

MACH CM9



KEY FEATURES

- Horizontal and vertical flying
- Rotatable horn
- Speakon terminal with link option and barrier strip terminals
- 19mm MDF cabinet
- 3mm extruded aluminum profiles
- Thermal protection of the tweeter
- 2 x 8" woofers with 2" interleaved sandwich voice coil and coated cone
- 1" compression driver with constant coverage horn
- Modular crossover switchable between passive and active mode

DESCRIPTION

The CM9 is a medium-throw speaker with a wide dispersion, suitable for bars, cafés, and smaller clubs or as in-fill in seating areas. The robust bass reflex cabinet has been designed around an extruded 3mm aluminum profile. It houses 2 x 8" woofers with very low power compression and high power handling as well as a 1" compression driver with a constant coverage horn with low distortion. The CM9 is a dedicated top-box designed to be supported by a subwoofer if more bass is needed. It is fast and easy to mount featuring 18 flying points and the innovative adjustable spider bracket system for multiple horizontal and vertical flying options. In addition, the trapezoidal cabinet design allows for flexible and discrete fixing. All the smaller models in the C-range are supplied with a U-bracket, and the speakers are available in black as standard with any RAL code color as optional.

SPECIFICATIONS

Power rating IEC268:	600 watt
Power rating peak:	2400 watt
Sensitivity 1w/1m:	99 dB
Max SPL, calc. long term:	127 dB
Max SPL, peak:	133 dB
Frequency response +/-3dB:	70 Hz-20 kHz
Dispersion angle:	90 x 60 degrees
Nominal impedance:	4 ohm
Recommended high pass filter:	100Hz (24dB/octave)
Recommended amplifier:	850 watt in 4 ohm

Drive units:

<u>Woofer:</u>	2 x 8" with intersandwich voice coil
Nominal impedance:	4 ohm (2 pcs)
Powerhandling AES:	600 watt
Sensitivity 1w/1m:	98dB
Max SPL, calc. long term:	126 dB
Max SPL, peak:	132 dB
Recommended High Pass filter:	100 Hz (24dB/octave)
Recommended amplifier:	850 watt in 4 ohm

Compression driver:

<u>Compression driver:</u>	1"
Nominal impedance:	8 ohm
Powerhandling:	50 watt above 2.5 KHz/24 dB/oct
Sensitivity 1w/1m:	108 dB
Max SPL, calc. long term:	125 dB
Max SPL, peak:	131 dB
Recommended crossover freq.:	2500 Hz/24 DB/oct
Recommended amplifier:	75 watt in 8 ohm
Recommended controller:	Mach M20.06

Weight & Measurements:

Dimensions (HxWxD):	70x34.9x33.8 cm (27.5x13.7x13.3 inches)
Net weight:	25 kg (55 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 U-bracket.
Optional:	Eyebolt part no. 93940002

