

4040A Operating Manual

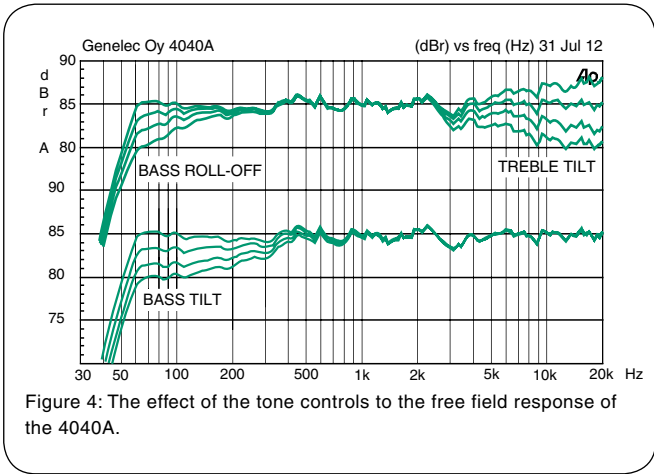


Figure 4: The effect of the tone controls to the free field response of the 4040A.

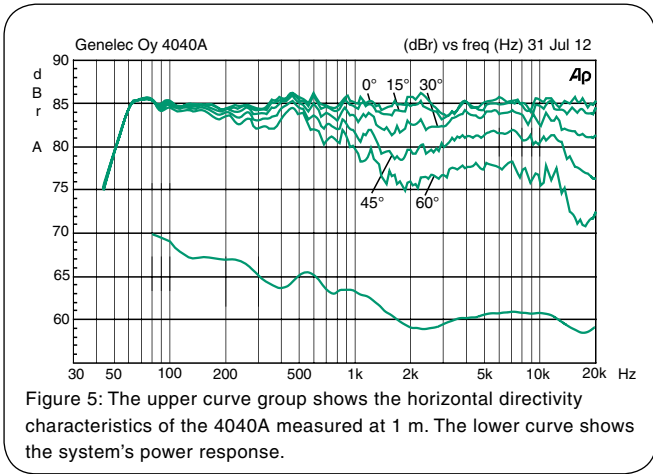


Figure 5: The upper curve group shows the horizontal directivity characteristics of the 4040A measured at 1 m. The lower curve shows the system's power response.

SYSTEM SPECIFICATIONS

	4040A
Lower cut-off frequency, -3 dB	≤ 55 Hz
Upper cut-off frequency, -3 dB	≥ 20 kHz
Free field frequency response of system (± 3.0 dB)	55 Hz - 20 kHz
Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz @ 1 m	≥ 109 dB SPL
Maximum long term RMS acoustic output in same conditions with IEC weighted noise (limited by driver unit protection circuit) @ 1 m	≥ 101 dB SPL
Self generated noise level in free field @ 1m on axis (A-weighted)	≤ 10 dB
Harmonic distortion at 90 dB SPL @ 1m on axis	
Freq. 50 to 100 Hz	< 3 %
> 100 Hz	< 0.5 %
Drivers:	
Bass	165 mm (6 1/2")
Treble	19 mm (3/4") metal dome
Weight:	9.9 kg (22 lbs)
Dimensions:	
Height	350 mm (13 13/16")
Width	237 mm (9 3/8")
Depth	223 mm (8 13/16")

CROSSOVER SECTION

	4040A
Input connector	Balanced Phoenix connector
Input impedance	Pin 1 gnd, pin 2 +, pin 3 -
Input level for maximum short term output of 100 dB SPL @ 1m:	10 kOhm balanced
Crossover frequency, Bass/Treble	Adjustable from +6 to -6 dBu
Treble tilt control operating range in 2 dB steps	2.5 kHz
Bass roll-off control operating range in 2 dB steps	From +2 to -4 dB & MUTE @ 15 kHz
Bass tilt control operating range in 2 dB steps	From 0 to -6 dB @ 55 Hz

The 'CAL' position is with all tone controls set to 'off' and the input sensitivity control to maximum (fully clockwise)

AMPLIFIER SECTION

	4040A
Bass amplifier short term output power	120 W
Treble amplifier short term output power	120 W
Long term output power is limited by driver unit protection circuitry	
Amplifier system distortion at nominal output THD	≤ 0.05 %
Signal to Noise ratio, referred to full output	
Bass	≥ 100 dB
Treble	≥ 100 dB
Mains voltage	100, 120, 220 or 230 V according to region
Voltage operating range	±10 %
Power consumption	
Idle	15 W
Standby	<0.5 W
Full output	170 W



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