

DESCRIPTION

The ALTEC 168A paging/talk-back speaker has been designed for use where high speech intelligibility is required, even in areas where extreme ambient noise is encountered. A clear shield over the separate input terminals and screw-driver-selectable wattage taps provides for quick hookup in distributed sound systems using 70-volt or 25-volt lines. The moisture-resistant phenolic diaphragm and voice coil assembly conveniently plugs in for fast field replacement.

An attractive, black, weather-resistant foam screen insert is included for use in either flush- or surface-mounting applications.

The Cylolac® horn and housing material is non-resonant, resistant to extremes of environment, and virtually indestructible, thus ensuring long life and trouble-free performance.

®Cylolac is a registered trademark of Marbon Division, Borg-Warner Corp.

SPECIFICATIONS

Type:	Rectangular, reflex, exponential horn with matching throat and driver unit
Frequency Response:	220 Hz to 14.5 kHz
Power-Handling Capacity:	30 watts continuous pink noise, band-limited from 500 Hz to 3000 Hz
Impedance Taps:	166/333/500/1000/2000/4000 ohms selectable for 70.7V line 21/42/63/125/250/500 ohms selectable for 25V line
Wattage Taps:	30/15/10/5/2.5/1.25 watts, screwdriver selectable for 70.7V or 25V line
Dispersion Angle:	120°H x 60°V
Pressure Sensitivity*:	123 dB SPL with 30 watts of pink noise, band-limited from 500 Hz to 3000 Hz and measured at 4' (Ref.: 0.0002 dyne/cm ²)

Sensitivity as a Microphone:	-26 dBm (Ref.: 10 dynes/cm ²)
Horn and Housing Material:	Light gray Cylolac
Foam Screen Insert:	Black
Diaphragm Material:	Phenolic
Mounting—	
Surface Mount:	Uni-Lok swivel mount
Flush Mount:	See Figure 1
Dimensions:	7 ¹ / ₈ " H x 14 ³ / ₈ " W x 12 ¹ / ₂ " D (18.1 cm H x 36.5 cm W x 31.8 cm D)
Shipping Weight:	6 ¹ / ₂ lbs. (2.9 kg)

*Reduce by 6 dB each time distance is doubled and by 3 dB each time power is halved.

MOUNTING INSTRUCTIONS

Flush mounting the 168A is accomplished by finish drilling the four predrilled holes from the rear side on the four corners of the horn and inserting No. 8 machine screw toggle bolts, or equivalent size wood or metal screws securing the unit from the front side. See Figure 1 for hole cutout dimension.

When installing the black foam screen insert, first clean the horn surface area where tabs are to be secured, with a wet sponge or rag, and dry completely. Next remove the backing from the 3" tabs, and place the tabs in position as shown in Figure 2, pressing firmly with the thumb along the entire surface area. Then insert the foam screen in the horn, pressing firmly until the teeth of the tab secures the screen in place.

The attractive, weather-resistant foam screen insert covers the four mounting bolts when flush mounting is desired, and is ideal for discouraging nesting birds and insects in all types of outdoor installations.

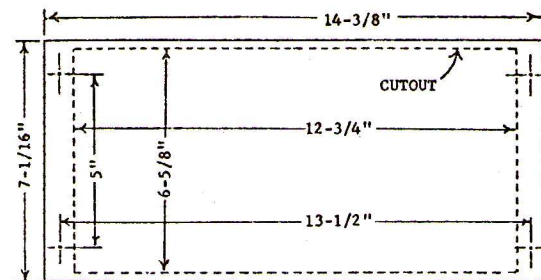


FIGURE 1

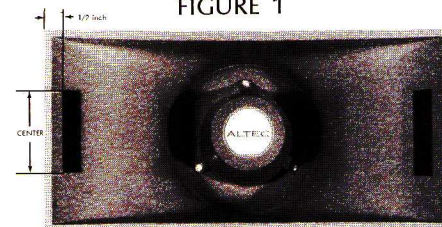


FIGURE 2

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The paging/talk-back speaker shall meet the following criteria. Type; rectangular, reflex, exponential, with matching throat and driver unit. Frequency response, 220 Hz to 14.5 kHz. Power-handling capacity; 30 watts continuous pink noise, band-limited from 500 Hz to 3000 Hz. Dispersion angle, 120°H x 60°V. Pressure sensitivity, 123 dB SPL when measured at 4' on axis with 30 watts input of pink noise, band-limited from 500 Hz to 3000 Hz (Ref.: 0.0002 dyne/cm²). Sensitivity as a microphone, -26 dBm when referenced to 10 dynes/cm². A Uni-Lok swivel mount, capable of being positioned at any vertical angle from 0° to 90°, and at any horizontal angle through 360°, shall be included with each horn. The Uni-Lok shall fit standard 1/2" pipe thread. Flush mounting; shall comprise finish drilling of four predrilled holes from the rear side of the four corners of the horn and

inserting No. 8 machine screw toggle bolts, or equivalent size wood or metal screws securing the unit from the front side. The horn shall contain a built-in 70V and 25V line transformer. 70V impedance taps shall be 166/333/500/1000/2000/4000 ohms. 25V impedance taps shall be 21/42/63/125/250/500 ohms. Wattage taps shall be 30/15/10/5/2.5/1.25 watts, selectable with screwdriver switch. Wattage tap switch positions shall be identified. Horn and housing material shall be light gray Cylolac. Diaphragm material shall be phenolic. A black foam screen insert shall be provided. Dimensions, 7¹/₈" H x 14³/₈" W x 12¹/₂" D. Shipping weight, 6¹/₂ lbs.

The paging/talkback speaker shall be the ALTEC Model 168A.

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