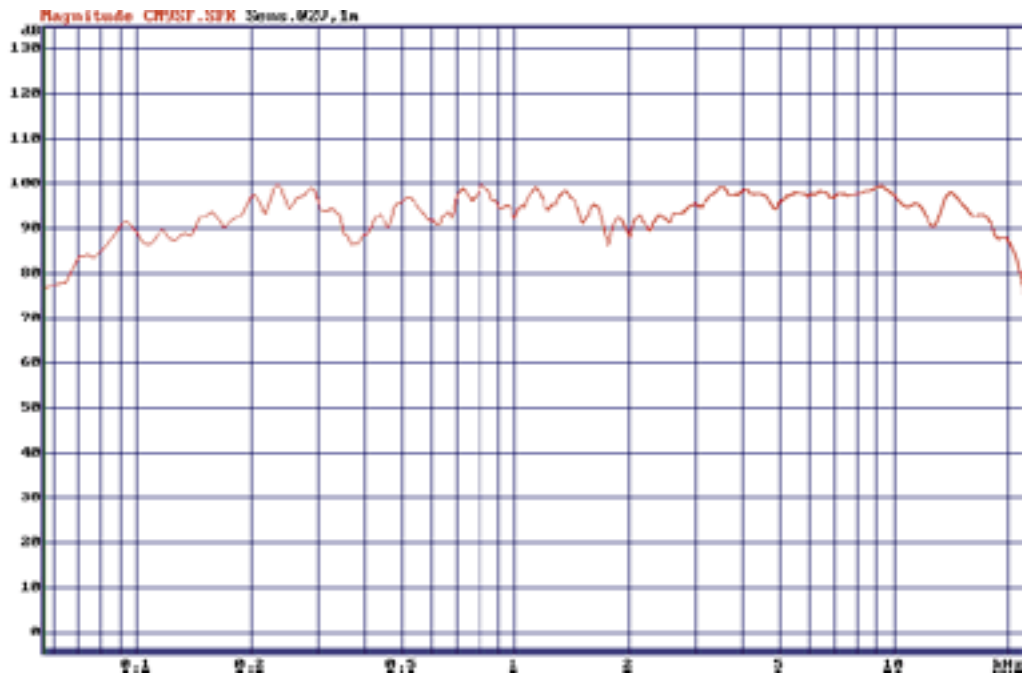
ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way reflex loaded top-box with an IEC268 power handling of 600 watt and a frequency response from 70 Hz-20 kHz with crossover frequencies at xx kHz. The loudspeaker system shall have a sensitivity of 99 dB and a maximum output of 127 dB. The loudspeaker system shall also have two 8" low/mid drivers and a 1" compression driver with a constant coverage horn. 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 70cm (27.5in) high, 34.9 cm (13.7in) wide and 33.8 cm (13.3in) deep with a weight of 25 kg (55 lbs). The loudspeaker system shall be the Mach CM9.

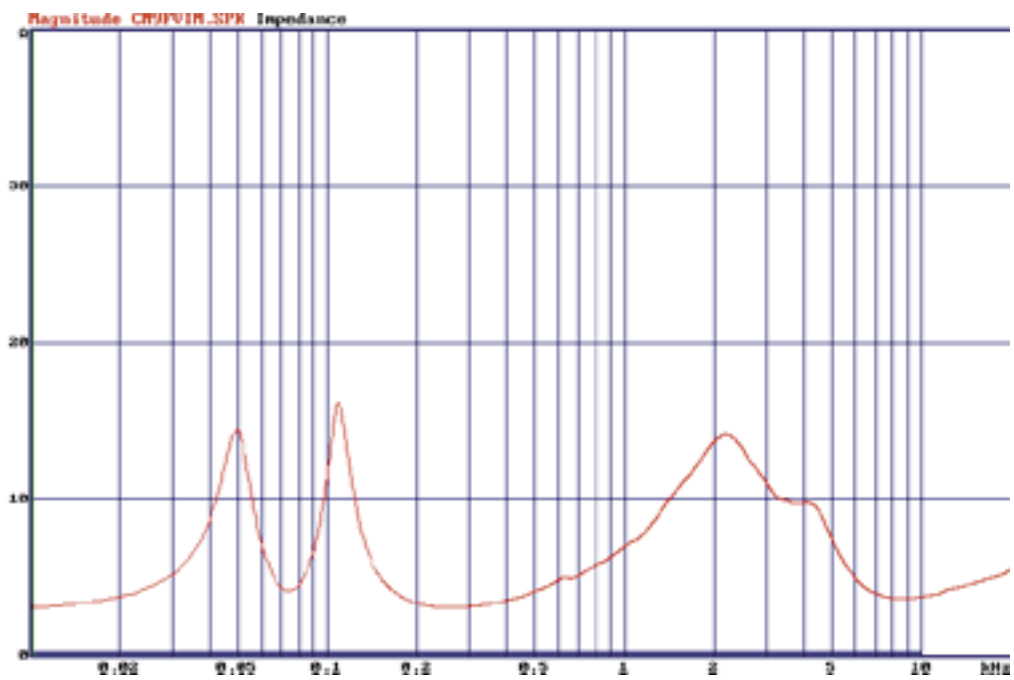
NOTE: Mach is continually working on research and production improvements, which can be introduced into existing products without notice. The products will always equal or exceed the original design specifications unless otherwise stated.

