GRAS 44AC

Production Reference Speaker



Special feature: Built-in power amplifier

The GRAS 44AC Production Reference Speaker is a precision sound source engineered for demanding acoustic testing. It combines high output levels with a flat frequency response across a wide range, ensuring reliable and consistent results.

With its proven stability and versatility, the GRAS 44AC provides a trusted reference for applications requiring consistent acoustic output in both laboratory and production environments.

GRAS Sound & Vibration
Skovlytoften 33, 2840 Holte, Denmark
www.grasacoustics.com

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Drawing on GRAS' extensive experience with mouth simulators, the 44AC is built to deliver stable specifications and repeatable performance year after year. Its robust design makes it ideally suited for production testing as well as a variety of other acoustic test setups where dependable and accurate loudspeaker performance is essential.

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The GRAS 44AC is a compact single-driver loudspeaker designed for precision acoustic testing.

At a distance of 75 mm from the front grid, it can produce a maximum continuous signal of 100 dB re. 20 Pa in 1/3-octave bands across the 100 Hz to 20 kHz frequency range.

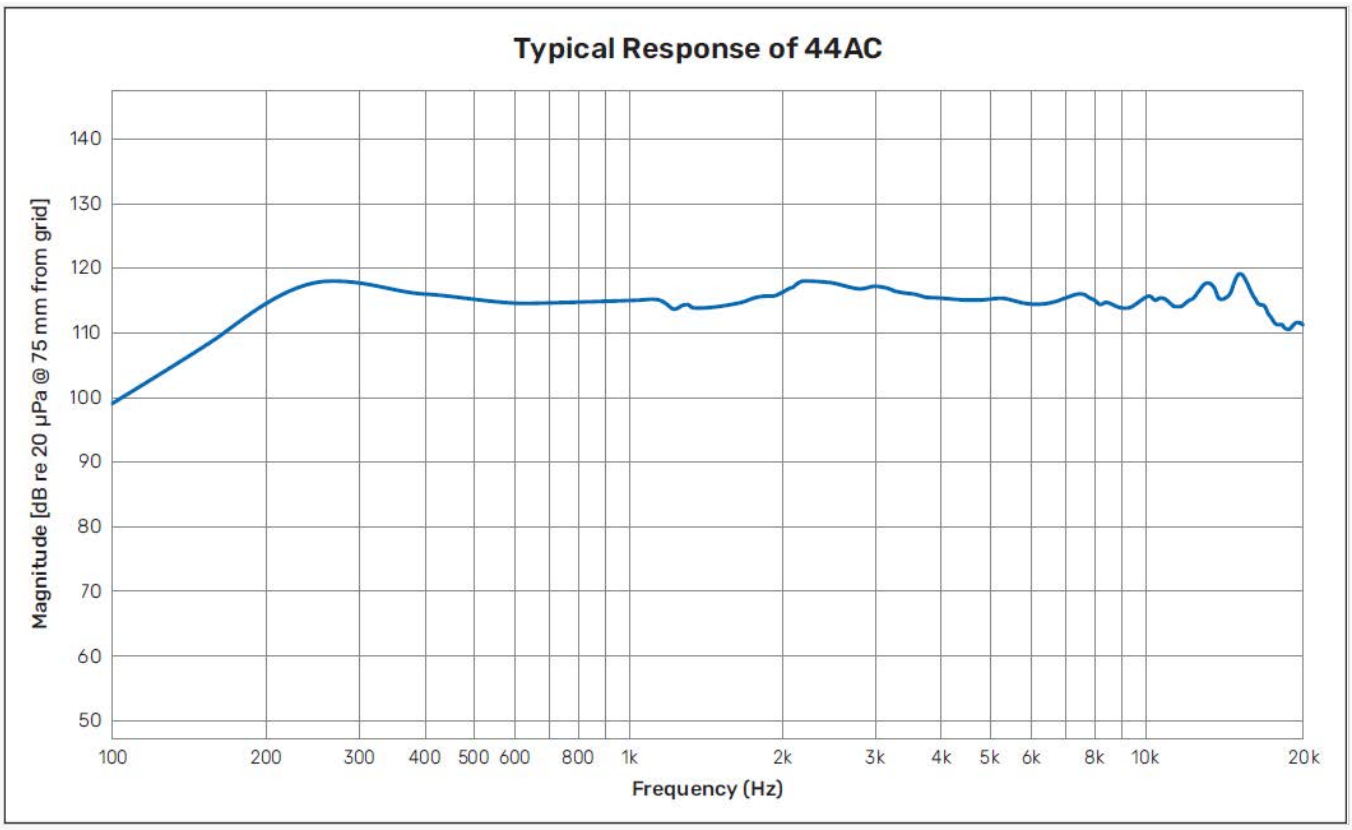
The loudspeaker can be driven either by an external signal source or through its integrated power amplifier. When connected to an external 24 V DC supply—for example, the GRAS AB0012 mains/line power supply—the built-in amplifier powers on automatically.

