

ADP-18S



DATA SHEET

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- ▶ Integrated Digital Processing
- ▶ Internal temperature control
- ▶ Electronic protection
- ▶ High quality components
- ▶ Online monitoring available
- ▶ Bass reflex sub unit



APPLICATION:

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

GENERAL DESCRIPTION:

The compact ADP-18S sub bass cabinet 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 electrical technology and delivering incredible, dynamic sound.

The ADP-18S is an extremely high power sub bass cabinet providing exceptional low frequency reinforcement for the ADP Full range cabinets. It uses one 18" (4" DUO voice coil) neodymium magnet transducer with nomex cone and suspension in direct radiation bass reflex configuration.

The ADP-18S is powered with a total of 1000W of class D amplification. Each cabinet has a DSP integrated for system protection and optimization. Other features include temperature sensor, fan speed control, Ethernet options and many more.

The ADP-18S has an unbeatable power to size ratio, there is no need for external amplification racks, is very Light weight and as such is the ideal solution for portable or fixed sound reinforcement enabling quick and easy set-ups. An integrated pole mount enables easy satellite configuration with the ADP full range cabinets.

SPECIFICATIONS:

FREQUENCY RANGE	30Hz -250Hz
FREQUENCY RESPONSE	35Hz- 150Hz ± 3dB
COVERAGE	360° one unit
MAX SPL	133 dB/ 136dB peak 1w@ 1m
TRANSDUCER	18" Custom Neodimium + Nomex Cone 100 mm voice coil
CONFIGURATION	Bass-reflex, Direct radiation
POWER AMPLIFIER	1000W Class D with Switching Power supply
DSP	Internal LYNX digital processor DSPB-22®
CABINET ADJUSTMENT	Back panel LCD screen
INTERNAL CONTROLS	Temperature sensor
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	18 mm Premium Birch plywood
FINISH	High resistant water-based black paint
FRONT DESIGN	Black antirust steel grille
DIMENSIONS (H x W x D)	707 x 525 x 717 mm
WEIGHT	51 Kg (112 lbs)

* Ethernet connection is optional.

KEY FEATURES AND BENEFITS:

SELF POWERED

1000w Class D with switching power supply amplifier for the 18" transducer. The amplification far exceeds the transducer 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 and crossover, 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-excitation. 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

Transducer with neodymium magnet groups, nomex cones and suspension prolonging the life of the components. Weather protected membrane for outdoor use & forced air convection circuit for low power compression. Laminated DUO voice coil combining two advanced technology materials to enhance longevity. Ventilated voice coil and magnet circuit for improved heat dissipation. Double Conex Spider technology (DCS) and Mechanical Mirror Suspension System (MMSS) enabling long and coherent cone displacement. F.E.A. magnet topology maximising flux density in the air-gap and completely eliminating magnetic field leakage and thus avoiding any possible magnetic interference with other electronic equipment.

HARDWARE

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

SOFTWARE:



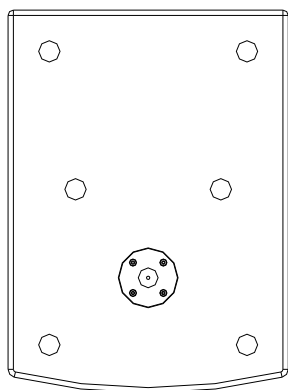
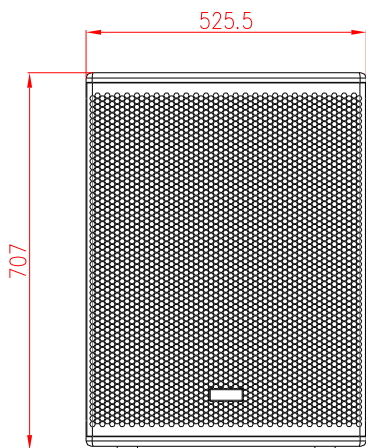
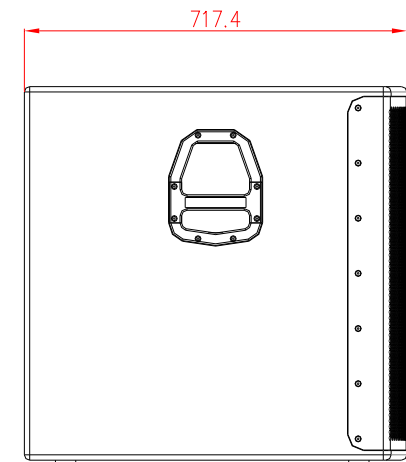
- ONLINE MONITORING SYSTEM

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



- RAINBOW

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



Dimensions in mm.