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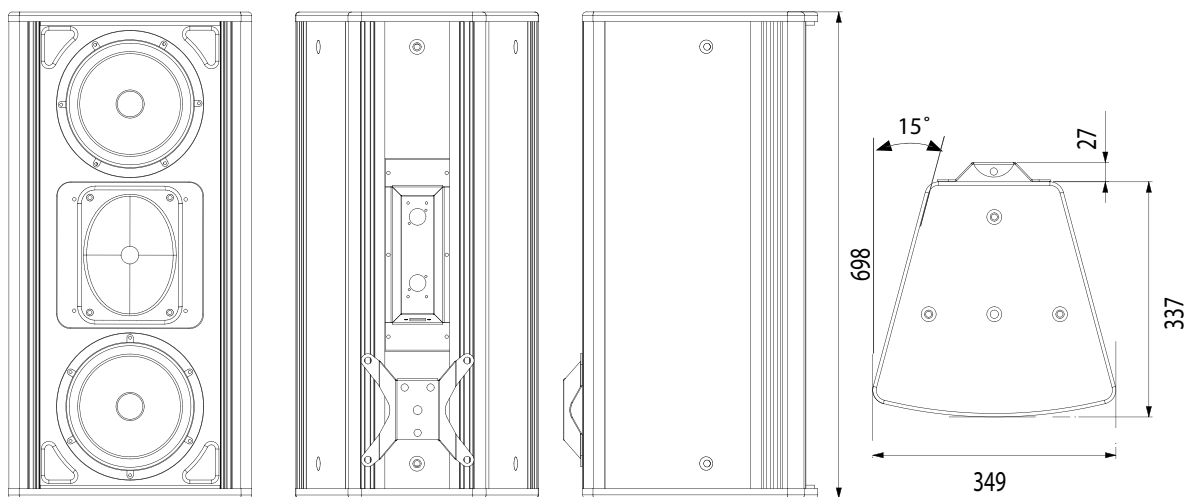
Frequency Response



