

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:

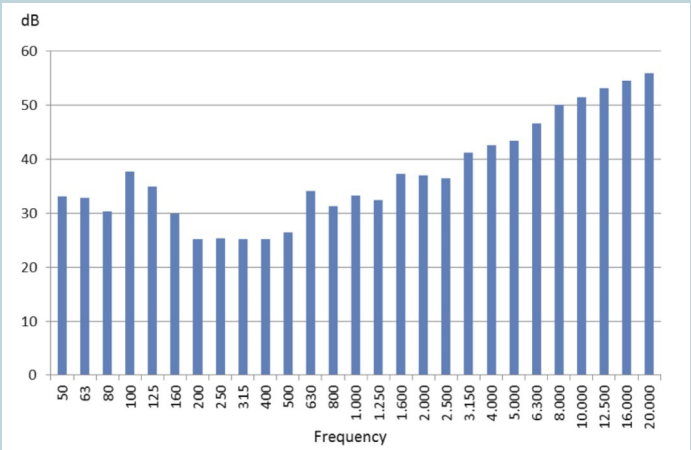
- The Acoustic Test Chamber
- Choice of one microphone set
- Choice of a set of DUT holders
- Choice of one microphone holder
- One standard input connector panel
- One cable for the microphone set

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 |
| Specification Conditions | |  <p>Self Insertion Loss measured in reverberant conditions GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.</p> |

Included items

| | |
|-------------|-------------------------|
| GRAS AL0030 | Acoustic Test Chamber |
| GRAS AA0079 | Microdot-BNC cable, 1 m |

Included Items - user selections

Reference Microphone

| | |
|-----------|---|
| GRAS 46BL | 1/4" CCP Pressure Standard Microphone Set, High Sensitivity |
| GRAS 46BD | 1/4" CCP Pressure Standard Microphone Set |
| GRAS 46BE | 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 |
| GRAS OP0051 | Blank panel for customization by customer |
| GRAS OP0070 | Customized panel |

Optional Items - not included

Sound Source

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|-----------|---|
| GRAS 44AA | Mouth Simulator according to ITU-T Rec. P51 with built-in power amplifier |
| GRAS 44AB | 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

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|-----------|---|
| GRAS 43AH | CCP Ear Simulator for Production Testing Based on ITU-T Rec. P57 Type 3.2 Low-leak |
| GRAS 43AI | 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 |
| GRAS AA0035 | BNC-BNC Cable, 3 m |
| GRAS AA0070 | Microdot-BNC cable, 3 m |
| GRAS AA0073-CL | Customized Length Microdot - BNC Cable |

Miscellaneous

| | |
|-------------|--|
| GRAS OP0061 | Set of 2 drawer latches |
| GRAS 12AL | 1-Channel CCP Power Module with A-weighting filter |
| GRAS 12AX | 4-Channel CCP Power Module with Gain |
| GRAS 42AP | Intelligent Pistonphone, Class 0 |
| GRAS 42AG | Multifunction Sound Calibrator, Class 1 |

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| We Make Microphones

Tradition

Since the establishment in 1994, GRAS has been 100% dedicated to developing and manufacturing high-quality measurement microphones and related acoustic equipment.

Innovation

We work with everybody with an interest in sound or noise within the fields of aerospace, automotive, audiology, consumer electronics, noise monitoring, building acoustics and telecommunications.

Quality

At GRAS we know that in order for you to trust your measurement results; signal quality, stability and robustness are essentials. We design and build them to perform under real life conditions – and beyond.

