

ADP-215



DATA SHEET

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- ▶ Class D Powered (tri-amplified)
- ▶ Integrated Digital Processing
- ▶ Internal temperature control
- ▶ Electronic protection
- ▶ FIR linear phase filtering
- ▶ Online monitoring available
- ▶ Two way active system



APPLICATION:

- Front fill/ Side fill/ reinforcement
- Smaller clubs/ discos
- Smaller Live stages/ events
- Compact voice reinforcement
- Portable installation

GENERAL DESCRIPTION:

The versatile ADP-215 is part of the ADP Self powered, DSP integrated Series. It has been designed to offer the utmost sound reinforcement reliability, incorporating the latest acoustical and electronical technology and delivering incredible, dynamic sound.

The ADP-215 is an extremely high power, two-way full range cabinet providing exceptional performance. For the low-mid frequencies it uses two 15" (100 mm voice coil) neodymium transducers with nomex cones and suspension. The high frequencies are looked after by a 1.4" exit compression driver with titanium diaphragm, mounted on a 60°H x 50°V constant directivity horn.

The ADP-215 is powered with a total of 2000W of class D amplification, 2 x 750W for the low/mid frequencies and 500W for the high frequencies. Each cabinet has a DSP integrated for system protection and optimization. This DSP applies linear phase. Other features include temperature sensor, fan speed control, Ethernet options and many more.

The compact ADP-215 has an unbeatable power to size ratio, there is no need for external amplification racks, is very light weight and is the ideal solution for portable or fixed sound reinforcement. Wheels are located at the base for easy transportation and a variety of rigging options make the ADP-215 easy to set-up in minimal time. A nylon protection cover is also available. To extend the low frequency response, the ADP-18S sub bass cabinet can be used.

SPECIFICATIONS:

FREQUENCY RANGE	40Hz -20KHz
FREQUENCY RESPONSE	45Hz- 18KHz ± 3dB
COVERAGE	60° x 50°
MAX SPL	140 dB/ 143dB peak
CROSSOVER	1200 Hz
TRANSDUCERS	LF/MF: 2 x 15" Custom Neod. + Nomex Cone 100 mm Voice Coil HF: 1.4" Neod. driver with 72,2 mm Titanium diaphragm + constant directivity Horn
SHAPE	Trapezoidal
POWER AMPLIFIER	2000W Class D with Switching Power supply 2 channels / 3 power modules 2 x 750W Low/Mid + 500W High
DSP	Internal LYNX processor DSPB-22® with FIR filters
CABINET ADJUSTMENT	Back panel LCD screen
INTERNAL CONTROLS	Temperature sensor / Fan Speed control
SIGNAL CONNECTION	NEUTRIK connectors XLR Male Input XLR Female Loop Thru
CONTROL CONNECTIONS	USB (DSP programming), ETHERNET* (Online Monitoring System OMS®)
AC POWER	230v / 115v selectable. 50/60 Hz 5A
AC CONNECTIONS	16A NEUTRIK POWERCON with Looping Output
CONSTRUCTION	15 mm Premium Birch plywood
FINISH	High resistant water-based black paint
FRONT DESIGN	Black antirust steel grille
DIMENSIONS (H x W x D)	1107 x 489 x 415 mm
WEIGHT	52 Kg (114 lbs)

* Ethernet connection is optional.

KEY FEATURES AND BENEFITS:

SELF POWERED

Tri-amplified Class D with switching power supply. Includes two 1000W power modules, one for each 15" transducer and one 500W power module for the HF driver. The amplification far exceeds the transducers needs thus resulting in high output, high damping factor and extremely low levels of distortion.

DIGITAL PROCESSING & DOUBLE DYNAMICS

Latest generation 24bit/96Khz digital processor which optimizes the system components. It includes 2 channel processing electronics with functions for phase correction, driver protection, gain control, equalization, classic crossover and linear phase filtering, using double precision filters with 56bit internal processing. This enables a noticeable reduction in distortion with clean and clear equalization. The DSP incorporates sophisticated double protection limitation; RMS and Peak. The RMS limiter is used to adjust the transducer reproduction level, maintaining the original dynamics whilst at the same time respecting the original transients and achieving a better acoustical result. The Peak limiter controls the movement of the speaker, protecting it from any damage and also reducing distortion caused by over-exursion. These double dynamics lower levels of distortion and provide protection for all the speaker components and internal electronics.

