

### Ideal for high-density applications

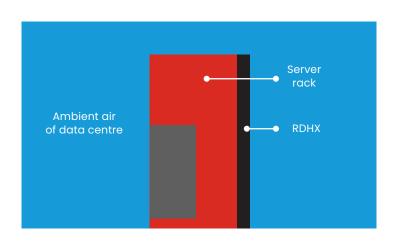
Canatec's Smart Panel is a rear door heat exchanger (RDHX) that enhances cooling efficiency in high-density environments. The Smart Panel is mounted on the rear of server racks to capture heat directly from the servers.

**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

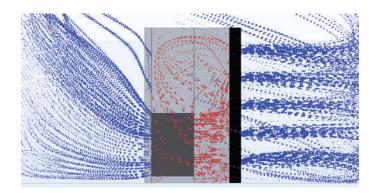
# Cool ambient air temperature

- 30
- 27.5 Instantly cooled air
- 25 Heat is prevented from escaping into the
- 22.5 data centre environment thanks to
- 20 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.



#### **Superior Heat Removal**

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



#### No Modifications Required

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



#### **Built for Medium to High-Density**

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

# **Specifications**

Model (SP***)	0	10	015		
Rated Cooling Capacity (kW)	10	7.5	15	10.5	
Fan Quantity	1.	4	21		
Total Fan Airflow (m3/h)	25	00	4000		
Power Supply	220~240\	//1P/50Hz	220~240V/1P/50Hz		
Operating Weight (Kg)	6	8	78		
Dimensions (WxDxH) in mm	600 x 20	0 x 2200	600 x 200 x 2200		
Piping Connection	19/	12.7	19/16		
Return Air Temperature (°c)	39		39		
Chilled Water Supply Temperature (°c)	11	15	11	15	
Chilled Water Return Temperature (°c)	16	21	16	21	

<sup>•</sup> Based on R134a refrigerant

Refridgerant CDU Model (CDU***R)	12	120		160		200			
Rated Cooling Capacity (kW)	120	90	160	120	150	200			
Primary									
Water Supply (°C)	11/16	15/21	11/16	15/21	15/21	11/16			
Flow Rate (L/s)	5.9	4.4	7.8	5.9	7.4	9.8			
Pressure Drop (kPa)	<80								
Pipe Connection (DN)	DN65								
Secondary									
Coolant Type	R134a								
Pump Type	VSD Refrigerant Pump								
Power Supply	220~240	V/1P/50Hz	380~4150V/3P/50Hz						
Dimension (mm)	1100x1000x1500		1200x1000x2000		1400x1000x2000				
Unit Weight (kg)	2	240		280		320			
Noise (dBA)	<60		<65		<65				

<sup>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.</sup> 