The 44AC's inherently smooth raw frequency response allows it to be equalized to a flat response with ease. Using standard test and measurement software, only simple filters are required, as the loudspeaker exhibits no pronounced peaks or dips above 250 Hz.

For flexible setup, the speaker includes two threaded inserts on the front rim for attaching accessories. It also features a 3/8" screw-type mounting solution with rotation control for precise positioning.

Specifications

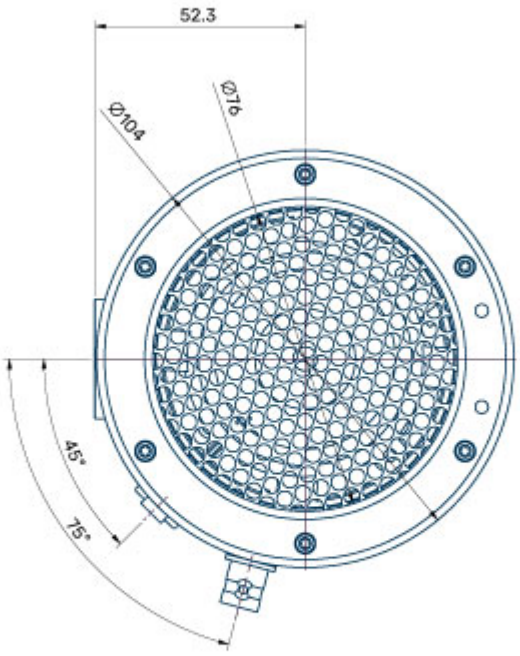
Max. continuous output at 75mm from the grid: 200 Hz - 16 kHz	dB re. 20 µPa	110
Max. continuous output: 100 Hz - 20 kHz	dB re. 20 µPa	100
Distortion: 200 Hz - 16 kHz, Linear signal (94 dB re. 20 Pa)		Typically 1% / max. 1.5 %
Raw/unequalized response: 200 Hz - 16 kHz, using 1/12th octave smoothing, reference level at 1 kHz on-axis response	dB re. 20 µPa	94 ± 6
Impedance	Ω	8
Maximum power, continuous	W	10
Maximum power, pulsed 2 sec.	W	50
Gain	dB	10
Input impedance	kΩ	20
Max. input voltage	Vrms	2
Connector type		BNC
Temperature range, operation	°C / °F	10 to 35 / 50 to 95
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	kg	2
Warranty	years	2



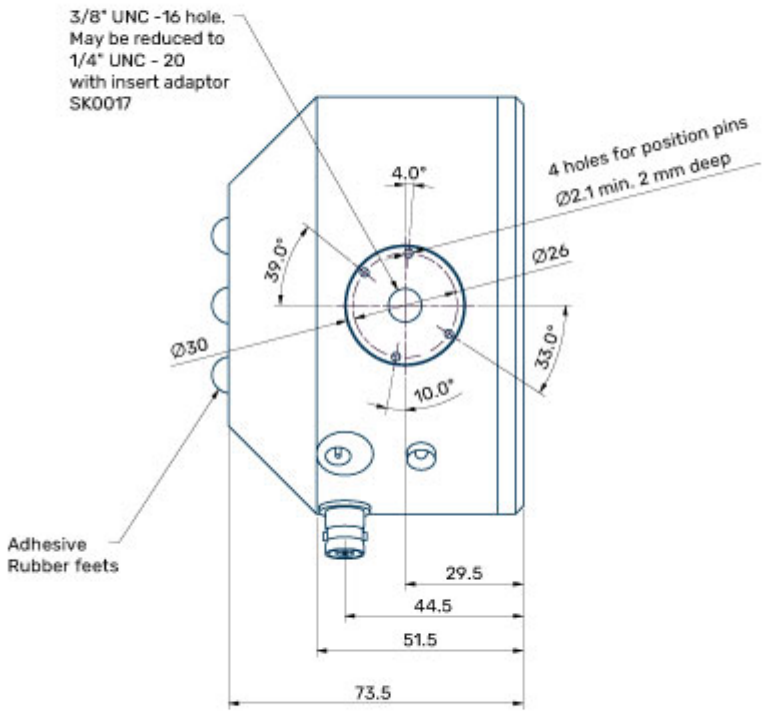
GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

Dimensions

44AC



Dimensions


3/8" UNC -16 hole.
May be reduced to
1/4" UNC - 20
with insert adaptor
SK0017
4 holes for position pins
Ø2.1 min. 2 mm deep
4.0°
39.0°
Ø26
Ø30
33.0°
10.0°
Adhesive
Rubber feets
29.5
44.5
51.5
73.5

Included

GRAS AB0012	Power supply

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GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

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About GRAS Sound & Vibration

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones and related equipment for industries where acoustic measuring accuracy and repeatability are of the utmost importance. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, consumer electronics and other highly demanding industries. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect, trust and require.
GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at www.grasacoustics.com

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