

IMF
ELECTRONICS

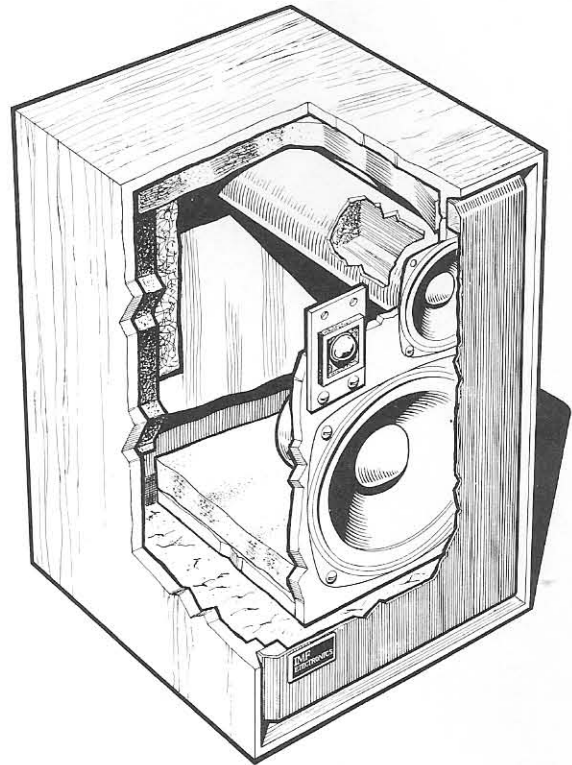
super~compact speakers

The requirements of a Compact loudspeaker are somewhat different from those of a professional monitor. It must be readily driven from lower power amplifiers and more easily accommodated in the domestic environment. Nevertheless the response must remain flat over the major part of the audio bandwidth, albeit more restricted. The dispersion characteristics must be broad and substantially hemispherical to ensure freedom of seating arrangements. Critical damping must be employed to maintain smoothness conducive with reasonable efficiency. The subjective performance should be homogeneous in such a manner that the total integrated output provides an aural illusion of a far larger sound source.

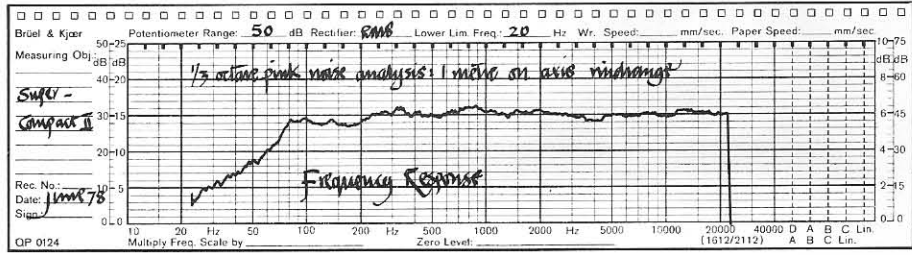
With the Super-Compact II, enclosure size is sufficient to accommodate the use of a new bass unit with a free air resonance of around 22Hz. The drawing illustrates the resistive loading conditions which whilst not impairing the exceptional bass response, controls the system against 'cone-weave' from unwanted subsonic signals. Smooth 'wide-open' midband response is essential from any loudspeaker. For this reason the Super-Compact II is three-way so that the crossover points can be placed well away from the range where the ear is most sensitive. A unique extreme midrange speaker is isolated in a separate short transmission line in precisely the same manner as our Studio and Monitor loudspeakers, providing superb transient response.

The decision was also made to adopt the same complex expensive crossover with mirror image configuration as in these larger models. This resulted in two important advantages. The in-line dividing network has been developed as a no-compromise optimum filter for the drive units employed and as such, provides the minimum of colouration and thus the maximum sense of acoustic transparency. Secondly, it ensures that the phase behaviour of the Super-Compact II is substantially identical to those of the TLS 50 and ALS 40. Thus all three models are compatible for four-speaker applications. Research demonstrates that dissimilar loudspeakers cannot be used for surround-sound any more than unmatched speakers are acceptable for stereo. With an eye to the future, in the Super-Compact II we have ensured this and anticipate that many will compliment our Studio loudspeakers for rear information. Meanwhile the prospective customer can purchase now without fear of pending obsolescence.

