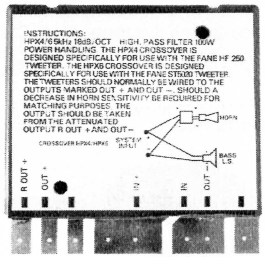
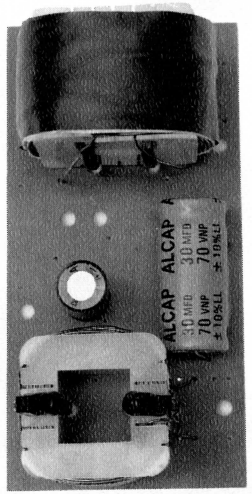
CROSSOVERS –

HPX1–6

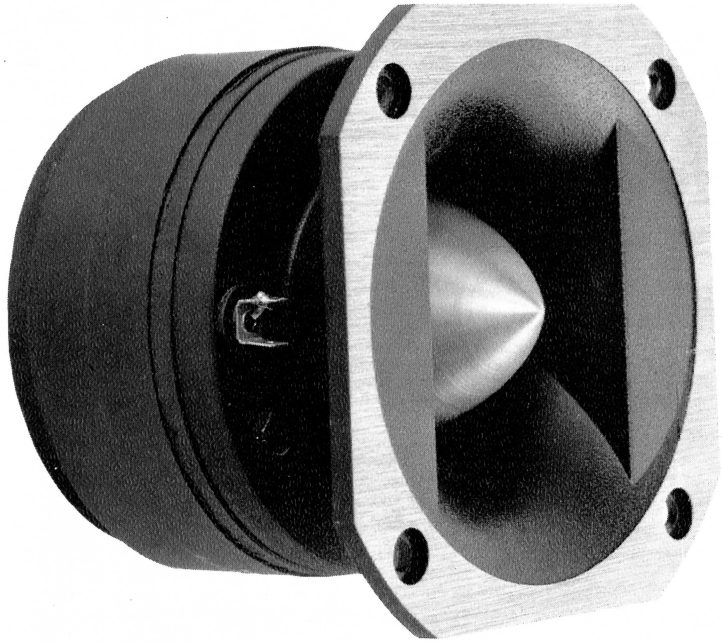




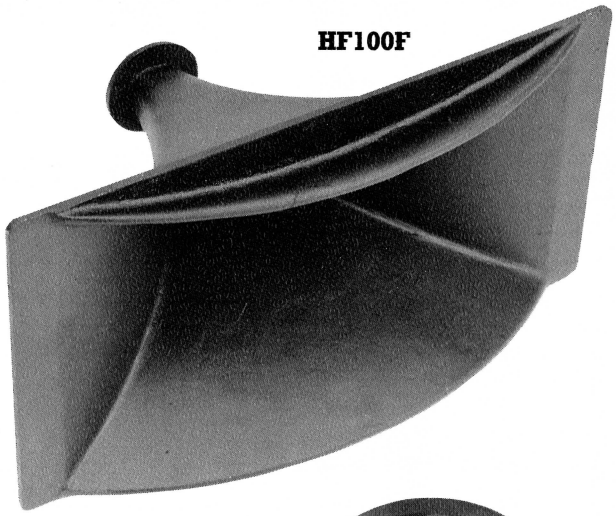


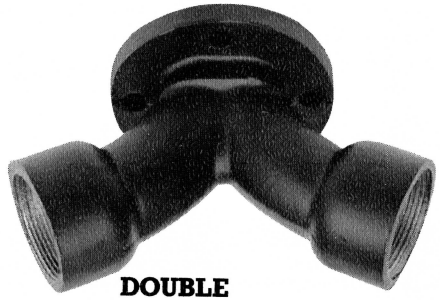
HPX5

HF250

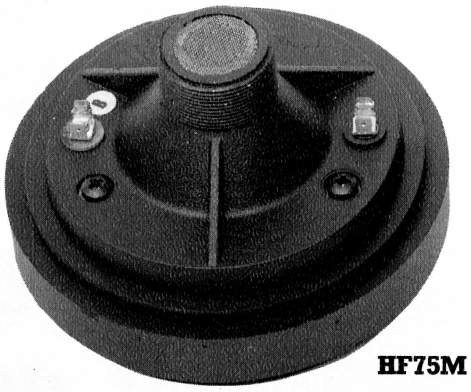


HF100F

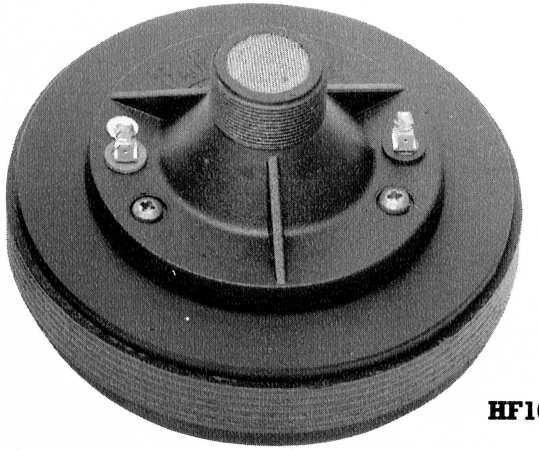




DOUBLE ADAPTOR



HF75M



HF100M

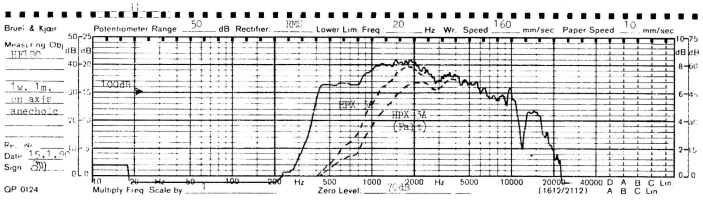
FANE

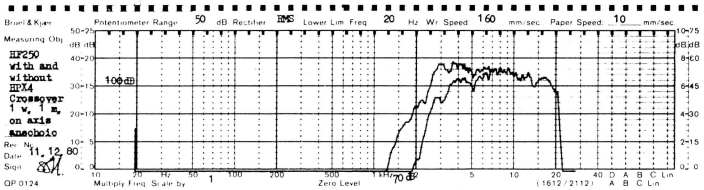
'J' SERIES HORNS – HORNS, DRIVERS
WITH INTEGRATED DRIVER
AND TWEETERS – CROSSOVERS

FANE 'HF' DRIVERS & ACCESSORIES –

The Fane HF Drivers and HF250 Tweeter can be used to supplement the midrange/high frequency response of any Guitar, Disco or P.A. Sound System.
These units must be used with a crossover to protect the drivers from low frequencies.

	BULLET TWEETER MODEL HF250	HORN DRIVER MODEL HF100M	HORN DRIVER MODEL HF75M	HORNFLARE MODEL HF100
Frequency Range	5KHz – 20KHz	1KHz – 15 KHz	1KHz – 15KHz	Dispersion 1KHz 110° Hx130°V 2KHz 145° Hx 60°V 4KHz 130° Hx 60°V 6KHz 90° Hx 50°V 8KHz 85° Hx 50°V 10KHz 90° Hx 50°V
Power Rating (system watts)	250w	100w	75w	
Average sound pressure level at 1 metre for 1 watt input	105dB	104dB	101dB	
Input inpedance	8 ohms	8 or 16 ohms	8 or 16 ohms	
Horn cut-off	–	–	–	400Hz
Overall width	4½" 114·3cm	6" 152cm dia.	4⅞" 124cm dia	17" 43·2cm
Overall Height	4½" 114·3cm	3 " 84cm	3"7·6cm	8¾" 22·1cm
Overall Depth	3¾" 93·3cm	–	–	16¼" 41·3cm*
Total Weight	6½ lbs. 2·95kg	10lbs. 4·5kg	6lbs. 2·7kg	8¼ lbs. 3·75kg





HF100/75M