TEMPERATURE & PROTECTION CONTROL

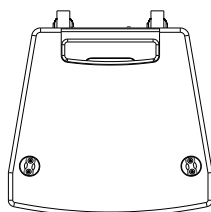
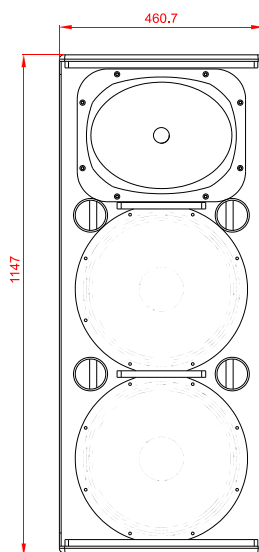
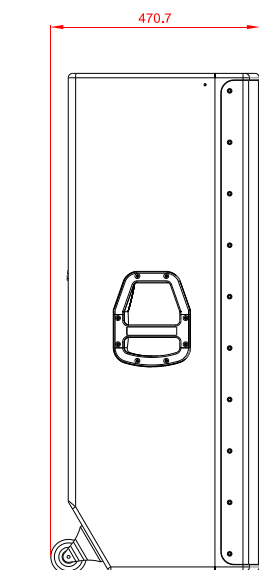
Via internal sensors a micro controller analyzes in real time the temperature of each power module. It then automatically adjusts the fan speed to apply the correct temperature dissipation, reducing both the speed of the fan and the noise generated leaving the system as quiet as possible.

COMPONENTS

Transducers and drivers with neodymium magnet groups. Nomex cones and suspension for the transducers, with weather protected membrane for outdoor use and ventilated voice coil for improved heat dissipation. Titanium diaphragm for the HF driver increasing the life of the component, Short copper cap for extended HF response.

HARDWARE

Cabinet constructed from premium birch plywood and finished with high-resistant water based black paint.



Dimmensions in mm.

SOFTWARE:



- ONLINE CONTROL SYSTEM

Offers detailed system information for each cabinet and via ethernet or PC controls the cabinet/s in real time.



- RAINBOW

Acoustical Prediction software for accurate loudspeaker planning offering both horizontal and vertical views.

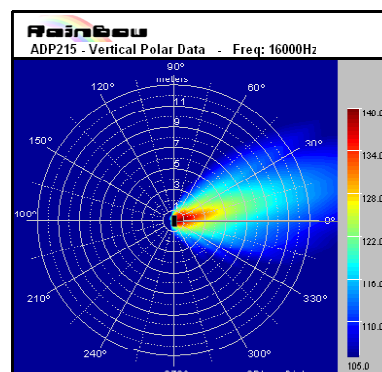
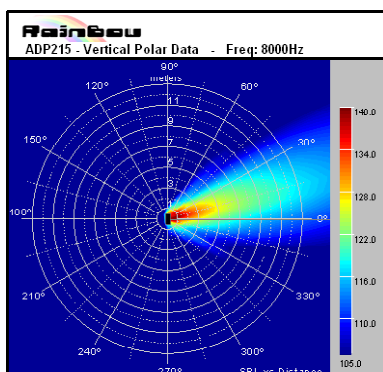
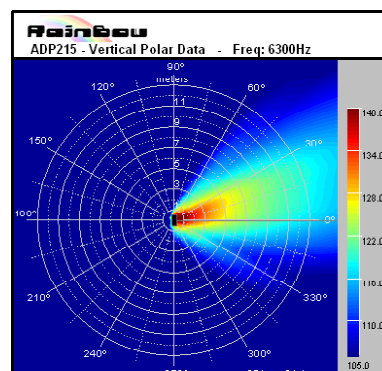
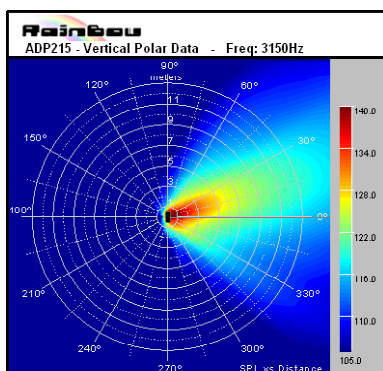
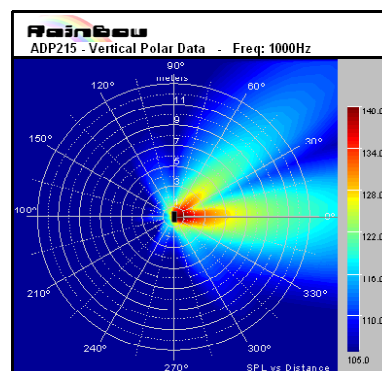
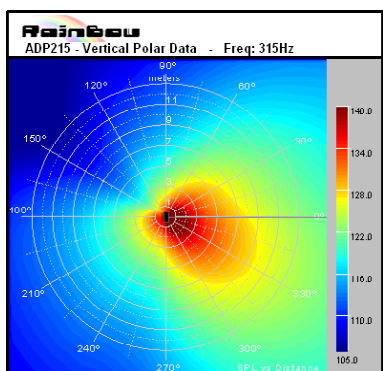
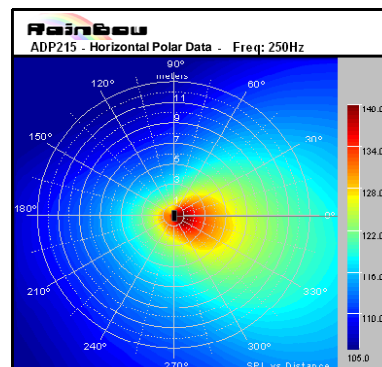
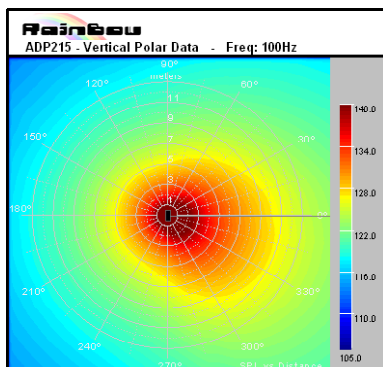
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HORIZONTAL POLARS



