CQr Guardian Technical Data

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 Williamtown, NSW

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.

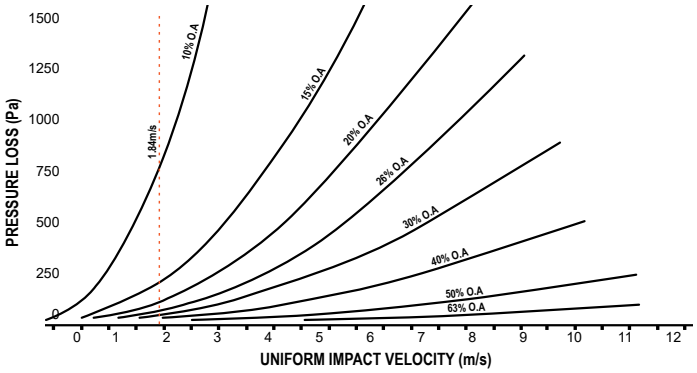
In most situations the air impact velocity on the door won't be much over 2.0m/s. As seen in the graph to the right, B&Rs SCEC approved 40% mesh doors will have a negligible pressure drop at these velocities.

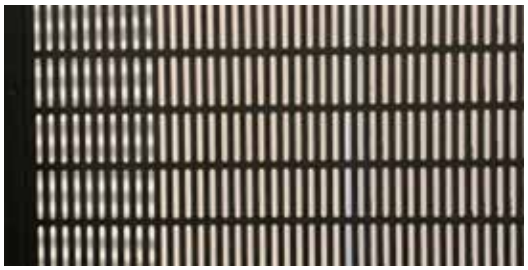
Most computer room air conditioners generate more than 20Pa of pressure, more than enough to overcome the pressure drop at the door in a containment situation.

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

MIL STD
N Cage
Z6Q79

Australian Government
Defence

Defence Recognised Supplier
Department of Defence

SCEC™
APPROVED | PRODUCT
SECURITY CONSTRUCTION EQUIPMENT COMMITTEE

CQr Guardian

19 inch secure cabinets

Matt Black | STI | STATIC 1400kg | SEISMIC 750kg | SCEC APPROVED PRODUCT

- 1.6mm fully welded frame.
- Vented top panel.
- 2 x PDU trays.
- 4 x adjustable numbered RU mounting rails.
- 4 x levelling feet.
- All racks complete with maximum (x8) cable entries.
- 2 x 300mm cable trays
- Available in both Class B and Class C configurations
- Power passthrough box for dual feeds
- Cable entries feature cable tie off points and removable cover.
- Baffle entries compliant to copper and fibre bend radius requirements.

Optional Accessories:

- Extended panels for increased cable capacity.
- High efficiency cooling system.
- Power isolater switches
- Baying kit
- Segregation panels
- SCEC approved accessories.

EIA-310-D Standards Compliant

IEC 60297 Standards Compliant

Unrivalled 1400kg distributed load capacity.

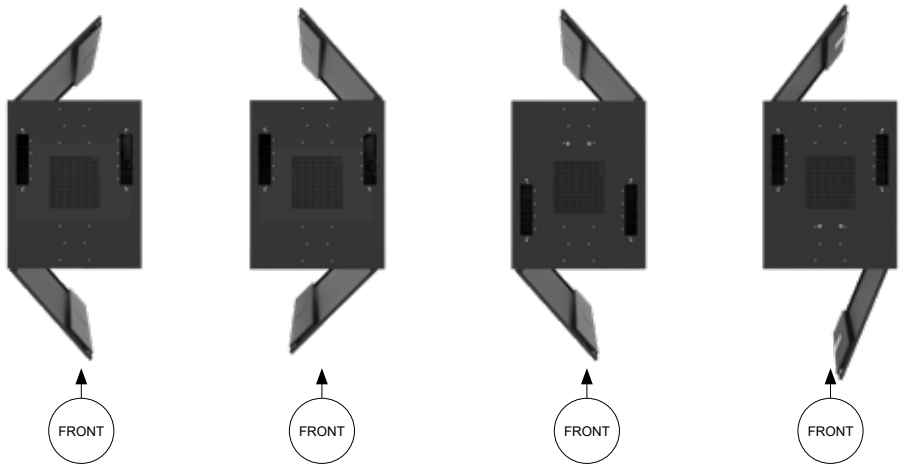
Rear view showing cable entry

CABLE BAFFLE CAPACITY

		Cat5e	Cat6	Cat6e	Cat7e	Fibre
	Diameter (mm)*	5.6	6.3	8.4	76	3
	Saturation*	60%	60%	60%	60%	70%
Cable Entries (per entry)	75 x 75 entry	100	80	45	55	415

These are nominal values for the OD of cable. Sizes vary by manufacturer. B&R does not accept liability for any errors.
*Recommended maximum cable saturation.

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

ORDER GUIDE

Part Number	Class	RU	Depth	Door Configuration
ACQRB21U810LL	B	21	1000	Front & Rear Left Hinge
ACQRB21U810LR				Front Left & Rear Right Hinge
ACQRB21U810RL				Front Right & Rear Left Hinge
ACQRB21U810RR				Front & Rear Right Hinge
ACQRB21U812LL			1200	Front & Rear Left Hinge
ACQRB21U812LR				Front Left & Rear Right Hinge
ACQRB21U812RL				Front Right & Rear Left Hinge
ACQRB21U812RR				Front & Rear Right Hinge
ACQR3B42U810LL	B	42	1000	Front & Rear Left Hinge
ACQR3B42U810LR				Front Left & Rear Right Hinge
ACQR3B42U810RL				Front Right & Rear Left Hinge
ACQR3B42U810RR				Front & Rear Right Hinge
ACQR3B42U812LL			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	1000	Front & Rear Left Hinge
ACQR3B45U810LR				Front Left & Rear Right Hinge
ACQR3B45U810RL				Front Right & Rear Left Hinge
ACQR3B45U810RR				Front & Rear Right Hinge
ACQR3B45U812LL			1200	Front & Rear Left Hinge
ACQR3B45U812LR				Front Left & Rear Right Hinge
ACQR3B45U812RL				Front Right & Rear Left Hinge
ACQR3B45U812RR				Front & Rear Right Hinge
ACQRC21U810LL	C	21	1000	Front & Rear Left Hinge
ACQRC21U810LR				Front Left & Rear Right Hinge
ACQRC21U810RL				Front Right & Rear Left Hinge
ACQRC21U810RR				Front & Rear Right Hinge
ACQRC21U812LL			1200	Front & Rear Left Hinge
ACQRC21U812LR				Front Left & Rear Right Hinge
ACQRC21U812RL				Front Right & Rear Left Hinge
ACQRC21U812RR				Front & Rear Right Hinge
ACQR3C42U810LL	C	42	1000	Front & Rear Left Hinge
ACQR3C42U810LR				Front Left & Rear Right Hinge
ACQR3C42U810RL				Front Right & Rear Left Hinge
ACQR3C42U810RR				Front & Rear Right Hinge
ACQR3C42U812LL			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	1000	Front & Rear Left Hinge
ACQR3C45U810LR				Front Left & Rear Right Hinge
ACQR3C45U810RL				Front Right & Rear Left Hinge
ACQR3C45U810RR				Front & Rear Right Hinge
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