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ELEKTROTEKNIK

KabinPLUS



**DATA CENTRE
WORLD**

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WORLD**

**4 - 5 JUNE 2025
MESSE FRANKFURT**

EdgeBLOK Micro DC Solution

A compact Edge System Solution providing dedicated cooling in a single rack with energy distribution, all related accessories and automatically self-opening door in case of emergency.



Features :

- * Strong and Robust Rack Frame
- * Glass Door / Solid Door
- * 1500 kg Load Carrying Capacity
- * Horizontal and Vertical Cable Management with wide range of accessories
- * Optional emergency automatic self-opening door system
- * RAL 9005 Black color
- * Rack Dimensions;
Height: 42U (2000mm) / 47U (2200mm)
Width: 600mm / 800mm
Depth: 1000mm / 1200mm

Cooling Unit

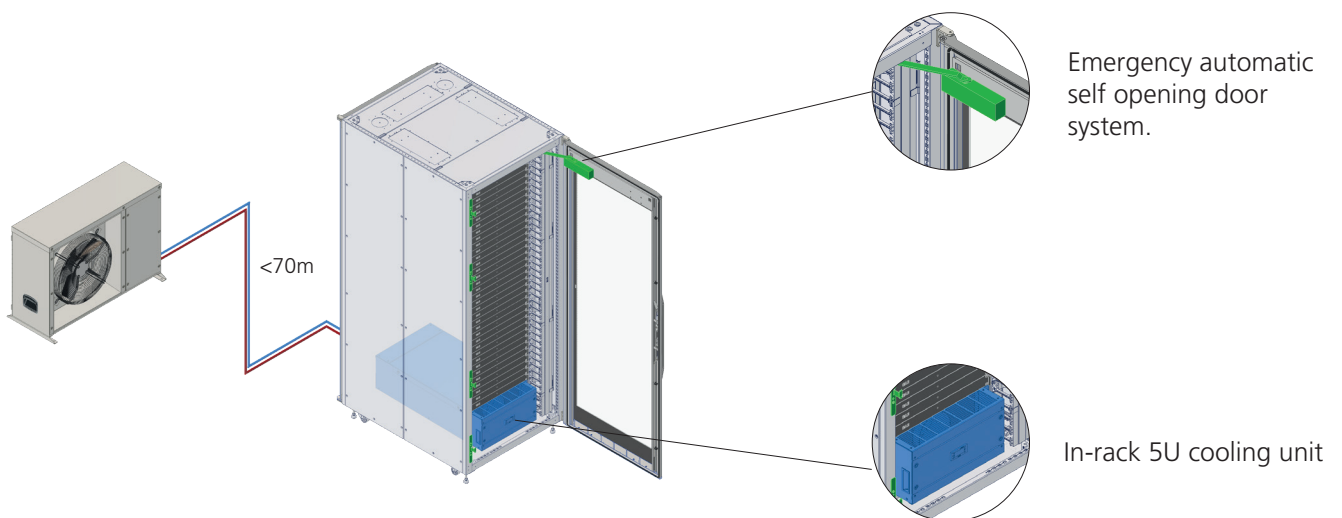
- * 5U height
- * 3,2kW and 4kW DX Cooling Unit options
- * Up to 70 meters piping distance
(both horizontal and vertical)
- * High EER value for effective cooling
- * Remote Monitoring and Management via cooling unit interface
- * SNMP output
- * In emergency situations, capacity can go up to 4,5kW

Options

- * Electronic Locking System -Multiple locking system vendors and models
- * Basic or Metered Rack PDUs
- * In-Rack LED Lighting
- * Rack-Mount UPS
- * Fire Extinguishing System
- * Environmental Monitoring Sensors

STRUCTURAL PERFORMANCE

Rack Specification	Height	42U (2000mm) – 47U (2200mm)
	Width	600mm, 800mm
	Depth	1000mm, 1200mm
Accessories	Cable Management	Vertical Cable Managers, Horizontal Cable Managers
	Air Flow Management	Air Dam Kit with cable entries, Air Dam Kit with additional 12U space, cable glands
	Access control	Spring door with electro-magnetic locking system, Electronical locking handle
	Other	Grounding Kit, Plinth Option
Available Rack Mounting Space		Depending on Configuration
Rack U		42U – 47U
Voltage / Frequency		400V / 50Hz / 1-phase
Power Distribution		Rack Mount UPS, Basic or IP PDU
Cooling System		In-rack (5U), Direct Expansion



SYSTEM PERFORMANCE

Cooling	Basic Configuration	Improved Configuration
	15m piping distance	up to 70m piping distance
	3,2kW DX	4kW DX
	EER: 2,3	EER: 2,6
Electrical*	UPS Capacity 5kW	UPS Capacity 5kW (1+1)
	UPS Backup Time 13 min.	
	Rack PDU: 2 pcs, 1P or 3P, 32A, IP PDU	
Fire System*	To be defined according to local regulations and user specs	
Lighting*	LED, Linear (Blue, Red, White)	
Environmental Monitoring	By Cooling unit; door control, temperature, water leakage	

