

# THE PROFESSIONAL SERIES STUDIO 5HPM

FULL RANGE DRIVER



**5" / 127 mm**  
CHASSIS DIAMETER

**100 w (A.E.S.)**  
POWER HANDLING

**92.5 dB**  
SENSITIVITY (1w / 1m)

**90 Hz - 7 kHz**  
FREQUENCY RESPONSE

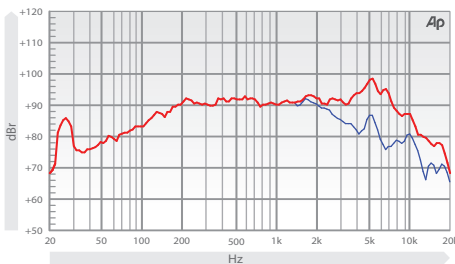
**1.5" / 38.1 mm**  
POLYAMIDE-IMIDE COATED  
COPPER VOICE COIL

Exceptional power handling and frequency coverage from compact dimensions. Primarily for full-range sound reinforcement and because of extended frequency response is also suited to multi-unit PA systems. Performance is optimised for midrange range singular / multiple use.

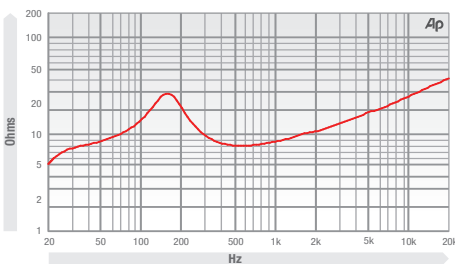
- Smooth midband response with extended high frequency range.
- Exceptional power handling from compact dimensions.

THE PROFESSIONAL SERIES

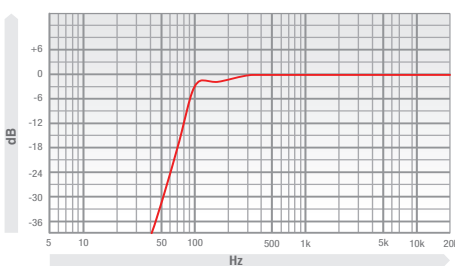
## FREQUENCY RESPONSE DATA\*



## IMPEDANCE



## PREDICTED BASS RESPONSE



## ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	5" / 127 mm
Impedance	4 / 8 / 16 Ω
Power Handling	100 w (A.E.S.)
Peak Power (6dB Crest Factor)	400 w (A.E.S.)
Usable Frequency Range -6dB	90 Hz - 7 kHz
Sensitivity (1 w - 1 m)	92.5 dB
Moving Mass inc. Air Load	6.5 grams
Minimum Impedance Zmin	7.7 Ω
Effective Piston Diameter	4.2" / 106.68 mm
Peak Displacement Volume of Cone Vd	0.045 litres
Magnet Weight	26 oz
Magnetic Gap Depth	0.23" / 6 mm
Flux Density	1.42 Tesla
Coil Winding Height	0.31" / 8 mm
Voice Coil Diameter	1.5" / 38.1 mm

## MOUNTING / SHIPPING INFORMATION

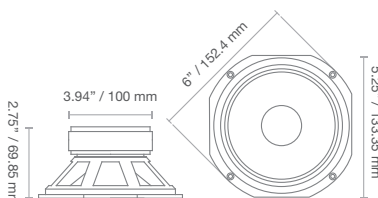
Overall Diameter	6" / 152.4 mm
Width Across Flats	5.25" / 133.35 mm
Flange Height	0.27" / 6.9 mm
Baffle Hole Diameter F/M	4.63" / 117.60 mm
Baffle Hole Diameter R/M	4.50" / 114.3 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 0.218" / 5.5 diam x 5.4688 / 138.8 PCD
Depth	2.75" / 69.85 mm
Weight	3.15 lb / 1.43 kg
Recommended Enclosure Volume	0.7 - 3.0 cu ft / 2 - 10 litres
Shipping Weight	3.65 lb / 1.66 kg
Packing Carton Dimensions	156 x 102 x 143 mm

## THIELE SMALL PARAMETERS

FS Hz	164 Hz
RE Ohms	6.6 Ω
Qms	2.3
Qes	0.715
Qts	0.54
Vas Ltr	1.63 litres
Vd litres	0.045 litres
CMS (mm/N)	0.148 mm/N
BL T/m	7.92 T/m
Mms (grams)	6.5 grams
Xmax (mm)	4.5 mm
Sd (cm²)	88 cm²
Efficiency %	1.03%
Le (1k Hz)	1.19 mH

## MATERIALS OF CONSTRUCTION

Former Material	Resin Bonded Glass Fibre
Voice Coil	Polyamide-imide Coated Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll Linen
Dust Dome	Paper
Connectors	0.125" Tab / Solder
Polarity	Positive voltage at red terminal causes forward motion of cone



- Please enquire about alternative impedances.
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 50 Hz and 500 Hz. Driver mounted in free air, test signal applied at rated power for two hours.
- Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

STUDIO 5HPM

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