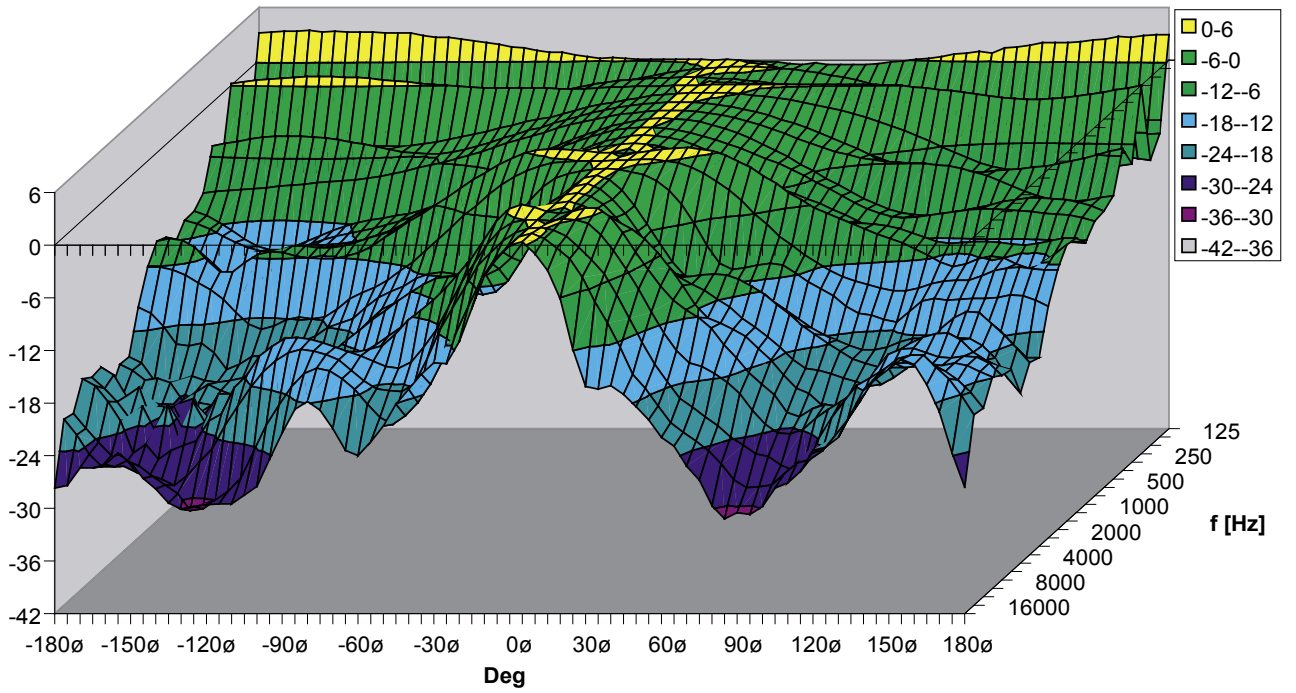
Impedance Response



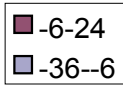
Size and Shape



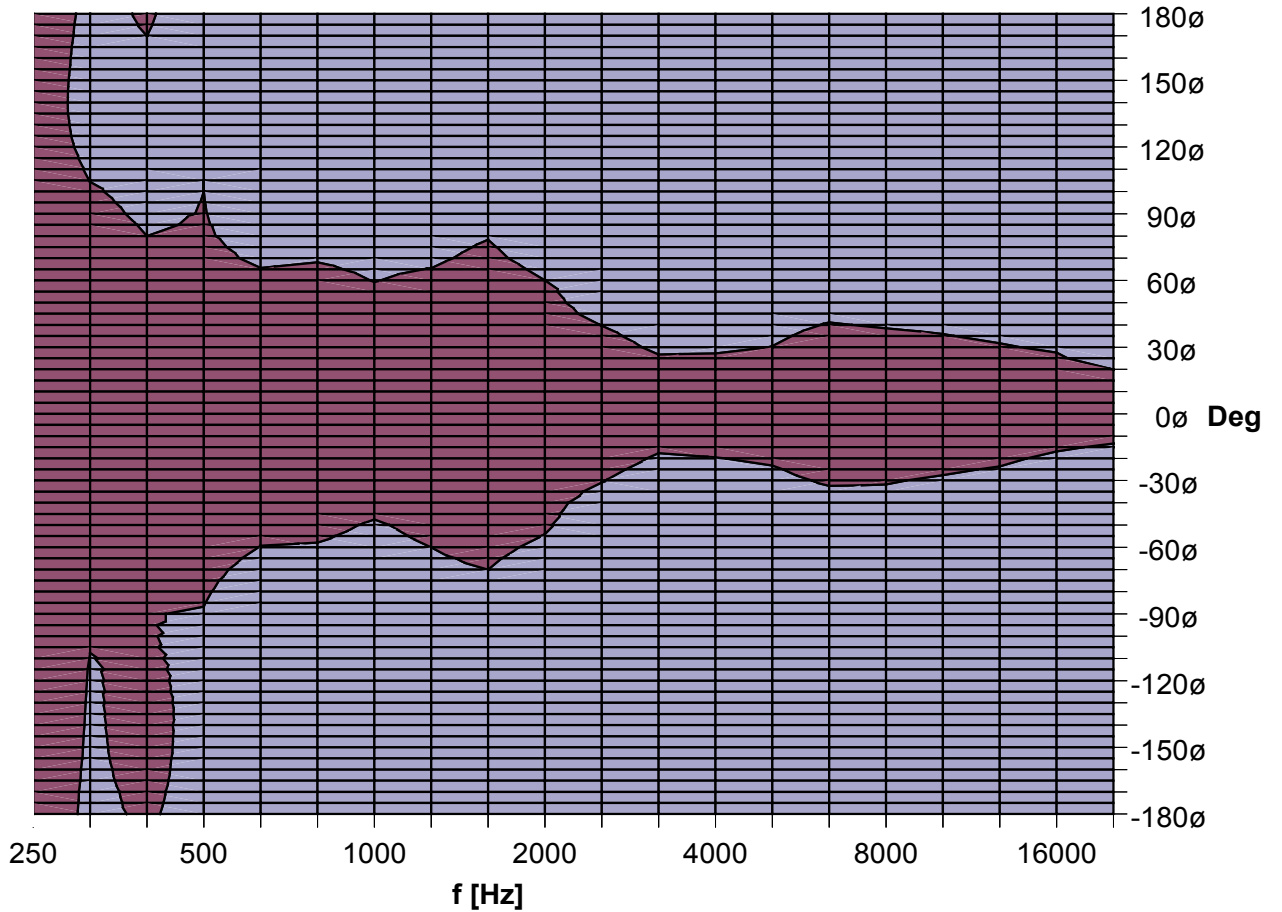
