Specifications and Instructions
Models 18W and 18WK
Low-Frequency Drivers

Incorporating all the design advantages of piston-type low-frequency drivers, the E-V 18-inch reproducers include also the latest developments in the electro-acoustic art. Bass response is phenomenal, affording for the first time, pleasing musical balance without the masking effects previously experienced from high cone resonance and inefficient voice coil gap designs. E-V low-frequency drivers have special cone and spider suspensions as well as one-piece, welded magnetic structures of exclusive design. Tailored to optimum listening requirements, these new developments insure smooth even coverage of the entire bass spectrum.

FEATURES — Exclusive, E-V engineered features include true concentric centering of the voice coil; augmented balanced bass response in conjunction with the production of a plane wave-front; especially rugged voice-coil cone injection; edge-wise wound aluminum voice coil design affording 10% more efficiency and consequent damping of transient distortion; heavy magnet structure with one-piece, all-welded construction.

SPECIFICATIONS

**18W**
- Frequency Response: Essentially flat to 600 cps. Exact response depends on enclosure.
- RETMA Sensitivity Rating: 63 db
- Free-Space Cone Resonance: 25-35 cps
- Power Handling Capacity:
  - Program Material: 30 watts
  - Peak: 60 watts
- Critical Damping Factor: 1 in infinite baffle
- Nominal Impedance: 16 ohms
- D. C. Resistance: 11.0 ohms
- Voice Coil Diameter: 27/8 inches
- Magnet Weight: 51/4 lbs
- Size: 18 in. dia. x 10 in. deep overall
- Mounting: Four 1/4 in. holes equally spaced on 171/4-in. circle
- Baffle Opening: 161/2 in.
- Net Weight: 38 lb
- Shipping Weight: 43 lb

**18WK**
- Frequency Response: Essentially flat to 600 cps. Exact response depends on enclosure.
- RETMA Sensitivity Rating: 63 db
- Free-Space Cone Resonance: 20-30 cps
- Power Handling Capacity:
  - Program Material: 30 watts
  - Peak: 60 watts
- Critical Damping Factor: 10 in Patrician or Residence Entertainment Center
- Nominal Impedance: 16 ohms
- D. C. Resistance: 3.2 ohms
- Voice Coil Diameter: 21/8 inches
- Magnet Weight: 51/4 lbs
- Size: 18 in. dia. x 10 in. deep overall
- Mounting: Four 1/4 in. holes equally spaced on 171/4-in. circle
- Baffle Opening: Depends on horn throat area
- Net Weight: 38 lb
- Shipping Weight: 43 lb

INSTALLATION

Optimum bass response with E-V low-frequency driver units is obtained in the recommended baffles. Where a baffle is available of the "infinite" type, such as a closet, or a wall with large volumetric capacity available behind the cone, excellent results will be obtained in the accomplishment of the bass range. The ideal volume for the 18W is 28 cubic feet or more, for with this volume the low free-space resonance of the bass cone becomes the controlling factor in achieving reproduction of the first octaves. The response will be flat to 25-35 cps. The 18WK is recommended for use only in K-type enclosures in which the back air load volume is restricted to approximately 6000 cubic inches. In this application, the front radiation must be horn-loaded.