

**OMNI-PURPOSE® 30-WATT HORN LOUDSPEAKERS** 

TECHNICAL DATA SHEET



### **PRODUCT SUMMARY**

The 8 Ohm Model AP-30 and transformer-equipped Models AP-30T and AP-30T-25 are double re-entrant loudspeakers which deliver 30 Watts of continuous power handling, superior intelligibility and unparalleled audio conversion-efficiency. The AP-30 Series operates within a nominal frequency range of 300-12,000 Hz and offers a sensitivity of 126dB at rated power to provide clear voice and signal communication.

Models AP-30T and AP-30T-25 each feature an integral transformer to meet a variety of distributed system needs. The AP-30T is equipped with a versatile, 3-way, 25, 70.7, 100V line transformer, while Model AP-30T-25 includes a 25V only line transformer. Transformers are adjustable using Atlas Sound's exclusive Vari-Tap® Connect Center which features a 7-position, watts/impedance selection switch. The labor saving Vari-Tap® terminal is screwdriver adjustable and includes a protective cover with built-in strain relief.

The trademarked square bell design signifies AtlasIED quality and reliability. The Omni-Purpose® mounting bracket (included on all models) allows precise positioning in the vertical and horizontal planes with a single adjustment and provides for installation of the loudspeaker on conventional surfaces or by strap-mounting to I-beams or pillars. AP Series loudspeakers are U.S. made to assure superior service reliability. Weather-resistant construction is metal and matching ABS plastic with metal components finished in grey epoxy (standard) or beige epoxy if suffixed with (C) where noted.

### **FEATURES**

- · Superior Intelligibility for Voice and Tone Signaling.
- ${\boldsymbol{\cdot}}$  Wide Frequency Response for Optimum Sound Quality.
- · Environment Resistant for Outdoor and Indoor Use.
- · Omni-Purpose® Bracket for Precise Positioning.
- Choice of 8 Ohm or Transformer (T) Equipped Models for Versatile 5, 70.7, or 100V Line Applications.
- U.S. Trademark Design is World Recognized for Quality and Dependability.
- · Available in Grey or Beige (C) Finish.

### **APPLICATIONS**

All-purpose, environment resistant 30-Watt AP-30 Series loudspeakers provide cost effective high-intelligibility voice and signal transmission for high power indoor and outdoor public address, intercom, security, alarm, or industrial signal systems. Units incorporate high-efficiency compression drivers to project through high ambient sound levels, over long distances and in wide open areas with fewer loudspeakers.

The AP-30 Series is renowned in the industry as the "professional standard" for applications such as:

- · Commercial Buildings
- · Distribution Centers
- · Industrial Warehouses
- Institutions
- · Civic Centers
- Recreational Facilities





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### **ACCESSORIES**



### BX-1A

Vandal resistant cover plate for armored cable and conduit connection. Constructed of cast aluminum.



### **APXBK-N**

Optional mounting base for a standard 1-gang, 2-gang, or 4" sq. E.O. box. Finished in neutral grey.

### **TECHNICAL SPECIFICATIONS**

Model	AP-30, AP-30T(C), AP-30T-25		
Power Rating	30 Watts Continuous		
Frequency Response	300 - 12,000 Hz (Nominal) 500 Hz - 4500 Hz (±5dB)		
Dispersion Angel	60° (-6dB, 2000 Hz Octave Band)		
Weight	<b>AP-30</b> : 4.5 lbs (2.0kgs) <b>AP-30T</b> : 5 lbs (2.3kgs) <b>AP-30T-25</b> : 5 lbs (2.3kgs)		
Finish	Baked Epoxy		
Dimensions	H 11" x W 10" x D 101/2"		
Temperature Range	-40°C - 70°C		



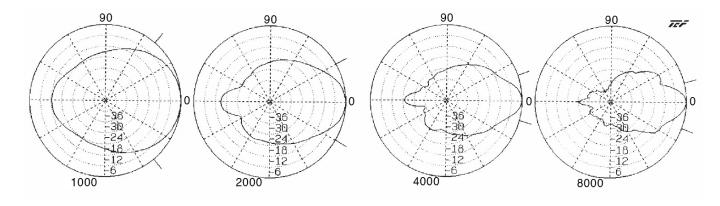




### **TECHNICAL DATA SHEET**

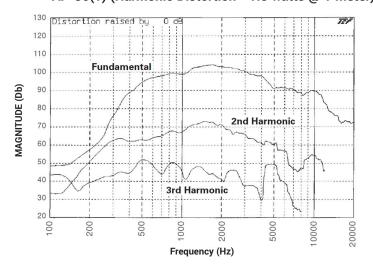
### PERFORMANCE MEASUREMENTS

### Polars Are Normalized To Zero On Axis

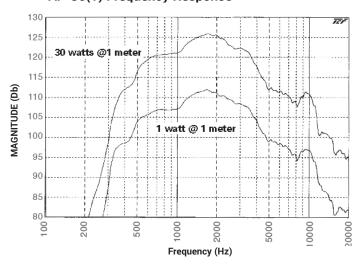


Frequency (Hz)	Q	Di	Beamwidth (Degrees)	
500	3.09	4.89	160	
1000	7.33	8.65	100	
2000	17.84	12.51	60	
4000	35.02	15.44	35	
8000	48.15	16.83	35	

