UCoustic™ Cab

The way a cabinet should sound

UCoustic™ Sound Proof Enclosures 9210 Manual

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Systems

UCoustic™ 9210 Floor Standing Cabinet

Thank you and congratulations for purchasing the UCoustic 9210 freestanding acoustic cabinet. Please follow these simple recommendations in order to get the best from your new enclosure.

Handling

Personal care
To achieve the level of acoustic performance and industrial needs of a high quality 19" enclosure the composition of cabinet parts means that the 9210 UCoustic cabinets are **very heavy** when moving the cabinet we recommend a minimum of two people carry out this task.

The individual doors and side panels are also very heavy and need to be handled with care, again we recommend that a minimum of two people remove and assemble the cladding onto the cabinet.

Tools Required:

- 2 point Pozi Drive Screwdriver
- 10mm AF Spanner to suit M6 Nut

Cabinet Siting:
Great care should be taken when siting both the passive and active cabinets..

1. Avoid siting cabinets next to room heating e.g. radiators
2. Where possible avoid siting near windows (to avoid solar gain)
3. Where possible site cabinet in an air conditioned room or in a well vented space
4. Check floor loading capacity. Due to the weight combination of both the cabinet and equipment housed, it maybe necessary to use a floor load spreader plate Pt No. RA0-0082-AA

Removal of Cladding
NB. We recommend that this is performed as a two man operation

To remove front passive wardrobe doors, turn cam lock with key supplied, lift swing handle and turn clockwise, open doors taking care to open without disturbing soundproof seals. When doors are open lift individually each side just high enough to clear hinge pins and safely stand the door against a solid wall.

To remove rear doors, disconnect mains supply, turn cam lock with key supplied, lift swing handle and turn clockwise, hold left hand door in position whilst opening right hand door taking care to open without disturbing the sound proof seals.

Each door has a cooling fan connected to a fan speed controller sited behind the side infill's. Ensure fan speed controller is not connected to its supply BEFORE proceeding with rear door removal and note the polarization of the connector for later reconnection. Disconnect each fan at the rear of the door by squeezing the retaining clips on the white connectors and pulling them apart. When doors are open and main door is away from frame, lift off each door and safely stand it against a solid wall.

To re-hang the rear doors, reverse procedure above remembering to refit the fan connectors after reassembly of doors to cabinet and then reconnect mains supply

To remove the side panels simply turn cam locks with keys supplied and lift panel and place against solid wall, again the panels are very heavy so we recommend a minimum of two people carry out this task.

Thermal Considerations:

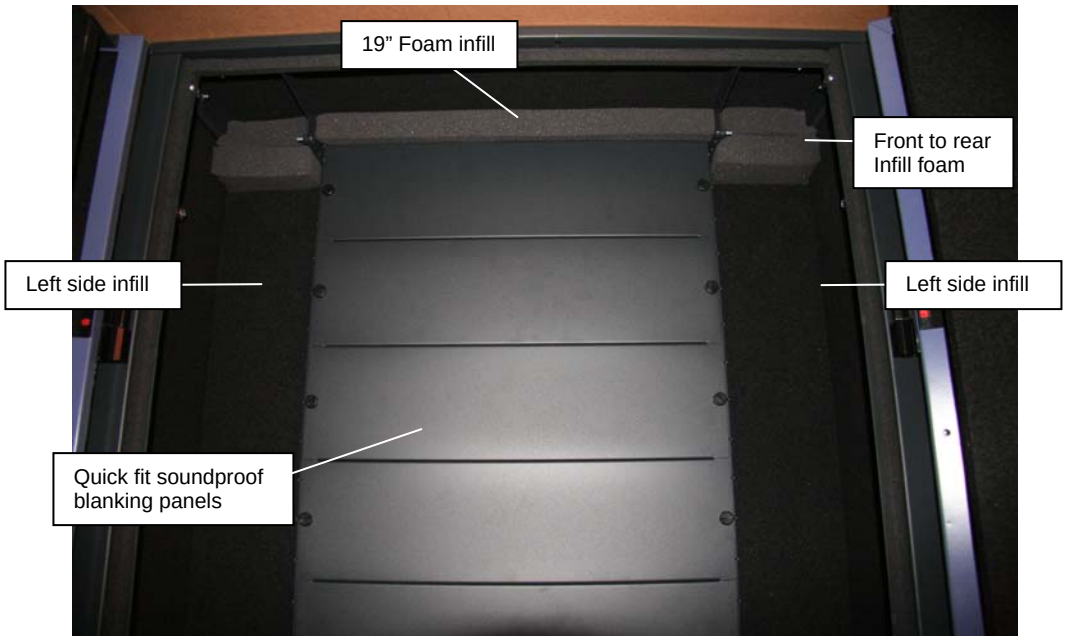
To maximise the thermal capabilities of the UCoustic 9210 we strongly recommend all spaces on and around the front 19" area is filled.

