PRECISION DEVICES
PROFESSIONAL AUDIO TRANSDUCERS

PD.1845-2N

SUB BASS DRIVER

VERIFIED WITH KLIPPEL

18” / 457.2 mm
NOMINAL DIAMETER

30 Hz - 1 kHz
FREQUENCY RESPONSE

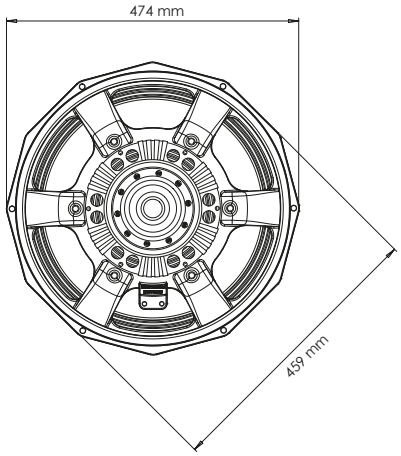
4.5” / 114.3 mm
VOICE COIL DIAMETER

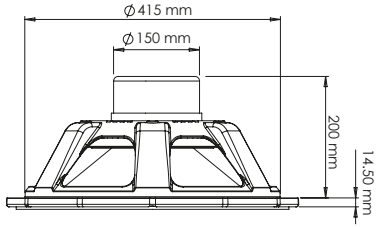
97.5 dB
SENSITIVITY (1W/ 1m)

1800 W (A.E.S.)
POWER HANDLING

18 mm Xmax
MAXIMUM LINEAR EXCURSION

- **3600W CONTINUOUS POWER HANDLING**
- **ERGONOMIC, VENTED CAST ALUMINIUM CHASSIS OFFERS IMPROVED THERMAL CONTROL**
- **ALUMINIUM DEMODULATION RING FOR ULTRA-LOW DISTORTION**
- **4.5” FOUR-LAYER, COPPER CLAD ALUMINIUM VOICE COIL**
- **VENTED LONG-THROW MOTOR SYSTEM / VOICE COIL GAP FOR REDUCED POWER COMPRESSION**
- **OPTIMISED SILICONE DAMPED DUAL SUSPENSION SYSTEM FOR ULTIMATE CONE CONTROL**
- **PERFECT FOR COMPACT, REFLEX AND HORN-LOADED ENCLOSURES**





The PD.1845-2N follows the success of the PD.1845-1N. Featuring a longer 42mm, 4.5-inch diameter, four-layer, Copper-clad aluminium voice coil design on an angular split, ventilated, glass fibre bobbin. Additional X-max allows further incredible levels of power handling over the PD.1845-1N while keeping a very vibrant and warm tonal character over its bandwidth; perfect for delivering powerful, accurate bass in compact reflex and horn-loaded enclosure designs.

The PD.1845-2N’s vented cast-aluminium chassis and forced-air cooled, long-throw motor system offers effective thermal management in the motor system and voice coil gap, decreasing the energy lost to heat which allows for extreme power handling. An optimised laminated silicon suspension keeps the cone balanced and controlled even at high cone excursion, working harmoniously to deliver the best possible performance.

PD.1845-2N

SUB BASS DRIVER

GENERAL SPECIFICATIONS

Nominal Diameter	18” / 457.2 mm
Voice Coil Diameter	4.5” / 114.3 mm
Available Impedances	4 / 8 / 16 Ohm
Power Rating [1] [2] *	1800 W (A.E.S.)
Peak Power (6dB Crest Factor)*	7200 W (A.E.S.)
Sensitivity (1W - 1m)*	97.5 dB
Frequency Range	30 Hz - 1 kHz
Recommended Enclosure Volume	110 Litres
Resonance	35 Hz
Voice Coil Winding Depth	42.00 mm / 1.65”
Magnet Gap Depth	15.0 mm / 0.59”
Flux Density	0.85 Tesla
Magnet Material	Neodymium
Voice Coil Material	Copper Clad Aluminium
Former Material	Glass Fibre
Dust Dome Material	Solid Paper
Suspension Material	Poly Cotton
Cone Material	Paper
Surround Material	M Roll Poly Cotton

