

B&W

DM5

Monitor Loudspeaker



The DM5 is the successor to the B&W D5 which in recent years has earned a world wide reputation for out-performing many loud speaker systems two or even three times its size.

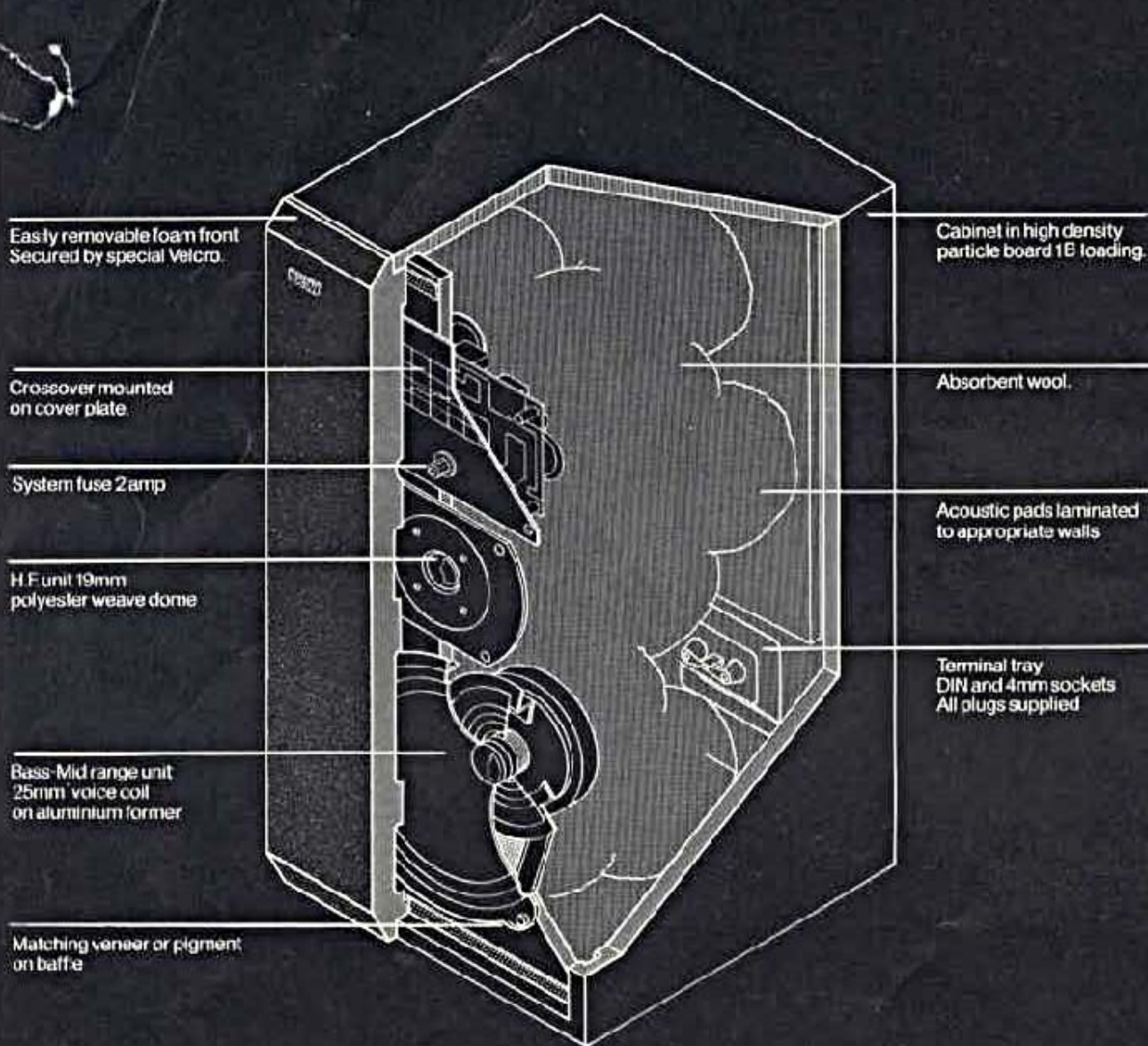
So it was hardly surprising that the original intention in re-designing the D5 was merely to improve its appearance. However, as work proceeded opportunities arose to make improvements in almost every area. In some instances these arose from a development

programme that had already been set up for the DM6. The high frequency unit in the DM5 for example, is identical to that used in the DM6 and offers what is probably the best transient behaviour of any h.f. unit in the world, with a linear extension of the frequency response to at least an octave above audibility.

In addition the DM5 has extremely low system resonance and "Q." Typically a system resonance of some 53 Hz and a "Q" of 0.7-

figures that would do credit to loudspeakers four times its size. They have been achieved by re-designing the Bass/Midrange Unit, employing new suspension materials, and by a small increase in the enclosure volume over the D5.

Both of these improvements are of vital importance in the useful extension of low frequency performance, and also in allowing the unit to be tightly coupled in a room by wall mounting or by fitting in a bookshelf.



