

REFERENCE SERIES MODEL 103.2 (1980-85)

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Model 103.2 was the successor to the highly regarded 103, and continued with the same two-way closed-box format, using an 8" bextrene coned bass driver which used the new three mounting-point chassis to allow mechanical decoupling from the cabinet.

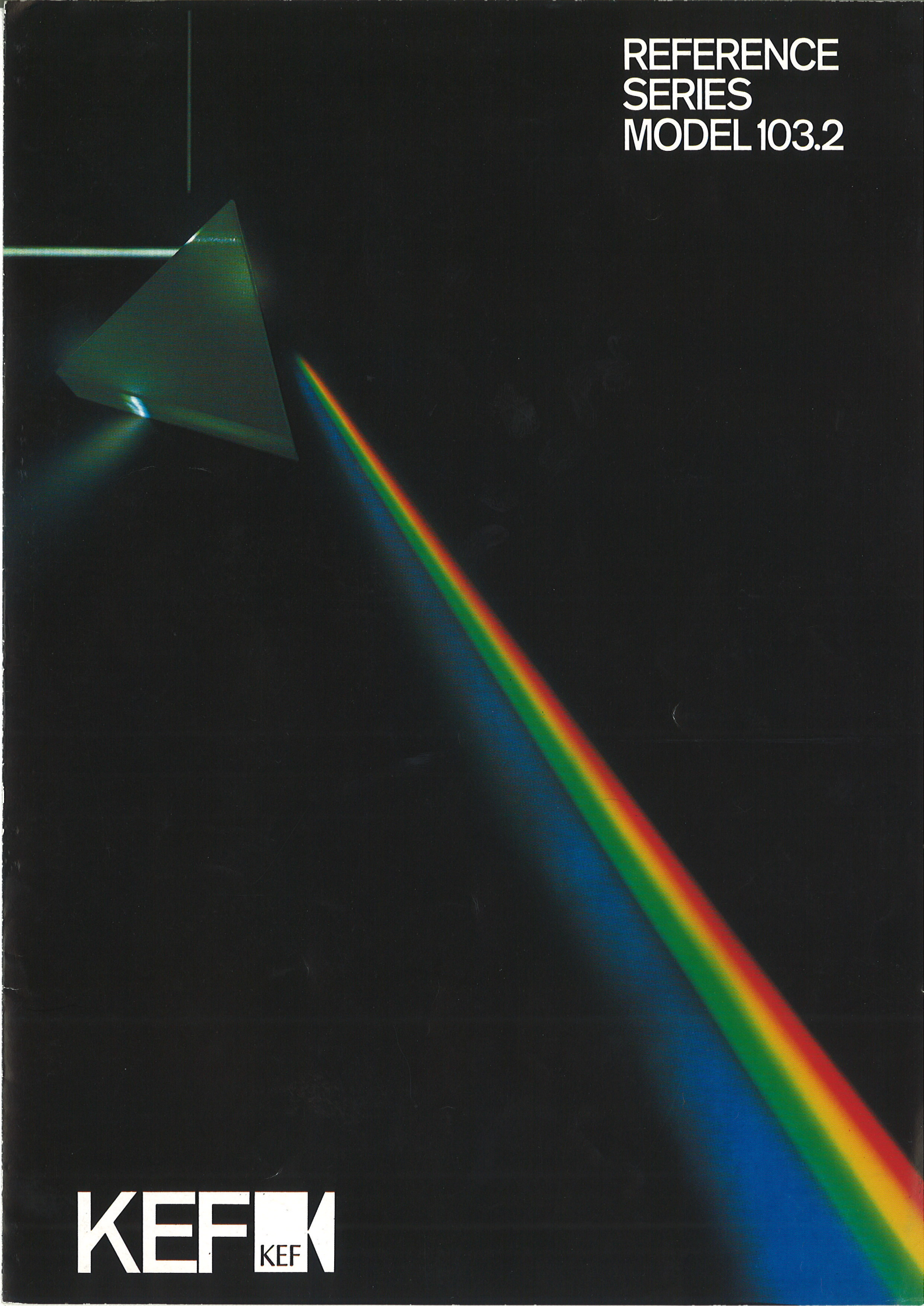
It was designed using KEF's 'total system design' approach where drive units, filter networks and enclosures are studied and developed together to achieve a targeted response. The result was a loudspeaker which achieved a broad frequency response with optimum efficiency and yet a surprisingly small enclosure of just 19 litres.

Consistent with all models in the Reference range, 103.2 included S-Stop protection circuitry, and all production systems benefited from KEF's Reference methodology which matched the response of every system to within 1dB of the design reference, with each pair matched to within 0.5dB of each other.