WEIGHT

Nett Weight	10.90 kg / 24.03 lb
Shipping Weight	12.90 kg / 28.43 lb

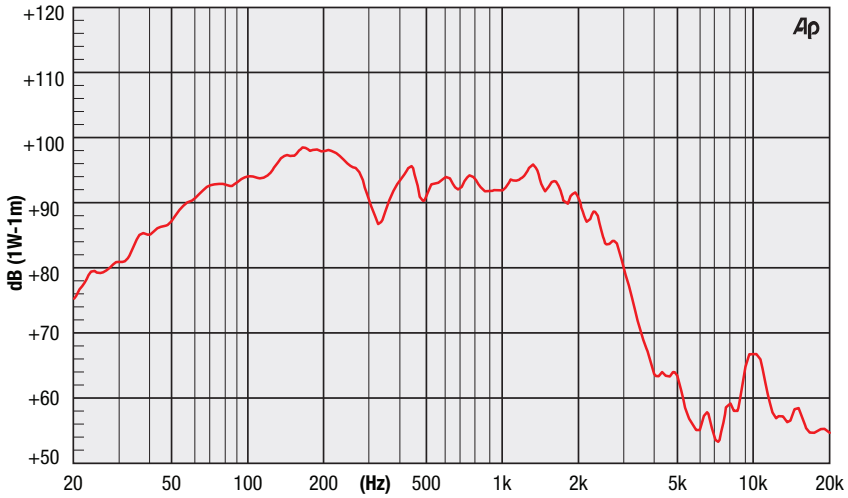
THIELE SMALL PARAMETERS (8 Ω MODEL)[3]

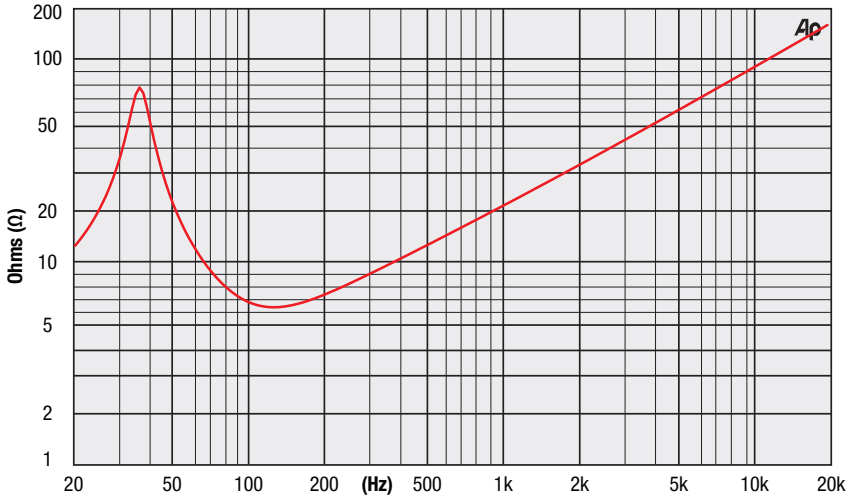
Fs	35 Hz
Re	5.2 Ω
Qms	13.5
Qes	0.4
Qts	0.388
Le (@ 1 kHz)	3.1 mH
Le (@ 10 kHz)	1.6 mH
Vas	157 Litres
Mms	250 g
Sd	1154 cm^2
Cms	83 µm/N
BL	27 T/m
Xmax	18.00 mm
Vd	2.07 Litres
Ref. Efficiency	1.68 %
EBP	87.5 Hz

DIMENSIONS & MOUNTING INFORMATION

Overall Diameter	474 mm
Width Across Flats	459 mm
Flange Height	14.5 mm
Depth (Excluding Flange)	200 mm
Magnet Diameter	150 mm
Chassis Shoulder Diameter	415 mm
Outer Bolt Circle	x6 M8 on 455 mm PCD

FREQUENCY RESPONSE & IMPEDANCE CHARTS [4]





** Power compression is the reduction of sensitivity at the specified power. Higher power ratings do not necessarily give a proportionate increase in SPL therefore the maximum SPL of the driver may significantly exceed that of other manufacturers with high power ratings.*

1. A.E.S. Standard (30 to 300- Hz) Program 1000 Watts.
2. A.E.S. Recommended Practice.
3. Thiele - Small Parameters follow a 1000 Watt preconditioning period verified by Klippel LSI measurement.
4. 2.83V. Half space response measured in a 975 Litre sealed enclosure.

Please note that frequency response measurements are supplied for comparison purposes only and are not a measure of the low frequency performance which may be achievable in a fully optimised system.