

MDC40 Container Data Center



Product specification

Version as of 29 June 2016

MDC40 Product specification

The MDC40 is a compact but fully equipped data center. It has the measurements of a 40 feet ISO-standard-container in high cube construction form coming to 12,20m in length, 2,40m in width and 2,90m in height.

Global application area

The standard measurements in connection with the CSC certification guarantees an unproblematic and economical transport via truck, rail and ship. Additionally, the MDC40 fulfills special requirements of the Bahn and German customs.

The MDC40 can be placed on almost any ground. Included in the scope of delivery are installation supports with variable height adjustment capabilities as well as lightning protection and an earthing system. Power, Water and Internet access have to be provided on site.

Thanks to its flexible design the MDC40 can be operated in most countries of the world.

Top IT-performance and scalability

In spite of its compact design the MDC40 provides top IT-performance. 224 height units are available for IT-Equipment like servers, mass data storage and backup hardware with a power consumption of 60kW.

Not enough power? No problem! The MDC40 scales problem free. Any number of MDC40's can be connected in series until the desired capacity is reached. Every MDC40 comes with dedicated interfaces for that exact purpose.

Bringing all the functions of a data center innately makes continuous scaling of the MDC40 possible.

Protection against operational disruption

The MDC40 is optimally prepared against any form of operational disturbance. The air conditioning system and uninterruptible power supply are designed to endure the malfunction of one component (n+1). If the connected power main breaks down the diesel genset will take on the power supply for the entire container. The fuel storage tank is designed to guarantee 48h of operation without refueling. Ongoing operation does not need to be interrupted to refuel.

A modern fire alarm and earliest fire detection as well as a gas extinguishing system guarantee an optimal protection against fire. This system practically rules out a fire. The gas extinguishing system is designed redundantly.

Access control systems and intruder detection alert restrict unwanted access to the data center effectively. To verify access a two-factor-authentication is established that works in connection with a separation function. Access control is supplemented by video surveillance.

Contingent on its design the MDC40 has optimal protection against attempted break-ins. Its massive steel construction has a total wall thickness of 9mm consisting of steel panels. The complete body shell including the doors and ventilation grids meet the requirements of RC3.

Certifications

The MDC40 is certified concerning transport security and IT-security.

Transport security is certified according to the Container Safety Convention (CSC). The CSC-approval is a mandatory requirement for transfrontier container shipment. Approval for the MDC40 has been issued by the Klassifizierungsgesellschaft DNV GL, Hamburg, Germany in July '15.

IT-Security is certified according to the Trusted Site Infrastructure (TSI V3.2) of TÜV Informationstechnik GmbH, Essen, Germany. The certificate has been issued for the security level Single Site Level 2 (extended) / Dual Site Level3.

Advantages of the MDC40

The MDC40 is not only predestined for mobile use in the traditional way. On the contrary, due to its design the MDC40 is the optimal solution as main or branch data center for almost any company size. The following crucial advantages carry weight comparing the MDC40 to building and operating a traditional data center:

- Fixed price
- Short planning phase
- Fast availability due to short term delivery
- Guaranteed scope of performance
- Short depreciation rates
- Flexible upgrade capabilities due to scalability
- Available for rent for temporary usage

Commissioning and Service

Under strict adherence of the maintenance instructions the MDC40 is equipped with a two year function warranty in the event of a purchase.

Connection to the preexisting infrastructure, commissioning and maintenance are carried out by the customer on principal. On request these services can also be provided by Infotech.

Our service is supplemented by planning the set up side and optional delivery of additional requested components for that purpose.