

WHEN YOUR TONE FALLS INTO PLACE LIKE THE FLICK OF A SWITCH...

The Belfast 820 provides players and listeners with a well-tailored and satisfyingly clear response. This model gives your tone a defined contour—open and present lows, soft mids, and glassy/articulate highs—that will make your lead and solo lines soar.

Upgrade your 8-inch guitar speaker cabinet with this high-sensitivity driver, combining a powerful ferrite magnet motor, a 1-inch copper voice coil, a paper composite cone, and a pair of dual terminals for easy connectivity and installation, with a sturdy steel basket to hold it all in place.

- British tone guitar speaker
- 8 inch (203 mm) steel basket diameter
- 20 watts, 4 ohm, 97 dB SPL
- 1-inch copper voice coil, Kraft paper former
- 10 oz ferrite magnet
- Paper composite cone

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ToneSpeak guitar speakers result from years and years of deep-dive for the perfect tone. Decades of testing, field experience, and conversations with elite tone-chasers have all been poured into these fine products. When you play ToneSpeak, you play the best.



Primary Specifications

Size, Nominal (inch & mm)	8" (203 mm)
Rated Impedance (Ω)	4
Continuous Power (W)	20
Sensitivity (dB SPL) ¹	97
Frequency Range (Hz)	88 - 11, 000
Resonant Frequency (Fs) (Hz) +/- 15%	155

More Specifications

Application	Musical Instruments
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	3.4
Program Power (W)	40
Continuous Power (W)	20

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.4
Voice Coil Inductance (Le) (mH)	0.12
Resonant Frequency (Fs) (Hz) +/- 15%	155
Mechanical Q Factor (Qms)	15.49
Electrical Q Factor (Qes)	1.77
Total Q Factor (Qts)	1.59
Moving Mass (Mms) (gm)	9.22
Suspension Compliance (Cms) (mm/N)	0.11
Mechanical Resistance (Rms) (kg/s)	0.58
Surface Area of Diaphragm (Sd) (cm²)	226.98
Compliance Equivalent Volume (Vas) (L)	8.31
Coil Winding Height (mm)	6.35
Magnetic Gap Height (mm)	6.0
Motor Force Factor (BL) (T•M)	4.17
Efficiency (η_0) (%)	1.69
Efficiency Bandwidth Product (EBP) (Fs/Qes)	87.88

Material Descriptions

Basket Type	Stamped steel with black powder coating
Terminal Size (mm)	5.2 x 0.5
Voice Coil Diameter (mm)	25.4
Voice Coil Wire Material	copper
Voice Coil Former Material	Kraft paper
Magnet Material	Ferrite
Magnet Weight (g)	283.5
Cone Body Material	Paper composite
Spider Material	Cotton

Dust Cap Material	Paper
Net Weight (kg)	1.02



Frequency & Impedance Response

