

# AIRbridge™ Low, Medium & High Density Cooling

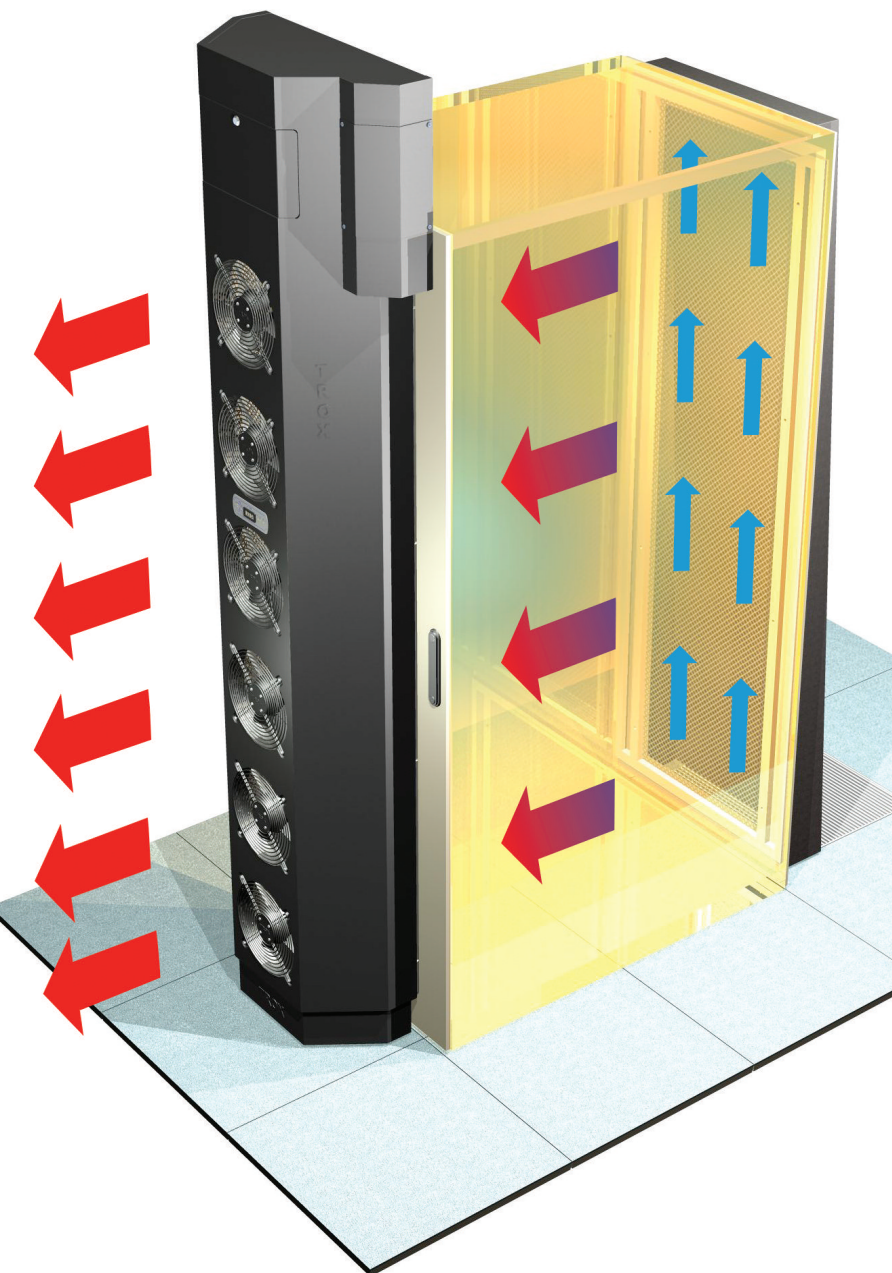
## AIRbridge™ scalable cooling

The TROX AITCS AIRbridge™ system is a scalable solution that can be used on a 'rack by rack' basis with the inlet hood to eliminate hotspots; or combined with cold aisle containment to achieve medium and high density cooling.

## Hotspot Cooling

The unit draws the data centre's conditioned air from the floor void, via a pattern matched floor grille & inlet hood to provide air cooling to the servers. The server heat is rejected by the AIRbridge™ unit fitted to the rack's rear door. The inlet hood prevents hot air re-circulation into the servers, to protect them from overheating.

The inlet hood and viewing panel are fixed to the rack door to provide full access to the servers.



## Features:-

- Cooling capacity Air 10kW (inlet hood)  
Air 15kW (cold aisle containment)
- Containment Inlet hood (door mounted)  
Cold aisle containment
- Power Single or dual supplies  
100-240V 50/60Hz  
single phase
- Rack types Suits all types,  
single door only
- Fans (5 or 6) 48V DC, variable speed  
BMS volt free 'healthy' status  
monitoring
- Temp monitoring 4-20mA BMS signal
- Coil Drop-in CHW or CO<sub>2</sub>  
CHW 30/40kW  
CO<sub>2</sub> 30/40kW  
Thermosyphon CO<sub>2</sub> 20kW