### AP-30(T) (Harmonic Distortion - 1.5 watts @ 1 meter)



### AP-30(T) Frequency Response



PERFORMANCE MEASUREMENTS - CONTINUED ON NEXT PAGE





## **OMNI-PURPOSE® 30-WATT HORN LOUDSPEAKERS**

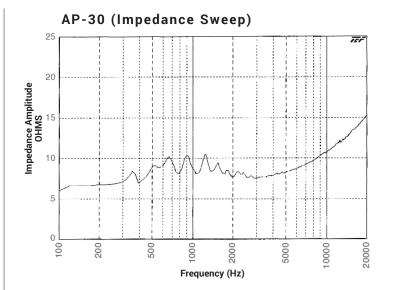
### **TECHNICAL DATA SHEET**

### PERFORMANCE MEASUREMENTS - (CONTINUED)

**DRIVER PROTECTION:** The horn loudspeaker should not be operated at frequencies outside the specified range, especially below horn cut-off. It is suggested that any program material be high-passed at 300 Hz with a 6dB per octave filter. This can be done by a low level filter at the amplifier input or by a series capacitor at each loudspeaker. Electrolytic capacitors can be used but they must be non-polarized (See Typical Capacitor Values Chart).

Typical Capacitor Values						
8 Ohs Driver	Ohs Driver 25 Volt Line		100 Volt Line			
70 mfd 30 mfd		4 mfd	2 mfd			

	AP-15T Vari-Tap® Control Connect Center Xfmr. Power Taps				AP-30T-25 Xfmr. Power Taps	
Switch Position	Impedance (Ohms)	Watts @ 25V	Watts @ 70.7V	Watts @ 100V	Impedance (Ohms)	Watts @ 25V
1	2500	-	2	4	500	1.2
2	1300	- 1	3.8	7.7	250	2.5
3	666	.09	7.5	15	125	5
4	333	1.8	15	30	83	7.5
5	167	3.7	30	X*	42	15
6	89	7.5	X*	X*	21	30
7	45	15	X*	X*	_	-

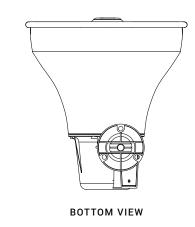


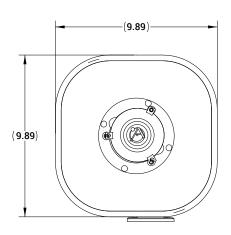


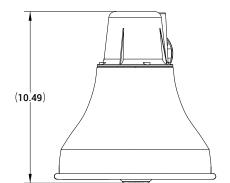
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### **TECHNICAL DATA SHEET**

### **DIMENSIONAL DRAWINGS**

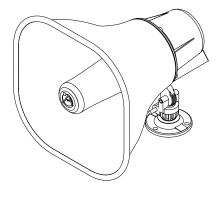




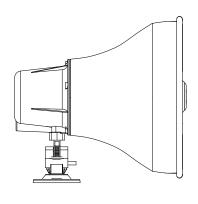


FRONT VIEW

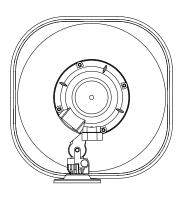
TOP VIEW



ISOMETRIC VIEW



SIDE VIEW



**BACK VIEW** 



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# AP-30 AP-30T(C) AP-30T-25



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### **ARCHITECT & ENGINEER SPECIFICATIONS**

Loudspeakers shall be AtlasIED Model (AP-30 or, AP-30T(C), or AP-30T-25) or approved equal. Each loudspeaker shall be equipped with an integral compression driver within waterproof housing. The loudspeaker unit shall be constructed of structural aluminum with double re-entrant acoustic path and exponentially-flared outer bell. Power handling capability shall be 30 Watts continuous. Frequency response range shall be 300-12,000 Hz (nominal), 500-4500 Hz (+5dB). Sound pressure level shall be 121dB (30W/1M), 108dB (1W/1M). Sound dispersion angle shall be 60°. Model AP-30 shall have voice coil impedance of 8 Ohms. Models AP-30T and AP-30T(C) shall have impedance selection of 2500, 1300, 666, 333, 167, 89, 45 Ohms for 25, 70.7, or 100V line. Power taps shall be available at .9, 1.8, 3.7, 7.5 and 15 watts for 25V line; 2, 3.8, 7.5, 15 and 30 watts for 70V line; 4, 7.7, 15 and 30 Watts for 100V line. Model AP-30T-25 shall have selection of 500, 250, 125,83, 42, 21 Ohms for 25V line. Power taps shall be available at 1.2, 2.5, 5, 7.5, 15, 30 Watts. Loudspeaker shall be furnished with mounting bracket allowing adjustment on the vertical and horizontal planes and shall include provisions for surface or strap mounting. Wiring terminals shall be enclosed. Units shall be weatherproof and constructed of metal and ABS plastic. Finish shall be grey or beige (C) baked epoxy as indicated.

Dimensions shall be: 11" (H) x 10" (W) x  $10^{1}/_{2}$ " (D).

