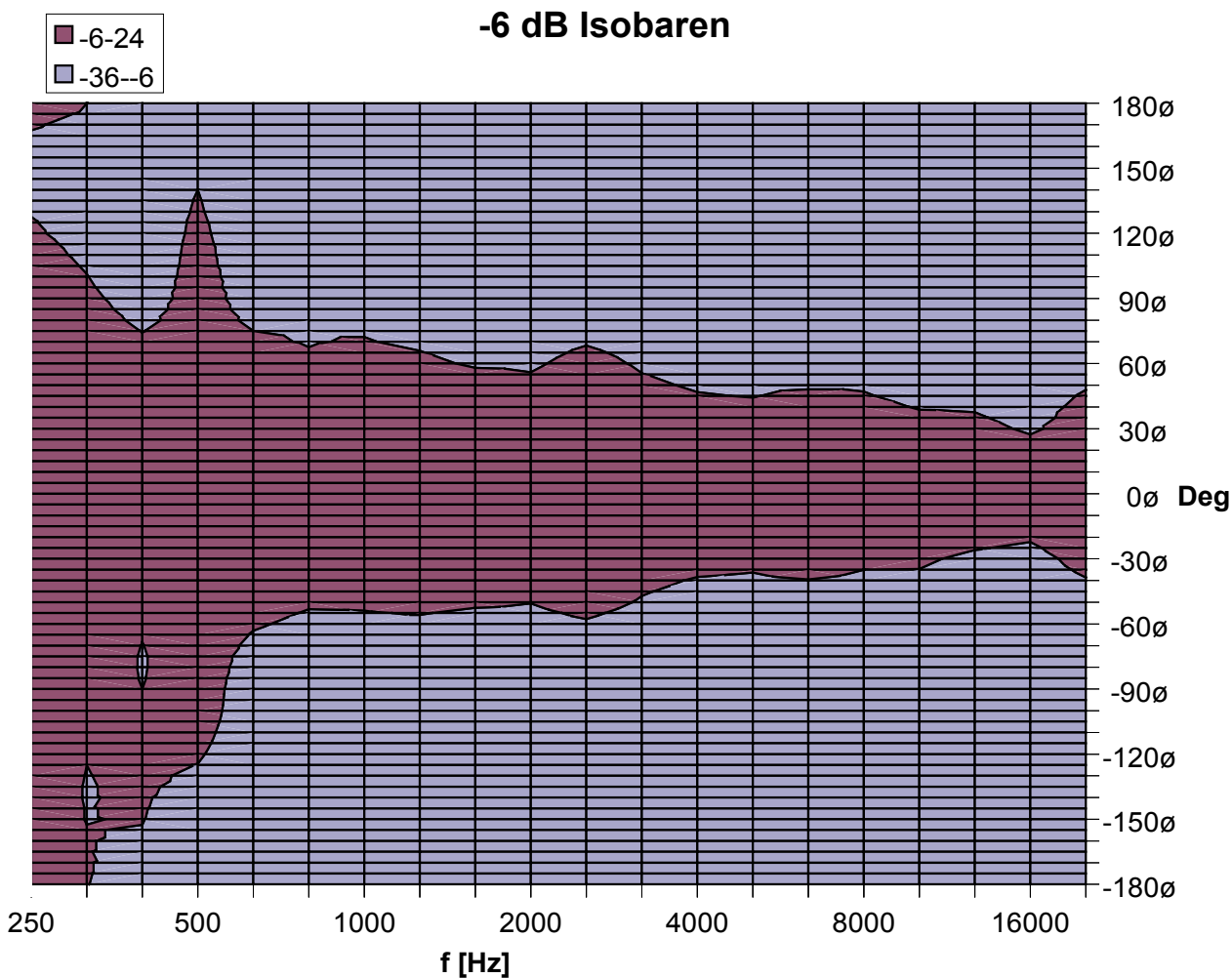
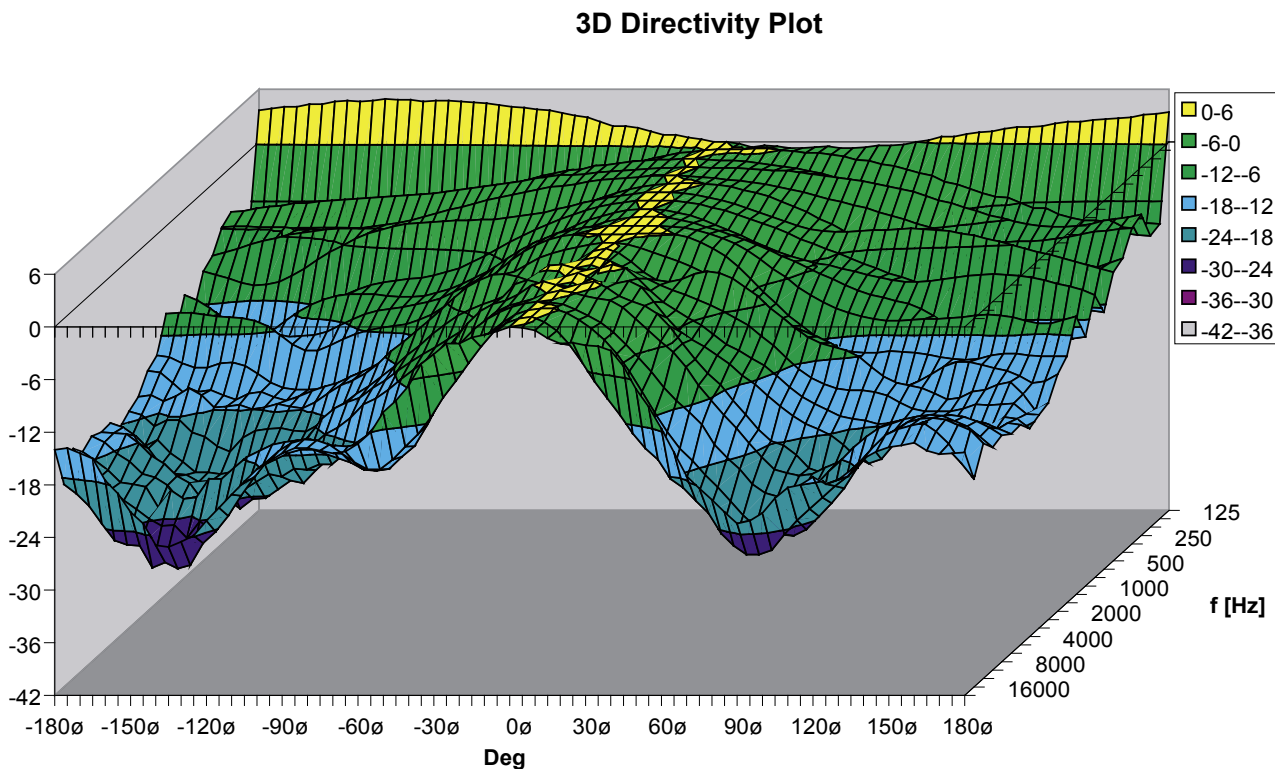


