



OMNI-PURPOSE® 15 WATT FLANGE-MOUNTING LOUDSPEAKERS

APF-15
APF-15T
L20 Series



L20-100 Shown with APF-15 and BX-3A



L20-101 Shown with APF-15T



APF-15 Series

TECHNICAL SPECIFICATIONS

Models:	APF-15, APF-15T
Power Rating:	15 Watts continuous
Frequency Response:	600-14,000Hz (nominal) 700-5,500Hz (± 5dB)
Sensitivity:	120dB at 15 Watts (peak) 114dB at 15 Watts / 1 Meter (avg) 700-5,500Hz 104dB 1 Watt/1Meter (avg) 700-5,500Hz
Dispersion Angle:	95° (-6dB, 2000Hz octave band)
Dimensions:	APF-15=5 ⁵ / ₁₆ " Dia. x 3 ³ / ₁₆ " D x 6 ¹⁵ / ₁₆ " Dia. flange APF-15T=5 ⁵ / ₁₆ " Dia. x 5 ³ / ₁₆ " D x 6 ¹⁵ / ₁₆ " Dia. flange
Weight:	APF-15=1.7 lbs (.78kgs) APF-15T=2.6 lbs. (1.2kgs)
Finish:	Grey baked epoxy

ARCHITECT AND ENGINEER SPECIFICATIONS

Loudspeaker shall be Atlas Sound Model _____ (APF-15 or APF-15T) or approved equal. Unit shall be double re-entrant type with compression driver mounted within weather-resistant housing. Audio power capability shall be 15 watts continuous. Frequency response shall be 600-14,000 Hz (nominal), 700-5,500 Hz (± 5dB). Sound pressure level shall be 114dB (15W/1M), 104dB (1W/1M). Sound dispersion angle shall be 95 degrees. Transformer-equipped loudspeaker shall have impedance selection via seven position switch of 5000, 2500, 1300, 666, 333, 89 and 45 ohms. Power taps shall be available at .48, .94, 1.8, 7.5 and 15 watts on 25V line; 1, 2, 3.8, 7.5 and 15 watts on 70.7V line; and 2, 4, 7.7, 15 watts on 100V line. Loudspeaker mounting shall be by eight ³/₁₆" evenly spaced holes. Model APF-15 dimensions shall be 5⁵/₁₆" Dia. x 3³/₁₆" Deep with 6¹⁵/₁₆" Dia. flange. Model APF-15T dimensions shall be 5⁵/₁₆" Dia. x 5³/₁₆" Deep, with 6¹⁵/₁₆" Dia. flange. Finish shall be grey baked epoxy.

FEATURES

- High-efficiency, 15 watt compression driver with proven record of outstanding service reliability
- Double re-entrant design provides superior audibility of voice and tone signaling
- Vandal and environment-resistant metal construction for outdoor or indoor use
- Transformer(T) equipped version for 25, 70.7, or 100V line
- May be flange or recess mounted
- Choose from matching grilles, enclosures and mounting. rings (order separately)

APPLICATIONS

Communicate voice and electronic signals clearly in industrial, commercial, recreational, transportation and service facilities with APF Series loudspeakers. These environment-resistant flange and recessed-mounting units are ideal for indoor or outdoor applications where high-intelligibility paging or intercommunications are necessary.

GENERAL DESCRIPTION

Provide 15 watts of continuous power handling with superior intelligibility and efficiency with Atlas Sound APF Series Omni-Purpose® loudspeakers. Vandal-resistant units are designed for flange or recessed mounting to panels, interior/exterior walls, or ceilings. Metal construction withstands adverse temperatures, humidity and physical abuse. For flexibility and optimum adjustment convenience, transformer-equipped Model APF-15T includes the Vari-Tap® Control/connect center with 7 position, wattage/impedance selection switch. Magnet assembly is equipped with self-aligning field replaceable diaphragm. Weather-resistant metal construction and enclosed wiring terminals eliminate the need and cost of a backbox. However, for aesthetic consideration and retrofit convenience, models will flange mount to any standard size ceiling or wall baffle and/or enclosure capable of accommodating conventional 6" or 8" diameter loudspeakers. (See chart below). Model MK-2 or FAMT-6 mounting kit is required for 8" models.) Recessed installation may be accomplished by mounting Models APF-15 or APF-15T into a 4" or 5¹/₂" deep opening, respectively, or to an L20 Series enclosure. L20 Series also includes mounting rings and baffles (see below). Loudspeakers are finished in grey baked epoxy. UL versions, Models APF-15TU and APF-15TUC are available. (Request SL2-1459).

	ACCESSORY BX-3A Vandal Resistant Cover Plate for Armored Cable and Conduit Connection. Constructed of Cast Aluminum.
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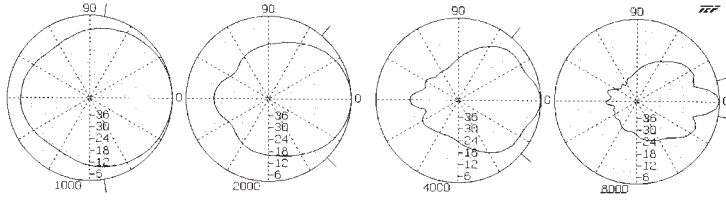
GRILLES 20-gauge CRS White Enamel Finish	ENCLOSURES 20-gauge CRS	or	MTG. RINGS 20-gauge CRS
L20-100 Round Grille 11" (279mm) Dia. x ³ / ₈ " (10mm) Deep	L20-201 Round Recessed 8 ⁵ / ₁₆ " (217mm) Dia. x 6" (152mm) Deep		L20-220 Round Style 8 ⁵ / ₁₆ " (217mm) Dia. x ⁵ / ₁₆ " (16mm) Deep L20-222 same as L20-220 with mounting ears for 24" lay-in tile
L20-101 Square Grille 10 ¹ / ₂ " (267mm) Square x ³ / ₈ " (5mm) Deep	193-8-6 Square Recessed 9 ⁹ / ₁₆ " (244mm) SQ. x 6" (152mm) Deep L20-213 Square Surface Mount White Enamel 10 ¹ / ₂ " (270mm) SQ. x 6" (152mm) Deep		
VP161-APF Vandal Proof Square Grille 10 ¹ / ₂ " (273mm) Square x ³ / ₈ " (19mm) Deep	SE161-R6 Square Surface Mount White Enamel 11" (279mm) SQ. x 6" (152mm) Deep 193-8-6 Recessed enclosure		

