

# GRAS AL0030

Production Line Acoustic Test Chamber



Self Insertion Loss: >25 dB  
CCP Microphone set

GRAS AL0030 is an acoustical test chamber for production line testing of mobile devices such as cell phones, tablets, Bluetooth speakers etc.

### Introduction

The GRAS AL0030 Production Line Acoustic Test Chamber is an anechoic test chamber for acoustic production line testing of mobile devices, for example cell phones, tablets, bluetooth speaker systems and similarly sized portable acoustic devices. It provides a flexible platform that can be configured to suit specific requirements.

### Design

It is built from medium density fibre board lined with acoustic damping material. A large opening at the back of the chamber allows easy access to the chamber for configuring the test setup. The chamber has shock and vibration absorbing feet that prevent vibration from the outside from influencing the measurements.

It has a drawer with multi-adjustable holders for easy and safe mounting and removal of the Device Under Test. It can hold small and medium sized portable devices up to 300 x 200 mm (12 x 8 inches).

The test chamber has 4 fixing points for microphones and sound source, 2 at the top and 2 at the bottom panel. Holders for a total of 4 microphones and/or sound sources can be mounted at these fixing points. Additionally, a microphone can be attached to the drawer.

A connector panel with 4 BNC connectors, 2 USB, and 2 Mini DIN connectors provides connections to external instruments.

### A Flexible and Configurable Test Platform

AL0030 provides a flexible test platform that can be configured to suit specific needs.

- The basic configuration includes user selectable accessories for immediate acoustic testing.

- Additionally, the test chamber can be fitted with a sound source and an artificial ear.
- If you have needs that are not covered by these options, we can customize it to suit your specific needs. Contact (your local) GRAS (representative) to initiate the process.

As standard the AL0030 comes with a basic suite of accessories needed for audio response testing. The following are included:

- The Acoustic Test Chamber
- Choice of one microphone set
- Choice of a set of DUT holders
- Choice of one microphone holder
- One standard input connector panel
- One cable for the microphone set

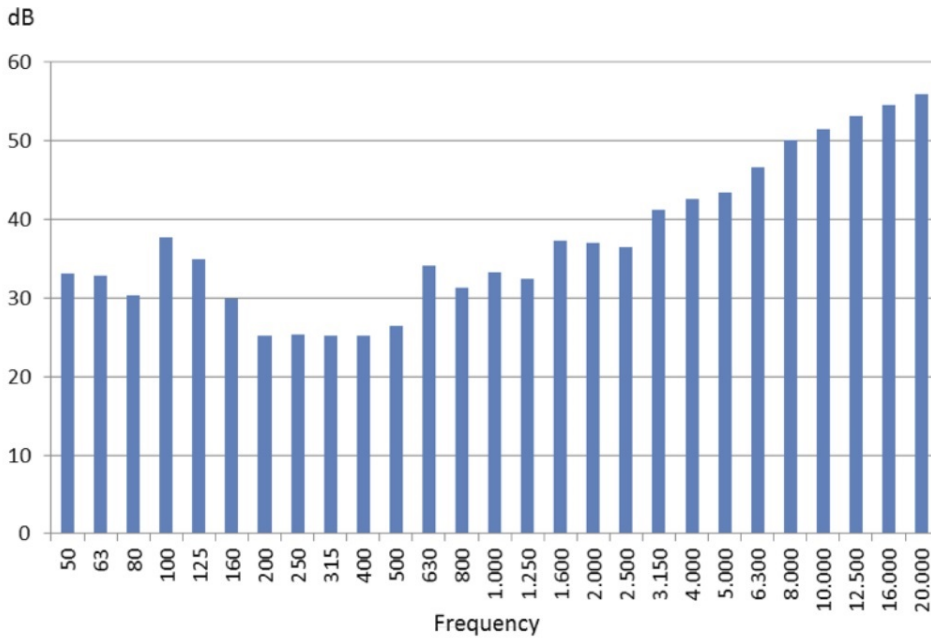
The connector plate can be ordered blind for customization.

Included and optional accessories for AL0030 are listed under the tab Ordering info.

### Quality and warranty

The Acoustic Test Chamber is covered by a two year warranty. For cables and accessories, the warranty for the specific item is valid.

Connector type		BNC
Weight	g / oz	39 kg



Self Insertion Loss measured in reverberant conditions

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

## Included items

<a href="#">GRAS AL0030</a>	Acoustic Test Chamber
GRAS AA0079	Microdot-BNC cable, 1 m

## Included Items - user selections

### Reference Microphone

<a href="#">GRAS 46BL</a>	1/4" CCP Pressure Standard Microphone Set, High Sensitivity
<a href="#">GRAS 46BD</a>	1/4" CCP Pressure Standard Microphone Set
<a href="#">GRAS 46BE</a>	1/4" CCP Free-field Standard Microphone Set

### Microphone Holder

GRAS OP0040	Microphone Holder for top/bottom mounting
GRAS OP0041	Microphone Holder for mounting in the drawer

### DUT holders - one set of 4

GRAS OP0030	DUT Holder, low placement, small
GRAS OP0031	DUT Holder, low placement, large
GRAS OP0032	DUT Holder, top placement

### Connector Panel

GRAS OP0050	Standard Panel with 4 x BNC, 2 x USB, 2 x 4-pin Mini DIN
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GRAS OP0051	Blank panel for customization by customer
GRAS OP0070	Customized panel

## Optional Items - not included

### Sound Source

<a href="#">GRAS 44AA</a>	Mouth Simulator according to ITU-T Rec. P51 with built-in power amplifier
<a href="#">GRAS 44AB</a>	Mouth Simulator according to ITU-T Rec. P51

### Sound Source Holder

GRAS OP0045	Sound Source Holder with swivel head
GRAS OP0046	Sound Source Holder with swivel head, heavy duty version

### Ear Simulator

<a href="#">GRAS 43AH</a>	CCP Ear Simulator for Production Testing Based on ITU-T Rec. P57 Type 3.2 Low-leak
<a href="#">GRAS 43AI</a>	CCP Ear Simulator for Production Testing Based on ITU-T Rec. P57 Type 3.2 High-leak

### Cables

GRAS AA0032	BNC-BNC Cable, 0.5 m
GRAS AA0033	BNC-BNC Cable, 1 m
GRAS AA0034	BNC-BNC Cable, 2 m
<a href="#">GRAS AA0035</a>	BNC-BNC Cable, 3 m

<a href="#">GRAS AA0070</a>	Microdot-BNC cable, 3 m
<a href="#">GRAS AA0073-CL</a>	Customized Length Microdot - BNC Cable

## Miscellaneous

<a href="#">GRAS OP0061</a>	Set of 2 drawer latches
<a href="#">GRAS 12AL</a>	1-Channel CCP Power Module with A-weighting filter
<a href="#">GRAS 12AX</a>	4-Channel CCP Power Module with Gain
<a href="#">GRAS 42AP</a>	Intelligent Pistonphone, Class 0
<a href="#">GRAS 42AG</a>	Multifunction Sound Calibrator, Class 1

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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 to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

**GRAS** Sound & Vibration