3D Directivity Plot



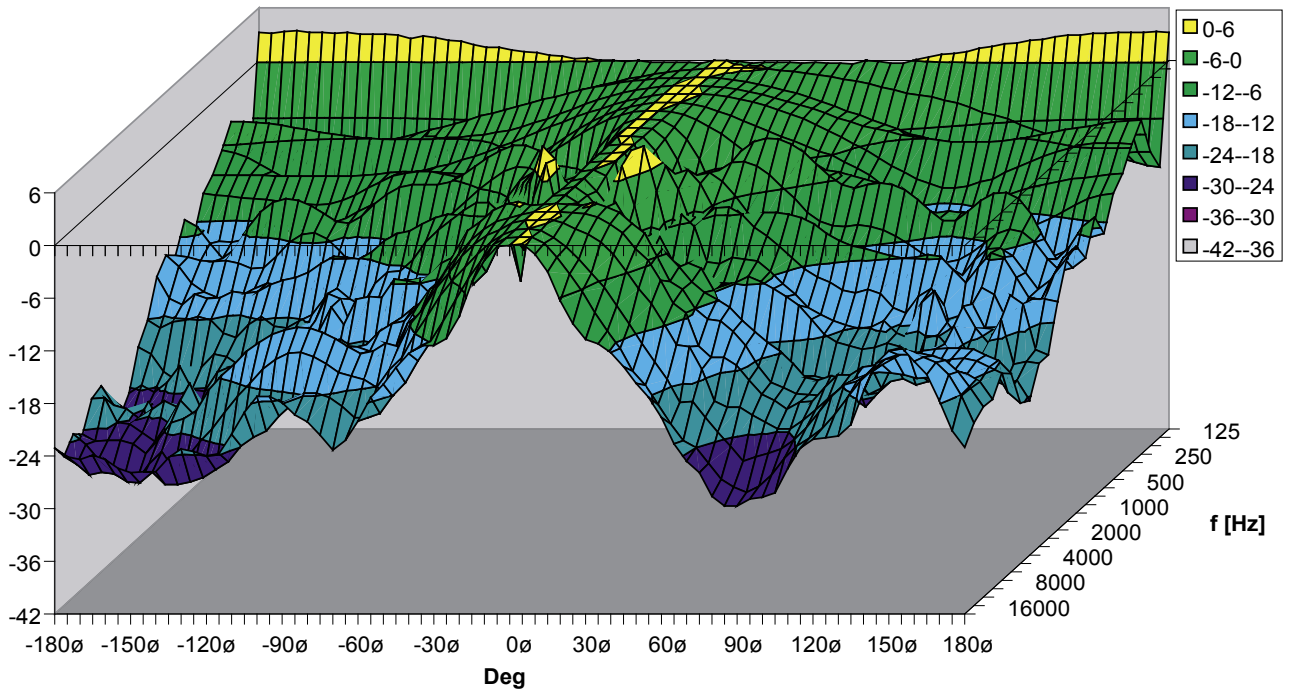
-6 dB Isobar Horizontal



-6 dB Isobaren



3D Directivity Plot



-6 dB Isobar Vertical

-6 dB Isobaren

