

MACH CM15



KEY FEATURES

- Horizontal and vertical flying
- Speakon terminal with link option and barrier strip terminals
- 19mm MDF cabinet
- 3mm extruded aluminum profiles
- Rotatable 90 x 55 degree horn with controlled dispersion pattern
- 15" low/mid device
- 2" compression driver
- Modular crossover switchable between passive and active mode

DESCRIPTION

The CM15 is a very powerful dedicated top-box designed to be supported by a subwoofer but can be used as a stand-alone when subbass is not needed. The bass reflex cabinet houses a 15" mid/high unit especially optimized for excellent clarity and detail in the crucial midrange area. It has an excellent transient response and cone damping with low power compression as well. The CM15 has a special 2" compression driver with a 3" diaphragm mounted behind a 90 x 55 degree rotatable horn. The diaphragm is extremely light weight giving the unit an output with excellent HF performance and low distortion. 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 Fibreboard built around an aluminum profile giving the cabinet an elegant look. The speaker is available in black as standard with any RAL code color choice as optional.

SPECIFICATIONS

Passive mode:

Power rating IEC268:	450 watt
Power rating peak:	1800 watt
Sensitivity 1w/1m:	102 dB
Max SPL, calc. long term:	129 dB
Max SPL, peak:	135 dB
Frequency response +/-3dB:	58 Hz-20 kHz
Dispersion angle:	90 x 55 degree rotatable horn
Nominal impedance:	8 ohm
Recommended High Pass filter:	45 Hz (24dB/octave)
Recommended controller:	Mach M20.06
Recommended amplifier:	650 watt in 8 ohm

Drive units:

<u>Woofer:</u>	15" with 3" voice coil
Nominal impedance:	8 ohm
Powerhandling AES:	400 watt
Sensitivity 1w/1m:	102 dB
Max SPL, calc. long term:	129 dB
Max SPL, peak:	135 dB
Recommended High Pass filter:	45Hz (24dB/octave) or higher
Recommended amplifier:	650 watt

Compression driver:

3" diaphragm, 2" throat	
Nominal impedance:	16 ohm
Power handling AES:	150 watt
Sensitivity 1w/1m:	110 dB
Max SPL, calc. long term:	132 dB
Max SPL, peak:	138 dB
Recommended crossover freq:	1400 Hz/24dB/oct
Recommended amplifier:	200 watt
Recommended controller:	Mach M20.06

Weight & Measurements:

Dimensions (HxWxD):	83x50x40.5 cm (32.7x19.7x16 inches)
Net weight:	41.5 kg (91.5 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

