Net One

Air conditioned Rack cabinet system for data management

DKC

NEXT TO YOU

DKC, leading manufacturer of cabinets for industrial automation and electrical distribution, offers the innovative solution Net One: the air-conditioned cabinet which guarantees safety and remote control, without interruptions. A solution to maintain the security of the IT infrastructures in Edge Computing, in both traditional and difficult environment.

General features

Net One and Net One S are solutions based on a 19" Rack cabinet fitted with an air conditioning system, an uninterruptible power supply and a fire detection and extinguishing system.

The entire assembly is controlled through an embedded terminal whose interactive touch interface allows all the cabinet parameters to be monitored and kept available at all times online.

Net One and Net One S are cabinets that work **independently from additional air conditioning systems** and this makes them versatile for use in different installation solutions. Their build features ensure that data continuity and security are maintained even in harsh environments.

The air conditioning system **is the result of industrial automation experience gained in recent years**, making Net One and Net One S fully able to deal with hostile environments such as production lines or delocalised warehouses.

There are versions are with **Redundant Air Conditioners**, which will:

- balance the overall wear on the two air conditioners with alternating operation;

- ensure cooling continuity if one of the two air conditioners develops a fault;

- return to the set ranges in the event of exceptional overheating, through the combined use of two air conditioners.

Net One and Net One S are smart, safe and reliable solutions that save time in IT infrastructure installation processes; they embody the know-how of DKC and enhance the quality of its products.

Benefits

- Reduced infrastructure costs
- Faster installation times
- An air conditioning system that works independently from additional units outside of the cabinet
- Single, complete and fully assembled cabinets that meet all the installer's needs: air conditioning, UPS, fire protection and remote-access monitoring
- Indoor installation both in blank environments and industrial settings
- Sales and after-sales service (on request)
- IP54 cabinet protection
- Custom solutions tailored to customer specifications

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Reliability, quality

Air conditioner

Compact Data Center MS monitoring system

LED lighting

Cabling system with wire raceway

and innovation

Fire detection and extinguishing system (Plus version only)

Wide range of accessories

Power sockets

UPS

DKC

Touch screen terminal monitoring system

The cabinet has a vital parameters monitoring system. Data is collected and made available on a touch monitor with a simple and intuitive user interface.
In a critical alarm situation, the monitoring system sends an email or a text message and records the event in a log.
You can use the monitoring interface, accessible remotely through an Internet browser, to query, change certain operating parameters and check logs, etc..

Parameters monitored:
- Front and rear cabinet temperatures and humidity
- Air conditioning control unit
- Status of fire detection and extinguishing system
- Door opening
- UPS status

Air conditioner

The air conditioner of the RamKlima line is designed for cooling IT cabinets.
The air conditioner is equipped with an adjustable thermostat trip and is controlled from the touch screen terminal.
The cooling circuit only starts working when the set temperature is reached.
The air conditioner is positioned on the side of the cabinet in the NET ONE version and on the bottom in the S version. It sucks the hot air from the rear of the server and returns it cooled on the front and on the entire height of the cabinet.
The version with redundant air conditioner has a second air conditioner installed which alternates with the first in normal operation to balance wear and tear and to ensure:
- cooling continuity even in the event of a fault;
- paired operation in case of overheating.

UPS - Uninterruptible Power Supplies

The UPSs of the RamBatt line allow careful PWM management of fans to minimise power consumption and reduce system noise for improved comfort. Also, UPS battery management has been optimised with temperature-dependent charge curves and continuous dynamic monitoring of battery integrity.

Optional Devices

Fire detection and extinguishing system (PLUS Version only)

The extinguishing system is based on the use of a fire suppression agent – a potassium-carbonate aerosol spray developed from a solid mixture defined as "compound" contained in steel dispensers (known as "aerosol generators") fitted with grilles for discharge into the environment.
Ultrafine dispersal in a protected space of solid particles suspended in an inert gas makes it possible to extinguish fires.
An autocatalysis extinguishing mechanism is used, consisting of the chemical inhibition of combustion at molecular level, without reducing the oxygen content of the environment.