The sealing of the front face of the 19" area ensures no recirculation of hot air; any air gaps **will** impact on the amount of heat removed from the cabinet.

Empty space on the 19" area can be filled using soundproof 19" quick fit blanking panels; see the selection of sizes below.

There is a gap above and below the 19" area even after all the equipment and blanking panels have been fitted, we recommend that this space be filled using the 19" infill foam supplied with cabinet (Please see Pic 1)
NB: It is important to ensure once fitted the foam does not cover any of the equipment's vents.

Once installation is finished or following any refits, cabling, which runs from front 19" face to the rear of the cabinet via the top and bottom of the left hand and right hand infill's that the resulting air gaps around the cabling be filled with the supplied infill foam. (please see Pics 1 and 6)



Pic 1 Front view UCoustic 9210 complete with blanking panels

Order codes for soundproof 19" quick fit blanking panels are as follows:
1U RA0-0201-AA
2U RA0-0202-AA
3U RA0-0203-AA
5U RA0-0205-AA

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Cable Management:

The UCoustic 9210 is fitted with six cable entry positions, three on both the lid and base, fitted to the rear and to each side of the cabinet (see Pic 2)

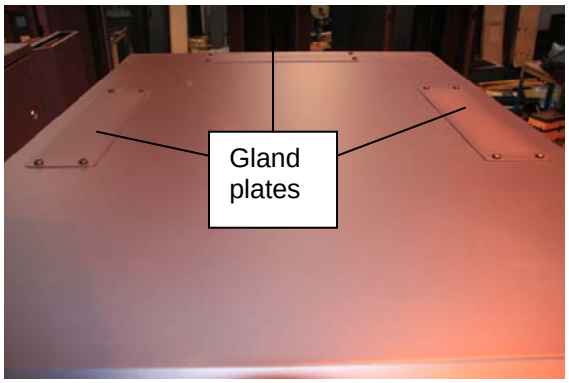
As a rule data cables are usually run into the side cable apertures of a cabinet and straight onto cable trays fitted to the cabinet frame (see Pics 8 & 9). With the interconnecting server and equipment, cables being dressed to the side and rear.

NB. Most equipment fans expel hot waste air to the rear of the cabinet and disorganized cabling can inhibit airflow movement, so care needs to be taken when dressing cabling. We recommend that cables are dressed to the side rear infill panels (see Pics 9, 10 & 11).

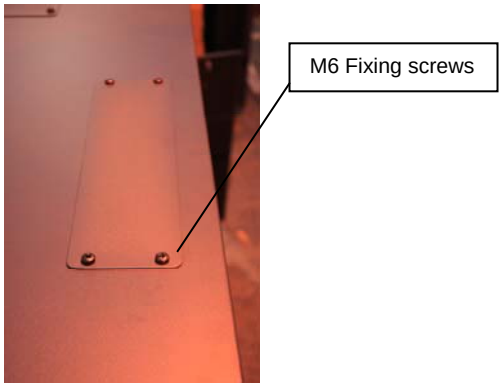
Fitting a cable entry box
Select cable entry point and remove four M6 screws. Then remove gland plate (see Pic 3).
NB. The gland plate will also be held in place by the adhesive stuck to the soundproof material; this means some force maybe required to remove the gland plate. The soundproof material is part precut and will require only the adhesive layer being cut by a sharp blade before being removed.

