



# APL-10

## SELF-POWERED CONCERT SUBWOOFER SYSTEM

### DESCRIPTION:

The APL-10 self-powered subwoofer incorporates internal amplifiers and intelligent, front-end signal processing into a robust enclosure designed for concert touring, AV presentations, and fixed installations. The dual cone drivers provide powerful, deep bass with rapid transients for a crisp, clean, and accurate sonic image.

### ADVANCED TECHNOLOGIES:

Patented all-digital amplifier operating at 350 kHz provides high power levels with extremely low distortion. State-of-the-art digital processing circuits render pristine sound quality. Advanced limiter algorithms provide precise system control without harming sound quality at even the most aggressive levels. Universal AC voltage compatibility.

### POWER AMPLIFIERS AND PROCESSOR:

Dual amplifiers, one per driver, with 2400W total music power

### DRIVER COMPLEMENT:

Dual Apogee 15" (381mm) permanent magnet cone-type drivers are treated with a waterproofing compound, providing resistance to moisture, and enabling long-term stability of cone resonance and cone mass parameters; also treated with Ferrofluid® for greater power handling capability, lower distortion, and control of short-term impedance rise

### HANDLES:

Four handles designed as an integral part of the enclosure (no moving parts)

### GRILLE:

Powder-coated, diamond-punched steel with acoustic foam covering

### TRIM:

Optional protective steel pieces on top and bottom edges; powder-coated for durability

### RIGGING HARDWARE:

Four 12 gauge steel nutplates, mounted two on top and two on bottom, recessed so as to be nominally flush; accepts 3/8"-16 thread, nutplates are backed with 12 gauge steel internal brackets (10mm nutplate or Aeroquip™ Pan fittings optional)

### ENCLOSURE TYPE:

20° trapezoidal, optimally-vented bass

### CABINET CONSTRUCTION:

Multi-ply birch with stainless steel fasteners

### WARRANTY:

Three (3) years, limited

### ENGINEERING DATA:

#### FORMAT:

Self-contained dual power amplifiers with integrated processing electronics

#### DISPERSION:

Omni-directional

#### FREQUENCY RESPONSE (1M ON AXIS):

34 Hz to 100 Hz  $\pm$  3 dB

#### MAX. SPL (@1M):

131 dB cont./137 dB peak

#### DIMENSIONS:

32" (813mm) W x 22.5" (572mm) H x 24" (610mm) D

#### WEIGHT:

145 lb. (65.8 kg)

### ELECTRONICS SPECIFICATIONS:

#### INPUT:

XLR connectors, active balanced 35k ohms

#### LOOP-THROUGH OUTPUT:

Daisy-chain audio signal, XLR type connector

#### AMPLIFIER POWER:

2400W total music power, dual amplifiers

#### RMS LIMITER:

100 ms long duration protection

#### PEAK LIMITER:

3 to 5 ms fast-acting transient protection

#### COOLING:

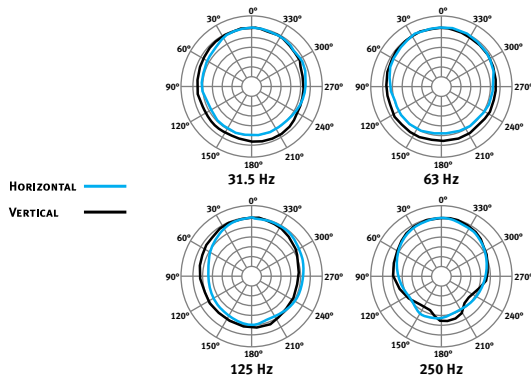
Passive using external heat sinks

#### VOLTAGE:

115V AC or 230V AC selection switch, Neutrik Powercon™ AC inlet with loop-through; power cable included