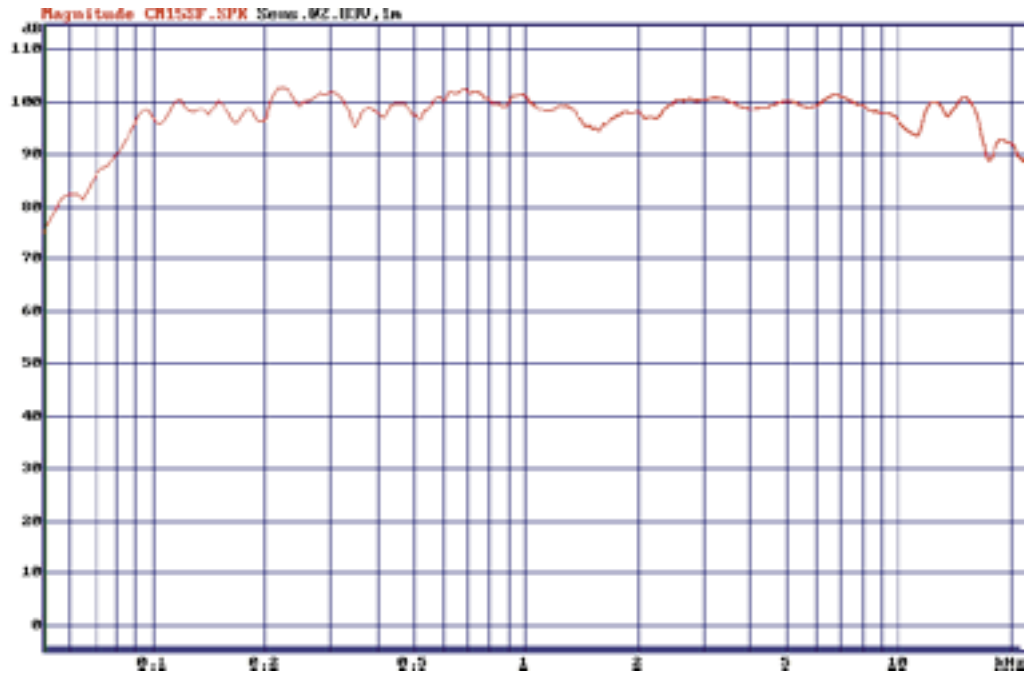
ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way reflex loaded top-box with an IEC268 power handling of 450 watt and a frequency response from 58 Hz-20 kHz with crossover frequencies at 1.4 kHz. The loudspeaker system shall have a sensitivity of 102 dB and a maximum output of 135 dB. The loudspeaker system shall also have a 15" mid/high unit and a 2" 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 frame, equipped with internal metal bracing, trapezoidal in shape with a 15 degree angle and shall be 83cm (32.7in) high, 50 cm (19.7in) wide and 40.5 cm (16in) deep with a weight of 41.5 kg (91.5 lbs). The loudspeaker system shall be the Mach CM15.

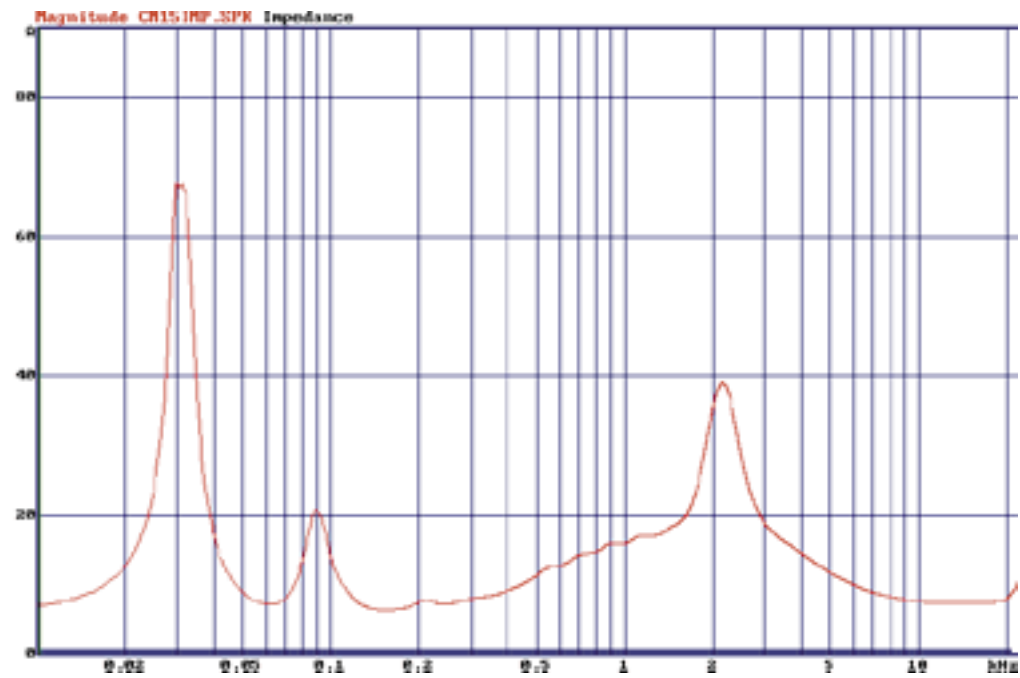
NOTE: Mach is continually working on research and production improvements, which can be introduced into existing products without notice. The products will always equal or exceed the original design specifications unless otherwise stated.

