



## MS Noise 9210 Active 42U Acoustic Rack

### MSTCA-4292

#### Acoustic Server Rack Enclosure with Assisted Cooling

The MSTC range of quiet rack enclosures has been designed to house noisy 19" rack-mounted equipment, such as servers, networking and audio equipment. By combining ultimate noise reduction with zero overheads and running costs, this range is a viable alternative to a costly dedicated comms room, by allowing the deployment of servers and network equipment directly in the office environment.

This range of quiet rack cabinets will reduce equipment noise to a level below that of background noise in an average office without talking, whilst providing a thermal load capacity of 1.75 to 2.75 kW (dependent upon model).

Also, the spacious internal dimensions provide ample room for orderly cable routing throughout the cabinets, with varied cable entry options to the bottom of the enclosure.

The inclusion of a washable dust-filter, promoting extended equipment life-span and reduced maintenance costs, is optional throughout the MSTC range.



Front View



Rear View



Open View

### Specifications

**Physical Rack Capacity:** 42 x EIA 1 3/4" / 44.5 mm rack spaces; 4-post rack, fully EIA-compliant, with adjustable front & rear mounting profiles

**Noise Reduction:** Approx. 28 dB(A)

**Max. Recomm. Thermal Load:** Up to 7.2kW (24,580 BTU/hr)

**Rack Weight:** 298 Kg

Thermal efficiency and acoustic performance is further improved by filling all gaps between equipment at the front of the cabinet with acoustically treated blanking plates as these reduce the re-circulation of warm air inside the cabinet.

**External Dim (HxWxD):** 2050 x 780 x 1210mm

**Max. Dist. Betw. Mounting Profiles:** 750 mm

This dimension allows a minimum 50mm gap between the front blanking plate / equipment surface and the inner front door surface. This is recommended to allow for sufficient air-intake and, therefore, maximum cooling efficiency.

**Max. Cabinet Depth:** 850 mm

Measured from front blanking plate surface to inside of rear door



**Save Money**  
Removes need for dedicated server room



**Green**  
Efficient and energy responsible



**Cool**  
Air-flow maximizes thermal capacity



**Lockable**  
Prevent unauthorized access



**Soundproof**  
Acoustic design minimizes unwanted noise



**Easy to deploy**  
Simple plug and play installation



**Expandable**  
Add more racks for extra capacity



**Portable**  
Easy to move and relocate as required



## Ms Noise 9210 Active 42U Acoustic Rack (MSTCA-4292) Air Cooled Acoustic Server Rack Enclosure

**Noise of cabinet itself:** The cabinet cooling fans/blowers operate at a noise level between 44.9 and 51.7 dB(A). The thermostatically controlled co-axial fans will automatically adjust their rotation speed to remove the required level of heat from within the cabinet.

**Noise Reduction:** 28 dB(A) noise reduction.

**Thermal Load:** The cabinet can dissipate up to 7.2kW of thermal energy, with assisted cooling provided by two thermostatically controlled co-axial fans located in the rear doors. These maintain sufficient airflow through the enclosure, cooling the equipment, whilst optimising the level of 'ambient' background noise the cabinet itself generates.

Wherever possible, we recommend that all gaps between equipment, at the front of the cabinet, are filled using soundproofed blanking plates. This will reduce the re-circulation of warm air inside the cabinet, improving thermal performance, and further enhancing noise reduction. Acoustically treated blanking plates can be purchased, in 1, 2, 3, 4 and 5U sizes, as an optional accessory. Please ensure sufficient space is left at the point the air exits the cabinet to allow sufficient dissipation of heat. If you are unsure of how to do this please contact us for advice.

**Fire Rating:** Acoustic foam FMVSS 302 – Pass. UL94: VO, Hf1.

**Mobility:** The cabinet is shipped with 4 x heavy duty castor-type wheels as standard. Both the front and rear wheels have 360° rotation for maximum mobility and the front wheels are lockable for securing in location.

**Rear and Side Access:** All doors and both side panels are easily removed for installation and maintenance access.

**Security:** The front and rear doors each have one barrel lock and both side panels have two barrel locks each.

**Cable Entry:** Up to 6 cable entry points can be used. Cable entry dimensions are 330 x 75mm. 1 cable entry kit is supplied to be fitted where required. Up to 5 additional cable entry kits can be supplied.

