

KEF REFERENCE SERIES MODEL 105.4



The acclaim given to MODEL 105 created a demand for a system capable of similar performance from a smaller enclosure.

MODEL 105.4 maintains the standards of truthful reproduction and stereo perspective with higher efficiency and only slightly reduced bass response.

MODEL 105.4 FEATURES

- Flat frequency response: 60Hz to 22kHz
- Contoured mid and high frequency enclosures reduce colouration off-axis
- Visual indication of optimum listening area
- Variable system geometry extends choice of listening position
- Novel bass loading technique – a KEF development – gives higher efficiency and greater power handling capacity
- Electronic protection, S-STOP, protects against overload and fault conditions
- Pairing of systems guarantees sensitivity and frequency response matched to within 0.5dB

MODEL 105.4 BENEFITS

At any volume output up to concert hall level, MODEL 105.4 offers realistic and accurate reproduction of the input signal and a remarkable stereo perspective over a wide area.

MODEL 105.4 comfortably handles the bursts of peak power essential to realistically reproduce the dynamic range of any musical instrument. Even when using amplifiers of up to 200 Watts capable of delivering the full short-duration dynamic range captured by modern recording techniques, the system cannot be damaged. A unique self-powered protection device ensures that short peak power input levels, excessive or thermal overload, cannot destroy vital components or impair calibration.



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Every MODEL 105.4 employs a 25mm soft dome tweeter with a 110mm mid range unit located in separate enclosures, and two 200mm bass units combined through a complex 19 element dividing network.

The two identical bass units are arranged to work together over the lower part of the frequency range ensuring reduced distortion and power handling capability.

To obtain an even distribution of sound, a filter system progressively reduces the output of the lower bass unit (above 200Hz) so that at the crossover frequency to the mid range unit, only one bass unit is functioning.

The close tolerances needed to realize the full potential of the MODEL 105.4 design are maintained in production by a unique computerized matching procedure so that every pair of MODEL 105.4's is matched in sensitivity and frequency response to within 1dB of the original laboratory prototypes.

A new bass loading technique resolves the problems of the complex interaction between electrical, mechanical and acoustic characteristics to achieve greater efficiency than an infinite baffle and better transient performance than a reflex enclosure.

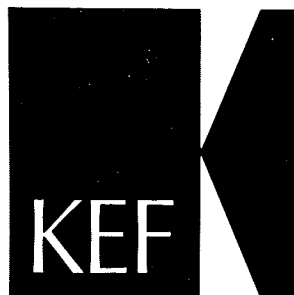
The head assembly may be adjusted vertically and horizontally to direct the optimum response achieved within a listening window 40° wide and 10° high to the desired listening position. An indicator light is used to identify the best listening area.

A self-powered electronic circuit called S-STOP protects the loudspeaker from the effects of any accidental overload, and automatically re-connects the full input signal only when the overload is removed.

MODEL 105.4 incorporates a peak level indicator pre-set to correspond with the rated output of a 200 Watt amplifier. Should the dynamic range of the input signal make excessive demands on the capability of the amplifier such that 'clipping' and audible distortion may occur, the indicator will light.

SPECIFICATION

Frequency range	55Hz to 20kHz ± 2 dB at 2m on design axis (-10dB at 30Hz and 30kHz)
Directional characteristics	Within 1dB of response on design axis up to 20,000Hz for $\pm 5^\circ$ vertically up to 10,000Hz for $\pm 20^\circ$ horizontally
Maximum output	108dB spl on programme peaks under typical listening conditions
Characteristic sensitivity level	86dB spl at 1m on measuring axis for pink noise input of 1W (anechoic conditions)
Distortion	Second harmonic less than 1% from 50-20,000Hz Third harmonic less than 1% from 30-20,000Hz Measured at 1m on measuring axis at mean spl of 90dB
Enclosures	Low frequency enclosure: 40 litres Mid and high frequency enclosure: 8.5 litres
Power handling capacity: Programme rating	200W
Maximum continuous sinusoidal input	20V rms, 20-50Hz rising to 28V rms from 100-500Hz falling to 20V rms from 1,000-2,500Hz falling to 7V 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 70V peak from DC to 50kHz
Nominal impedance	8 ohms
Peak level indicator	LED flashes to indicate input power level of 200W
Listening window indicator	LED glows continuously to indicate orientation of head assembly and facilitate alignment of listening window
Dimensions	936 x 350 x 380mm
Weight	22kg (including head) 45lb
Finishes	Choice of walnut, teak, rosewood and black ash veneers with black grille fabric



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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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