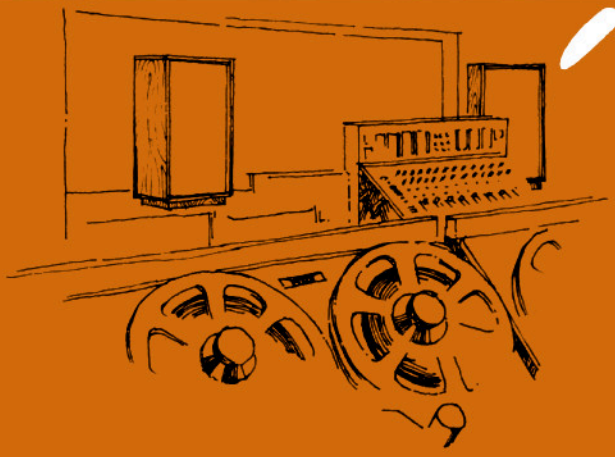
TANNOY

the Monitor

HIGH PERFORMANCE DUAL



LOUDSPEAKER UNITS AND ENCLOSURES

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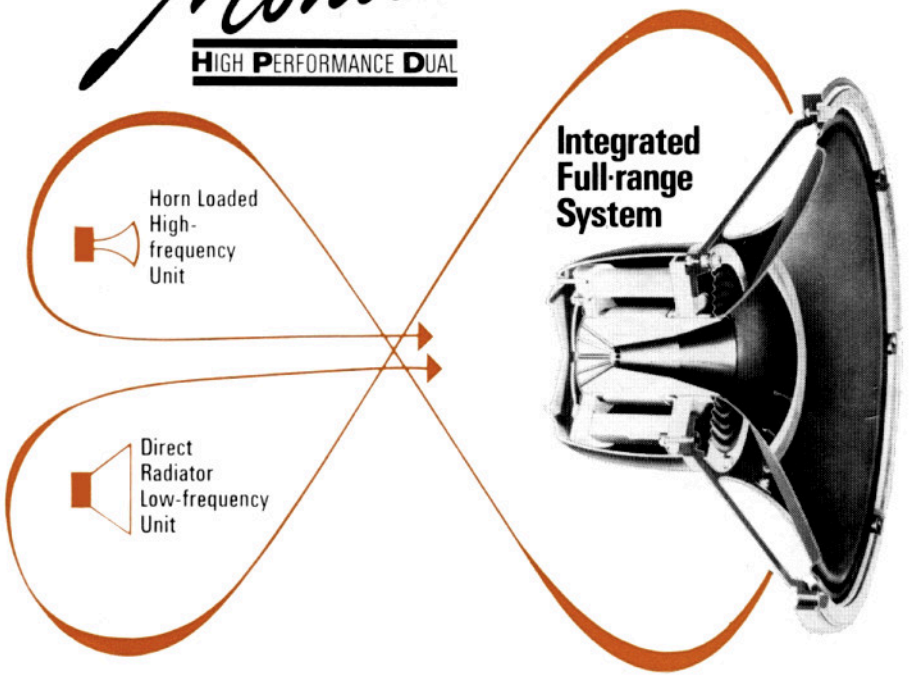
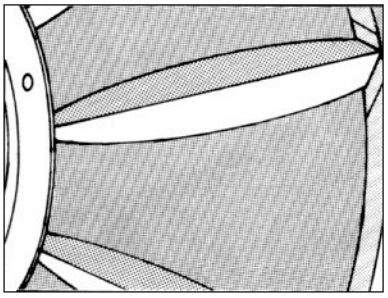
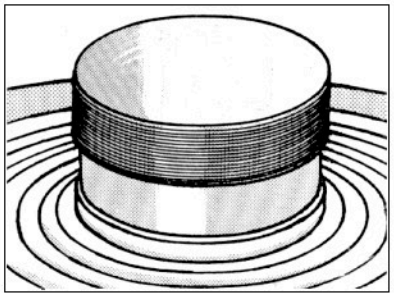
HIGH PERFORMANCE DUAL

