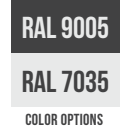
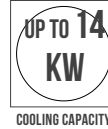




MICRO DATA CENTER SOLUTIONS



FROG-BREEZE in rack cooling system is a direct-cooled server cabinet consisting of a lateral cooling device as an indoor unit and an AC outdoor unit. The cooling system provides energy-efficient cooling by latest inverter technology.



Outdoor Unit

The rack with side cooling has close loop system, thus, there is no air leakage between internal air and room air. The noise level is due to the extremely quiet internal side cooling unit is very low and it is only about 55 dB(A). The cooling capacity of in-rack side cooler is available in range between 3.2kW and 14 kW.

Technical Features

Material	Frame; Anodized Aluminum extrusion profiles. Other parts: 1,2 and 2 mm steel
Color	RAL 7035 or RAL 9005
Compliance	RoHS, UL, Certified, Compliant IEC 60297-2
Maximum Static Load	Up to 2000 kg.
Finish	Doors, side panels, top and bottom covers: Electrostatic Powder Paint 19" mounting rails: Zinc-plated
Accessories	Cable Organizer, Blanking Panels, Cable Related Accessories Channels and Grounding Kits

36U
42U
47U

Standard Configuration

- Deflectors to guide cold air from the AC unit to the front of the rack
- Solid removable side panels
- Bottom sheet with adjustable IP protected cable entry
- 2 pairs of depth adjustable heavy duty 19" mounting rails
- Color RAL7035 or RAL 9005
- RoHS compliant, UL certified
- Extruded Aluminium frame chassis up to 2000 kg
- IP Protection: IP54
- Tempered glass front door with swing handle multi-point lock
- Solid rear door with swing handle multi-point lock
- Special polyurethane gasketing on doors and panels to ensure IP protection



BREEZE DATA CENTER CONFIGURATIONS

FROG-BREEZE - I



1 Cooling Unit
1 Rack

FROG-BREEZE - II



2 Cooling Units
1 rack (Redundant Application)

FROG-BREEZE - III



1 Cooling Units / 1 rack
(Shared Application)

FROG-BREEZE - IV



2 Cooling Units / 2 Racks
(Redundant or Shared Application)

Order Information

Height U	Outer Width (W) mm	Outer Depth (D) mm	Outer Height (H) mm	19" Rails Adjustable Depth Range	Weight kg	Cooling Capacity	Part No
36U	800	1200	1200	217-957	166	8	FPJ-X-3682A-I8
42U	800	1200	2102	217-957	180	14	FPJ-X-4282A-I14
47U	800	1200	2324	217-957	196	14	FPJ-X-4782A-I14

COMPONENTS OF MICRO DATA CENTER

IP-PDU



OU Fire Extinguisher System with Hafex Aerosol



Supply +battery pack)

- Air Flow Sensor
- Humidity Sensor
- Door Contact
- Liquid Sensor
- Smoke Sensor
- Temperature

Technical Specifications	8		14	
	min.	max.	min.	max.
Cooling Capacity ₁	4,08 kW	8,36 kW	5,07 kW	14,52 kW
Cooling Capacity ₂	4,4 kW	8,96 kW	5,42 kW	15,57 kW
Cooling Capacity ₃	4,72 kW	9,6 kW	5,86 kW	16,7 kW
Refrigerant	R410A			
Evaporator Fan Flow	2750 m ³ /h			
Condenser Fan Flow	2750 m ³ /h		4800 m ³ /h	
Power Supply	230V / 1 Ph / 50-60 Hz			
Power Consumption	2,64 kW		4,46 kW	
Weight (42U)	188 kg		193 kg	
Width x Depth x Height	890 x 1200 x 2102 (mm)			
Weight (47U)	202 kg		208 kg	
Width x Depth x Height	890 x 1200 x 2324 (mm)			
Sound Pressure Level	49 dB(A)		55 dB(A)	

.....1: Ambient Temperature
 35 °C Return A ir
 Temperature 35 °C
 Relative Humidity 20%

..... 2: Ambient Temperature
 35 °C Return A ir
 Temperature 37 °C
 Relative Humidity 20%

..... 3: Ambient Temperature
 35 °C Return A ir
 Temperature 39 °C
 Relative Humidity 20%



Outdoor Unit Information	8	14
Compressor Number	1	
EER	3,17	3,2
Outdoor Unit Power Supply	380V / 3 Ph / 50-60 Hz	
Height x Depth x Width	1081 x 387 x 729 (mm)	1084 x 405 x 1135 (mm)
Sound Pressure Leve	49 dB(A)	55 dB(A)