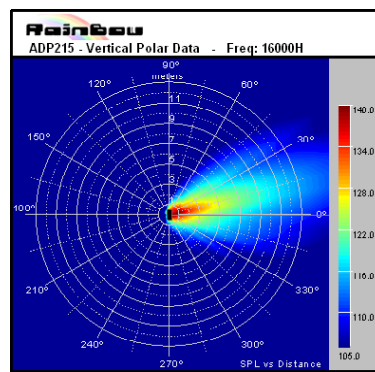
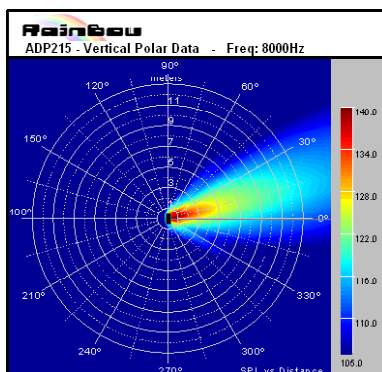
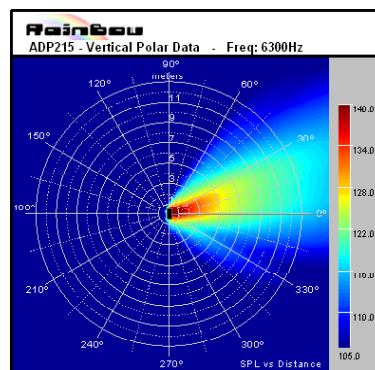
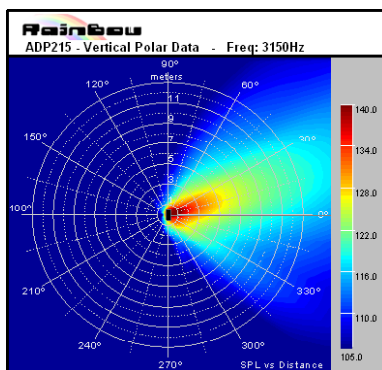
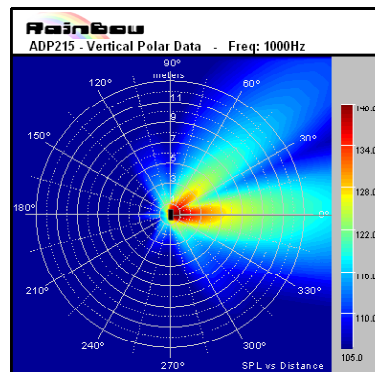
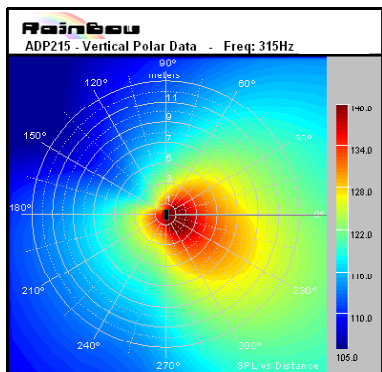
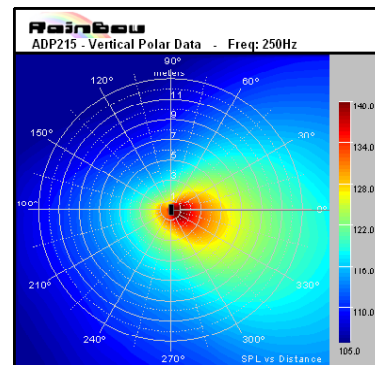
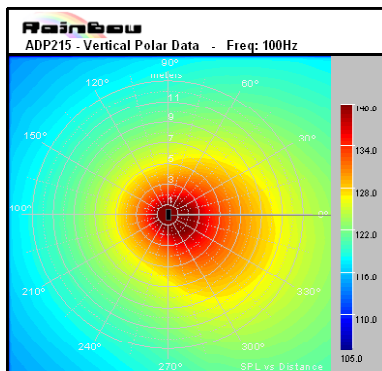
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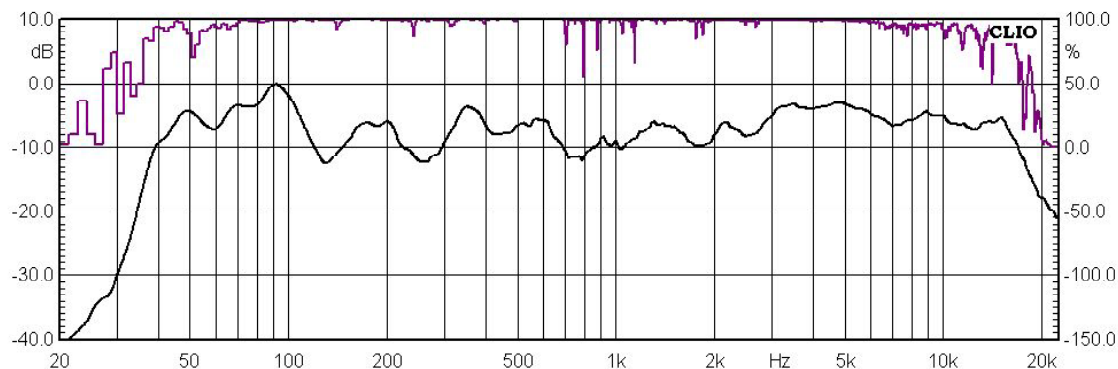
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VERTICAL POLARS

