

# RDC

## REAR DOOR COOLING FOR HIGH DENSITY HYPERSCALE DATA CENTER

25-61 kW



**Rear Door** solutions are cooling systems designed to reduce the temperatures generated directly at the rear of the racks, where the heat produced by the servers is most intense. **Rear Door solutions can be active**, featuring fans to increase air flow, **or passive**, relying solely on natural air flow. In this way, they not only significantly lower the temperature but also **improve the overall energy efficiency of the data center.**



- Dual power supply (optional)
- Up to 61 kW of cooling capacity
- Adaptable for every rack dimension/brand
- Passive solution without fans: no noise, no additional power consumption, low maintenance
- Active solution with fans for higher dissipation capacity
- Water connection from top/bottom
- Integrated microprocessor and remote monitoring
- Reduced foot print
- Pressure-independent control valve / energy valve



### Simplified standalone or complementary solution for high-density racks

The cooling capacity required by the rack is ensured without the need for additional precision air conditioning units. **The absence of hot return air within the IT room further contributes to improving the overall system efficiency**, eliminating the need to separate hot and cold aisles and simplifying the management and configuration of the IT environment. This solution is also **easily integrated into facilities already equipped with existing precision air conditioning systems**, allowing dedicated cooling of high power density racks and preventing the formation of hot spots.



### Up to 61 kW of cooling capacity

Equipped with an **adaptation frame** that facilitates installation on the rear of any rack, these units represent a compact solution that **does not result in any reduction of usable space within the IT room**. The unit depth is 420 mm.



### 180° door opening

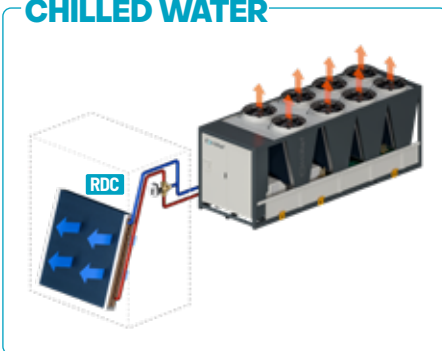
The 180° door opening ensures **full accessibility** to the internal rack components from the rear.



### EC Fans

PLUG EC fans, supplied as standard across the entire range, are characterized by **precise control** that enables **efficient use of the electrical energy** required for ventilation, significantly contributing to the reduction of the overall system PUE.

### CHILLED WATER



RDC	64	84	
<b>Server air outlet 35°C 30%, inlet water temperature 15°C</b>			
Cooling capacity	kW	24.9	40.7
EER		15.6	25.4
SHR		1	1
Room temperature	°C	24.3	23.3
<b>Server air outlet 40°C 25%, inlet water temperature 15°C</b>			
Cooling capacity	kW	31.1	50.7
EER		19.4	31.7
SHR		1	1
Room temperature	°C	26.2	25
<b>Server air outlet 45°C 20%, inlet water temperature 15°C</b>			
Cooling capacity	kW	37.1	60.6
EER		23.2	37.9
SHR		1	1
Room temperature	°C	28.2	26.7
Rated air flow	m <sup>3</sup> /h	6800	10500
Water flow	l/h	2000	4000
Fans power consumption	kW	1.6	1.6
Power supply	V/ph/Hz	230/1/50	
Dimensions [LxHxD]	mm	600x2000x420	800x2000x420

Also available with 60 Hz power supply.

