

CQr Guardian Technical Data



SECURITY CONSTRUCTION EQUIPMENT COMMITTEE



- 2mm fully welded frame.
- 2 x PDU trays.
- 4 x adjustable numbered RU mounting rails.
- 4 x levelling feet.
- All racks complete with maximum cable entries.
- Cable entries feature cable tie off points and removable cover.
- Baffle entries compliant to copper and fibre bend radius requirements.
- Includes power entry passthrough

Optional Accessories:

- Extended panels for increased cable capacity.
- High efficiency cooling system.
- Baying kit with segregation panel and cable access between racks.
- SCEC approved accessories.



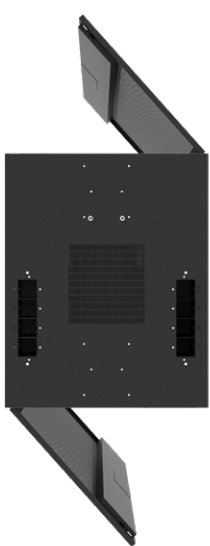
EIA-310-D
Standards
Compliant



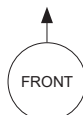
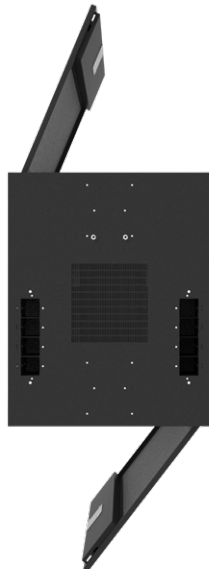
IEC 60297
Standards
Compliant

*Unrivalled 1400kg
distributed load capacity.*

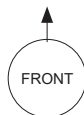
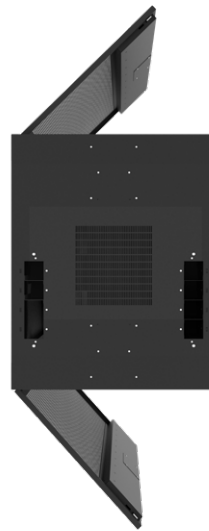
STANDARD DOOR CONFIGURATIONS



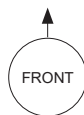
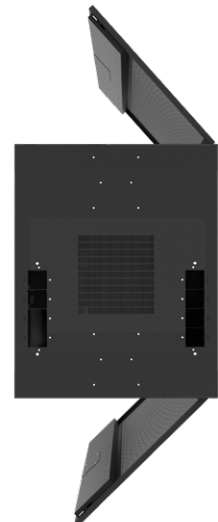
Front Left Hinge
Rear Left Hinge



Front Right Hinge
Rear Right Hinge



Front Left Hinge
Rear Right Hinge



Front Right Hinge
Rear Left Hinge

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B&R KNOWS DEFENCE & SECURITY

Defence Projects Featuring the CQr

- Air 5431 Phase 2 & 3 - Defence Air Traffic Management and Control System Facilities:
 - RAAF Base Amberley (QLD)
 - Army Aviation Centre Oakey (QLD)
 - RAAF Base Pearce (WA)
- Air 5349 Phase 3 (Growler)
- Battlefield Airlifter Phase 2, C & D
- 23rd Squadron RAAF Base Amberley
- Jindalee Operational Radar Network
- Gallipoli Barracks, QLD
- RAAF Base Williamstown, NSW
- SHOALWATER BAY –Australia Singapore Military Training Initiative (ASMTI) Facilities SWBTA Rockhampton, QLD
- Land 400 Townsville Lavarack Barracks
- Land 400 Puckapunyal Military Area

We Set the Benchmark for SCEC Approved Door Ventilation

In many applications of mesh doors, the pressure loss through the door is one of the design considerations.

