*U*Coustic

The UCoustic Soundproof Rack delivers the ultimate combination of noise reduction and air-cooled thermal performance. It removes the needs for a costly comms room and can be used in any area including; offices, receptions, hallways, and cupboards, without concern for noise or temperature issues. The UCoustic Rack acts as a 1m² server room and allows for a safe and secure deployment of IT equipment whenever and wherever it is needed, saving space, cost, and deployment time.
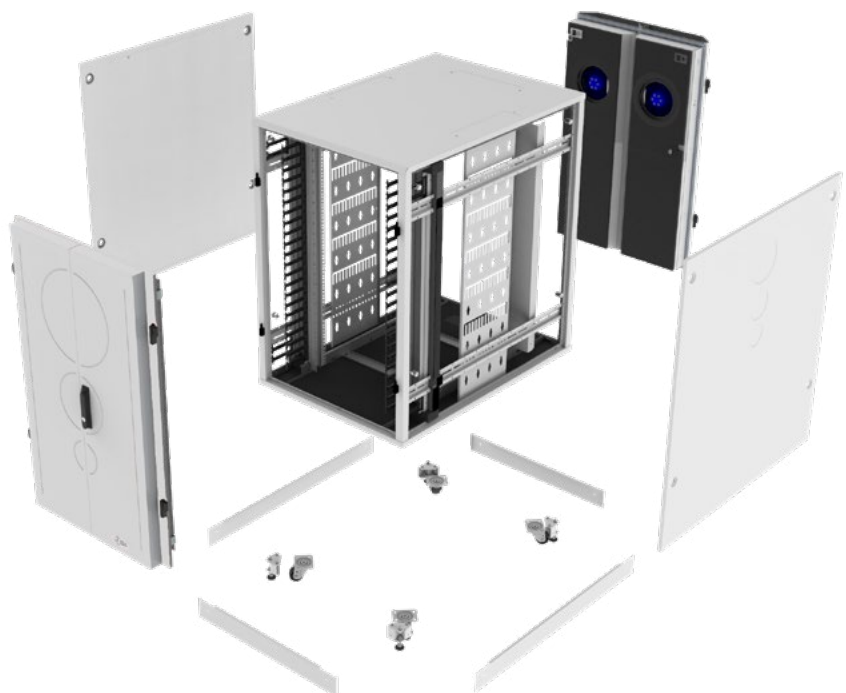
The UCoustic Soundproof Rack is available in 3 different heights, 780mm wide and 1100mm deep with the ability to increase the depth by 300mm with the extension frame. The active rack has two EC fans in the rear doors to deal with higher heat loads and to ensure maximum energy efficiency, they are controlled with variable fan speed controllers with a dedicated fan curve.

Save Money, Time and Space

- Cost Effective and Green
  - No need for dedicated comms room
- Cool
  - Innovative air-flow design means you can dissipate up to 12kW of heat with no special cooling requirements
- Easy to deploy
  - With our exclusive ramp solution, delivery to site is as easy as plug and play
- Expandable
  - Deploy another UCoustic when required
- Portable
  - Easy to relocate to another room or building

Typical Applications

- Offices and Meeting Rooms
- Hallways and Cupboards
- Banks
- Hospitals and GPS
- Manufacturing Plants
- Laboratories
- Schools
- Hotels

