The KEF Celeste was the first ultra compact speaker system designed to give true high fidelity performance combined with good sensitivity and large power handling capacity. Its introduction in 1962 revolutionised the whole conception of bookshelf speakers and it has been widely copied since, without being equalled. In the last three years many thousands of Celestes have been sold all over the world and its superb qualities have been praised by musicians, enthusiasts and technicians of many lands.

The outstanding features of the Celeste are very smooth frequency response and wide treble dispersion, which set it apart from all other speakers of comparable size and price.

Two separate units are used to cover the entire frequency range. Both are of unique design and are responsible for the outstanding performance of the Celeste. The bass unit is the B.139 which is fitted with a flat, rectangular diaphragm moulded from thick plastic foam. It is stiffened by aluminium skins to provide an extraordinarily rigid structure which completely avoids all trace of 'break-up' over the working range. A full description of the B.139 appears towards the end of this leaflet.

Frequencies above 1,000 c/s are separated by a printed circuit crossover network and channelled to a T.15 high frequency radiator. This superb treble unit carries the response smoothly upwards to beyond 20,000 c/s, giving wide dispersion of the high frequencies and exceptional transient response. Its hemispherical diaphragm is moulded from Melinex (known as Mylar in the U.S.A. and Hostaphan in Europe). This tough synthetic material is virtually indestructible and extremely stable in all climates. The T.15 reproduces strings and other delicate sounds with a degree of transparency and accuracy normally associated with electrostatics and ribbons yet it possesses the ruggedness and reliability of a public address speaker. Small wonder that it has been acclaimed everywhere as one of the finest HF units available.

**SPECIFICATION:**

- Size: $18'' \times 10\frac{1}{2}'' \times 6\frac{1}{2}''$
  
  46 cm. x 27 cm. x 17 cm.
- Weight: 24 lb. 11 kg.
- Impedance: 15 ohms.
- Max input: 15 watts r.m.s. 30 watts peak.
- System resonance: 85 c/s.
- Frequency range: 60 - 20,000 c/s.
- Input connections: Terminals.

Fitted with separate B.139 woofer, T.15 tweeter and four element printed circuit crossover network.

Finished in super grade hardwood veneer with a choice of oiled American walnut or teak. The attractive coffee fleck Vynair grille is made exclusively for K.E.F. by I.C.I. The styling is commendably modern without seeming austere. It blends unobtrusively with furnishings both classical and contemporary.
Portable Celeste

The PORTABLE CELESTE is an industrial/professional version housed in a rugged enclosure fitted with collapsible carrying handle and anodised metal grille. It is suitable for high quality reproduction of sound in schools and institutions and for use as a portable monitor speaker. Many Portable Celestes are used by Radio Television Française in outside broadcast equipment.

SPECIFICATION:

Size: 20" x 12½" x 7½".

Weight: 26½ lb. 13 kg.

Impedance: 15 ohms.

Max input: 15 watts r.m.s. 30 watts peak.

System resonance: 65 c/s.

Frequency range: 40 - 20,000 c/s.

Input connections: Bulgin P. 74 (Cannon XLR.3 available at extra cost)

Fitted with separate B.139 woofer, T.15 tweeter and four element printed circuit crossover network.

Finished in durable hammer-grey lacquer.

Group 4 Cantata

This is a new model originally designed for the GROUP 4 integrated High Fidelity Assembly, and now available separately. It represents the ultimate in slimline speakers both sonically and visually.

Interior arrangements are similar to those of the Celeste, employing the B.139 and T.15 units with printed circuit crossover network. The somewhat larger enclosure gives a noticeable improvement in bass response and as one would expect, the middle and high frequencies maintain that delicate transparency which is the hallmark of KEF speakers.

Design team Wright + Connor have collaborated with us in producing a cabinet of trend setting calibre. It is strikingly different from the usual run of 'little boxes' and its appearance matches the fine performance.

SPECIFICATION:

Size: 24" x 16" x 6".

Weight: 27½ lb. 12.5 kg.

Impedance: 15 ohms.

Max input: 15 watts r.m.s.

System resonance: 60 c/s.

Frequency range: 40 - 20,000 c/s.

Input connections: Terminals.

Fitted with B.139 bass unit, T.15 HF radiator and four element printed circuit crossover network (For details of units see Page 4)

Finished in selected Teak veneer with brushed antique silver trim and lustre black grille fabric.
Duette

The Duette is an entirely new approach to loudspeaker design. No other compact system contains so many outstanding technical advances.