Height
455 mm (18")
Width
227 mm (9")
Depth
241 mm (9.5")
Weight
9.5 kg (21 lbs)

Cabinet construction
High density board is used throughout
Cabinet finish
Satin white or selected veneers of walnut, teak or rosewood.

In order to obtain a really satisfying bass response from a loudspeaker system, it was, until comparatively recently, necessary to have a free standing enclosure of approximately 50 to 60 litres.

Which effectively ruled out a really faithful reproduction of original sound for most home listeners: they simply didn't have the space.

Now, with the DM5, a mere 19 litres reproduces the whole musical spectrum from the lowest organ pedal note to the transient attack of a cymbal crash.

What's more the DM5 has low "Q," another quality that is extremely difficult to achieve in a small speaker. What this means to the home listener is that the speakers can be mounted

on a wall or into a shelving system, without the bass becoming resonant or boomy. The DM5's technical achievement in producing a big sound from a small enclosure is matched by its appearance. A choice of Rosewood, Teak or Walnut veneers, or a Satin White finish ensures that it will blend successfully with just about any existing interior decor.



Amplitude/Frequency response

± 0.5 dB 100 Hz to 20 kHz free field

Sensitivity

6.8 watts into nominal impedance (i.e. 7.4 volts) for a sound pressure of 95 dB pink

Power handling

Suitable for amplifiers between 10 and 25 watts r.m.s. under normal domestic conditions

Overload protection

2.0 amp quick blow fuse to protect systems using amplifiers above 25 watts r.m.s.

Crossover

Crossover frequency 4.5 kHz with third order filter network employing close tolerance components throughout and Polyester non-electrolytic condensers

Nominal impedance

8 Ohm

Bass/Midrange unit B&W 150/M5

Effective cone diameter 140 mm

Voice coil diameter 26 mm

Free air resonance 40 Hz

Flux density 1.2 tesla nominal

High frequency unit B&W TW2

Voice coil diameter 19 mm

Dome formed polyester weave

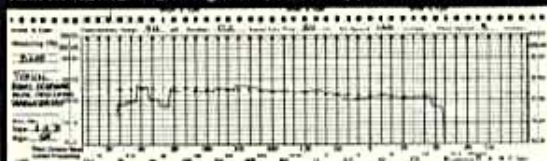
Total moving mass 0.17 gm nominal

Drive unit loading

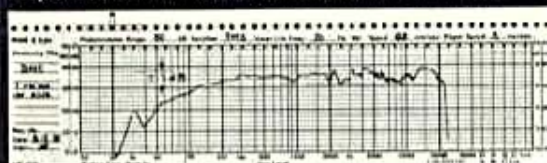
The B&W 150/M5 bass/midrange unit loaded with a highly damped sealed enclosure and the high frequency dome set loading. Front facia covered with Polyester acoustic foam

System resonance 53 Hz nominal and system "Q" below 0.75

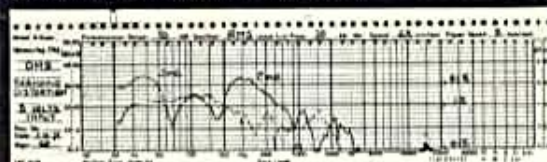
1/3 Octave room response of DM5 and optimum characteristic (from recommendation of "Relevant Hi-Fi Test at Home" Henning Møller, B&K Application Note 14-114)



On-axis free-field amplitude/frequency response (taken in B&W research anechoic chamber)



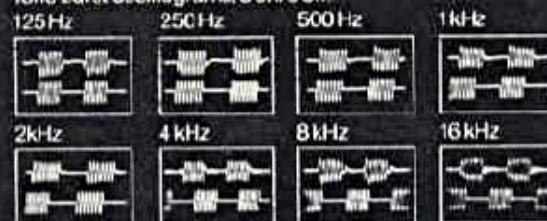
Harmonic Distortion for 8 volts input (solid curve = 2nd, dotted curve = 3rd)



Modulus of impedance

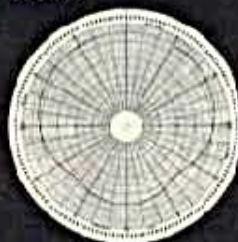


Tone burst oscillograms, 8 on/8 off

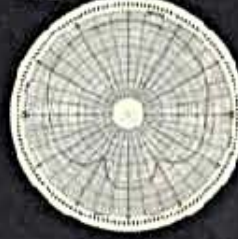


B&W Loudspeakers Ltd reserve the right to amend specifications without prior notice in line with technical developments.

Polar Dispersion
500 Hz



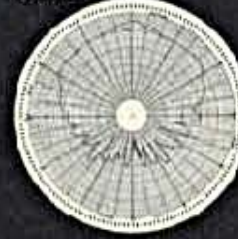
1 kHz



5 kHz



10 kHz



B&W Loudspeakers

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