Optional accessories

- Electrified lock
- Opening with badge proximity sensor
- Optical thermal fire detector sensor kit
- 1U and 2U fillers
- Fixed and extractable shelves
- Cable ducts
- Patch panels for structured cabling

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Net One

**Monitoring systems
Compact Data Center MS**

The Net One Cabinet with All In One Compact Air Conditioner has all the cooling cycle components (evaporator, condenser, compressor and expansion device) fitted internally.
Once the cabinet is positioned and powered, it is ready to accommodate IT infrastructure equipment.

Air conditioner

**Cabling system
with wire raceway**

UPS

CONDITIONER

The solution comprises:

- IT cabinet (42U except DKC devices) version with compact air conditioner 2100x1100x1000 mm

- IT cabinet (42U except DKC devices) version with compact redundant air conditioner 2100x1400x1000 mm

- Single or redundant compact air conditioner version (2000W, 3000W, 4000W)

- UPS emergency power system (3KVA, 5KVA, 10KVA, 12KVA) Autonomy 10 minutes

- Colour RAL 9005 textured finish

- Cabinet "vital parameters" monitoring system with remote control

- Cabling system with electro-galvanised wire raceway

- LED internal lighting system

PLUS Version
The Plus version has the same elements as the Standard version but with the added fire detection and extinguishing system using potassium carbonate-based aerosol technology

Power 2000W 230Vac-1 ph

CODE STANDARD VERSION	CODE STANDARD VERSION WITH REDUNDANT AIR CONDITIONER	CODE PLUS VERSION	CODE PLUS VERSION WITH REDUNDANT AIR CONDITIONER	COOLING POWER	UPS
RBNET2003	RBNET20R03	RBNET2003P	RBNET20R03P	1960W	3 KVA
RBNET2005	RBNET20R05	RBNET2005P	RBNET20R05P	1960W	5 KVA
RBNET2010	RBNET20R10	RBNET2010P	RBNET20R10P	1960W	10 KVA
RBNET2012	RBNET20R12	RBNET2012P	RBNET20R12P	1960W	12 KVA

Power 3000W 230Vac-1 ph

CODE STANDARD VERSION	CODE STANDARD VERSION WITH REDUNDANT AIR CONDITIONER	CODE PLUS VERSION	CODE PLUS VERSION WITH REDUNDANT AIR CONDITIONER	COOLING POWER	UPS
RBNET3003	RBNET30R03	RBNET3003P	RBNET30R03P	2800W	3 KVA
RBNET3005	RBNET30R05	RBNET3005P	RBNET30R05P	2800W	5 KVA
RBNET3010	RBNET30R10	RBNET3010P	RBNET30R10P	2800W	10 KVA
RBNET3012	RBNET30R12	RBNET3012P	RBNET30R12P	2800W	12 KVA

Power 4000W 230Vac-1 ph

CODE STANDARD VERSION	CODE STANDARD VERSION WITH REDUNDANT AIR CONDITIONER	CODE PLUS VERSION	CODE PLUS VERSION WITH REDUNDANT AIR CONDITIONER	COOLING POWER	UPS
RBNET4003	RBNET40R03	RBNET4003P	RBNET40R03P	3800W	3 KVA
RBNET4005	RBNET40R05	RBNET4005P	RBNET40R05P	3800W	5 KVA
RBNET4010	RBNET40R10	RBNET4010P	RBNET40R10P	3800W	10 KVA
RBNET4012	RBNET40R12	RBNET4012P	RBNET40R12P	3800W	12 KVA

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WITH EXTERNAL

The Net One EU Cabinet with external condensing unit air conditioner is silent and suitable for installation in environments such as open space offices or common areas.

Compact Data Center MS monitoring system

Air conditioner

Cabling system with wire raceway

UPS

External condensing unit

CONDENSING UNIT AIR CONDITIONER

The solution comprises:

- IT cabinet (42U except DKC devices) version with external condensing unit air conditioner 2100x1100x1000 mm

- IT cabinet (42U except DKC devices) version with external condensing unit redundant air conditioner 2100x1400x1000 mm

- Colour RAL 9005 textured finish

- UPS emergency power system (3KVA, 5KVA, 10KVA, 12KVA) Autonomy 10 minutes

- Single or redundant air conditioner version with external condensing unit (3000W, 4000W)

- Cabinet "vital parameters" monitoring system with remote control

- Cabling system with electro-galvanised wire raceway

- LED internal lighting system

PLUS Version
The Plus version has the same elements as the Standard version but with the added fire detection and extinguishing system using potassium carbonate-based aerosol technology

