COMPLETE SOLUTIONS
FOR DATA CENTERS

CONTEG

WE ARE **CONTEG**

Leading Producer of **IT, Data Center, and Industrial Solutions**

Since its founding in 1998, CONTEG has continued its constant development and growth. Today, we are one of the leading manufacturers of complete solutions for data centers, telecommunication cabinets, and industrial enclosures. We provide a global sales and technical support, have manufacturing plants equipped with latest technologies, and also operate a data center testing laboratory. We supply our solutions to small businesses, large corporations as well as industrial customers.
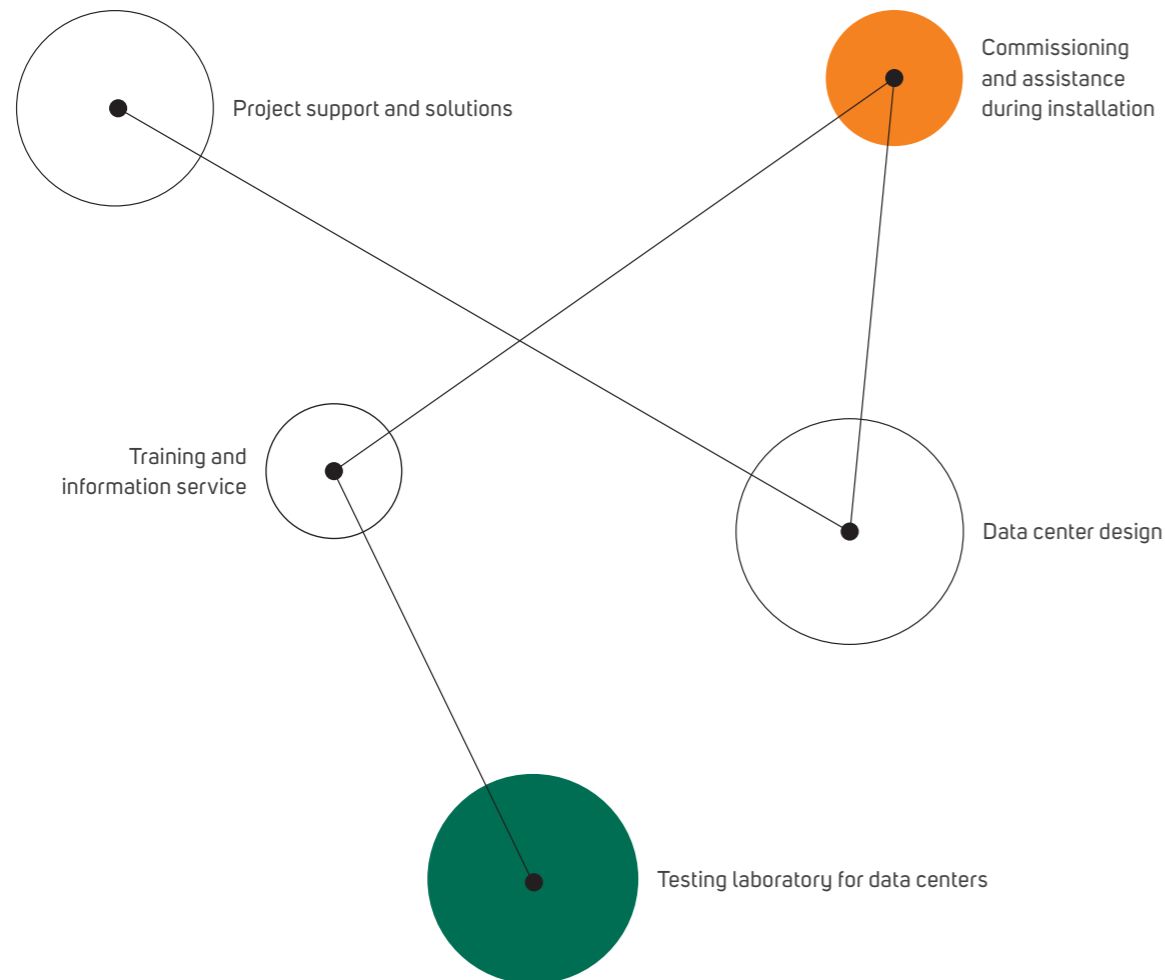
Data Centers

Building a data center is a very complex process, requiring knowledge of other disciplines, such as cooling and power systems, security, monitoring, and supervision.

Correct layout of a data center ensures the customer's satisfaction in terms of safety issues, energy consumption, uptime, and countless other areas. Our team of experts has extensive experience with planning data centers based on best practices and BICSI standards.

We offer services in consulting for projects of all sizes, from small server rooms to large scale data centers.

Professional Services

Project support and solutions

Commissioning and assistance during installation

Training and information service

Data center design

Testing laboratory for data centers

Air-conditioning Units for IT

Cooling Above Racks

The unique CoolTop cooling units are specially designed for installing above IT racks. The system takes up no floor space, freeing it up for installation of additional racks. Therefore, it contributes significantly to increasing the profitability of the data center.