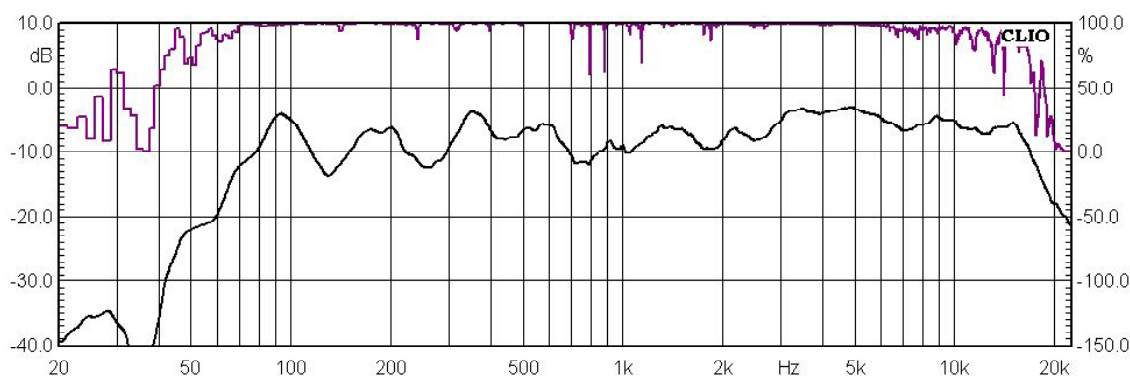


FREQUENCY RESPONSE

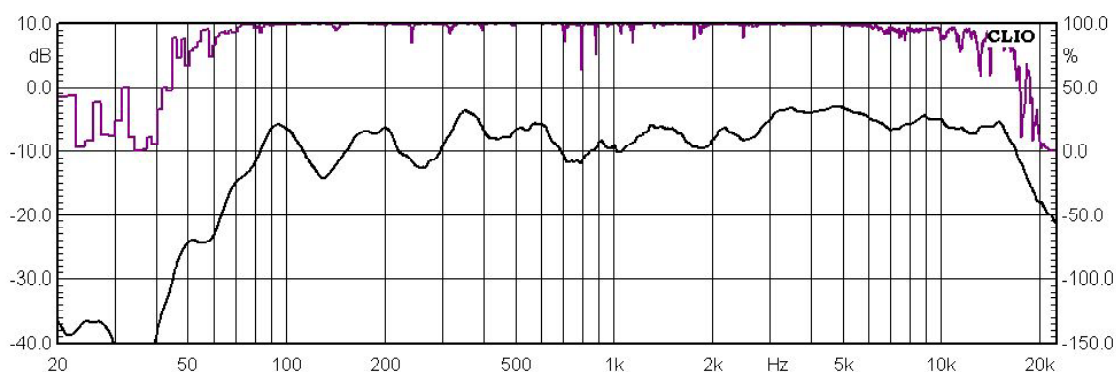
FULL RANGE



HIGH PASS 80Hz



HIGH PASS 90Hz



HIGH PASS 100Hz

