



## PD. 186



### FEATURES

This splendid 18 inch, low frequency unit has a massive 125mm (5”) voice coil, capable of dissipating the tremendous heat build up when driven in concert conditions up to, and for short duration beyond, it’s 600 watt input. A further valuable consideration is the huge copper area and breathing arrangement of the voice coil which ensures superior power compression performance. A further advantage is the double suspension (dual spider) system, which maintains a pure piston action for the moving mass even when driven with the most complex programme input signals. This is an outstanding, very high power bass and sub bass drive unit suitable for all systems demanding the best possible L.F..

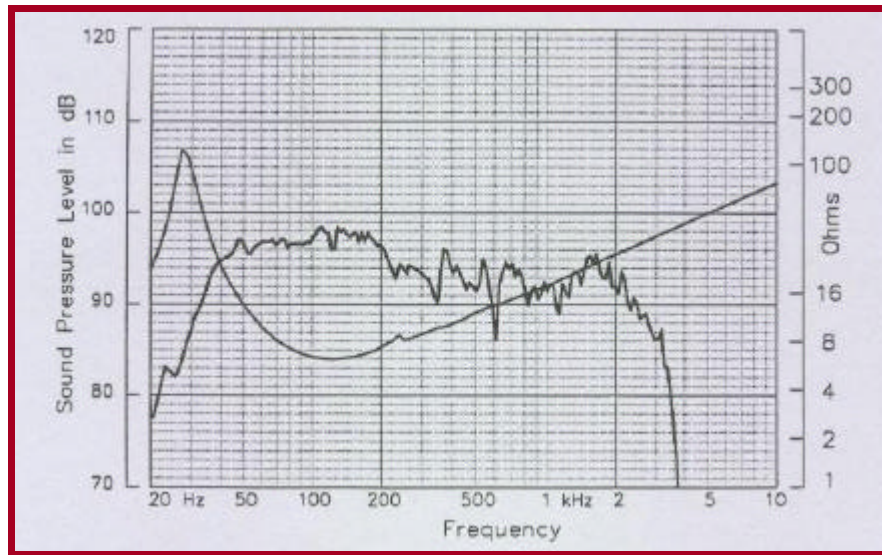
### TECHNICAL SPECIFICATION

Nominal Diameter	46 (18”)
Power Rating <sup>1</sup>	600 Watts
Frequency Range	Up to 2 kHz
Nominal Impedance	8 or 16 Ohms
Sensitivity <sup>2</sup> (1 W 1 M)	97B
Resonance	25 Hz
Enc. Vol. Recommended	100 to 350 Litres
Displacement Limit	16 mm (0.64”)
Voice Coil Diameter	127 mm (5.08”)
Voice Coil	Copper
Voice Coil Winding Depth	25 mm (1.0”)
Suspension (Spider)	Dual Fabric
Magnet Gap Depth	9 mm (0.36”)
Magnet Material/Mass	Ceramic/3.0 Kg (6.63 Lbs.)
Magnet Assembly Total Mass	11.75 Kg (25.97 Lbs.)
Flux Density	9,500 Gauss
Cone Type/Material	Curvilinear Smooth Paper
Surround	Fabric
Dust Cone	Paper
Connectors	Spring Loaded Push Button
Polarity	Positive Voltage on Red Terminal Gives Forward Cone Motion

Notes:

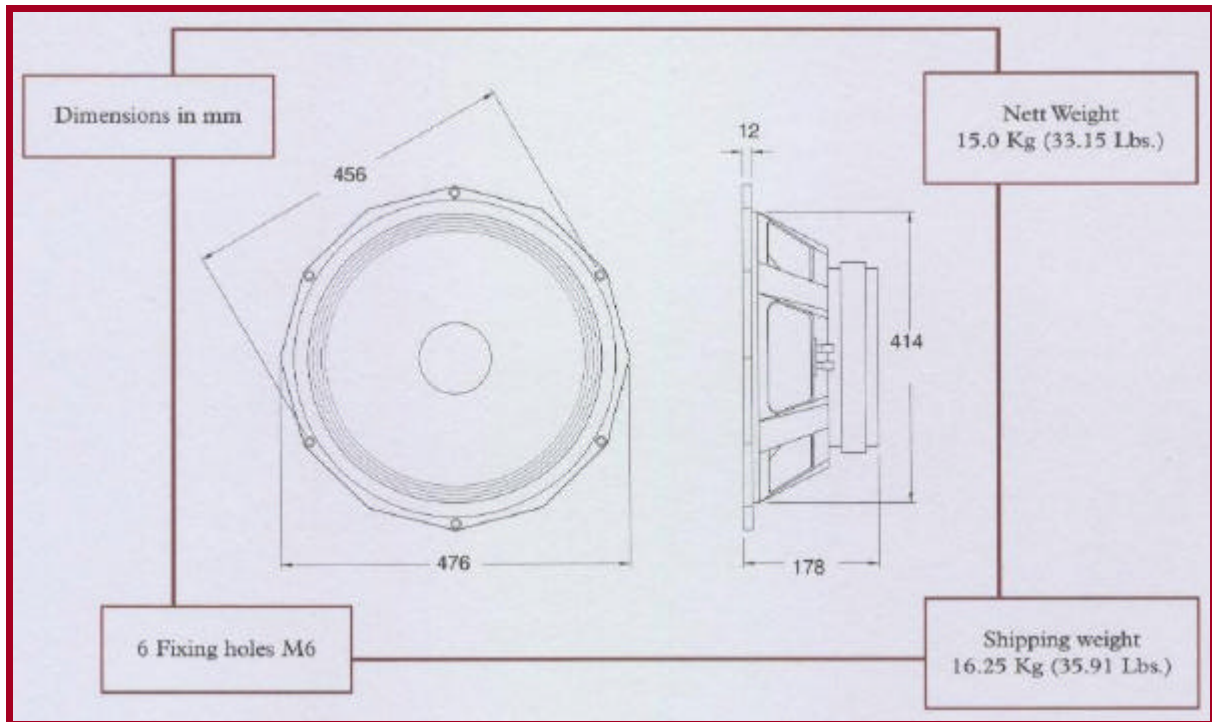
1. AES Standard (40 to 400 Hz) Program 1200 Watts
2. AES Recommended Practice.

## RESPONSE & IMPEDANCE DETAILS



Response measured in half space environment using a vented enclosure of 208 litres.

## MECHANICAL DATA



## THIELE – SMALL PARAMETERS

<b>Fs</b>	27 Hz
<b>Xmax</b>	9 mm
<b>Revc</b>	5.5 Ohms
<b>Vd</b>	$1.035 \times 10^{-4} \text{ m}^3$
<b>Ots</b>	0.312
<b>No</b>	2.05%
<b>Oms</b>	7.75

<b>Oes</b>	0.326
<b>Cms</b>	188 $\mu\text{M/N}$
<b>Vas</b>	353 Litres.
<b>Mms</b>	184 grams
<b>Sd</b>	1150 sq cm
<b>BL</b>	22.94 T/m
<b>PMX</b>	600 Watts

Notes 3. Thiele – Small Parameters follow a 600 Watt preconditioning period.

Precision Devices Operate a policy of continuous research and development. The implementation of new material or production methods will always equal or exceed the published specifications, which may change without notice. Details shown on this sheet are correct at time of publication. April 2002.

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