Power 3000W 230Vac-1 ph, 400Vac-3 ph

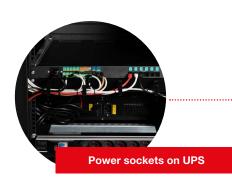| CODE STANDARD VERSION	CODE STANDARD VERSION WITH REDUNDANT AIR CONDITIONER	CODE PLUS VERSION	CODE PLUS VERSION WITH REDUNDANT AIR CONDITIONER	COOLING POWER	UPS
RBNET3003EU	RBNET30R03EU	RBNET3003EUP	RBNET30R03EUP	2800W	3 KVA
RBNET3005EU	RBNET30R05EU	RBNET3005EUP	RBNET30R05EUP	2800W	5 KVA
RBNET3010EU	RBNET30R10EU	RBNET3010EUP	RBNET30R10EUP	2800W	10 KVA
RBNET3012EU	RBNET30R12EU	RBNET3012EUP	RBNET30R12EUP	2800W	12 KVA

Power 4000W 230Vac-1 ph, 400Vac-3 ph

CODE STANDARD VERSION	CODE STANDARD VERSION WITH REDUNDANT AIR CONDITIONER	CODE PLUS VERSION	CODE PLUS VERSION WITH REDUNDANT AIR CONDITIONER	COOLING POWER	UPS
RBNET4003EU	RBNET40R03EU	RBNET4003EUP	RBNET40R03EUP	3800W	3 KVA
RBNET4005EU	RBNET40R05EU	RBNET4005EUP	RBNET40R05EUP	3800W	5 KVA
RBNET4010EU	RBNET40R10EU	RBNET4010EUP	RBNET40R10EUP	3800W	10 KVA
RBNET4012EU	RBNET40R12EU	RBNET4012EUP	RBNET40R12EUP	3800W	12 KVA

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Power sockets on UPS

The Net One S Cabinet with Compact All In One air conditioner gives greater versatility in situations with limited space and when fewer rack units must be used.

Compact Data Center MS monitoring system

UPS

Air conditioner

CONDITIONER

The solution comprises:

- IT cabinet (24U except DKC devices) version with compact air conditioner 1830x800x1000 mm

- Air conditioner built into the base of the cabinet, compact version (1500W, 2000W)

- UPS emergency power system 3KVA Autonomy 10 minutes

- Colour RAL 9005 textured finish

- Pivoting wheels with locking mechanism

- Cabinet "vital parameters" monitoring system with remote control

- Cabling system with electro-galvanised wire raceway

- LED internal lighting system

PLUS Version

The Plus version has the same elements as the Standard version but with the added fire detection and extinguishing system using potassium carbonate-based aerosol technology

Power 1500W 230Vac-1 ph

CODE STANDARD VERSION	CODE PLUS VERSION	COOLING POWER	UPS
RBNETS1503	RBNETS1503P	1420W	3 KVA

Power 2000W 230Vac-1 ph

CODE STANDARD VERSION	CODE PLUS VERSION	COOLING POWER	UPS
RBNETS2003	RBNETS2003P	1960W	3 KVA

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The Net One S Cabinet with external condensing unit air conditioner gives greater versatility in situations with limited space and when fewer rack units must be used.
This quieter version is designed for environments such as open space offices or common areas.

Power sockets on UPS

Compact Data Center MS monitoring system

UPS

Air conditioner

External condensing unit

CONDENSING UNIT AIR CONDITIONER

The solution comprises:

- IT cabinet (24U except DKC devices) version with external condensing unit air conditioner 1830x800x1000 mm
- Pivoting wheels with locking mechanism
- Colour RAL 9005 textured finish
- Air conditioner evaporator and fan parts built into the base of the cabinet and external condensing unit base (2000W)

- UPS emergency power system 3KVA Autonomy 10 minutes
- Cabinet "vital parameters" monitoring system with remote control
- Cabling system with electro-galvanised wire raceway
- LED internal lighting system

PLUS Version
The Plus version has the same elements as the Standard version but with the added fire detection and extinguishing system using potassium carbonate-based aerosol technology

Power 2000W 230Vac-1 ph, 400Vac-3 ph

CODE STANDARD VERSION	CODE PLUS VERSION	COOLING POWER	UPS
RBNETS2003EU	RBNETS2003EUP	1960W	3 KVA

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