## Impedance Response

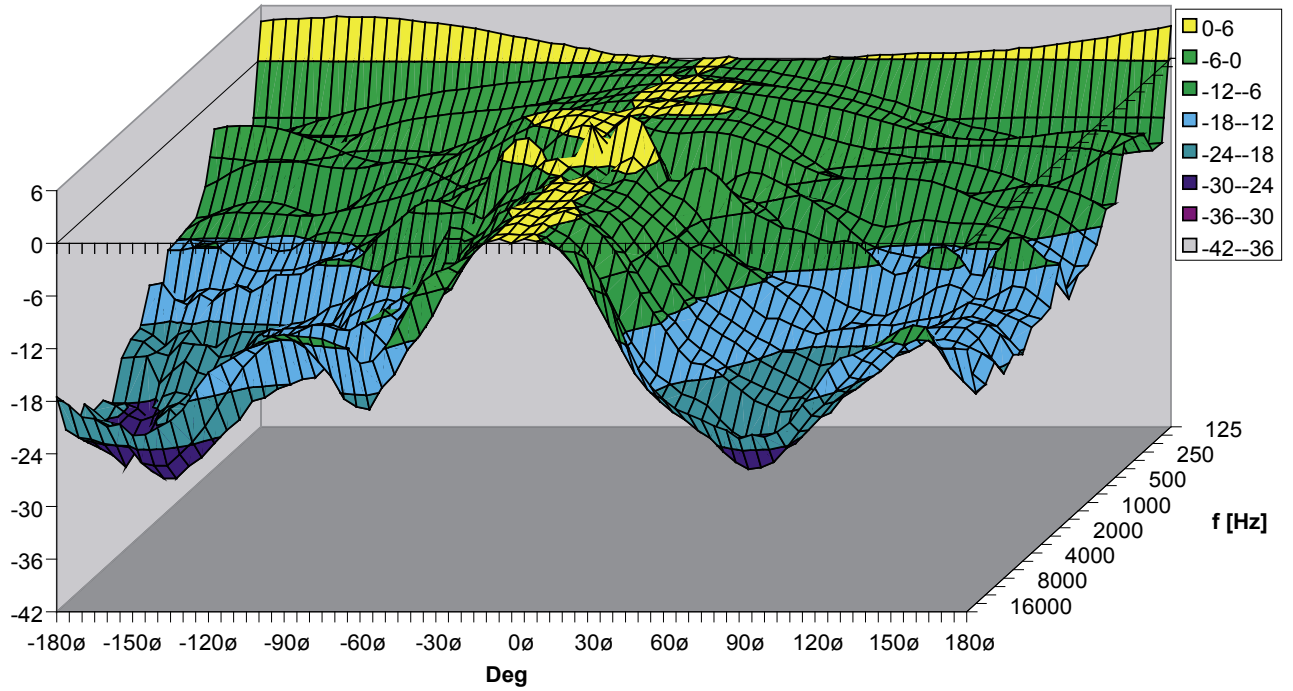


## Size and Shape





3D Directivity Plot



-6 dB Isobaren

