DYNAUDIO®
AUTHENTIC TECHNOLOGY

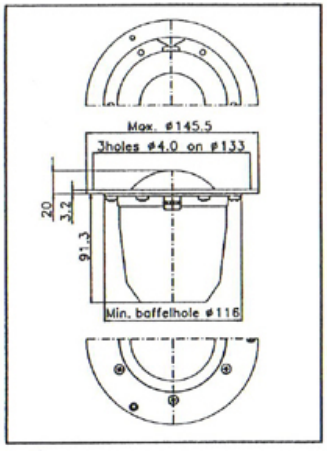
Soft Dome Midrange D-76 AF

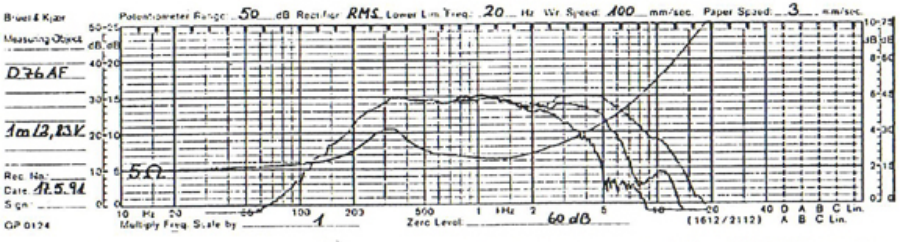
This soft some midrange construction has a center magnet system - the magnet material is placed inside the ridged huge voice coil.

The D-76 AF with its very low resonance frequency is ideal where the delicate range of the human voice shall be reproduced without crossing points.

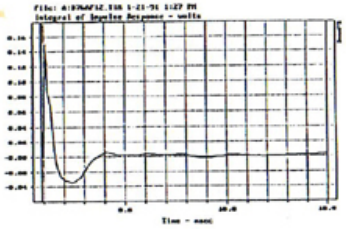
The dome material is doped fabric. Its internal damping is well controlled and gives a wide dispersion. The inside reflexions are minimized and the air pressure is aperiodically damped in the back cavity through the vented magnet system.

High power handling, smooth phase response and high dynamic levels without compression are the merits of this midrange unit.



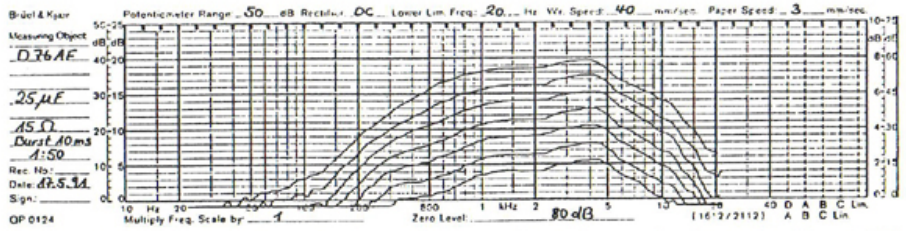


Frequency response and impedance curve of the D-76 AF on-axis, 30° and 60°, distance 1 m.



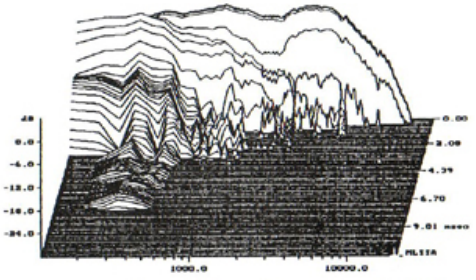
The MLSSA measurements show the pulse response of the D-76 AF.

Dynamic Measurements



Levels of 1, 3, 10, 30, 100, 300 and 1,000 watts were applied while recording the curves. The parallel arrangement of the curves indicates that even fast 1,000 W peaks do not produce any compression. Signal: Tone-Burst 10 ms, Signal-Pause 1:50.

MLSSA Waterfall Plot



The MLSSA cumulative spectral decay (waterfall) plot shows the energy/time response of the D-76 AF.

Specifications D-76 AF

Thiele-Small Parameter:

Q, mechanical	Q_{ms}	1.5
Q, electrical	Q_{es}	2.1
Q, total	Q_{ts}	0.9
Resonance free air	f_s	300 Hz
force factor	BxL	4.3 Tm
eff. cone area	S_D	45 cm²
moving mass	M_{ms}	4 g
lin. excursion (p-p)	X_{max}	3 mm
max. excursion (p-p)		7 mm

Power handling,
depending on crossover:

nominal (long term)	IEC	>100 W
transient	10ms	>1000 W

Voice coil:		
diameter	d	75 mm
length	h	6 mm
layers	n	2
inductance(10 KHz)	L_e	0.2
nom. impedance	Z_{ve}	8 ohms
DC resistance	R_e	5.1 ohms
Sensitivity	2.83 V	see curve
Net weight		750 g
Overall dimensions		Ø 145 x 111 mm