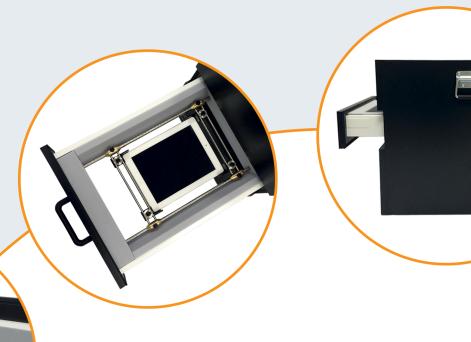
Acoustic Test Chamber

For production line testing GRAS ALOO30





Simple Reliable Repeatable

G.R.A.S.

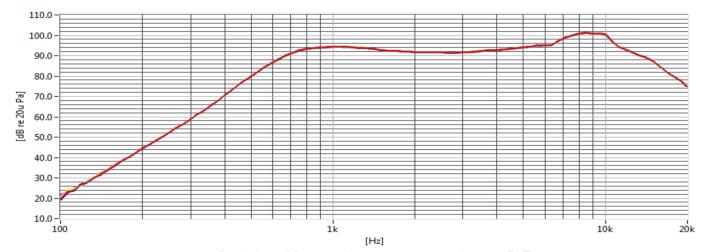
Production Line Acoustic Test Chamber

The new flexible production line acoustic test chamber (PLATC) is the latest in the range of anechoic chambers from G.R.A.S. and is built from our vast acoustic experience in the field. It is designed for quick and qualified acoustic test of cell phones, tablet PCs, Bluetooth speaker systems etc., including frequency response, THD, Rub&Buzz and microphone test using optional sound source. The chamber has a number of connections for injecting test and control signals to the Device Under Test.

- Repeatable testing and reliable data
- Easy open/close for quick and safe change of DUT
- Flexible test jig for easy adjustment to new DUT
- Flexible microphone mounting for both front/back side speakers as well as edge-mounted speakers
- High quality, high sensitive 1/4" CCP measurement microphone included (G.R.A.S. 46BL)
- Individually calibrated frequency response*
- * Compared to reference measurement in anechoic room



Test jig with DUT and measurement microphone.



Graph shows 10 concecutive measurements on the same DUT.



Build your own PLATC

Performance & mounting accessories

The basic chamber itself acts like a mini anechoic chamber allowing test of acoustic devices without the hassle of going into a full scale anechoic chamber*. The drawer allows quick exchange of device under test without putting physical stress on the operator. A marked and flexible test jig allow for easy adjustment to different size DUT's and repeating test setup from one chamber to the next. A large opening at the back of the chamber allows easy access to the chamber for test setup. The chamber is standing on four shock and vibration absorbing rubber feet to avoid vibration from other devices to influence the chamber measurements.

The standard PLATC configuration includes the basic suite of accessories needed for immediate audio response testing, with an array of available options allowing you to customize to your testing needs. For special requests contact your local G.R.A.S. sales partner.

* Due to chamber size the anechoic performance is limited at lower frequencies.

Included with your PLATC:

In the basic configuration are the following included:

- Acoustic test chamber
- Choice of one reference microphone
- Choice of one set of DUT holders
- Choice of one microphone holder
- One standard input connector panel*
- One cable for microphone

Optional equipment:

44AA Mouth simulator with built-in Power Amp 44AB Mouth simulator for external Power Amp 43AH CCP Ear simulator for production line testing according to ITU-T P57 3.2 LL 43AI CCP Ear simulator for production line testing according to ITU-T P57 3.2 LL

Optional cables:

AA0032 BNC – BNC cable 0.5 meter AA0033 BNC – BNC cable 1 meter AA0034 BNC – BNC cable 2 meter AA0035 BNC – BNC cable 3 meter AA0070 Microdot – BNC cable 3 meter AA0073-CL Microdot – BNC cable custom length

Reference microphones:

46BL ¼" High sensitive pressure CCP microphone set 46BD ¼" Low sensitive pressure CCP microphone set 46BE ¼" Free Field CCP microphone set

DUT holders:

OP0030 Small DUT holder, low placement in drawer OP0031 Large DUT holder, low placement in drawer OP0032 Small DUT holder, top placement in drawer

Microphone holders:

OP0040 Microphone holder for top/bottom mounting OP0041 Microphone holder for mounting in drawe

Sound source holders:

OP0045 Holder with swivel head for GRAS 44AA OP0046 Heavy duty version of the above holder

Input connector panels:

OP0050 Connector panel – Standard OP0051 Connector panel – Blank for customization



^{*} Standard connector panel include $4\times BNC$, $2\times USB$ and $2\times Mini\ DIN\ 4pin$ for multipurpose use.

Specifications

Acoustic test chamber:

Noise insulation (SIL):

Dimensions (WxDxH):

Weight:



dΒ 60

40

Reference Microphones:

46BL:

4Hz - 20kHz Frequency range: Dynamic range: 25dB(A) - 147dBSensitivity: 18mV/Pa

46BD:

Frequency range: 4Hz - 70kHz 44dB(A) - 166dB Dynamic range: 1,45mV/Pa Sensitivity:

46BE:

Frequency range: 4Hz - 80kHz Dynamic range: 35dB(A) - 160dB Sensitivity: 3,6mV/Pa

Mouth simulators 44AA & 44AB:

IEEE 269, 661 and Standards: ITU-T Rec. P51

Continous output level: 110dB (200Hz-6kHz) 100dB (200Hz-6kHz)

AL0030 Self Insertion Loss

Loudspeaker: $8\Omega/20W$ (max)

Gain*: 10dB 24Vdc Power supply*: Weight: 1.3Kg

*Only valid for 44AA



We make microphones