The Monitor H.P.D. represents a further outstanding improvement and refinement of a loudspeaker system which has become regarded as a quality standard over the last 25 years by Recording, Broadcasting and Television Studios throughout the world. There is a very good chance that your favourite records and tapes were monitored on Tannoy Dual Concentric Loudspeakers, and to select these superbly engineered, individually hand assembled speakers for your home music system assures you of the same professional performance. The Tannoy Organisation has been continuously engaged in the manufacture of specialised high quality loudspeakers for nearly 50 years. This unequalled experience, combined with one of the most modern loudspeaker factories in Europe, is your guarantee of satisfaction.

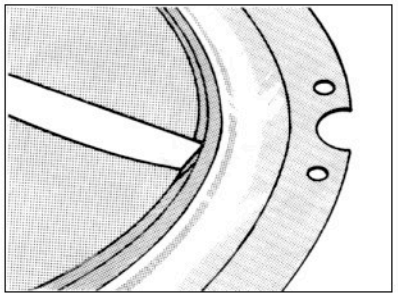




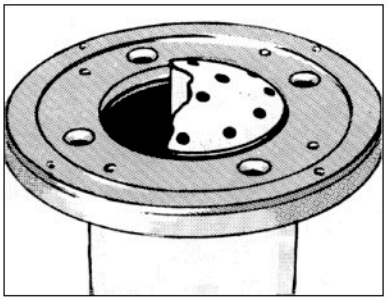
The Girdacoustic Cone
improves frequency and transient response, gives much increased power handling capacity and greater mechanical stability.



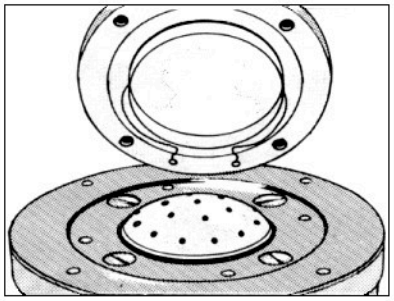
The High Temperature Voice Coil
assures absolute climatic stability and great mechanical strength together with much improved power handling capacity.



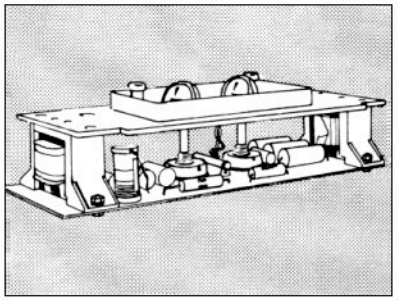
The Tanoplas Surround
gives low bass resonance with excellent mechanical stability and freedom from edge reflections.



Patented Magnetic Shunt
combined with specially treated and selected steel gives maximum magnetic flux in the unique Tannoy twin gap system. Improves sensitivity and damping.



Unique High Frequency Unit
with separate diaphragm and voice coil coupled to the horn by a 19 element phase-matching system.



High Power Crossover Unit
with solid dielectric condensers throughout, combined with treble energy and roll-off controls.

