## **MW 170**





Measurement conditions			
See drawing below.			
	compensation		
	free air with		
Thin line:	impedance,		
	free air		
Thick line:	impedance,		

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**

Thiele Small Parameters:		Magnet and Voice Coil	
Nominal Impedance (Znom):	4 Ohm	Voice coil diameter (dc):	75 mm
DC Resistance (Re):	3.1 Ohm	Voice coil height (hc):	14 mm
Voice Coil Inductance (Le):	0.20 mH	Voice coil layers (nc):	2
Resonance Frequency (fs):	41 Hz	Magnetic gap height (hg):	5 mm
Mechanical Q Factor (Qms):	2.27	Linear excursion:	9 mm
Electrical Q Factor (Qes):	0.67	Max. excursion:	15 mm
Total Q Factor (Qts):	0.52	Magnet weight (wm):	0.53 kg
Mechanical Resistance (Rms):	2.49 kg/s	Power Handling	
Moving Mass (incld. air load, Mms):	22.1 g	Nominal long term IEC:	150W (crossover dependent)
Suspension Compliance (Cms):	0.69 mm/N	Transient (10ms):	1000W
Effective Dome Diameter (d):	151.5 mm	Mechanical Properties	
Effective Piston Area (Sd):	180 cm squared	Net Weight:	1.3 kg
Equivalent Volume (Vas):	31.8 I	Overall dimension:	200 mm diameter x 88 mm
Force Factor (BI):	5.1Tm		
Recommended Frequency Range:	35-3500 Hz		
Recommended closed box volume:	14.2-42.5		