

## Overview of Technical Specifications

Product Code	AR-24U600x1000-G	AR-42U600x1000-G
Maximum Recommended Vertical Capacity, for Optimal Thermal Escape from Roof (1U = 44.45mm)	23U	41U
Overall Dimensions (Height*/Width/Depth) *excluding feet or castors	1178 x 600 x 1000mm	1978 x 600 x 1000mm
Assembled Weight (Approx)	78Kg	115Kg
Maximum Distributed Load (Static)	500Kg	
Cabinet Colour	Dark Grey with Black ABS Corners	
Cabinet Features	Acoustically Baffled Doors (Front & Rear) Acoustically Baffled Roof Quick-Release Doors (Front & Rear) Aluminium Extrusion Rigid Cabinet Frame 4 x 19" Vertical Steel Sections (adjustable for depth) Side Panels, Floor & Roof Sections 1mm Sheet Steel Lockable Doors & Side Panels (with keys)	
Included Accessories	Sound-proofing Kit (pre-cut Acoustic Materials) Cabinet Floor with cable entry/exit Adjustable Feet	



Image: Front View with Door Open  
Model AR-42U600 x1000-G - 42U

## Shipping Information

Flat-Packed Rackmount Cabinet Box Weight	84Kg	124Kg
Flat-Packed Rackmount Cabinet Box Dimensions	1220x1120x260mm	2000x1120x260mm
Flat-Packed Cabinet Soundproofing Kit Box Weight	28Kg	53Kg
Flat-Packed Cabinet Soundproofing Kit Box Weight	1093x834x114mm	1897x834x107mm

## Flammability Safety

The soundproofing materials that line the inside of the AcoustiRACK™ cabinet range have been carefully selected to meet stringent flammability standards and have been thoroughly tested in this respect. Please see [www.acoustiproducts.com/en/acoustrack.asp](http://www.acoustiproducts.com/en/acoustrack.asp) for thermal capacity guidelines, mounting recommendations for 19-inch equipment and for further information about the acoustic materials used in the AcoustiRACK™ range.

## Further Information

Please contact: Acousti Products Ltd (UK)  
Web: [www.acoustiproducts.com](http://www.acoustiproducts.com)  
Tel: +44 870 190 4092 Fax: +44 870 922 3971  
Email: [info@acoustiproducts.com](mailto:info@acoustiproducts.com)

[www.acoustiproducts.com](http://www.acoustiproducts.com)



# AcoustiRACK™

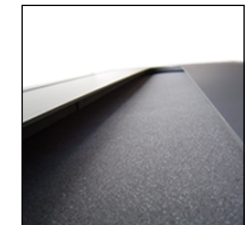
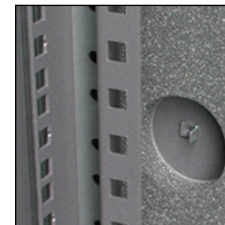
SOUNDPROOFED RACKMOUNT CABINETS



- ▶ Proven to Significantly Reduce Server & Rackmount Equipment Noise
- ▶ Unique Self-Venting Cabinet Design (Patent Pending)
- ▶ Suitable for a wide range of 19" Rackmount Equipment including Blade Server Chassis
- ▶ High Quality Build & Specification
- ▶ Quick & Easy Full Access for Maintenance

A NEW RANGE OF  
BLADE-COMPATIBLE  
SOUNDPROOFED  
RACKMOUNT CABINETS

Sizes Available: 42U & 24U



## Introducing AcoustiRACK™

AcoustiRACK™ is a range of Soundproofed Rackmount Cabinets designed to enclose noisy 19" rack-mounted equipment, such as servers, networking and audio equipment.

The AcoustiRACK™ acoustically treated enclosures are self-venting cabinets that have been designed to trap and absorb unwanted noise generated inside whilst allowing free air movement and heat exchange with the outside of the unit for cooling.



Image: Offset Rear of Rack with Side Panel Removed  
Model AR-42U600x1000-G - 42U

## AcoustiRACK™ Benefits

### Freedom of Choice

AcoustiRACK™ low noise enclosures allow companies and individuals a greater freedom of choice when selecting new 19inch equipment, and then to treat the noise generated. Equipment performance, and not the noise levels generated can become the primary factor influencing choice.

### Noise Problems Solved

Those with existing noisy equipment, or recently purchased servers that prove to be too loud to tolerate can host both older equipment and new servers inside an AcoustiRACK™ sound insulated cabinet that will address the noise issues.

### Improved Productivity

Numerous studies have shown that a quiet environment is conducive to improved cognitive function & decision making. Noise levels from 19" servers and networking/file storage equipment have been increasing steadily in recent years - some units produce sound energy levels that become intolerable should you work close to them or in an adjacent room.

### Health & Safety at Work

Recent changes to directives & legislation show the general trend is one towards much lowered tolerance of workplace noise levels.

Image: Front Offset Side View  
Model AR-42U600x1000-G - 42U



## Acoustic Performance

\*The AcoustiRACK™ 42U 600x1000 has been independently acoustically tested in an anechoic chamber in accordance with internationally recognized Standards (BS EN ISO 3744:1995). When compared to a standard rack cabinet giving 1dB loss in sound power level (using an 87dB Intel Blade Chassis as the noise source), the AcoustiRACK™ 42U 600x1000 yielded over 10dB Sound Power Level (LWA) loss, and a dramatic improvement in the quality of the sound emissions (called psychoacoustics).

In terms of the perception of loudness, this is close to a 90% reduction in noise levels - at 1m distant from the cabinet, it is the difference between being distracted by the noise and unable to hold a conversation without shouting, to being able to think clearly and hold a conversation without any difficulty.

## Quiet Rack Features

- ▶ Proven to Reduce Significantly Server & Rackmounted Equipment Noise by up to 90%\*
- ▶ Unique Self-Venting Cabinet Design (Patent Pending)
- ▶ Suitable for a wide range of 19-inch Rackmount Equipment including Blade Server Chassis (1000mm deep)
- ▶ High Quality Build & Specification (Aluminium Rigid Frame with 1mm Steel Side Panels & Roof)
- ▶ Quick & Easy Full Access for Maintenance to both front & rear of the cabinet (doors can be removed in seconds)
- ▶ Available Flat-Pack for Easy Self-Assembly (full instructions provided, allow 45mins, tools provided)
- ▶ Delivery & Installation Options Available (please contact us for further details)
- ▶ Full Range of 19" Rackmount Accessories Available (including blanking plates, shelving, castors, cable management etc.)

## Optional Accessories Available

- ▶ Assisted Venting Roof Fan Kit (if necessary)
- ▶ Lockable Castors/Wheels
- ▶ Internal Shelving
- ▶ Digital Thermostat with Alarm
- ▶ Soundproofed Blanking Plates (4U, 2U & 1U)
- ▶ Cable Management Accessories



**AcoustiRACK™**  
Models: There are currently two versions available:

42U "Full Height" 600mm (Wide), 1000mm (Deep), Dark Grey (Model: AR 42U600x1000-G)

24U "Half Height" 600mm (Wide), 1000mm (Deep), Dark Grey (Model: AR 24U600x1000-G)

## How Effective is the AcoustiRACK™? Have a Listen!

Listen to an audio mp3 presentation giving 'before' and 'after' recordings of the 42U AcoustiRACK™ soundproof cabinet from [www.acoustiproductions.com](http://www.acoustiproductions.com).