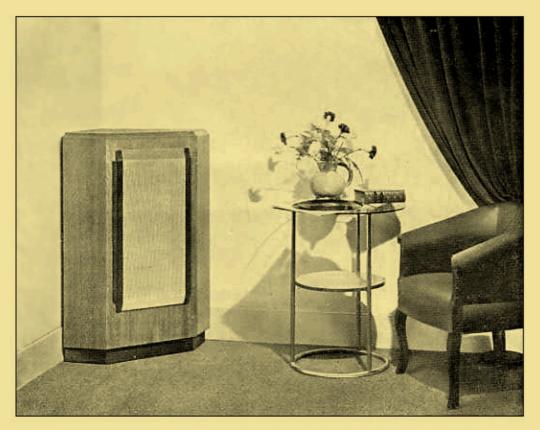
# TANNOY DUAL CONCENTRIC LOUDSPEAKER



# "TANNOY" DUAL CONCENTRIC LOUDSPEAKER SYSTEM.

This twin Loudspeaker system consists of a direct radiator low frequency unit mounted concentrically with a horn-loaded high frequency unit. The voice coils of both Loudspeaker systems are fed through a specially designed cross-over network. The frequency response of both units is intrinsically level and the wide frequency response is not obtained by trick effects, such as cone break-up or diaphragm resonance. The design of the low frequency cone, which forms the final section of the high frequency horn, is such that even distribution of high frequencies is obtained over a wide angle and in order that the low frequency diaphragm shall move as a true piston, the body thickness has been increased and the surround is specially treated to prevent the setting up of subsidiary resonances. In the design of this Loudspeaker, great care has been taken to ensure that the entire system is truly apperiodic which, together with its wide frequency range result in really outstanding reproduction.

This Loudspeaker unit is available in two forms — a 15" version, capable of handling up to 25 watts which is particularly useful for use with high quality Sound Reinforcement systems and a 12" version capable of handling up to 15 watts, which finds its main application in high quality Phonograph and Radio reproducing systems. An example of a suitable Cabinet design for the latter application is shown above and takes the form of a corner mounting Bass Reflex Cabinet.

There is no doubt that where the input source is of sufficiently high quality, the "TANNOY" Dual Concentric Loudspeaker system is well in advance of any type of Loudspeaker hitherto commercially available.

Manufactured by

TANNOY PRODUCTS LTD.

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# BEAM INSTRUMENTS CORPORATION

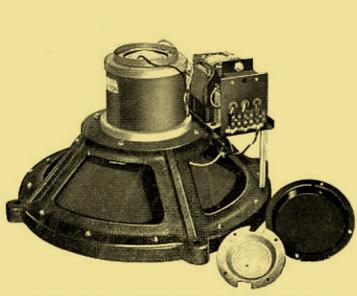
EMPIRE STATE BUILDING, 350, FIFTH AVENUE, NEW YORK, I. N.Y.

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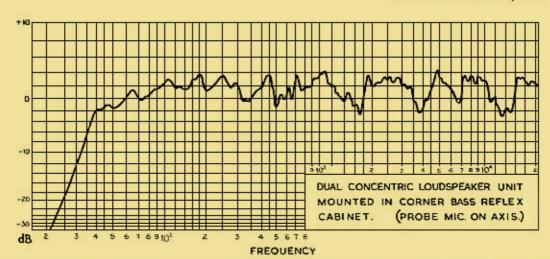


# DUAL CONCENTRIC LOUDSPEAKER SYSTEMS



Unit with rear covers removed showing H.F. Unit and crossover

Cross sectional Diagram shewing details of the Dual Concentric System.



The above response curve relates to a 15" dual concentric, the response of a 12" unit is substantially the same in all respects

# TECHNICAL SPECIFICATION.

# 12" Dual Concentric Loudspeaker.

### H.F. Voice coil diameter L.F. H.F. .. Impedance 14 ohms. at 3000 c.p.s. 18 ohms, at 400 c.p.s. 10,000 gauss, B+L: 6·3 x 1014 15,000 gauss, B+L: 1·1 x 1014 L.F. Flux density L.F. Gap H.F. Gap Power handling capacity 15 watts. Impedance via crossover network 18 ohms. Polar distribution - 3dB at 10,000 c.p.s. for 60° inc. angle Intermodulation produces less than 2 per cent. Bass resonance 35 c.p.s. Crossover frequency 1,700 c.p.s. Overall Diameter of Frame 121 Overall Depth Fixing Holes p.c.d. Weight 10 lbs. (Crossover network on separate chassis.) Finish, Black Anodised and Cadmium plate

## 15" Dual Concentric Loudspeaker.

| H.F. Voice coil diameter    | 2                                   |
|-----------------------------|-------------------------------------|
| 1 C                         | 2"                                  |
| H.F Impedance               | 12 ohms, at 2000 c.p.s.             |
| L.F                         | 12 ohms, at 403 c.p.s.              |
| Flux density L.F. Gap       | 12,000 gauss, Br L: 7-7 x 1014      |
| H.F. Gap                    | 18,000 gauss, B. Lz 1-39 x 1014     |
| Power handling capacity     | 25 watts peak.                      |
| Impedance via crossover     | to warre bear.                      |
| network                     | 15 ohms.                            |
|                             | at 10,000 c.p.s. for 60° inc. angle |
| Intermodulation produces    | less than 2 per cent.               |
| Bass resonance              | 40 c.p.s.                           |
| Crossover frequency         | 1000 c.p.s.                         |
| Overall diameter of Frame   | 151"                                |
| Overall depth               | iii                                 |
| Fixing Holes p.c.d.         | 15ar                                |
| Weight, including crossover |                                     |
| Finish, Cadmium plate and   |                                     |
| timent enumerin buse and    | acore comme                         |