**Grounding/Earthing:** All equipment installed within the cabinet should have conventional grounding/earthing via power cables. The cabinet will also require additional grounding/earthing which we can supply as an extra accessory.

**Dust-Filtering:** A dust-filter, made from a washable reticulated foam, is available as an optional accessory [Part code: UCDF12]. This is fixed to the air-intake.

**Color Options:** Black as Standard. Any standard RAL Color available at additional cost.

**Cabinet Weight:** Acoustic cabinets can be very heavy and you may need to check the load capacity of the floor before installation. We can supply a "Load Spreader Mat" as an optional accessory which may help if floor capacity is an issue.

**Delivery:** The cabinets are delivered assembled and ready to use.

**Warranty:** All racks include 12 months full manufacturers' warranty against defective workmanship and faulty components.





### MSTC Range Accessories

**Description:**  
12U / 24U / 42U  
Dust Filter

**Product Codes:**  
MSTC-DF12 / MSTC-DF24  
/  
MSTC-DF42



**Description:**  
12U / 24U / 42U  
Finger Cable Trunking

**Product Codes:**  
MSTC-FCT12 / MSTC-  
FCT24 /  
MSTC-FCT42



**Description:**  
1U / 2U / 3U / 4U / 5U  
Blanking Panel

**Product Codes:**  
MSTC-BP-1U / MSTC-BP-  
2U /  
MSTC-BP-3U / MSTC-BP-  
4U /  
MSTC-BP-5U



**Description:**  
266mm / 532mm  
Tower Infill

**Product Codes:**  
MSTC-TBP-266  
MSTC-TBP-532



**Description:**  
Plinth System

**Product Code:**  
MSTC-PS



**Description:**  
9210 Earthing Kit - 6  
Leads

**Product Code:**  
MSTC-EBK



**Description:**  
Cable Entry Foam Block

**Product Code:**  
MSTC-CEFB



**Description:**  
Load Spreader 780 x  
1100mm

**Product Code:**  
MSTC-LSP

Awaiting Image

**Description:**  
9210 Baying Kit

**Product Code:**  
MSTC-BK



**Description:**  
Heat Ducting Kit (Active  
Only)

**Product Code:**  
MSTC-HDK-RF (Retro Fit)  
MSTC-HDK-FF (Factory  
Fit)



# MS NOISE SOUNDPROOF CABINETS

## MSTCA-4292



**Description:**  
Foam Anti-Recirculation  
Kit

**Product Code:**  
MSTC-ARK



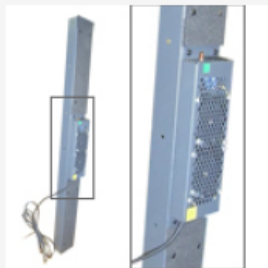
**Description:**  
120mm Levelling Feet  
(Set of Four)

**Product Code:**  
MSTC-LF



**Description:**  
12U / 24U / 42U Infill Side  
Venting Kit

**Product Codes:**  
MSTC-SVKI12 / MSTC-  
SVKI24 /  
MSTC-SVKI42



**Description:**  
Fan Module for  
Infill  
Side Venting Kit

**Product Code:**  
MSTC-SVKFM

Awaiting Image

### Shelving:

**Description:**  
1U Adjustable Shelf (550-  
950mm)

**Product Code:**  
MSTC-AS1U-B



**Description:**  
Telescopic Shelf -  
465x570mm

**Product Code:**  
MSTC-TS465-570



**Description:**  
2U Cantilever Modem Shelf  
400mm  
2U Cantilever Modem Shelf  
300mm  
1U Cantilever Modem Shelf  
300mm

**Product Code:**  
MSTC2U-CS-400 / MSTC2U-CS-  
300 / MSTC1U-CS-300



# MS NOISE SOUNDPROOF CABINETS

## MSTCA-4292



### Static Support Rails :

**Description:**

Front Fixing - depth  
740mm

**Product Code:**  
MSTC-FFSSR-B



**Description:**

Side Fixing - depth  
715mm

**Product Code:**  
MSTC-SFSSR-B



### Cable Management:

**Description:**

1U / 2U Horizontal 4 Ring  
Cable Tidy

**Product Code:**  
MSTC-CR1U-4 / MSTC-  
CR2U-4



**Description:**

24U / 36U / 42U x 75mm  
Cable Tidy

**Product Code:**  
MSTC-CT24-75 / MSTC-  
CT36-75 / MSTC-CT42-75



12U, 24U & 42U Models