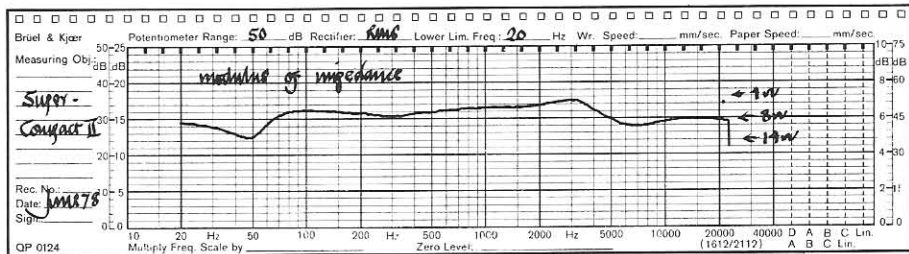
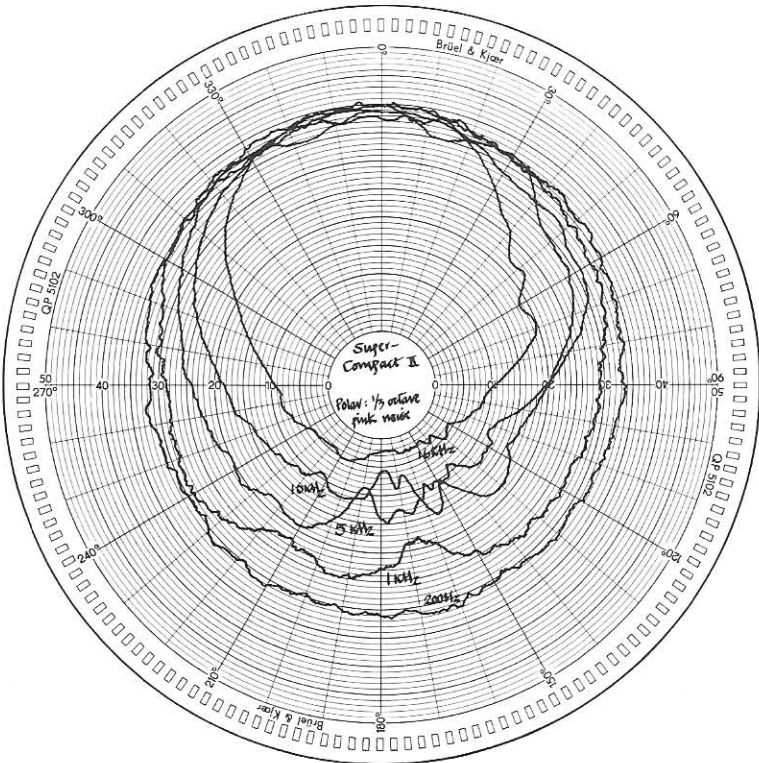
We have said very little about the sound of the Super-Compact II, which in a way is a good thing for it has no exaggerated 'super-fi' quality about it. Low frequencies are remarkably extended for enclosure size, but are smooth and free from emphasis of 'one-note' bass. The middle and top has a sense of sheen coupled with crispness and continuity - rather than the sound of multiple speakers working in a box. Such is the improved freedom from distortion that listening at low levels as well as high, gives a sense of balance which reveals all that is worthwhile over a wide variety of programme sources. The speakers are worthy of the best amplifiers and indeed the finest ancillary equipment. We invite you to audition the Super-Compact II loudspeakers against others beyond their size category.



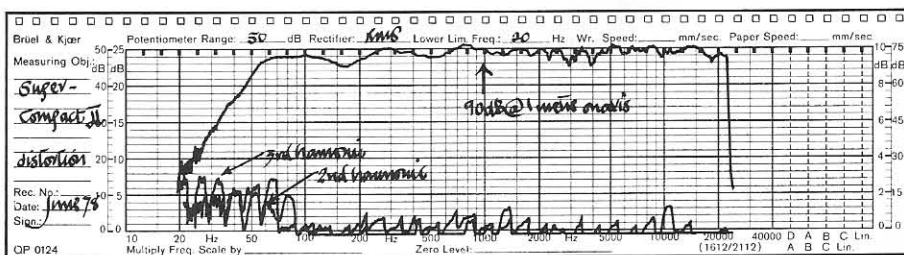
Conditions of Test : Measurements of samples taken under anechoic conditions with reflection coefficient better than 0.1. Equipment employed B & K pen recorder, noise and signal generator, third octave filters and polar turntable.



Frequency Response



Impedance



Distortion

NOMINAL SPECIFICATIONS

SUPER-COMPACT II

Dimensions	18" x 11" x 11 $\frac{3}{4}$ " wide 46 cm x 28 cm x 30 cm
Drive Units	8" 20.5 cm bextrene bass unit 4" 10 cm bextrene mid-range with domed tweeter
Crossover	Electrical three way at 375Hz and 3.5kHz
Frequency Range	30 Hz - 20 kHz
Frequency Response & Distortion Characteristics	See Graphs
Dispersion	See Polar Diagram
Matching Impedance	4-8 ohms (see graph)
Efficiency Measured via Pink Noise at 1 metre for 40 watts	100 dB
Driving Power Requirements	20 - 50 watts
Nett Weight (each)	10.5 Kgs
Gross Weight packed (pair)	26 Kgs

Subject to alteration without notice.