*Optional products

Rear Door Heat Exchanger

DCW Frankfurt 2025 Special Print

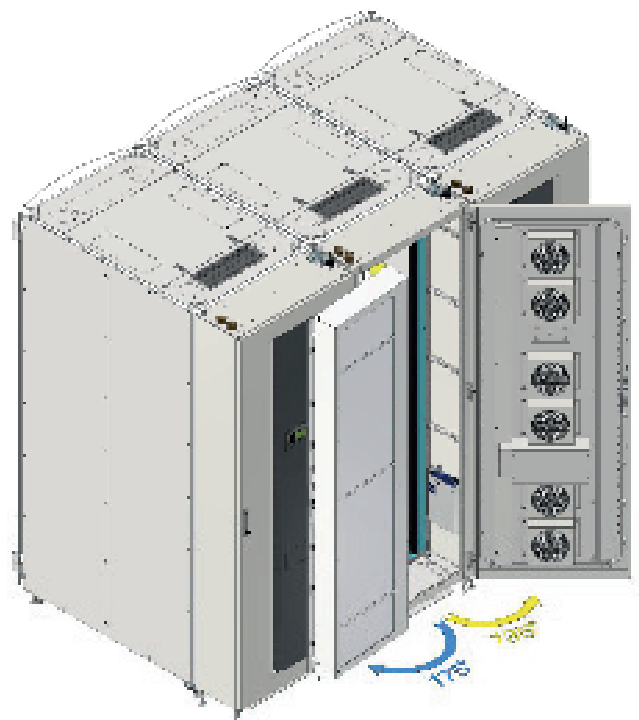
KabinPLUS rear door heat exchangers are the effective solution for high density rack cabinets. As the idea is remove heat at source, KabinPLUS RDX units are designed to be attached to cabinets to have an effective close loop cooling. KabinPLUS is providing user-friendly, efficient, scalable and innovative solutions with optimum performance.



Features

- Stand-alone installation and floor fixing without cabinet.
- Pipe connections top or bottom changeable at site.
- Total depth of module included fans 300 mm.
- Available at 42U and 47U heights and 600 mm - 800 mm widths.
- Supports 3rd party cabinets.
- Door opening angle 135° and evaporator frame opening angle 180°.
- Up to 100 kW cooling capacity.
- Air Temperature - 3 sensors per supply and return air
- Humidity, water temperature, water flow, water pressure, leak detection sensors optional
- Touch panel, condensate pump optional.
- Web interface, Modbus TCP/IP
- Dual power feeds with ATS is optional.

- ✓ Rear space inside the cabinet is completely available for power and data cable management.
- ✓ Smart air flow management zones to eliminate internal temperature difference.
- ✓ Stand-alone installation feature at Day 1.
- ✓ No need to stop cooling and open evaporator for electrical maintenance.



Features	Active RDX		Active RDX		Passive RDX		Passive RDX	
Height	42U		47U		42U		47U	
Width	W600	W800	W600	W800	W600	W800	W600	W800
Depth	300	300	300	300	300	300	300	300
Paint	Frame Inox - Perforation RAL 9005							
Fans	6	6	6	6	None			
Power Supply Feed	Up to 2				None			
Sensor (standard)	3x Supply Air Temperature 3x Return Air Temperature				None			
Communication Protocol	Modbus TCP/IP (Standard) BACnet, SNMP (Optional)				None			
Max. Rated Current	12 A				None			
Power Input	50 Hz / 230 V				None			
Power Consumption	2700 W				None			
Floor Fixing	Unique Design							

Cooling Capacity - MaximumActive RDX		6 Fan
Maximum Duty	kW	100
Air Flow	m³/h (fcm)	8500 (5002)
DB Air On	°C (°F)	60 (140)
DB Air Out	°C (°F)	23 (73.4)
Water In	°C (°F)	16 (60.8)
Water Out	°C (°F)	32.1 (89.78)
Volume Fluid Flow	m³/h (l/s) / USGal/m	5 (1.4) / 22
Δp Water	kPA / inH2O	50< kPa

Cooling Capacity - Efficient		6 Fan
Maximum Duty	kW	44
Air Flow	m³/h (fcm)	8500 (5002)
DB Air On	°C (°F)	40 (140)
DB Air Out	°C (°F)	23.5 (74.3)
Water In	°C (°F)	20 (68)
Water Out	°C (°F)	27.6 (88.16)
Volume Fluid Flow	m³/h (l/s) / USGal/m	5 (1.4) / 22
Δp Water	kPA / inH2O	50< kPa

Cooling Capacity - Efficient		6 Fan
Maximum Duty	kW	65
Air Flow	m³/h (fcm)	8500 (5002)
DB Air On	°C (°F)	50 (122)
DB Air Out	°C (°F)	25 (77)
Water In	°C (°F)	20 (68)
Water Out	°C (°F)	31.2 (88.16)
Volume Fluid Flow	m³/h (l/s) / USGal/m	5 (1.4) / 22
Δp Water	kPA / inH2O	50< kPa