FANE crossover HPX3A & HPX3B are specially designed for the HF100/75M and bass drivers.
Coupled using standard 1⅜" 18 TPI thread.

HF100 HORN
The horn is finished in stoved black texture paint.
The depth of the assembly is increased by only 1" (25mm), using twin entry adaptor and drivers.

HF250
DISTORTION ..... 3% THD @ 110 dB S.P.L./1 metre
6% THD @ 25w R.M.S. sine
POLAR RESPONSE ..... @ -6dB
5KHz 90°H x 65°V
10KHz 90°H x 36°V
15KHz 28°H x 24°V

All units have easily replaceable self centring diaphragm assemblies.
* A DOUBLE ENTRY ADAPTOR IS AVAILABLE FOR USE WITH MODEL HF100 HORN.
When Fane horns are used with Electronic Organs or Synthesizers it should be noted that the spectral distribution of power differs from normal programme material by having high frequency content.

FANE CROSSOVERS –

These are high power 'crossover' circuits using high quality components, giving low insertion losses.

HPX1 is a 12dB/octave high pass filter operating at 3KHz. Power Handling 200 wattts. (J. HORNS)
HPX2 is a 12dB/octave high pass filter operating at 5KHz. Power Handling 200 watts. (J. HORNS)
HPX3A is an 18dB/octave high pass filter operating at 1·2KHz. Power Handling 200 watts. (HF100/75M)
HPX4 is an 18dB/octave high pass filter operating at 5KHz. Power Handling 250 watts. (HF250).
HPX6 is an 18dB/octave high pass filter operating at 5KHz. Power Handling 250 watts. (ST5020).

An attenuator Resistor is supplied with the above networks and may be connected if required to decrease the sensitivity or increase Power Handling.