MACH CM15

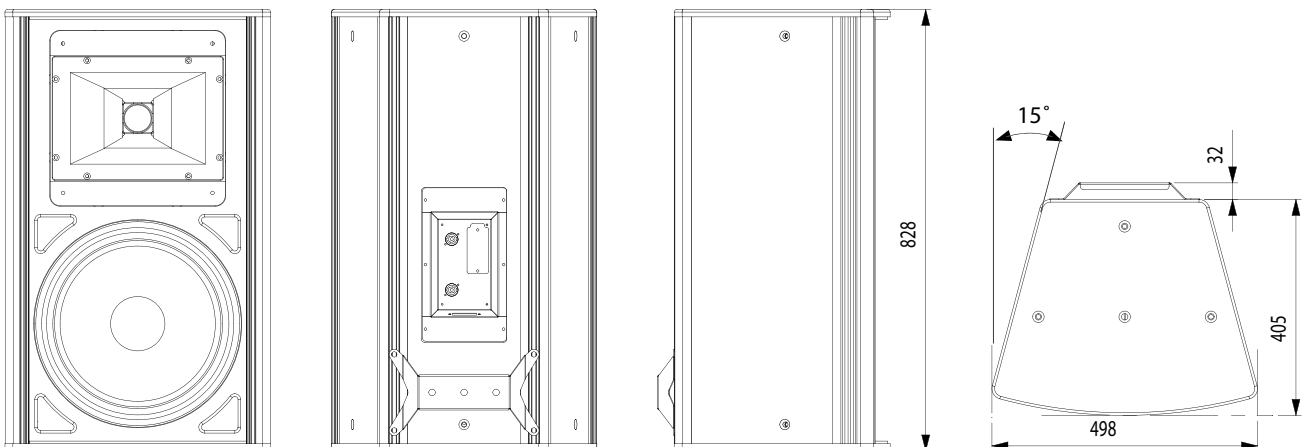
Frequency Response

