# Net One

## Air conditioned Rack cabinet system for data management

DKC

www.dkceurope.com

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:

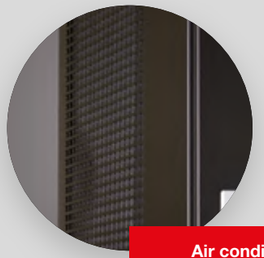
- balance the overall wear on the two air conditioners with alternating operation;
- ensure cooling continuity;
- return to the set ranges in the event of exceptional overheating, through the combined use of two air conditioners.

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

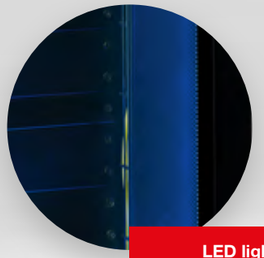
- Reduced infrastructure costs
- Faster installation times
- An air conditioning system that works independently from additional units outside of the cabinet
- Single, complete and fully assembled cabinets that meet all the installer’s needs: air conditioning, UPS, fire protection and remote-access monitoring
- 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

# Reliability, quali t y and innovation

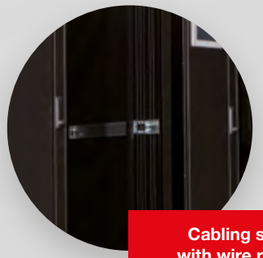


Air conditioner

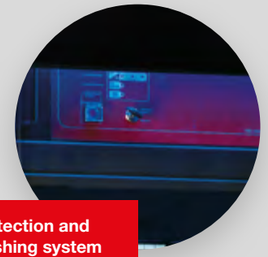
Compact Data Center MS monitoring system



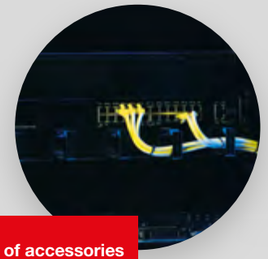
LED lighting



Cabling system with wire raceway



Fire detection and extinguishing system (Plus version only)



Wide range of accessories

Power sockets

UPS

# Internal devices

## 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 sms and traps SNMP.
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

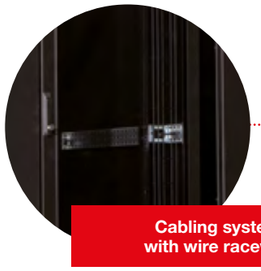
- Electrified lock
- Opening with badge proximity sensor
- Optical thermal fire detector sensor kit
- 1U and 2U fillers
- Fixed and extractable shelves
- Cable ducts
- Patch panels for structured cabling

# Net One

# WITH COMPACT AIR CONDITIONER

Monitoring systems
Compact Data Center MS

Air conditioner



Cabling system
with wire raceway

UPS

**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.

## 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 15 minutes of estimated autonomy on maximum permissible load for each configuration
- Colour RAL 9005 textured finish
- Cabinet “vital parameters” monitoring system with remote control also through SNMP protocol
- Cabling system with electro-galvanised wire raceway
- LED internal lighting system
- Air conditioner(s) power supply: 230 Vac- single phase

**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

### Standard version

| CODE | CODE WITH REDUNDANT AIR CONDITIONER | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|---|
| **RBNET200415** | **RBNET20R0415** | 36 | 1960W | 4 KVA | 15’ maximum load 2000W |
| **RBNET300415** | **RBNET30R0415** | 36 | 2800W | 4 KVA | 15’ maximum load 3000W |
| **RBNET400515** | **RBNET40R0515** | 36 | 3960W | 5 KVA | 15’ maximum load 4000W |

### Plus version

| CODE | CODE WITH REDUNDANT AIR CONDITIONER | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|---|
| **RBNET200415P** | **RBNET20R0415P** | 34 | 1960W | 4 KVA | 15’ maximum load 2000W |
| **RBNET300415P** | **RBNET30R0415P** | 34 | 2800W | 4 KVA | 15’ maximum load 3000W |
| **RBNET400515P** | **RBNET40R0515P** | 34 | 3960W | 5 KVA | 15’ maximum load 4000W |

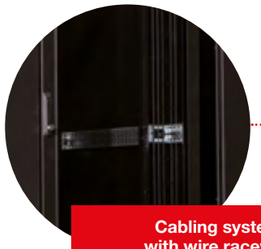
# Net One EU

# WITH EXTERNAL CONDENSING UNIT AIR CONDITIONER

Compact Data Center MS monitoring system

**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.

Air conditioner



Cabling system with wire raceway

UPS

External condensing unit

## 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 15 minutes of estimated autonomy on maximum permissible load for each configuration
- Single or redundant air conditioner version with external condensing unit (3000W, 4000W)
- Cabinet “vital parameters” monitoring system with remote control also through SNMP protocol
- Cabling system with electro-galvanised wire raceway
- LED internal lighting system
- Air conditioner(s) power supply: 230 Vac- single phase, 400Vac-three-phase

**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

### Standard version

| CODE | CODE WITH REDUNDANT AIR CONDITIONER | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|---|
| **RBNET300415EU** | **RBNET30R0415EU** | 36 | 2800W | 4 KVA | 15’ maximum load 3000W |
| **RBNET400515EU** | **RBNET40R0515EU** | 36 | 3960W | 5 KVA | 15’ maximum load 4000W |

### Plus version

| CODE | CODE WITH REDUNDANT AIR CONDITIONER | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|---|
| **RBNET300415EUP** | **RBNET30R0415EUP** | 34 | 2800W | 4 KVA | 15’ maximum load 3000W |
| **RBNET400515EUP** | **RBNET40R0515EUP** | 34 | 3960W | 5 KVA | 15’ maximum load 4000W |

# Net One S

# WITH COMPACT AIR CONDITIONER

Power sockets on UPS

Compact Data Center MS monitoring system

UPS

Air conditioner

**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.

## 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 15 minutes of estimated autonomy on maximum permissible load for each configuration
- Colour RAL 9005 textured finish
- Pivoting wheels with locking mechanism
- Cabinet “vital parameters” monitoring system with remote control also through SNMP protocol
- Cabling system with electro-galvanised wire raceway
- LED internal lighting system
- Air conditioner(s) power supply: 230 Vac- single phase

**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

### Standard version

| CODE | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|
| **RBNETS200415** | 18 | 1960W | 4 KVA | 15’ maximum load 2000W |

### Plus version

| CODE | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|
| **RBNETS200415P** | 16 | 1960W | 4 KVA | 15’ maximum load 2000W |

# Net One S EU

# WITH EXTERNAL CONDENSING UNIT AIR CONDITIONER

Power sockets on UPS

**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.

Compact Data Center MS monitoring system

UPS

Air conditioner

External condensing unit

## 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 15 minutes of estimated autonomy on maximum permissible load for each configuration
- Cabinet “vital parameters” monitoring system with remote control also through SNMP protocol
- Cabling system with electro-galvanised wire raceway
- LED internal lighting system
- Air conditioner(s) power supply: 230 Vac- single phase

**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

### Standard version

| CODE | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|
| **RBNETS200415EU** | 18 | 1960W | 4 KVA | 15’ maximum load 2000W |

### Plus version

| CODE | RACK UNIT AVAILABLE | COOLING POWER | UPS | ESTIMATED AUTONOMY |
|---|---|---|---|---|
| **RBNETS200415EUP** | 16 | 1960W | 4 KVA | 15’ maximum load 2000W |

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