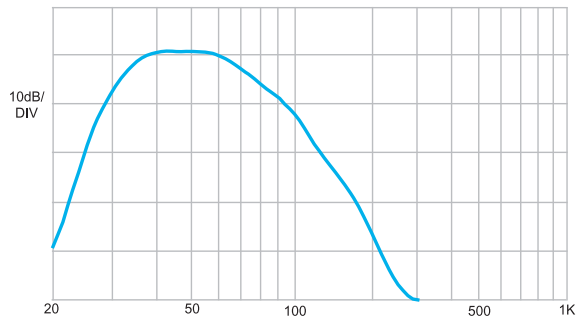
**APOGEE**  
SOUND INTERNATIONAL

## POLAR MEASUREMENTS (6 dB/division, normalized)



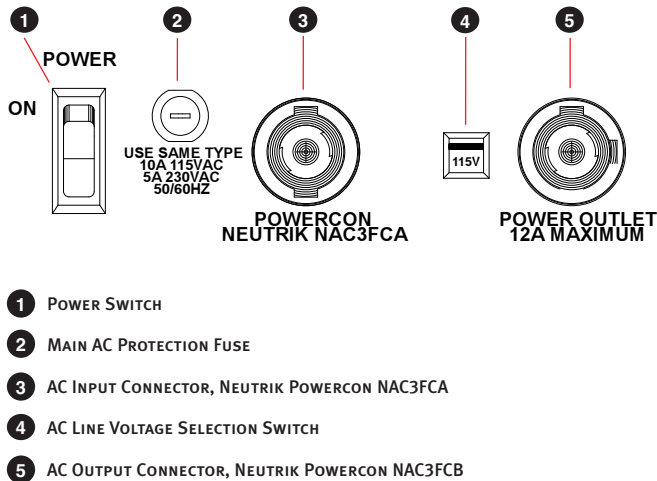
All polar measurements obtained in a free-field environment at 10° increments.

## FREQUENCY RESPONSE (10 dB/division)

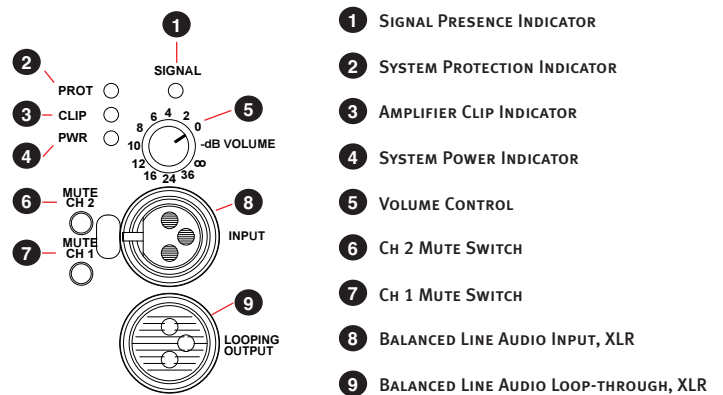


Measured in a free-field anechoic environment using a swept one-third octave input.

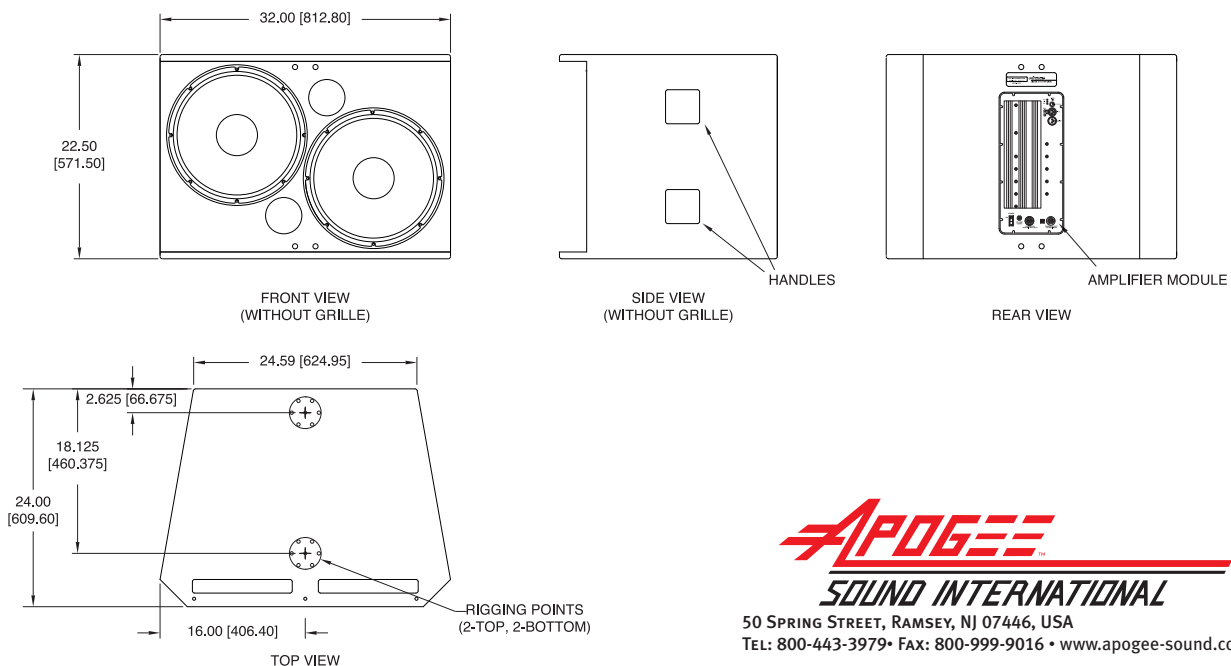
## LINE AC PANEL



## AUDIO INPUT PANEL



## DIMENSIONAL DRAWINGS



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