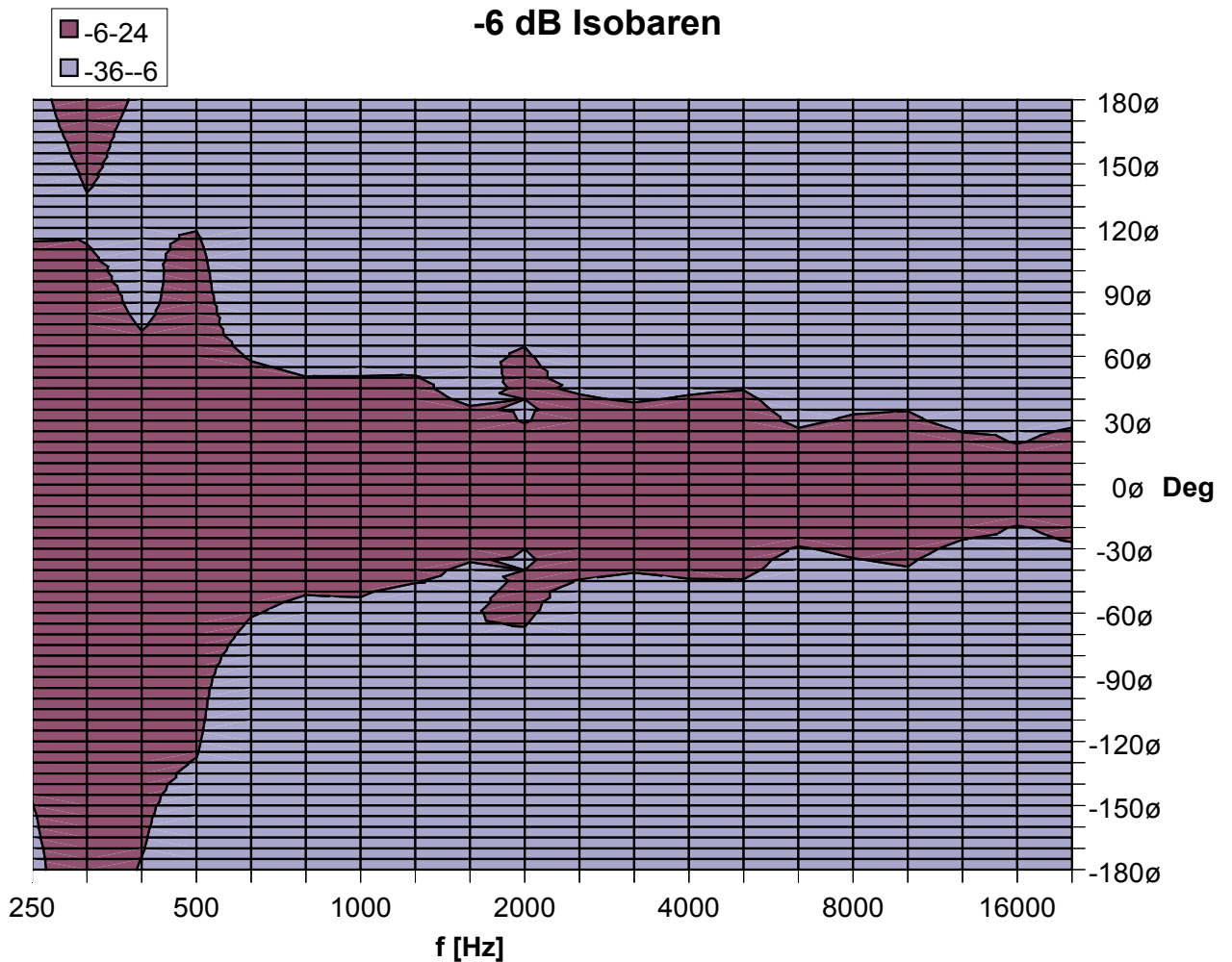
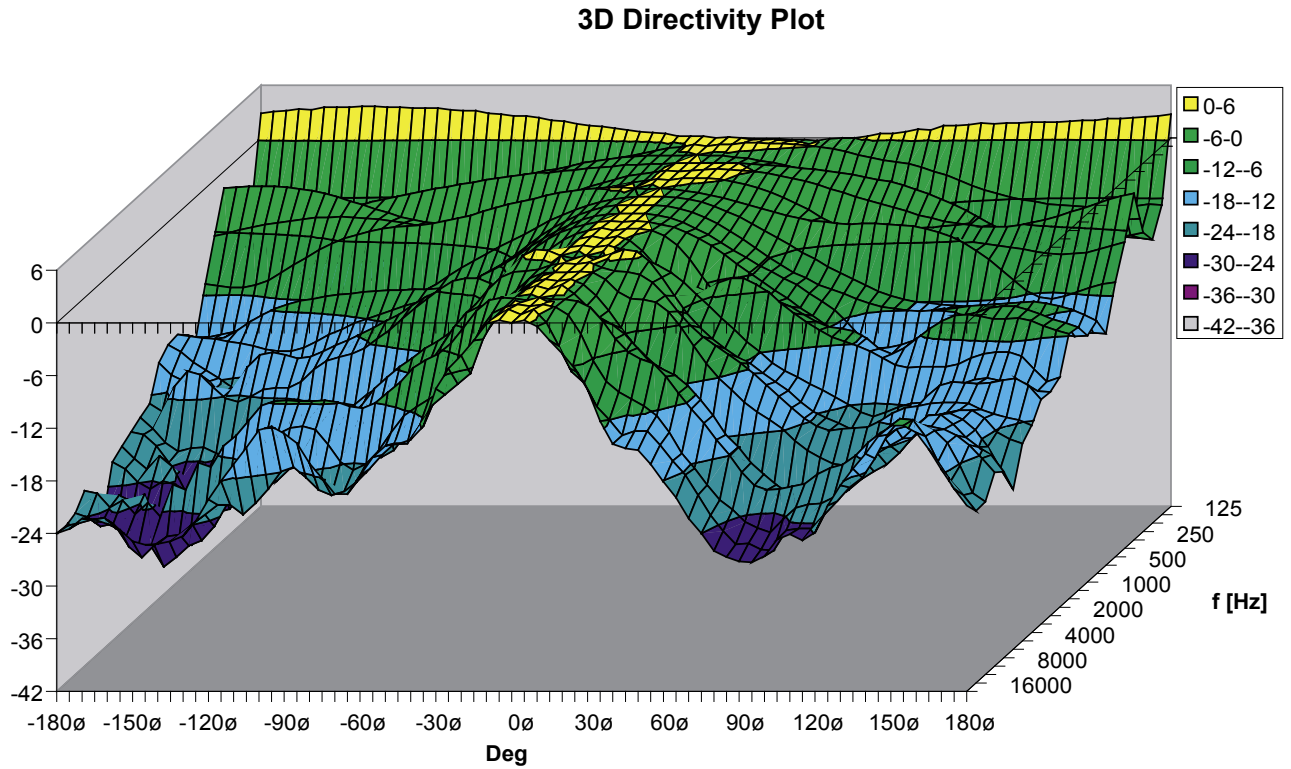


