



## PD.121



- Heavy duty 12" cast aluminium frame with extra wide flange for increased rigidity
- 300W<sub>RMS</sub>
- 2.5" copper voice coil assembly
- 90 oz. ceramic magnet
- A B/L in excess of 23T/m for dynamic voicing

### APPLICATION NOTES

This general purpose bass/low mid range transducer is anything but standard and excels in a variety of systems being perfectly suited to either direct radiating or horn loaded mid/high applications.

The PD.121 covers the critical vocal range in a single unit and is particularly effective at faithfully reproducing the pattern of powerful low end male vocals.

The PD.121 perfectly compliments our 15", 18", 21" and 24" transducers as part of a two- or three-way system.

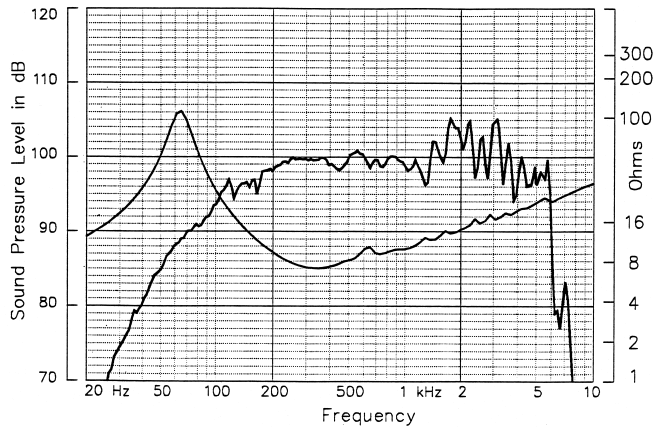
#### WORLD HEADQUARTERS

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#### FACTORY

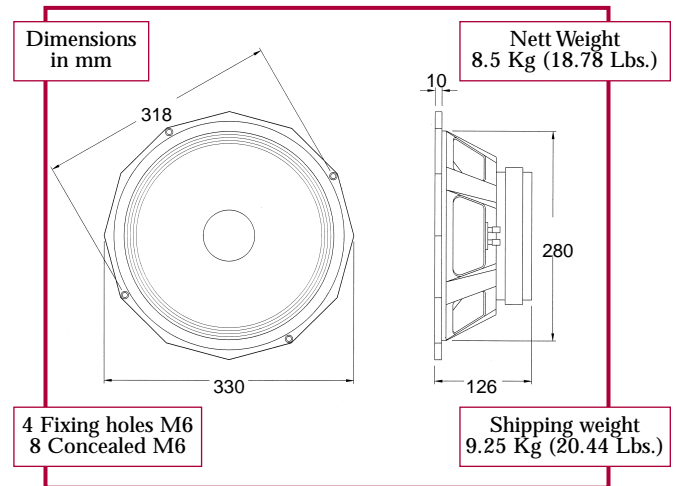
Precision Devices Jenson House Cardrew Industrial Estate Redruth Cornwall TR15 1SS England

## RESPONSE & IMPEDANCE DETAIL



Response measured in a half space environment using a vented enclosure of 35 litres.

## MECHANICAL DATA



## TECHNICAL SPECIFICATION

Nominal Diameter	30cm (12")
Power rating <sup>1</sup>	300 Watts
Frequency range	Up to 6 kHz
Nominal Impedance	8 or 16 Ohms
Sensitivity <sup>2</sup> (1 W 1 M)	100 dB
Resonance	60 Hz
Enc. Vol. Recommended	10 to 60 Litres
Displacement limit	10 mm (0.40")
Voice coil diameter	63 mm (2.52")
Voice coil	Copper
Voice coil winding depth	12 mm (0.48")
Suspension (Spider)	Fabric
Magnet gap depth	9 mm (0.36")
Magnet material/mass	Ceramic/2.5 Kg (90 oz.)
Magnetic assembly total mass	7.8 Kg (17.24 Lbs.)
Flux Density	15,000 Gauss
Cone type/material	Curvilinear Smooth Paper
Surround	Fabric
Dust dome	Paper
Connectors	Spring loaded push button metal bodied
Polarity	Positive Voltage on Red Terminal gives forward cone motion

### Notes

1. AES Standard (60 to 600 Hz) Program 600 Watts
2. AES Recommended Practice.

## THIELE - SMALL PARAMETERS

<b>F<sub>s</sub></b>	59 Hz	<b>P<sub>mx</sub></b>	300 Watts
<b>X<sub>max</sub></b>	2 mm	<b>Q<sub>es</sub></b>	0.209
<b>Re<sub>vc</sub></b>	5.7 Ohms	<b>C<sub>ms</sub></b>	135 μM/N
<b>V<sub>d</sub></b>	1.06 x10 <sup>-4</sup> m <sup>3</sup>	<b>V<sub>as</sub></b>	54 Litres
<b>Q<sub>ts</sub></b>	0.201	<b>M<sub>ms</sub></b>	54 grams
<b>N<sub>o</sub></b>	5.1%	<b>S<sub>d</sub></b>	530 sq cm
<b>Q<sub>ms</sub></b>	4.96	<b>BL</b>	23.36 T/m

### Notes

3. Thiele - Small Parameters follow a 300 Watt preconditioning period.