Specifications subject to change without notice



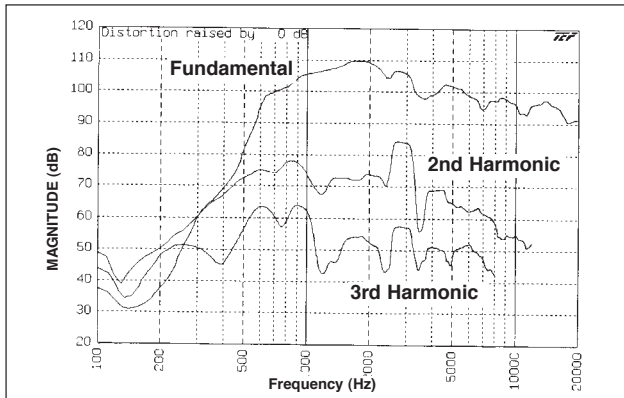
1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A.
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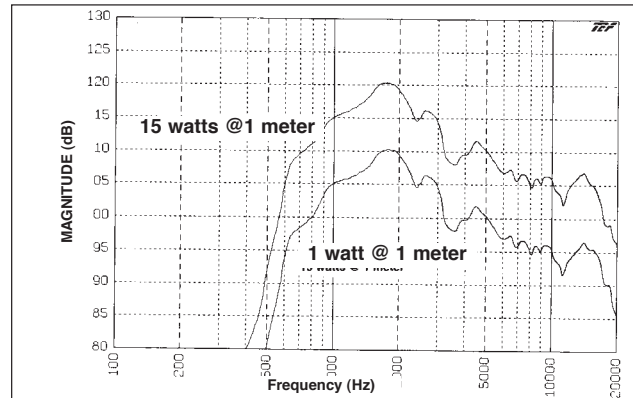


Polars Are Normalized To Zero On Axis

Frequency (Hz)	Q	Di	Beamwidth (Degrees)
1000	3.37	5.27	150
2000	7.30	8.63	95
4000	11.95	10.77	90
8000	44.29	16.46	25



APF-15(T) (Harmonic Distortion - 1.5 watts @ 1 meter)



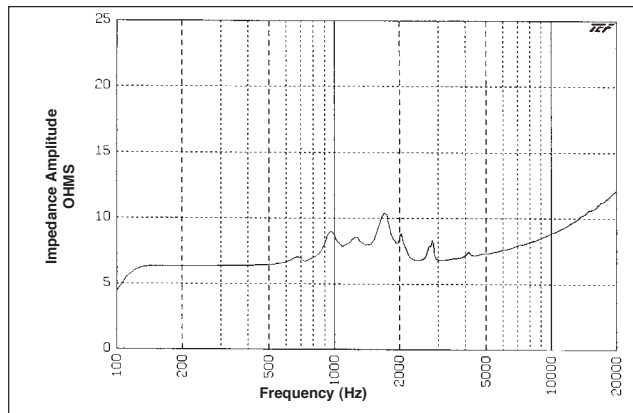
APF-15(T) Frequency Response

DRIVER PROTECTION: The horn loudspeaker should not be operated at frequencies 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 Ohm Driver	25Volt Line	70Volt Line	100Volt Line
70 mfd	15 mfd	2 mfd	1 mfd

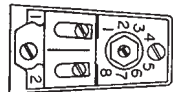
APF-15T Vari-Tap® Control Connect Center Xfmr. Power Taps				
Switch Position	Impedance (Ohms)	Watts @ 25V	Watts @ 70.7V	Watts @ 100V
1	5,000	—	1	2
2	2,500	—	2	47
3	1,300	.48	3.8	7.7
4	666	.94	7.5	15
5	333	1.8	15	X*
6	89	7.5	X*	X*
7	45	15	X*	X*

(* Do Not Use)

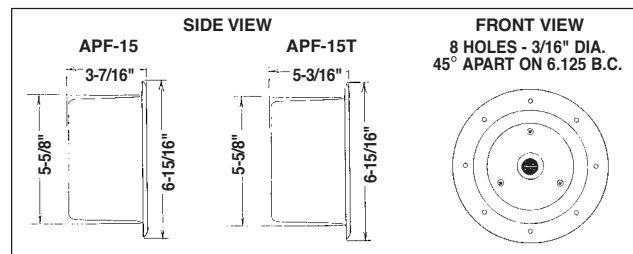


APF-15 (Impedance Sweep – 8 Ohm Speaker Only)

CONNECTION: Amplifier output line connection is made to the screw terminals which are designed with wire retainers for insured reliability. Input terminals are numbered (#1 and #2) to maintain system phasing. (#2 is the positive terminal). The wide and narrow slots adjacent to #1 and #2 are used for cable strain relief.



Vari-Tap® Selector Switch



Atlas Sound products are designed and tested in our well-equipped research laboratory which contains a fully anechoic chamber, complete analog Bruel & Kjaer measurement equipment and Techron® TEF 20® audio analyzer. Atlas Sound is proud to be a beta site for TEF software.

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