The B.139 and T.15 units are incorporated with a seven element printed circuit crossover network in a cabinet of optimum size to give flawless reproduction over the full audio spectrum. The bass reproduction is quite astonishing from such a small enclosure. Organ pedal notes and the bass instruments of the orchestra are brought out with amazing clarity and weight, due to the special electrical compensation provided to offset the effects of cabinet diffraction. This is another KEF exclusivity—no other domestic high fidelity speaker incorporates this feature.

Very great care has been taken with the tonal balance of the mid range to ensure naturalness whilst very high frequencies are radiated without noticeable directional effects or stridency. The sound from the Duette can only be matched by the biggest and most elaborate systems.

SPECIFICATION:

Size: 24" x 15" x 9½".
61 cm. x 38 cm. x 24 cm.
Weight: 48 lb. 22 kg.
Impedance: 15 ohms.
Max input: 15 watts r.m.s. 30 watts peak.
System resonance: 45 c/s.
Frequency range: 30 - 20,000 c/s.
Input connections: Terminals.

Fitted with B.139 bass unit, T.15 HF radiator and seven element printed circuit crossover network.

Finished in selected hardwood veneers and available with a choice of oiled American walnut or teak with coffee fleck grille.

Duette de luxe

This superb system presents the Duette speaker in its finest form, housed in the most elegant compact enclosure ever created. The cabinet design is by prize winning design expert Robert Heritage Des. R. C. A., F.S.I.A. You will find no penny pinching here, even the back panel is veneered. The Duette Deluxe is for connoisseurs of fine sound in fine furniture.

SPECIFICATION:

Size: 24" x 15" x 9½".
61 cm. x 38 cm. x 24 cm.
Weight: 48 lb. 22 kg.
Impedance: 15 ohms.
Max input: 15 watts r.m.s. 30 watts peak.
System resonance: 45 c/s.
Frequency range: 30 - 20,000 c/s.
Input connections: Terminals.

Fitted with B.139 bass unit, T.15 HF radiator and seven element printed circuit crossover network.

Finished in selected hardwood veneers and available with a choice of oiled American walnut or teak with matching grille.
Components for the Home Constructor and Architect

There are some applications for which the standard range of KEF cabinet models are unsuitable and in these cases our complete baffle assembly is a good solution. The baffle is fitted with units and crossover network, wired and tested ready for installation in a cabinet, cupboard or architectural recess. A booklet of enclosure designs giving all the necessary constructional information is available free on request.

K2 BAFFLE.

This is the two speaker assembly used in the Duette. It is an ideal low-cost system giving superb results in enclosures of modest size. Fitted with B.139, T.15 and DN.5 crossover network.

SPECIFICATION:
Size: 221⁄4" x 131⁄4" x 4".
Weight: 20 lb. 9 kg.
Impedance: 15 ohms.
Max input: 15 watts r.m.s.
Frequency range: 30 - 20,000 c/s.

B139 WOOFER.

One of the most highly developed bass drivers in the world, the B.139 is an ideal unit for compact systems. Unlike paper cones which have irregular frequency response and serious colouration due to poor transient response, the aluminium stressed plastic diaphragm of the B.139 gives complete freedom from transient distortion and break-up. The special shape of the diaphragm is designed to give very wide dispersion up to 1,000 c/s where the off-axis response is only 1 dB down at 45°.

SPECIFICATION:
Size: 13" x 9½" x 3½".
Weight: 14 lb. 6.4 kg.
Impedance: 15 ohms.
Max input: 15 watts r.m.s.
Flux density: 10,500 oersted.
Total flux: 127,000 maxwells.
Frequency range: 30 - 1,000 c/s.
Fundamental resonance: 25 c/s.

T15 TWEETER

A wide range, low distortion high frequency radiator; fitted with exclusive hemispherical diaphragm made from aluminised Melinex, giving wonderfully smooth response to beyond 20,000 c/s with very wide dispersion of the higher frequencies. Totally enclosed at the rear, it avoids interaction with the low frequencies in an enclosure. The diaphragm assembly is easily replaced without special tools or jigs.

SPECIFICATION:
Size: 3½" dia. x 1½" deep.
Weight: 2 lb. 1 kg.
Impedance: 15 ohms.
Max input: 6 watts continuous r.m.s.
Frequency range: 800 - 20,000 c/s.
Fundamental resonance: 650 c/s.

B1814 WOOFER.

The B.1814 is one of the largest diaphragms in the world and it has over twice the area of a 12" round unit. When properly baffled, it is capable of superb low-frequency reproduction, and is therefore of special interest to organ enthusiasts.