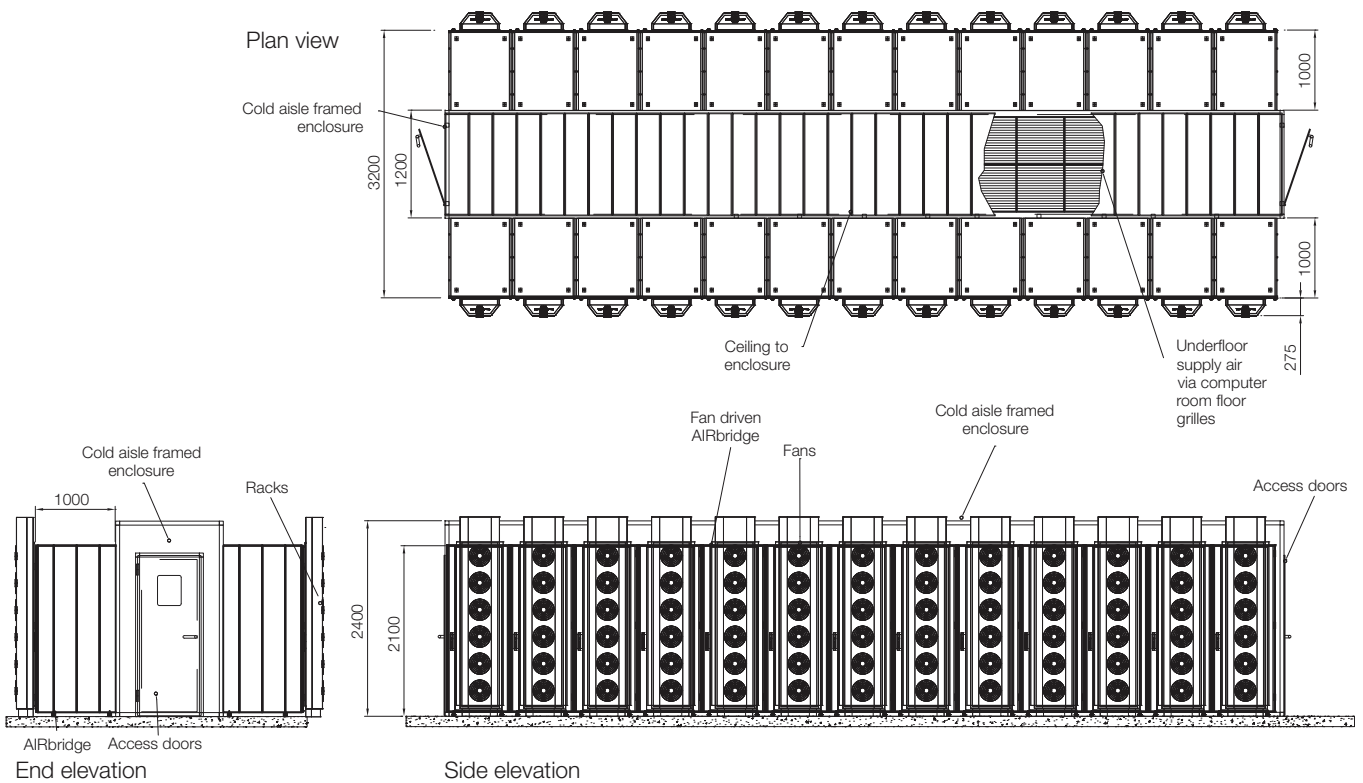
AIRbridge & inlet hood/grille

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## Cold Aisle Containment

The solution is compatible with enclosures served by CRAC units, where a cluster of AIRbridge™ units enhance the airflow through the servers:

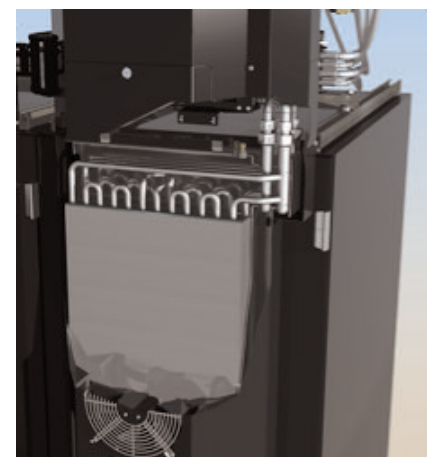
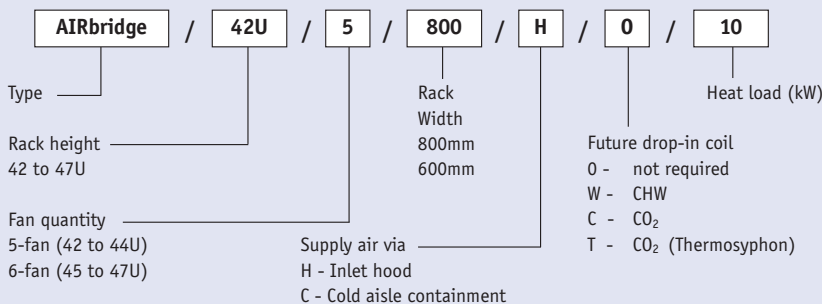
- Even temperature profile, over full rack height
- Eliminates mixing/short circuiting



## High Density (HD) Liquid Cooling

The insertion of a heat exchanger (CO<sub>2</sub> or CHW) enables AIRbridge™ to be upgraded to a high density liquid cooled unit. In an liquid cooled HD mode the heat absorbing coil replaces the inlet hood and floor grille.

### Order Code - AIRbridge™



AIRbridge™ + drop-in coil