

Smart Panel

Cooling right where it's needed

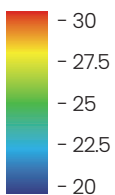
Ideal for high-density applications

Canatec's Smart Panel is a rear door heat exchanger (RDHX) that enhances cooling efficiency in high-density environments. The Smart Panel is mounted on the rear of server racks to capture heat directly from the servers.

Coolant Distribution Unit: Our Smart Panel can be used with a CDU that supplies coolant. The CDU is able to adjust the coolant flow based on real-time temperature readings from the RDHX, optimizing cooling based on actual demand rather than a static approach.

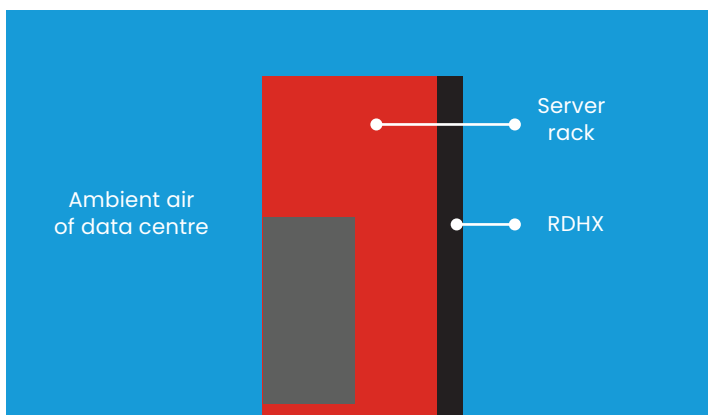
Chilled Water: For systems utilizing chilled water, our Smart Panel can be equipped with an EPIV to optimize the flow required for cooling each individual rack.

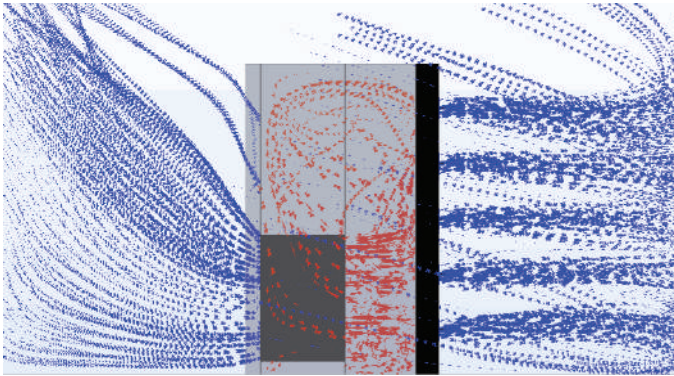
Cool ambient air temperature



Instantly cooled air

Heat is prevented from escaping into the data centre environment thanks to immediate absorption via RDHX.





Efficient airflow

Effectively captures heat directly from the server rack exhaust by using an RDHX integrated into the rear door

Features & Benefits



Flexible Implementation

Perfect for server racks that require more localized cooling without transitioning to a full liquid-cooled system.



No Modifications Required

Uses air cooling while containing hot air within the server rack, therefore not requiring direct liquid-to-chip integration.



Superior Heat Removal

Provides efficient heat removal at the rack level, placing them second in energy efficiency behind liquid cooling.



Built for Medium to High-Density

Ideal for environments that require AI or HPC, suitable for education, government and defense sector.

Specifications

Model Parameters (SP****)	X005	X005	X007	X007	X010	X010	X012	X012
Rated Cooling Capacity (kW)	4.0	5.1	8.0	10.5	10.0	13.2	12.0	15.5
Fan Quantity	10	10	10	10	12	12	12	12
Total Fan Airflow (m ³ /h)	850	850	1750	1750	2550	2550	3050	3050
Rated Power (W)	160	160	160	160	370	370	370	370
Operating Weight (Kg)	70	70	70	70	75	75	75	75
Dimensions (WxDxH) in mm	570x165x2150							
Operating Conditions								
Control Panel Rated Power (W)	7							
Return Air Temperature (°C)	35							
Supply Air Temperature (°C)	24	20	24	20	24	20	25	21
Chilled Water Supply Temperature (°C)	15	10	15	10	15	10	15	10
Chilled Water Return Temperature (°C)	21	16	21	16	21	16	21	16

- Please contact our representatives for other requirements.
- The manufacturer reserves the rights to make changes to the product specifications. The data shown above may vary.