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technical specification

Model	**385** (15″)	**315** (12″)	**295** (10″)
Frequency response	20-20,000 Hz	20-20,000 Hz	22-20,000 Hz
Polar Distribution for 60° inc. Angle	−4dB at 10,000 Hz	−3dB at 10,000 Hz	−2dB at 10,000 Hz
Power Handling Capacity	85W	60W	50W
Sound pressure @ 1 metre for 1 watt input*	92dB	90·5dB	90·5dB
Impedance via Crossover Network	8Ω (5Ω min)	8Ω (5Ω min)	8Ω (5Ω min)
H.F. Voice Coil Diameter	2in (50·8mm)	2in (50·8mm)	2in (50·8mm)
L.F. Voice Coil Diameter	2in. (50·8mm)	2in (50·8mm)	2in (50·8mm)
Intermodulation Products	Less than 2%	Less than 2%	Less than 2%
Bass Resonance	20 Hz	20 Hz	22 Hz
Magnet Assembly Weight	13lb (5·9 kg)	7½lb (3·4 kg)	7½lb (3·4 kg)
Magnet Material	Alcomax 5	Alcomax	Alcomax
Crossover Frequency	1000 Hz	1000 Hz	1000 Hz
Overall Diameter of Frame	15¼in (38·73 cm)	12⅜in (31·43 cm)	12$\frac{1}{32}$in (30·57 cm)
Overall Depth	9 in (22·86 cm)	7½in (19·05 cm)	7¼in (18·415 cm)
Fixing Holes P.C.D.	14½in (36·83cm)	11¾in (29·84 cm)	11in (27·94 cm)
Crossover Network & Switch Panel Weight	1lb 13oz (·821 kg)	1lb 13oz (·821 kg)	1lb 13oz (·821 kg)
Total Weight in Carton (approx)	31lb (14 kg)	19lb (8·62 kg)	18lb (8·17 kg)
Finish			
Cover	High impact plastic	High impact plastic	High impact plastic
Frame	Stove enamel	Stove enamel	Stove enamel
Magnet Assembly Parts	Cadmium plate	Cadmium plate	Cadmium plate

* In minimum size cabinet in 2000 ft³ (56 m³) room.

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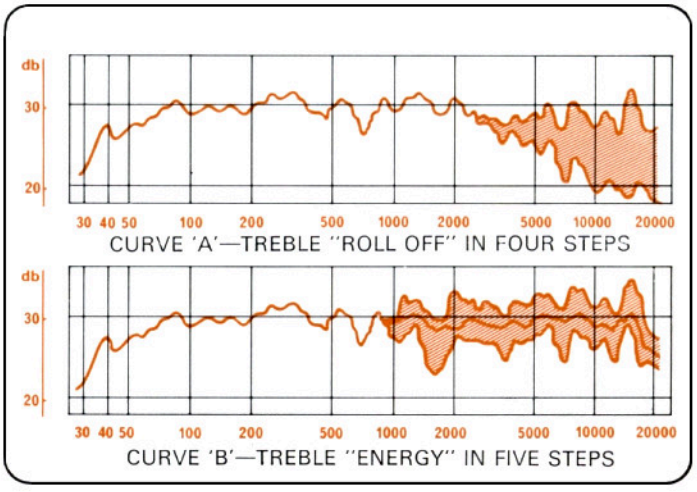
The Monitor H.P.D. crossover network incorporates comprehensive treble response controls.
These controls should be adjusted when the loudspeakers are installed in the positions in your listening room which they will finally occupy. The adjustments should be carried out with all of your amplifier tone controls in the level position, since the tone controls on your loudspeakers are intended primarily to compensate for the acoustic characteristics of your listening room, the full range of tone controls on your amplifier being left available to compensate for variations in programme material.
There are two treble tone controls, one labelled "Roll Off" and the other labelled "Energy".
The "Roll Off" control is in the level position with the knob turned fully anti-clockwise and it only effects the extreme treble response as shown in curve (A).
The control labelled "Energy" has five positions, the middle one being level; turning it anti-clockwise reduces the treble response while turning it clockwise increases the treble response over the entire band of frequencies covered by the high frequency loudspeaker unit, i.e. all frequencies above 1000 Hz, as shown in curve (B).
While the final setting of these controls is largely dependent upon individual tastes, it will generally be found that rooms which have a tendency to be hard acoustically, i.e. with relatively bare walls, and floors, and not much furnishing, will require the treble response to be reduced, while rooms which are heavily carpeted and curtained will generally require the treble controls to be in the level position or the lift position.
We would stress that this initial adjustment should be made listening to a number of gramophone records and or tapes, and if possible also when listening to good quality live broadcasts.
It is most important that these adjustments should be made to produce the most natural reproduction, and should be made with the amplifier controls in the level position.



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