

GENELEC®

8020D



SYSTEM SPECIFICATIONS

Lower cut-off frequency, -6 dB: ≤ 56 Hz

Upper cut-off frequency, -6 dB: ≥ 25 kHz

Accuracy of frequency response: 62 Hz – 20 kHz (± 2.5 dB)

Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz: at 1 m ≥ 100 dB SPL

Maximum long term RMS acoustic output in same conditions with IEC weighted noise (limited by driver unit protection circuit): at 1 m ≥ 93 dB SPL

Maximum peak acoustic output per pair, at 1 m distance with music material: ≥ 107 dB

Self generated noise level in free field at 1 m on axis: ≤ 5 dB (A-weighted)

Harmonic distortion at 85 dB SPL at 1 m on axis:
Freq: 50...200 Hz < 3 %
>200 Hz < 0.5 %

Drivers: Bass 105 mm (4 in) cone
Treble 19 mm ($\frac{3}{4}$ in) metal dome
Both drivers are magnetically shielded

Weight: 3.2 kg (7.0 lb)

Dimensions: Height 242 mm ($\frac{9}{2}$ in)
(including Iso-Pod™ table stand)

Height 230 mm ($\frac{9}{16}$ in)
(without Iso-Pod™ table stand)

Width 151 mm (6 in)

Depth 142 mm ($\frac{5}{8}$ in)

CROSSOVER SECTION

Input connector: Input: XLR female, balanced 10 kOhm,
pin 1 gnd, pin 2 +, pin 3 -

Input level for 100 dB SPL output at 1 m:
-6 dBu at volume control max

Sensitivity control range relative to max output:
-12 dB (constantly variable)

Crossover frequency, Bass/Treble: 3.0 kHz

Treble tilt control operating range: 0 to -2 dB at 15 kHz

Desktop 200 Hz control: -4 dB at 200 Hz

Bass roll-off control: -4 dB at 65 Hz

Bass tilt control operating range in -2 dB steps:
0 to -6 dB at 100 Hz

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

AMPLIFIER SECTION

Bass amplifier output power: 50 W
Treble amplifier output power: 50 W
Long term output power is limited by driver unit protection circuitry.

Amplifier system distortion at nominal output:
THD ≤ 0.05 %

Mains voltage: 100-240 V AC, 50-60 Hz

Voltage operating range: ± 10 %

Power consumption: Idle 3 W
Standby <0.5 W
Full output 60 W

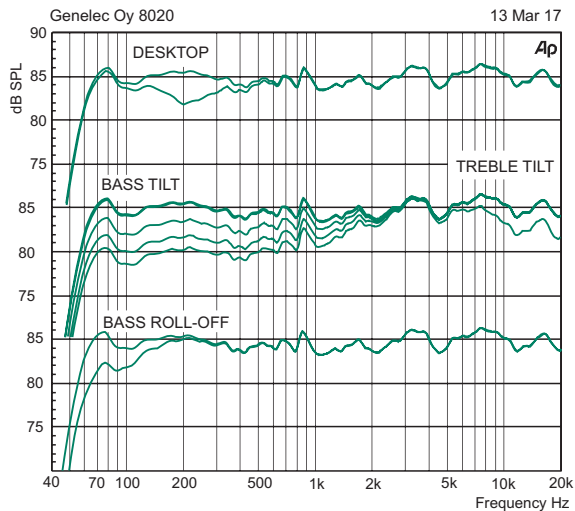


Figure 4. The curves show the effect of the “Bass Tilt”, “Treble Tilt”, “Desktop 200 Hz” and “Bass Roll-Off” controls on the free field response of the 8020D.

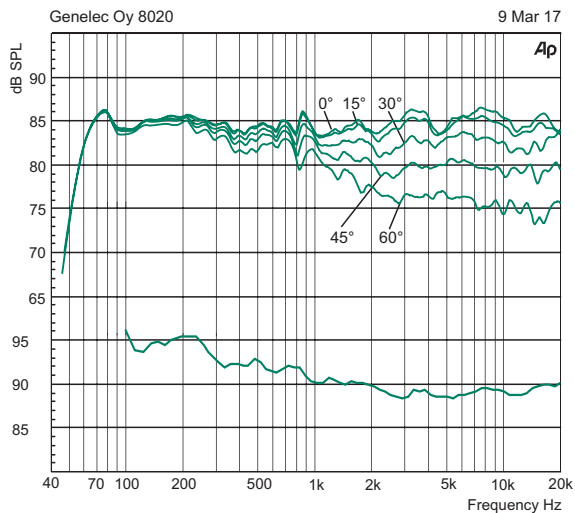


Figure 5. Frequency responses at 0, 15, 30, 45 and 60 degree angles and power response in full space. Input level -20 dBu.

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