Impedance Response

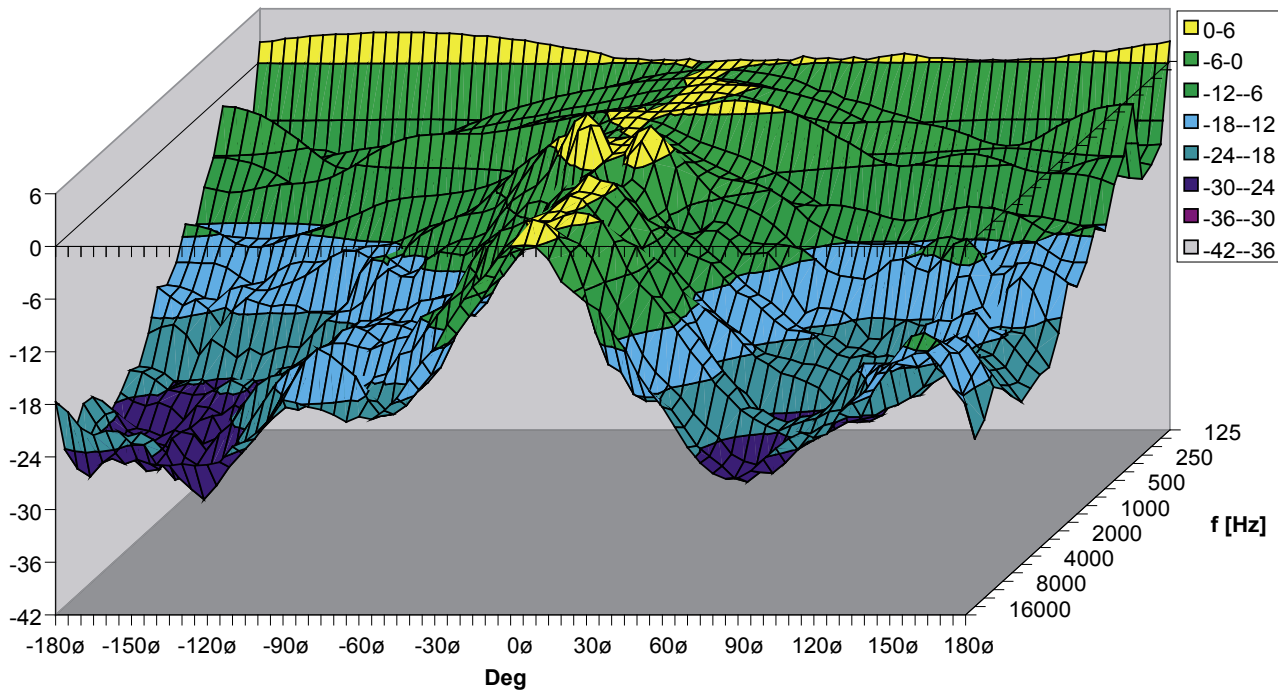


Size and Shape





3D Directivity Plot



-6 dB Isobaren

