



PD-30 / PD-30-16



PD-30T

FEATURES

- Outstanding Sound Reproduction and Power-Handling For Signaling, Music and Public Address Systems
- Offered in 8 or 16-Ohm Models with Transformer Version (PD-30T) Available
- Extended Frequency Response Range for Optimum Intelligibility
- 30-Watt Power Rating
- Environment-Resistant Construction for Indoor/Outdoor Use

APPLICATIONS

Atlas Sound Models PD-30, PD-30-16 and PD-30T are versatile, medium-power compression drivers designed for maximum efficiency and extended heavy-duty performance. Combined with Atlas Sound horns, PD Series Models offer quality and durability to assure optimum penetration and excellent intelligibility in professional and commercial audio systems.

Units are ideal for commercial sound, signaling and public-address systems in applications such as manufacturing, recreation and sports facilities, exhibit halls, commercial centers, shipping and transportation terminals, malls, storage areas and warehouses, etc.

GENERAL DESCRIPTION

Models PD-30, PD-30-16 and PD-30T are fully environment-resistant for indoor or outdoor application and recommended for use in expansive and/or high-ambient sound-level areas. Units have a power rating of 30 watts, a 1.5" voice coil and a plane wave frequency response of 300 - 3,900 Hz (+5dB).

Models PD-30 and PD-30-16 have a nominal impedance of 8 and 16 ohms respectively. Transformer-equipped Model PD-30T incorporates the exclusive Atlas Sound Vari-Tap® Control/Connect Center with a screwdriver selectable ohms/watts switch. This time saving configuration eliminates the soldering iron as an installation tool.

The integral 70V line matching transformer is varnish impregnated for maximum environment-resistance and life expectancy. It also includes a protective terminal cover with built-in strain relief to assure secure cable connection.

Models PD-30, PD-30-16 and PD-30T are terminated in standard 1-3/8"-18" thread male couplings for use with screw-on horns, or with Atlas Sound Model DA-FH adapter for bolt-on type horns.

All Series Models feature die-cast housing, finished in grey baked epoxy.

SPECIFICATIONS

| MODEL | POWER RATING | PLANE WAVE FREQ. RESPONSE | LOW FREQ. LIMIT @ FULL POWER | SOUND LEVEL* | IMPEDANCE | POWER TAPS | VOICE COIL | DIMENSIONS | WEIGHT |
|----------|--------------|---------------------------|------------------------------|---------------------------------------|---|------------------------------------|-----------------|---|---------------------|
| PD-30 | 30W | 300 - 3,900 Hz (±5dB) | 500 Hz | 113.6 (avg) 300-3,900 Hz (±5dB) | 8 (Nom.) | — | 1.5" (3.2cm) | 4.5" H x 4.5" Dia. (11.4cm x 11.4cm) | 3 lbs. (1.4Kgs.) |
| PD-30-16 | | | | | 16 (Nom.) | — | | | |
| PD-30T | | | | | 45, 89, 167, 333, 666, 1300, 2500 | 70.7V@ 1.8, 3.7, 7.5, 15, 30 | | | |

*Measured on a plane wave tube at 1 mW (See SL2-1411, SL2-1414, or SL2-1418 for sound pressure levels on projector horns being used with these drivers)

Specifications subject to change without notice



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ARCHITECT AND ENGINEER SPECIFICATIONS

Compression driver unit shall be Atlas Sound Model _____ PD-30, PD-30-16, PD30T or approved equal. Full range integrated speech and music program handling capacity shall be 30 watts, above the low frequency cut-off of the projector horn.

Rated frequency response shall be _____ Hz (+5dB) measured on a plane wave tube at 1 mW. Low frequency limit at full power shall be _____ Hz. Sound pressure level output capability shall be 113.6dB (avg.) 300 - 3,900 Hz (± 5 dB) measured on a plane wave tube at 1 mW.

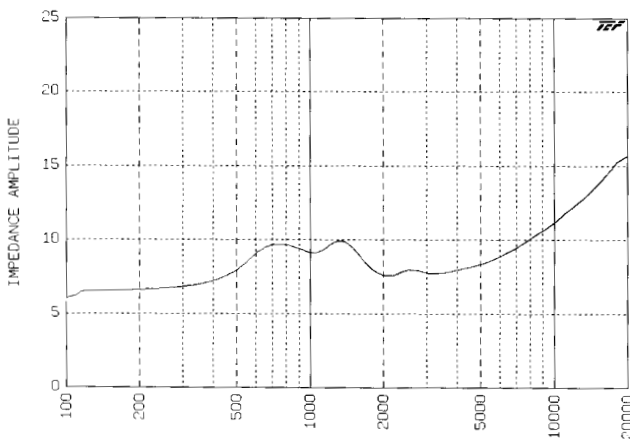
Driver with enclosed terminal shall be capable of standard indoor/outdoor use and be fully environment-resistant.

The units shall terminate in the industry standard 1 $\frac{1}{8}$ "-18 thread pattern and a .707" throat.

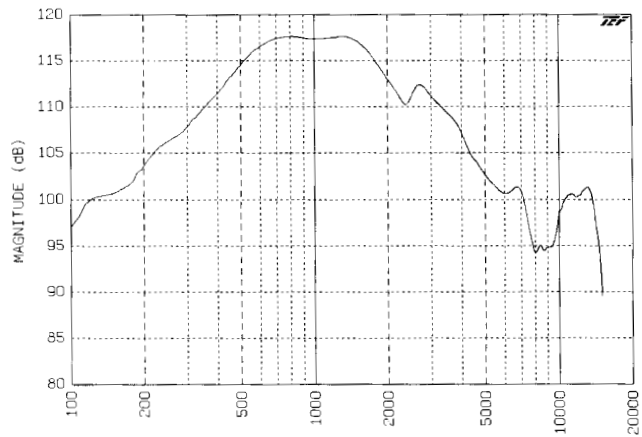
Diaphragm shall be field-replaceable and shall be high-temperature molded phenolic with a roll-type, flex-point suspension.

Models PD-30 and PD-30-16 shall have a nominal impedance of 8 and 16 ohms, respectively. Unit PD-30T shall be equipped with a 70.7 volt transformer having power taps of 1.8, 3.7, 7.5, 15 and 30 watts.

Impedance and power taps shall be clearly identified and referenced on the unit.



PD-30 Impedance



PD-30 Plane Wave Tube Response

NOTE: Plane wave tube measurements provide resistive loads to test drivers. Actual frequency response of a driver / horn combination will vary depending on the horn used with the driver. Consult individual horn specification sheet for typical horn frequency response.

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