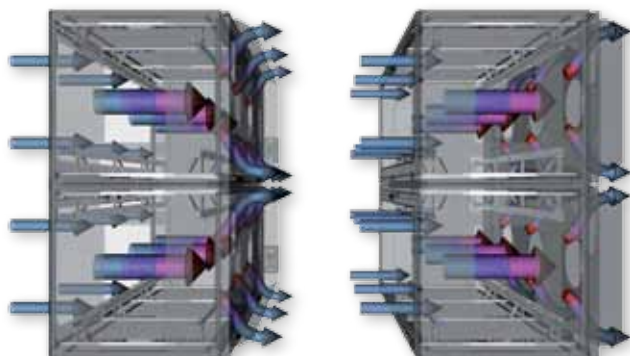
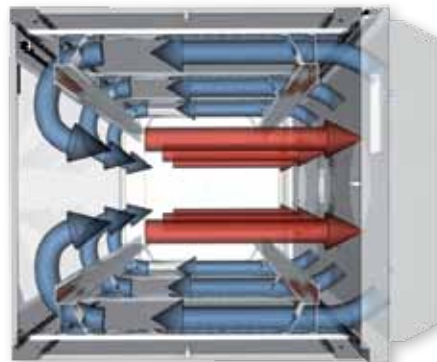


4.2 REAR MOUNT COOLING UNITS

The rear mount cooling units are designed for cooling of very high thermal loads that are typical for modern data centers and server rooms. The range includes cooling units with cooling output up to 18 kW. The cooling units' architecture offers two versions – a closed air circuit and an open air circuit.



Top view – air flow detail – open air-loop architecture



Top view – air flow detail – closed air-loop architecture

Architecture with an open air circuit

The rear mount cooling unit with open circuit is suitable for application in data centres with traditional arrangement, i.e. with identical orientation of all racks in a data center. After passing through a rack, the air is cooled and it passes to another corridor where it is sucked by the next rack row.

Architecture with a closed air circuit

The rear mount cooling units with a closed circuit are ideal for cooling of hot spots – extremely hot local points in the rack vicinity. Therefore, they can be used not only in newly established data centers, but in older centers as well, where increased output of the equipment installed results in a problem concerning sufficient cooling of hot spots.



ROF 80x80 42U
with rear mount
cooling

DESCRIPTION:

- Cooling capacity: 8, 12 or 18kW; even the most demanding blade computing environment can be kept at the optimum temperature
- Height: 42U
- Width: 800mm
- Heavy duty frame and rear door contain the cooler to deliver the chilled air directly to equipment
- Available in both Direct Expansion (DX) and Chilled Water (CW) variants
- DX includes frame, door and plumbing connections, CW includes frame, door and plumbing connections
- Electronic Control Board – cooling and chilled air throughput are controlled with microprocessors to ensure optimum cooling levels are maintained at all times
- Plumbed to either outdoor condensers or the central chilled water systems. Pipes are laid below raised floor and routed to the chilled water or condenser installations



Compatible Rack Part No.	Required Cooling and Part Numbers		
OPEN ARCHITECTURE – DIRECT EXPANSION	8kW	12kW	18kW
RHF/RDF/RSF/ROF-42-80/xxx	AC-RO-DX/08-42	AC-RO-DX/A2-42	AC-RO-DX/A8-42
OPEN ARCHITECTURE – CHILLED WATER	8kW	12kW	18kW
RHF/RDF/RSF/ROF-42-80/xxx	AC-RO-CW/08-42	AC-RO-CW/A2-42	AC-RO-DX/A8-42
CLOSED ARCHITECTURE – DIRECT EXPANSION	8kW	12kW	18kW
RDF/ROF-42-80/xxx	AC-RC-DX/08-42	AC-RC-DX/A2-42	AC-RC-DX/A8-42
CLOSED ARCHITECTURE – CHILLED WATER	8kW	12kW	18kW
RDF/ROF-42-80/xxx	AC-RC-CW/08-42	AC-RC-CW/A2-42	AC-RC-CW/A8-42