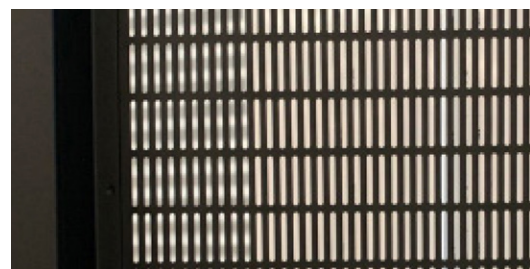
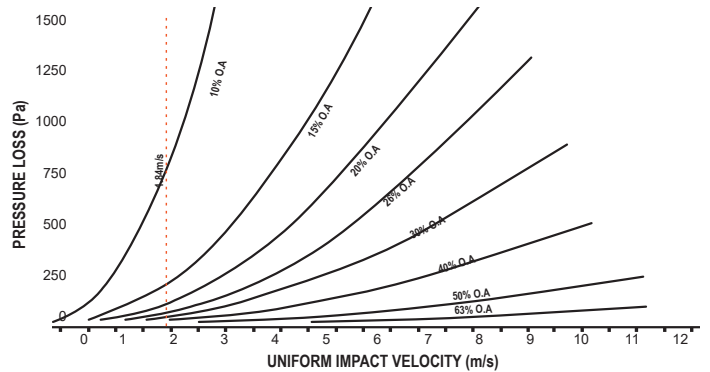
In most situations the air impact velocity on the door won't be much over 2.0m/s. As seen in the graph to the right, B&R's SCEC approved 40% mesh doors will have a negligible pressure drop at these velocities.

Most computer room air conditioners generate more than 20Pa of pressure, more than enough to overcome the pressure drop at the door in a containment situation.

For example; in a data centre environment, a 15kw heat load in a 45RU cabinet would require 3500m³/h of airflow. This is equivalent of a 1.84m/s impact velocity. In a containment situation with a positive aisle pressure this will be more than the pressure drop of the doors and the equipment will receive sufficient air flow.

40% mesh was developed as a cross over point of functional performance and higher security with SCEC approved product. B&R have the largest area of the doors available for airflow due to the smallest lock width approved. Be confident in using a B&R Class C or B cabinet for your medium heat loads without the need for additional fan trays or active cooling.

Pressure Loss vs Impact Velocity For Various Open Area Perforated Plates
Source: Industrial Perforators Association (1993)



High flow ventilation mesh

Certifications, Accreditations & Partnerships



ORDER GUIDE

Part Number	Class	RU	Height	Depth	Door Configuration
ACQR3B42U810LL	B	42	2065	1000	Front & Rear Left Hinge
ACQR3B42U810LR					Front Left & Rear Right Hinge
ACQR3B42U810RL					Front Right & Rear Left Hinge
ACQR3B42U810RR					Front & Rear Right Hinge
ACQR3B42U812LL			2065	1200	Front & Rear Left Hinge
ACQR3B42U812LR					Front Left & Rear Right Hinge
ACQR3B42U812RL					Front Right & Rear Left Hinge
ACQR3B42U812RR					Front & Rear Right Hinge
ACQR3B45U810LL	B	45	2200	1000	Front & Rear Left Hinge
ACQR3B45U810LR					Front Left & Rear Right Hinge
ACQR3B45U810RL					Front Right & Rear Left Hinge
ACQR3B45U810RR					Front & Rear Right Hinge
ACQR3B45U812LL			2200	1200	Front & Rear Left Hinge
ACQR3B45U812LR					Front Left & Rear Right Hinge
ACQR3B45U812RL					Front Right & Rear Left Hinge
ACQR3B45U812RR					Front & Rear Right Hinge
ACQR3C42U810LL	C	42	2065	1000	Front & Rear Left Hinge
ACQR3C42U810LR					Front Left & Rear Right Hinge
ACQR3C42U810RL					Front Right & Rear Left Hinge
ACQR3C42U810RR					Front & Rear Right Hinge
ACQR3C42U812LL			2065	1200	Front & Rear Left Hinge
ACQR3C42U812LR					Front Left & Rear Right Hinge
ACQR3C42U812RL					Front Right & Rear Left Hinge
ACQR3C42U812RR					Front & Rear Right Hinge
ACQR3C45U810LL	C	45	2200	1000	Front & Rear Left Hinge
ACQR3C45U810LR					Front Left & Rear Right Hinge
ACQR3C45U810RL					Front Right & Rear Left Hinge
ACQR3C45U810RR					Front & Rear Right Hinge
ACQR3C45U812LL			2200	1200	Front & Rear Left Hinge
ACQR3C45U812LR					Front Left & Rear Right Hinge
ACQR3C45U812RL					Front Right & Rear Left Hinge
ACQR3C45U812RR					Front & Rear Right Hinge