MINI & MICRO DATA CENTERS
IDEAL SERVER SOLUTIONS

CONTEG

Mini Data Center

An ideal solution suitable for free-standing racks, smaller server rooms and large data centers that require zones with different operating parameters (temperature or heat load).

The Mini Data Center (Modular Closed Loop System—MCL) is a compact unit. It consists of PREMIUM Server RF1 racks and CoolTeg Plus in-row cooling units. The front and rear doors of the racks are glass or full-metal and create an enclosed space for air circulation between racks and cooling units.

The system is universal and fully compatible with CoolTeg Plus CW (chilled water), DX (direct expansion), XC (direct expansion with integrated compressor), and DF (dual fluid) units. Any number of racks and cooling units can be combined in a single module.

Illustration photo of 3 racks and 3 cooling units

Fiber-optic Cable Management System—OptiWay

- Independent interconnection of all free-standing racks for safe management of optical cables

Safety Features

- Independent access control and monitoring system—RAMOS
- Emergency opening system—EOS
- Extinguishing system—LES-RACK
- IP40 rating (IP54 available on request)

PREMIUM Server RF1
Free-standing Rack

- Fully configurable welded frame structure
- Load capacity of 2 000 kg

CoolTeg Plus
In-row Cooling

- Highly energy-efficient CoolTeg Plus in-row cooling units in CW, DX, XC and DF variants

Upper view

Air circulation inside the **MCL**

Suitable for:

- Small and medium server rooms with heat loads of up to 35 kW per rack
- Data centers with zones requiring individualized operating parameters
- 42U to 52U—racks 600 mm or 800 mm wide—1 200 mm deep

Advantages:

- Easily scalable
- Does not require a raised floor
- Rack load capacity—2 000 kg
- Ability to monitor the status of the environment inside the rack

Micro Data Center

An ideal solution suitable for free-standing racks with lower heat loads.

Suitable for:

- Small server rooms with heat loads of up to 7 kW per rack
- Data centers with zones requiring individualized operating parameters
- Any rack 1 000 mm or 1 200 mm deep

Advantages:

- Does not require a raised floor
- Rack load capacity up to 2 000 kg
- Ability to monitor the status of the environment inside the rack
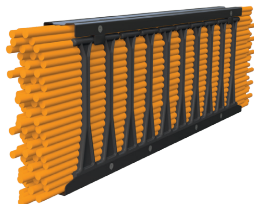- Low power consumption

CoolOut
Outdoor Unit

- Condensing unit
- Wide range of cooling power from 11 % upwards
- Precision cooling

CoolSeven
Indoor Unit

- Compatible with all 19" racks
- Individual cooling control on rack level
- Precision cooling

Related Products for Mini & Micro Data Centers

Cable Management

The High Density series of cable management systems promotes precise cable management inside racks while observing the proper bending radii of modern data cables. The High Density cable management system is best complemented by the Optiway solution, which ensures safe routing of optical and metallic cables outside the rack itself. Our portfolio also includes products for standard cable management from cable loops to cable channels and individual holders.

Local Extinguishing System

LES-RACK is an independent, fully automatic fire detection and extinguishing system. It is designed for direct installation into 19" racks with IP30 enclosure or higher. LES-RACK consists of a fully equipped automatic fire detection system and a control, evaluation and extinguishing unit. The system uses FK-5-1-12 fire extinguishing agent.

Monitoring and Overheating Protection

Allows the user to monitor the rack (temperature, humidity) control access, and protects devices from overheating. If the RAMOS system detects overheating, the EOS (emergency opening system) opens the front and back doors of the rack to prevent potential damage of the devices. However, as with other types of data center arrangement, the best protection against overheating and damaging equipment inside is provided by a fully redundant cooling unit configuration.

Intelligent and Basic Power Distribution Units (PDUs)

Product portfolio of intelligent and basic power distribution units includes basic PDUs without additional features as well as models enabling remotely monitoring power consumption via Ethernet and IP (monitored PDUs) or power distribution units with the additional option of controlling individual outlets or groups of outlets remotely through a data network (managed PDUs).

YEARS

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