



CRY7413 Acoustic Test Chamber

Features

- Excellent sound absorbing lining, meeting the audio testing requirements for most wearable products:
 - 100 Hz~300 Hz: > 20 dB
 - 300 Hz~600 Hz: > 25 dB
 - 600 Hz~1000 Hz: > 30 dB
 - Above 1000 Hz: > 40 dB
- Extensive and versatile communication interfaces available.
- Provides consistent testing and reliable data.
- Easy open/close design for quick and safe changes of the Device Under Test (DUT).

Introduction

The CRY7413 Acoustic Chamber provides a quiet environment in a compact space, enabling the testing of acoustic devices without the complexity of a full-scale acoustic test chamber. Its easy open/close design allows for quick and effortless exchange of the Device Under Test (DUT), reducing physical strain on the operator. The chamber features a marked and flexible test jig that accommodates different DUT sizes and simplifies the duplication of test setups across multiple chambers.

The standard configuration comes equipped with all the essential accessories for immediate audio response testing. A variety of optional features are available, enabling you to customize the chamber to meet your specific testing requirements.

Highlights

• Sound Absorbing Lining

Acoustic Chamber features a 40 mm foam lining that is essential for superior sound absorption. This high-quality foam minimizes noise reflections and external noise, ensuring a controlled and quiet environment for accurate acoustic measurements. The foam's effectiveness across a wide range of frequencies enhances the precision and repeatability of test results, making it ideal for various acoustic testing applications.

Noise Floor

Acoustic Chamber ensures a low noise floor level of less than 40 dBA, even when external noise is as high as 80 dBA. This feature provides a quiet and controlled environment for precise acoustic testing, effectively minimizing the impact of ambient noise on measurements.

Abundant and Optional Communication Interfaces

Acoustic Chamber offers abundant and versatile communication interfaces, providing flexibility to meet various testing requirements. The chamber can support a maximum of six independent connector panels, which can be combined and selected according to customer needs.

RF Shielding

This high level of isolation effectively blocks external RF interference, ensuring a clean and stable testing environment. Such performance is crucial for precise measurements and testing of acoustic devices, as any external RF noise can adversely affect the results.



Technical Specifications

Specification

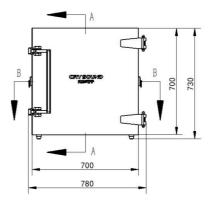
Outer color	Beige	
Material	Sheet metal	
Outer dimension	820 (L) *780 (W) *730 (H)mm	
Inner dimension	500 (L) *500 (W) *500 (H)mm	
Sound-absorbing material	40 mm Foam	

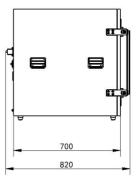
Working Environment

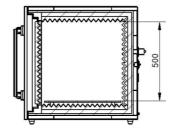
Operating temperature	-10°C ~ 60°C
Operating humidity	below 85%
Storage and transportation	temperature −20°C ~ 70°C, humidity below 85%

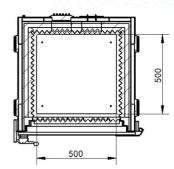
Shielding

RF Shielding Performance	0.8~6 GHz > 50 dB	
Sound Isolation Performance (1/3 Oct. analysis)	100 Hz~300 Hz > 20 dB 300 Hz~600 Hz > 25 dB 600 Hz~1000 Hz > 30 dB Above 1000 Hz > 40 dB	
Nosie Floor	<40 dBA; while external nosie <80 dBA (No impact, strong vibration)	









Filter Interface

Туре	Specification	
USB/DC	DC*2 1 A	
	USB*6 0.5 A	#
SMA	700 MHz~6 GHz	
	standing wave ratio < 1.5	
	insertion loss < 0.5 dB	
BNC	BNC*6	
100 pF capacitor	100 pF capacitor	
Air Pipe	Air pipe interface*6	

Measure Sound Better