Specification	Model 103.2
System Type	Two-way, bookshelf/stand-mount
Enclosure type	Closed box
Size	50.6 x 26.5 x 24.9cm (20 x 10.5 x 9.8 inches)
Weight	8.6kg (19 lb)
Nominal Impedance	8 ohms

Rated maximum power	150W programme
Frequency response	60-20,000Hz +/-2dB at 2m on design axis (-10dB at 37Hz and 30kHz)
Sensitivity	86dB at 1m for a pink noise input of 1W (anechoic conditions)
Maximum output	106dB on programme peaks under typical listening conditions
Finishes	Walnut, teak, rosewood and black ash veneers
Grille	Black cloth
System	SP1121
Drive units	B200 bass unit (SP1075), T33 tweeter (SP1074)
Crossover	SP1143 and SP1144 (SP2011 from 1983 onwards)

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KEF

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Bookshelf speakers offer many advantages over larger models where space is restricted they are easily located so as to give not only good tonal balance but sharp, clear stereo images. Where space is not so limited they can be used on stands as small, free-standing systems.

Model 103.2 is a two-way loudspeaker system.

SIGNIFICANT DESIGN FEATURES

Flat frequency response of direct sound.

Minimum inter-unit time delay.

Unique bass loading technique giving higher efficiency and greater power handling capacity than conventional systems. (150 watts.)

Electronic overload protection.

Computer matching of component parts and drive units.



SOUND QUALITY

KEF speakers are known the world over for their smooth, natural sound and capacity for reproducing fine detail.

Their refined performance is due to a combination of unusual diaphragm materials, crossover design and careful assembly methods.

The Model 103.2 for instance is equipped with two drive units, both of which employ special plastic diaphragms and a computer designed dividing network.

The intricate design procedures which KEF developed in the early seventies have been applied to every vital feature of the new speaker.

The resulting sound possesses a transparent airy quality which constantly delights the ear and never causes listener fatigue. The precise matching of speaker pairs produces convincing stereo images of great depth and sharpness.

BASS LOADING

Model 103.2 possesses some important new features which improve bass and lower mid range reproduction.

The chassis of the 200mm low frequency driver is mechanically isolated from its enclosure to reduce the transference of inertial forces and thereby greatly reduce colouration from cabinet resonance.



Electrical compensation is also incorporated in the dividing network to improve efficiency and provide high-pass signal filtering.

ELECTRONIC OVERLOAD PROTECTION

The widespread use of high powered amplifiers has made it necessary to protect loudspeakers against accidental overload.

KEF pioneered electronic overload protection for professional monitoring loudspeakers in the sixties and more recently developed a completely automatic self-powered device called S-STOP, meaning Steady State and Transient Overload Protection.

S-STOP is the most comprehensive, practical and effective protection circuit in use today. It guards against thermal overload, woofer over-swing and voltage surges. Immediately any safe limit is exceeded the input level is reduced by means of a relay-operated attenuator.

Because S-STOP is so effective Model 103.2 is conservatively rated at 150 watts.

QUALITY ASSURANCE

All loudspeaker manufacturers promise quality control but few do little more than make a cursory examination of random samples.

Every system in the KEF Reference Series is produced by a unique process which incorporates quality assurance at every stage of assembly. All components are inspected individually.

Each drive unit is measured using high speed precision impulse methods pioneered by KEF. Digitally recorded data is then used to computer match sets of drive units which are complemented with paired dividing networks.

These novel and precise production methods guarantee the frequency response of Model 103.2 within fine limits and result in stereo reproduction of outstanding perspective and sharpness.

ADVANCE TECHNICAL DATA

Frequency range	60Hz to 20kHz ±2dB at 2m on design axis (−10dB at 37Hz and 30kHz)
Directional characteristics	Within 1dB of response on design axis up to 20,000Hz for ±5° vertically up to 10,000Hz for ±20° horizontally
Characteristic sensitivity level	86dB spl at 1m on design axis for pink noise input of 1W (anechoic conditions)
Maximum output	106dB spl on programme peaks under typical listening conditions
Distortion	Second harmonic less than 2% from 20Hz to 150Hz less than 1% from 150Hz to 20kHz Third harmonic less than 2% from 20Hz to 50Hz less than 1% from 50Hz to 20kHz Measured at 1m on measuring axis at mean spl of 90dB, anechoic conditions
Enclosure	19 litres
Power handling capacity:* Programme rating	150W
Maximum continuous sinusoidal input	20V rms, 100-2,500Hz falling to 8V rms from 4,000-20,000Hz
*Electronic protection (S-STOP)	The system is protected against any continuous or intermittent fault conditions which produce input signals not greater than 60V peak from DC to 50kHz.
Nominal impedance	8 ohms
Dimensions	510 x 265 x 240mm
Weight	8.6kg (19lb)
Finishes	Choice of walnut, teak, rosewood and black ash veneers with black or brown grille fabric as appropriate

KEF

KEF products are manufactured in England and distributed in the United Kingdom by:
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KEF reserve the right to incorporate developments and amend the specifications without prior notice, in line with continuous research and development.

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