

AS40CR Series

4" Speaker

Fire speaker, Designed for difficult Clean Room type Conditions. 70.7 or 25 Volt

FEATURES

- 4" Voice Fire Alarm Speaker for clean room applications
- Good Voice Range Clarity for difficult conditions.
- U.L.C. Listed & Approved.
- 25 & 70.7 Volt Line Matching Transformer Models.
- Blocking Capacitor for D.C. Line Supervision.
- Transformer Can Be Tapped Up To 2 Watt.
- Devices Can Be Either Flush or Surface Mounted.



AS40CR Series

4" Loudspeaker Devices for the Fire-Safety Market.
25 & 70.7 Volt, Clean Room Applications

AS40CR SERIES

Specifications - AS40CR

Arnsco's AS4000 Series Speakers are the perfect match for voice alarm communications in any environment that requires cleanable type devices. All Arnsco speaker units are ULC LISTED and approved to meet the demanding requirements of the life safety market. This document outlines the Clean Room Application of the AS4000 Series of Devices. Square units are currently available.

All models are equipped standard with a 2 position rising washer terminal block, jumper selectable power taps, and line blocking capacitor for the audio side. To complete a clean room speaker unit, simply use the standard speaker units listed on the back of this document, and add the stainless steel cover option.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The ARNSCOTT models AS4000 SERIES consist of an 10.2cm (4") loudspeaker, 6 oz. Magnet, closed back speaker housing for better speaker cone protection, complete with a low profile constant voltage line matching transformer, a D.C. blocking capacitor and an all steel speaker baffle finished in an off white powder paint. The terminal block shall be the rising washer type to allow in-out wiring down to 12-gauge wire size. The frequency response of the complete voice alarm unit shall be better than 600 to 4,000Hz.. The 70.7 or 25 Volt transformer shall be of the line matching type, with the following power taps; 2, 1, 1/2 and 1/4 watt which can produce sound pressure output up to 87dB. at 10Ft. per ULC standard ULC-S541 (Cover attached). To ready this unit for a recessed clean room application, order the speaker unit as found on the back of this document, and add the (G75SS) stainless steel baffle cover option. The G75SS cover fits over the Speaker device, and the two mounting screws hold the speaker assembly and the clean room cover to the back box.

The front baffle trim is 16.2cm (6-3/8") square for flush or surface mount conditions. The depth of the speaker assemblies is designed to fit into AEG back boxes with a depth of 3-1/2 - 4". The round hole cut out size is 15.2cm (6") in diameter, and can easily be accomplished using AEG drywall and drop ceiling hole saw model T-10HC.

ARNSCOTT Models AS4000 SERIES VOICE ALARM LOUDSPEAKER UNITS and G75SS Clean Room Cover shall be used wherever a recessed or surface mount clean room application exists. These units must be used with UNDERWRITERS LABORATORIES OF CANADA (ULC) approved voice alarm equipment only, including the back box (see back page for mounting information).

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General Specifications

Power Tap Selected	Avg. dB. over 400-6kHz.
¼W	78
1/2W	81
1W	84
2W	87

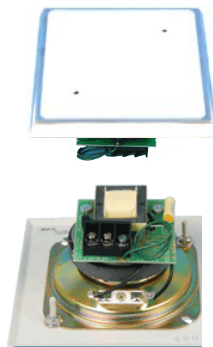
SPL MEASUREMENTS:

SPEAKER dBA @ 10ft. Measured
Cover installed

General Installation Information

Model Number	Speaker Voltage (RMS)	Power Taps (WATTS)	Mounting Configurations		Baffle Shape	Vandal Resist	Strobe Option ?
			Recessed	Surface			
Speaker Devices With White Baffle							
AS4033	25	¼, ½, 1, 2	E15	SE48SS SE48W	S	N	No
AS4093	70.7	¼, ½, 1, 2	E15	SE48SS SE48W	S	N	No

R = Round, S = Square



AS4033 / AS4093

- When flush mounting these units ensure that 1 x MC1-P is specified to support the complete unit up into the drop ceiling or drywall, unless these back boxes are securely tied into the ceiling / wall members, which is additional security and is recommended in addition to standard mounting procedures.
- Actual speaker frequency response is 120 - 10,000 Hz. +/- 5dB. The cone is paper (very light), which produces a very efficient loudspeaker. This is an excellent quality loudspeaker.
- The AS4000 Series fire speaker over the ULC frequency range of 400 – 4kHz. @ 10'(3m) at full power (2 Watt) will emit 87 dB. with the cover installed. The -3 & -6 dB. SPL down angles are 32 & 70 degrees respectively from the speaker center and radiates a round pattern. This type of speaker is recommended for lower ceilings where a loudspeaker is required in a clean room type condition.

General Ordering Information

- * When flushmounting, make sure that 1 - MC1-P are specified to support the complete unit up into the drop ceiling or drywall, unless these back boxes are securely tied into the ceiling / wall members.
- * For more information on back boxes, please see Arnscoff separate engineering sheets.

ORDERING AND INSTALLATION NOTES:

- Standard colour of the speaker baffle is Speaker White. The G75SS Clean Room Cover is made of stainless steel, brushed finish, with a white flame retardant polyester diaphragm covering the speaker opening.
- These speaker devices are for recessed mounting when used with the AEG E15 back box. For surface mount use the SE48W or SE48SS. These are special order back boxes and are available in either white powder paint or stainless steel (SE48SS).
- For more installation Instructions, please ask for AEG AS4000 Clean Room Series Technical Installation / Wiring Note.
- * dBA is a sound pressure measurement made using the U.L.C. standard ULC-S541
- ULC is a trademark of Underwriters Laboratories of Canada

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