CoolTop units are available in both Chilled Water (CW) and Direct Expansion (DX) variants. With their length of 2,400 mm, they fit perfectly above three racks 800 mm wide, or four racks 600 mm wide.

Suitable for:

- Contained cold aisle
- Contained hot aisle
- Open aisle
- Can be combined with CoolTeg Plus cooling units

Benefits:

- Very high cooling capacity
- Does not require a raised floor
- Can be installed on racks or suspended from the ceiling
- Does not take up any floor space
- Extremely low power consumption
- Immediate increase in cooling output

Cooling Between Racks

CoolTeg Plus units represent a family of precision air-conditioning units designed for in-row of racks installation. These air-conditioning units of different sizes and cooling capacities are available in Chilled Water (CW), Direct Expansion (DX), and XC (DX with integrated compressor) variants.

The arrangement of racks and cooling units in a contained aisle ensures the servers draw in only the cold air from the contained space. No risk of mixing with warm air and potential formation of local hot spots. The cooling units draw in hot air only and thus make maximum use of their cooling potential.

Suitable for:

- Contained cold aisle
- Contained hot aisle
- Open aisle
- Modular closed loop system

Benefits:

- High cooling capacity
- Does not require a raised floor
- Ease of expandability of the data center
- Supply cold air directly to the front of the servers
- Very low power consumption thanks to EC fans

Modular
Closed Loop System

Combines CoolTeg Plus cooling units and racks from the PREMIUM Server series. This compact arrangement is completely insulated from the surrounding environment. That allows installing zones with different temperatures and heat loads in a single room. The front and rear doors of the racks are glass or full-metal and form a contained space for air circulation between the servers and the cooling unit.

The system is universal and fully compatible with CoolTeg Plus CW (chilled water), DX (direct expansion), and XC (direct expansion with integrated compressor) units. Any number of units and racks can be configured just as the customer requires.

The system can be equipped with a number of safety features such as independent monitoring system RAMOS—including sensors, emergency opening system (EOS), fire extinguishing system LES-RACK, and more.

The modular closed loop system is suitable for both small server rooms and large data centers that require zones with different operating parameters.

Modular Closed Loop System—**MCL**

- Modular set of PREMIUM Server racks and CoolTeg Plus cooling units in CW, DX, and XC variants
- Closed loop air circulation system between the servers and the cooling unit
- Flexible cooling performance solution
- Option for additional safety features: RAMOS, emergency opening system—EOS and fire extinguishing system—LES-RACK

Fiber Optic Cable Management System—**Optiway**

- Independent interconnection of all free-standing racks for safe management of optical cables
- Installation onto supports, suspension from the ceiling or a combination of the two
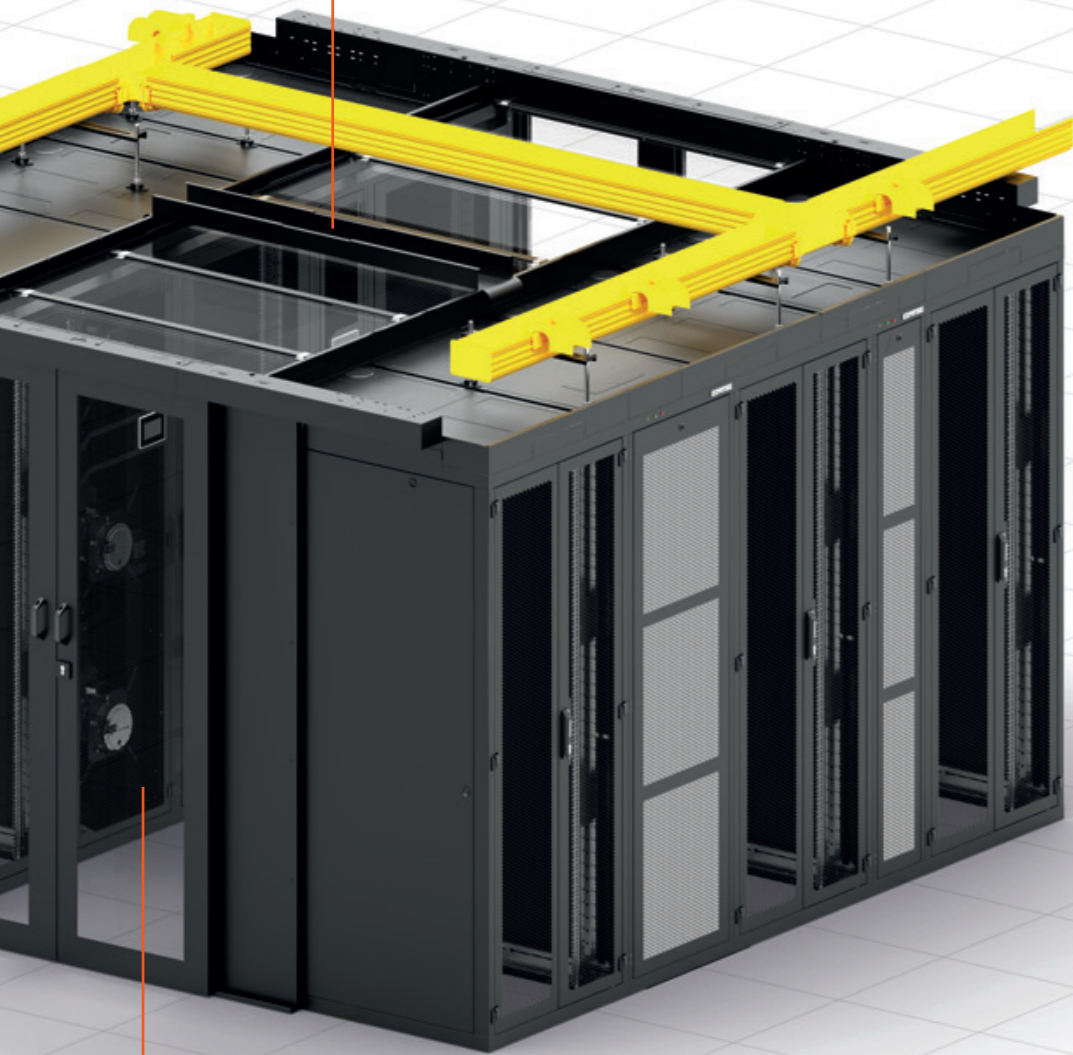- Multi-level installation