UCoustic Technical Information

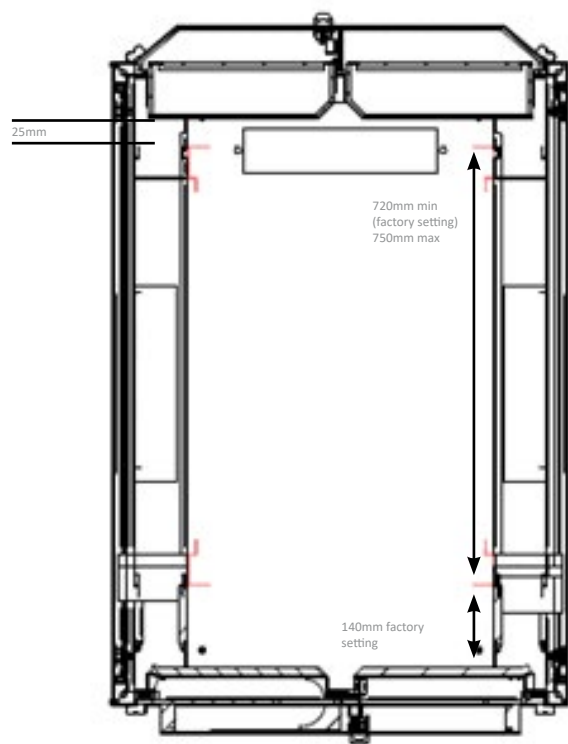| General		UCoustic 12U	UCoustic 24U	UCoustic 42U
Order Code — 100 to 115v	Light Grey	UCG-1211-15	UCG-2411-15	UCG-4211-15
	Black	UCB-1211-15	UCB-2411-15	UCB-4211-15
Order Code — 200 to 240v	Light Grey	UCG-1211-24	UCG-2411-24	UCG-4211-24
	Black	UCB-1211-24	UCB-2411-24	UCB-4211-24
H x W x D (max.)	mm	714 x 780 x 1250	1247 x 780 x 1250	2047 x 780 x 1250
Weight (Rack)	kg (lbs)	140 (308)	204 (449)	328 (723)
Weight (300mm Extension Frame)	kg (lbs)	23 (51)	33 (73)	47 (104)
Dynamic Load (on castors) *	kg (lbs)	750 (1653)		
Static Load *	kg (lbs)	750 (1653) On Castors		
		1500 (3307) On Levelling Feet		
Index of Protection **		IP44 - Upgrade to IP54 available		
Noise reduction of IT noise	dBA	28.5dBA (99%)		
Paint Finish	Light Grey	Semi Gloss powder coat - RAL 7035		
	Black	Semi Gloss powder coat - RAL 9005		
Frame Material	mm	1.5mm CR4 steel		
Passive and Active door Material	mm	1.0mm, 1.2 & 2.0 mm CR4 steel		
Top Cover Material	mm	1.2mm CR4 steel		
Mounting Angles Material	mm	2.0mm CR4 steel		
Foam		Fire Retardant		
EC Fan Control		Up to 2 - 2 pre-set fan curves		
Cooling Capacity		**UCoustic 12U**	**UCoustic 24U**	**UCoustic 42U**
Max. Thermal Load	kW	12		
Fan Type		Backward curve EC Fan		
Cooling Type		Air Cooled		
Air Cooling Capacity (230V)	kW	6.2	10.5	11.5
Air Cooling Capacity (115V)	kW	6	9	10

Dynamic Load Rating is the total rolling mass of the rack and includes the rack frame, cladding and any fitted equipment and accessories and is subject to the load being evenly distributed at 20U height and below. Dynamic load relates to the movement of a rack within the same data centre on a smooth floor clear of any obstacles. Not suitable for transportation on a vehicle when loaded to this weight.

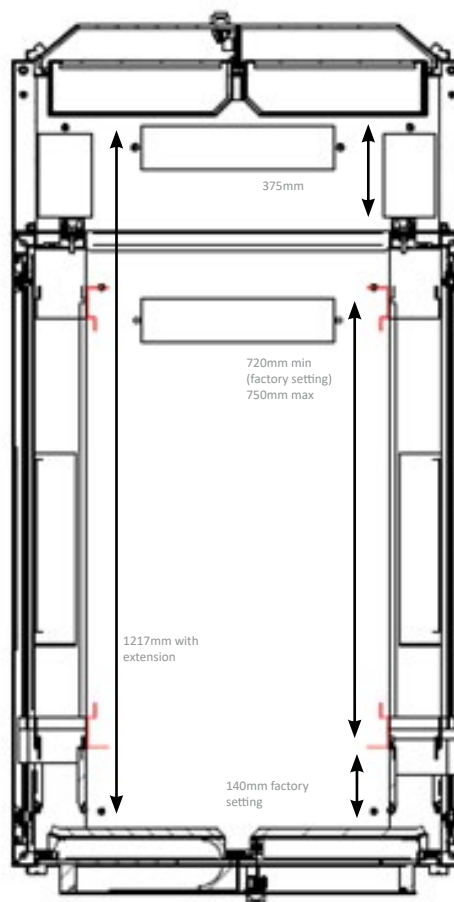***This figure will be affected if the filter is not fitted/regularly maintained*

Drawing

Standard footprint internal dimensions   Internal dimensions with 300mm extension

25mm

720mm min
(factory setting)
750mm max

140mm factory
setting

Rear Doors

375mm

720mm min
(factory setting)
750mm max

1217mm with
extension

140mm factory
setting

Front Doors

Please refer to official technical drawings

Materials and Finish

Frame , cladding and accessories
1.2, 1.5mm, 2.0mm & 3mm CR4 steel

Earth bonding kit
4mm diameter earth cable

Polyolefin film
NG25-0.1mm

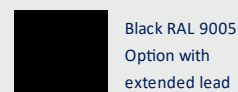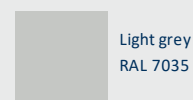Soundproof foam
DST0880 – density 26 to 32 kgm-3

Gasket
Fire retardant

Dust filter
Reticulated foam

Cable entry system
Fire retardant foam

Fixed plinth, HD castors and levelling feet
750kg dynamic load, 1500kg static load

Semi gloss powder coat

Light grey
RAL 7035

Black RAL 9005
Option with
extended lead

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Further Documentation

For additional information, please refer to the below. Available through your USystems representative, or our central enquires line at sales@usystems.com

Complete Product Range	Available at www.usystems.com
Operations and Maintenance Manual	Please contact sales@usystems.com
Troubleshooting Guide	Please contact sales@usystems.com
Product Brochure	Available at www.usystems.com