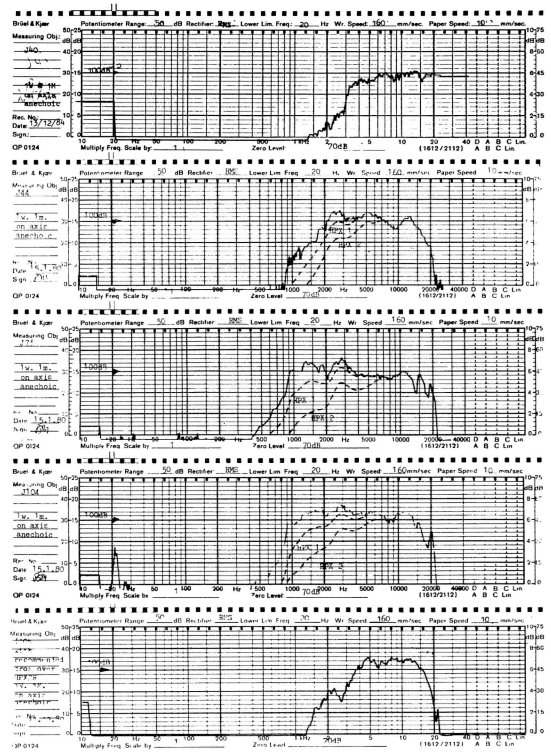
HPX3B is a 12dB/octave low pass filter operating at 1·2KHz. Power Handling 100 watts when used with **HPX3A** gives a full crossover. (HF100/75M)
HPX5 is a 12dB/octave high and low pass filter operating at 500HZ. Power Handling 500W.

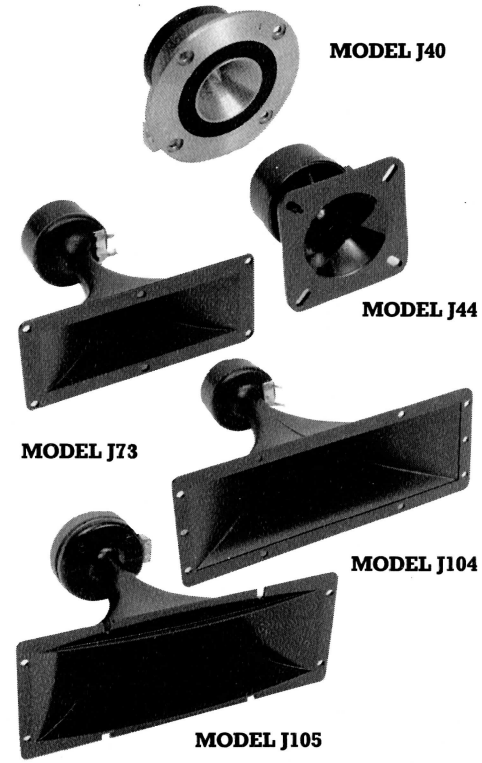
COMPREHENSIVE INSTRUCTIONS ARE ENCLOSED WITH ALL THE PRODUCTS ABOVE.

FANE 'J' SERIES HORN TWEETERS

MODEL	MODEL J40	MODEL J44	MODEL J73	MODEL J104	MODEL J105
Frequency Range	6KHz – 40KHz	3KHz – 16KHz	2KHz – 17 KHz	2KHz – 15KHz	3KHz – 15KHz
Power Rating – with HPX1	100w	30w	50w	50w	50w
recommended HPX2		50w	70w	70w	70w
Fane crossover HPX2R		70w	100w	100w	100w
Average Sound Pressure Level – at 1 metre for 1 watt input	96 ± 2dB	98 ± 2dB	95 ± 2dB	103 ± 2dB	108 ± 2dB
Input impedance	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
Horn cut-off	3KHz	1,500Hz	900Hz	820Hz	780Hz
Overall width L	3·875" 9·8cm	3·437" 8·73cm	7·252" 18·42cm	10·563" 26·83cm	10·579" 26·87cm
Overall height H	3·875" 9·8cm	3·437" 8·73cm	3·000" 7·62cm	4·000"10·16cm	4·318"10·97cm
Overall depth P	1·80" 4·5cm	3·032" 7·7cm	6·457" 16·4cm	7·717" 29·61cm	8·287" 21·05cm

The Fane J Horns exclusively imported from Japan, may be used to supplement the High Frequency Response of any Guitar, Disco or P.A. Sound System. The power rating is affected by the crossover used, see table. An attenuator resistor is included with the crossover networks and may be connected in cirucit if required. It should be used where an increase in power handling or a decrease in sensitivity is required.
Important: To avoid overloading horn units the impedance or total impedance of the Bass Drive unit/s must not exceed 8 ohms (eg. pair 16 ohms in parallel). The rated power output of the amplifier must not exceed the rated power of the horn/s according to the crossover used.





FANE ACOUSTICS LTD.
286 BRADFORD ROAD
BATLEY, WEST YORKSHIRE
WF17 5PW. ENGLAND.

TELEPHONE: 0924 - 476431
TELEX: 556498 FANE G
TELEGRAMS: 'FANE BATLEY'

FANE ACOUSTICS PURSUE AN ACTIVE PROGRAMME OF RESEARCH AND DEVELOPMENT AND RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT PRIOR NOTICE.

JANUARY 1985