Contained
Aisle System

Physically separates hot and cold zones, thus efficiently reducing operating costs and power requirements of the data center. Also prevents air mixing and eliminates hot spots.

Cool air is distributed to the cold zone by CoolTeg Plus in-row units or CoolTop above-rack units. Based on the arrangement, we differentiate between contained hot aisles (CHA) and contained cold aisles (CCA).

Contained aisle enables controlling the air flow based on pressure differences. It thus ensures supply of treated air exactly in the amount the servers require, which has a positive effect on the operating costs and lifetime of the servers.

Aisles 900 to 1,800 mm wide are arranged either as two rows of free-standing racks or as a single row of racks facing a wall. In addition, they are fitted with roof panels and sliding doors which prevent any undesirable air circulation so that IT and cooling systems can operate with maximum efficiency, enabling the use of 100 % of the produced cold air.

The system can be complemented by a wide range of safety features such as independent monitoring system RAMOS, system of drop-down or openable ceilings, hypoxic fire prevention system, and other safety measures.

The contained aisle system with option for flexible expansion is suitable for any type of data center.

CoolTop Above-rack Cooling Units in Contained Aisle System

- High capacity and efficiency CoolTop above-rack cooling units in CW or DX variant
- Unique cooling solution—takes up no floor space

Management System for Copper and Power Cables—**Top Duct LIGHT**

- Backbone cable management system directly on the racks
- Installation directly onto the rack
- Allows for installation of other systems such as CoolTop or Optiway

High Density Wire Management—**HDWM**

- Proper and safe management of cables
- Unique cover opening system
- In-rack or open frame installation
- Vertical and horizontal orientation

CoolTeg Plus In-rack Cooling Units in Contained Aisle System

- High efficiency CoolTeg Plus in-row cooling units in CW, DX or XC variant

Free-standing Rack—**Premium Housing RSB**

- Flexible rack for colocation and housing data centers
- Design derived from free-standing rack PREMIUM Server RSF
- 2-, 3- and 4-section design
- High security through separation of individual sections

Free-standing Rack—**Premium Server RSF**

- Fully configurable welded frame structure
- Height up to 52U
- Unmatched 86% door perforation ratio
- Load capacity of 1,500 kg
- Additional 12/24U in 800 mm wide racks

Intelligent and Basic Power Distribution Units—**PDU**

- Basic, monitoring or managed rack PDUs
- Wide range of types and numbers of sockets
- High parameter measurement accuracy
- Tool-free installation
- Hybrid access options—Ethernet, Modbus TCP

Monitoring and Safety—**RAMOS**

- Expandable monitoring system
- Wide range of sensors and extensive notification options
- Simple integration of multiple systems into a unified monitoring environment—CONTEG Pro Server
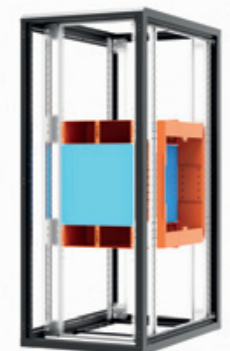- Option for central access control at rack and aisle level

Anti-fire Systems

- Autonomous solution LES-RACK for MCL systems. The system operates by filling the protected space with NOVEC™ 1230 fire-extinguishing medium to put fires out.
- The hypoxic air system ensures 100% prevention of fires. It reduces the oxygen concentration in the air to a level that fire does not even start.

Airflow Management Systems

- Adapters for TOR switches
- Separation frames and blanks
- Adapters for side-to-side airflow for network devices

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