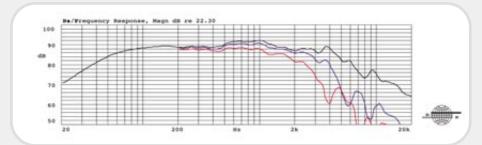
## **MW 170**

## Frequency response • on-axis, 30° and 60° off-axis

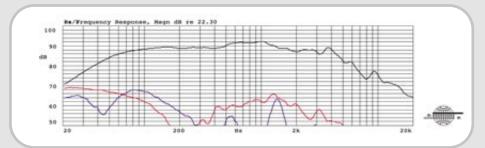


Thick line: on-axis response
Dashed line: 30° horizontal
Thin line: 60° horizontal

#### **Measurement conditions**

Level: 2.83 V Distance: 1 m Box volume: 18 l

#### Frequency response • 2nd and 3rd harmonic distortion



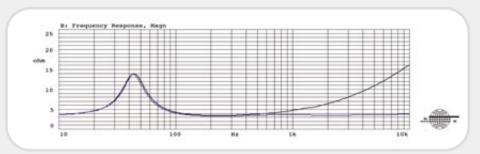
Thick line: on-axis response
Dashed line: 2nd harmonic
Thin line: 3rd harmonic

2nd and 3rd harmonic raised 20 dB

#### **Measurement conditions**

Level: 2.83 V Distance: 1 m Box volume: 18 l

## Impedance • with and without impedance correction circuit



Thick line: impedance,

free air

Thin line: impedance,

free air with compensation

See drawing below.

## **Measurement conditions**

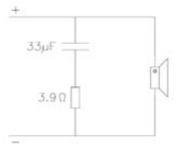
Level: 0.2 V

Driver in free air

The frequency response curves exhibit the MW170 as a well behaved driver with good dispersion, smooth frequency response and an extraordinary absence of resonance, which makes it possible to create a high quality 2-way system, even with this fairly large woofer.

The impedance curves show that the driver is a simple load for the amplifier. The use of an impedance correction circuit will make it even more simple.

The low suspension compliance makes the driver suitable for small enclosures normally used in cars while also allowing for mounting without an enclosure, e.g. in a hat shelf.



Impedance correction circuit

# MW 170

## **Technical Specifications**

roommour opcomounomo	
Thiele Small Parameters:	
Nominal Impedance (Znom):	4 Ohm
DC Resistance (Re):	3.1 Ohm
Voice Coil Inductance (Le):	0.20 mH
Resonance Frequency (fs):	41 Hz
Mechanical Q Factor (Qms):	2.27
Electrical Q Factor (Qes):	0.67
Total Q Factor (Qts):	0.52
Mechanical Resistance (Rms):	2.49 kg/s
Moving Mass (incld. air load, Mms):	22.1 g
Suspension Compliance (Cms):	0.69 mm/N
Effective Dome Diameter (d):	151.5 mm
Effective Piston Area (Sd):	180 cm squared
Equivalent Volume (Vas):	31.8 I
Force Factor (BI):	5.1Tm
Recommended Frequency Range:	35-3500 Hz
Recommended closed box volume:	14.2-42.5

Magnet and Voice Coil	
Voice coil diameter (dc):	75 mm
Voice coil height (hc):	14 mm
Voice coil layers (nc):	2
Magnetic gap height (hg):	5 mm
Linear excursion:	9 mm
Max. excursion:	15 mm
Magnet weight (wm):	0.53 kg
Power Handling	
Nominal long term IEC:	150W (crossover dependent)
Transient (10ms):	1000W
Mechanical Properties	
Net Weight:	1.3 kg
Overall dimension:	200 mm diameter x 88 mm