One cable entry box (see Pic 4) is supplied with each cabinet, should additional ones be required please order under part number RA0-0210-AA

This is reassembled in the hole exposed by removal of the gland and sound proofing material. It should be assembled from the inside of the cabinet so that the flange makes a seal on the cabinet's sound proofing material (see Pic 5) showing rear centre base assembled. Ensure foam is dressed around cables so that no air can escape. This will ensure that any airborne sound inside the cabinet is retained and attenuated within the enclosure. It is recommended that the cables are, where possible lay flat to avoid bunching



Pic 2 Three cable entry points via removable gland plates fitted to the top cover shown and a further three fitted to the base.



Pic 3 Showing 4xM6 fastenings

Pic 4 Cable entry box

Pic 5 Cable entry box fitted to base of cabinet

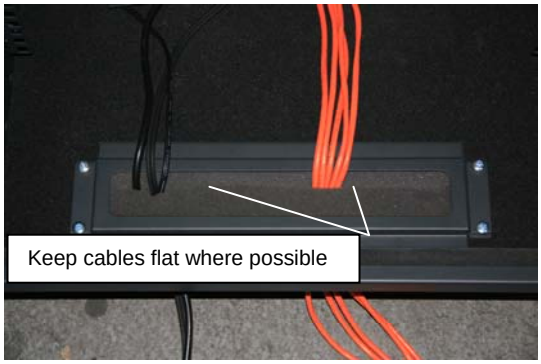
Cable Management Continued:

Front to Rear Cable Management is achieved by passing the cable through the front to rear foam blocks (see Pic 6). These are positioned to the top and bottom of the front infill panels on each side of the cabinet

Four pairs are supplied as standards and should be fitted regardless of cables being passed though as this ensures the correct air path for cooling.

Additional blocks are available; please order under part number RA0-0211-AA (2 per set)

Pic.6 Front to rear cable Infill foam
Top right hand side front shown



Pic. 7. Cable entry box.
Rear base shown

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Cable Management Continued:

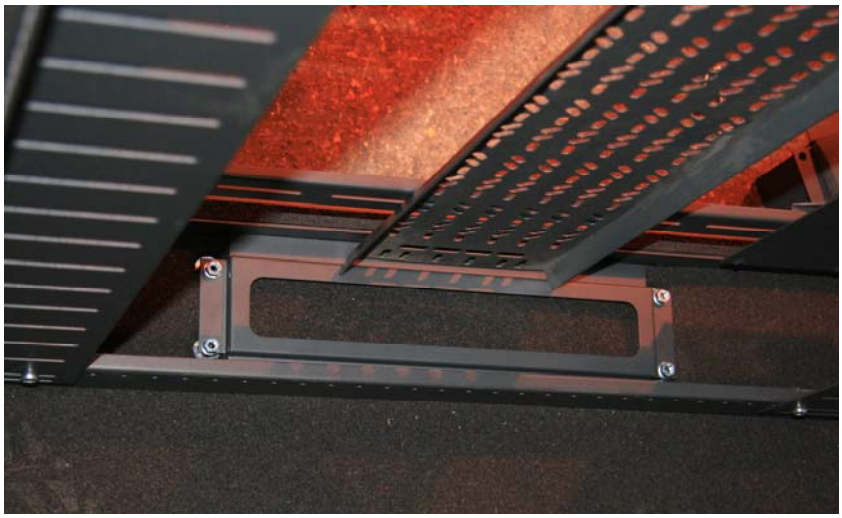
Middle side vertical cable management is achieved by the fitting cable tray fitted to the cabinet depth support members fixed to the front and rear corner posts see Pics 8 & 9).

Available in the following sizes:
12U 150wide
24U 150wide
24U 300wide
42U 150wide
42U 300wide

NB. All accessories can be factory fitted.

These along with other accessories can be purchased through your supplier/distributor or direct from USystems Ltd.


300mm Cable tray



Pic 8 Side cable management and cable entry 150mm cable tray shown

Cable Management Continued:

Front and rear cable management is achieved by fitting cable trunking to each side infill panels.
NB. Because of the soundproof foam fitted to the infill panels, this operation is best done when factory fitted

Available in the following sizes:
12U 50mm x 50mm
24U 50mm x 50mm
42U 50mm x 50mm

These along with other accessories can be purchased through your supplier/distributor or direct from USystems Ltd.

Pic 9 Side cable management and cable entry 300mm cable tray shown

Pic 10 Cable trunking fitted to front infills (front view of 8250 wall box shown).

Pic 11 Cable trunking can be Cut to any length required