SPECIFICATION:
Size: 18" x 14" x 4½".
Weight: 16 lb. 7.3 kg.
Impedance: 15 ohms.
Max input: 25 watts.
Flux density: 12,700 oersted.
Total flux: 165,000 maxwells.
Frequency range: 20 - 1,000 c/s.
Fundamental resonance: 20 c/s.

FEATURES:
* Super rigid plastic & aluminium diaphragm for smooth response
* Roll surround gives linear edge suspension and accurate transient reproduction
* Nylon back suspension maintains precise centering.
* Fibreglass voice coil former withstands all stresses.
* Massive machined aluminium chassis for long life alignment
* Powerful flat Ferroa alt magnet assembly.

KEF electronics limited
TOVIL, MAIDSTONE, KENT.

Telegrams: KEF, Maidstone. Telephone: Maidstone 58361. Telex: 96197
T27
This new high frequency unit is of the very latest design and gives the highest level of performance so far achieved from a moving coil device. The domed Melinek diaphragm is small enough to give a broad radiation pattern up to the highest audio frequency. The high frequency response extends smoothly beyond 30 kHz. The T27 is beautifully engineered in a moulded plastic case with large ferrite magnet assembly.

SPECIFICATION:

- Size: 4⅜ in. dia. x 1⅛ in. deep
- Weight: 1 lb. 6½ oz.
- Impedance: 8 ohms
- Max. input: 25 watts
- Flux density: 12,500 oersted
- Total flux: 24,700 maxwells
- Frequency range: 3 - 30 kHz
- Fundamental resonance: 900 Hz.

T15 Mk. 2. TWEETER

A wide range, low distortion high frequency radiator, fitted with exclusive hemispherical diaphragm made from aluminium Melinek, giving wonderfully smooth response to beyond 20,000 c/s with wide dispersion of the higher frequencies. The Mk. 2 version has an improved acoustical circuit which ensures level response in the critical frequency range below 4 kHz.

SPECIFICATION:

- Size: 3⅛ in. dia. x 1⅛ in. deep.
- Weight: 2 lb., 1 kg.
- Impedance: 15 ohms.
- Max. input: 6 watts continuous rms. above 1 kHz, 15 watts music rating.
- Flux density: 12,000 oersted.
- Total flux: 43,000 maxwells.
- Frequency range: 800 - 20,000 Hz.
- Fundamental resonance: 550 Hz.

B139 Mk. 2. WOOFER

One of the most highly developed bass drivers in the world, the B139 is an ideal unit for compact systems. The aluminium stressed plastic diaphragm of the B139 gives complete freedom from transient distortion and break-up. The special shape of the diaphragm is designed to give very wide dispersion up to 1,000 c/s where the response is only 1 dB down at 45° off axis. The Mark 2 version has a neoprene roll surround.

SPECIFICATION:

- Size: 13 x 9½ x 3 in.
- Weight: 14 lb., 6.4 kg.
- Impedance: 15 ohms.
- Max. input: 15 watts rms.
- Flux density: 10,500 oersted.
- Total flux: 137,000 maxwells.
- Frequency range: 30 - 1,000 Hz.
- Fundamental resonance: 25 Hz.

B1814 WOOFER

The B1814 uses one of the largest diaphragms in the world and it has over twice the area of a 12 in. circular unit. When properly baffled, it is capable of superb low frequency reproduction and is therefore of special interest to organ enthusiasts.

SPECIFICATION:

- Size: 10 x 14 x 4½ in.
- Weight: 16 lb., 7.3 kg.
- Impedance: 15 ohms.
- Max. input: 25 watts.
- Flux density: 13,700 oersted.
- Total flux: 165,000 maxwells.
- Frequency range: 20 - 1,000 Hz.
- Fundamental resonance: 20 Hz.

DN8

A three element printed circuit dividing network for use in combining the B139 and T15 with crossover at 1 kHz.

Specification:

- Size: 2½ x 2½ x 1¾ in.
- Weight: 3 oz.

DN9

A three element printed circuit dividing network for use in combining the T27 with a suitable woofer having an impedance of 5 - 8 ohms. The crossover frequency is approximately 4 kHz.

Specification:

- Size: 2⅛ x 2⅛ x 1½ in.
- Weight: 2½ oz.

Other literature available on request . . . . .

How to Choose a Loudspeaker
A witty and informative guide on the finer points of speaker selection. Please send 6d stamp.

Building Your Own Enclosures
Practical advice and drawings for the 'do-it-yourself' enthusiast.

Technical Reviews
Reprints from well known journals which have reviewed KEF Products.

KeF Electronics Limited
ToVil, Maidstone, Kent

Telegrams: KEF, Maidstone Telephone: Maidstone (0622) 57258 Telex: 96197

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