net one

All In One Compact Data Center

DKC

Anywhere, constantly connected and monitored.

DKC, a sector leader in the production of cabinets for industrial automation and electrical distribution, offers the innovative Net One solution - the air conditioned cabinet that guarantees safety and security, continuity and remote monitoring. A solution for keeping the IT infrastructure safe and secure both in traditional and demanding environments.

DKC

Reliability, quality and innovation

Characteristics

Net One is a standalone solution based on a 19" rack cabinet equipped with an inbuilt air conditioning system, an uninterruptible power supply UPS and a fire detection and extinguishing system. All controlled by an industrial PC that via an interactive touch interface makes it possible to keep the cabinet's parameters, that will always be available on line, under control.

Net One is a cabinet that is **independent from air conditioning systems required separately like standard Data Center application** and this renders it versatile for use in different installation settings and in any places. This unique features is able to guarantee continuity and security of data even in demanding environments such as industrial establishments where separate Data center room is not available.

The air conditioning system, that is the result of expertise acquired in recent years in the field of industrial automation, renders Net One capable of coping with harsh environments such as production lines or remote storage facilities.

Continuity of service is guaranteed by a state-of-the-art UPS that is capable of providing, at any moment in time, all the required information about status, loads and battery levels.

Net One is an intelligent, secure and reliable solution that makes it possible to optimise time taken in the installation of IT infrastructures. It is also an embodiment of DKC's know-how and enhances the quality of its products.

Advantages
- Reduced infrastructure costs
- Faster installation times
- An air conditioning system that works independently from other additional units outside of the cabinet
- A single, complete, pre-assembled cabinet that meets all of the installer's needs: air conditioning, UPS, fire prevention, remote access monitoring.
- Indoor installation both in blank environments and industrial settings
- Sales and after-sales service assistance (on request)
- IP55 cabinet protection rating and IP54 air conditioning protection rating
- Customized solutions according to customer specifications

The package includes:
- IT cabinet (42U except DKC devices) 2100x1100x1000 mm
- Version with compact Redundant Air Conditioner 2100x1400x1000 mm
- Colour RAL 9005 textured
- Cabinet Air Conditioner Compact Version (2000W, 3000W,4000W)
  Cabinet Air Conditioner with external condensing unit (3000W, 4000W)
- Emergency UPS system 3KVA,5KVA,10KVA,12KVA Run time = 10 minutes
- Cabinet's "vital parameters" monitoring system with remote control
- Cabling system via electro-galvanised wire raceway
- Interior LED lighting system
- **Fire detection and extinguishing system based on aerosol technology (PLUS version only)**

LED lighting

Fire detection and extinguishing system **(PLUS version only)**

Air Conditioner Slim In

Compact Data Centre MS monitoring system

Wide range of accessories

Cabling system via wire raceway

UPS

Power sockets

Internal devices

UPS

The Ram-Batt line's UPSs make careful PWM management of the fans possible, in order to minimize power consumption and reduce the system's noisiness, to improve its comfort. Moreover, management of the UPS batteries has been optimised with charging curves based on the temperature and continuous dynamic control of their integrity.

Monitoring system with touch screen terminal

The cabinet is fitted with a system for monitoring vital parameters. Data are collected and made available via a touch screen monitor with a simple and intuitive user interface. In a critical alarm situation, the monitoring system sends an e-mail or SMS and records the event in a log. The monitoring interface, through which it is possible to interrogate, change certain operating parameters, consult logs etc., is remotely accessible via an Internet browser.

Parameters monitored:
- Cabinet's temperatures on the front and back, and humidity
- Air conditioning control unit
- Status of fire detection and extinguishing system
- Door opening
- UPS status

Air conditioner

The Ram Klima air conditioner is designed for cooling IT cabinets. Its use makes it possible to cool and dehumidify the air inside the cabinet thus preventing the equipment installed from malfunctioning. The air conditioner is fitted with an adjustable intervention thermostat which is controlled from the Net One touch screen terminal. The refrigeration circuit only begins operating when a pre-set temperature has been reached. **In the 4000W version the air conditioning unit draws warm air from the servers from the rear part of the cabinet and returns it cooled to the front of the cabinet throughout the cabinet's entire height.**

Fire detection and extinguishing system (PLUS version only)

The Firepro 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 fitted with grilles for discharging into the environment and referred to as "aerosol spray generators".
The ultra-fine dispersal, in a protected space, of solid particles suspended in an inert gas makes it possible to extinguish fires.
The extinguishing mechanism is the interruption of autocatalysis and consists of the chemical inhibition of combustion at a molecular level, without it leading to any reduction in the environment's oxygen content.

Cabinet Version with compact air conditioning

	CODE TOP VERSION	COD VERSION TOP WITH REDUNDANT AIR CONDITIONING	CODE PLUS VERSION	CODE VERSION PLUS WITH REDUNDANT AIR CONDITIONING	REFRIGERATING POWER	UPS
2000w 230Vac- 1ph	**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
3000w 230Vac- 1ph	**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
4000w 230Vac- 1ph	**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

Cabinet Version with air conditioning with external condensing unit

	CODE TOP VERSION	CODE PLUS VERSION	REFRIGERATING POWER	UPS
3000W 230 Vac-1ph 400 Vac-3ph	**RBNET3003EU**	**RBNET3003PEU**	2800W	3 KVA
	RBNET3005EU	**RBNET3005PEU**	2800W	5 KVA
	RBNET3010EU	**RBNET3010PEU**	2800W	10 KVA
	RBNET3012EU	**RBNET3012PEU**	2800W	12 KVA
4000W 230 Vac-1ph 400 Vac-3ph	**RBNET4003EU**	**RBNET4003PEU**	3800W	3 KVA
	RBNET4005EU	**RBNET4005PEU**	3800W	5 KVA
	RBNET4010EU	**RBNET4010PEU**	3800W	10 KVA
	RBNET4012EU	**RBNET4012PEU**	3800W	12 KVA

PLUS version is equivalent of the TOP version with the addition of an aerosol-technology-based fire detection and extinguishing system.

Accessories and optional elements
• Electric lock
• Opening through a badge proximity sensor
• Optical-Thermal fire detection sensor
• 1U and 2U fillers
• Fixed and extractable shelves
• Cable ducts
• Patch panel for structured cabling

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