

DATA CENTER CONTAINER (DCC) TECHNICAL DATA SHEET

FEATURES DCC

▶ Capacity & Dimensions:

- ▶ Size: 20 ft / 40 ft container
- ▶ Mass: up to 20 metric tons
- ▶ Color: RAL 9005 (black), 7035 (grey) or 5015 (blue)
- ▶ Material: aluminium, steel, copper, brass

▶ Interfaces:

- ▶ Electrical in single conductor version (A=240mm²)
- ▶ TN-C (4 wires with 3 phases + PEN) or TN-S (5 wires with 3 phases + N + PE)
- ▶ Coolant (F, RF)
- ▶ Network: Compartment for fibre optic or copper cable

▶ Climate conditions:

- ▶ Outdoor temperatures from -20 °C to 45 °C at free cooling

▶ Thermal performance:

- ▶ up to 500 kW at up to 60 °C

▶ Power density:

- ▶ 500 kW electrical power in 20 ft standard container (ISO 668)

▶ Racks:

- ▶ 6 x 48 U (total: 288 U)
- ▶ 19" standard, rack depth up to 800 mm
- ▶ 80 kW electrical power per rack
- ▶ Smart PDU, redundant per rack, remote serviceable

▶ Hydraulic concept:

- ▶ 100% of heat producing components are cooled with water
- ▶ Primary circuit: up to 470 kW thermal power through direct hot water cooling of the servers
- ▶ Secondary circuit: up to 85 kW thermal power can be dissipated from air-cooled units
- ▶ Consumer circle: External acceptance e.g. by means of free cooling and/or building heating
- ▶ Temperatures: flow up to 60 °C, return flow up to 45 °C

▶ Energy efficiency:

- ▶ dPUE < 1.07 at full waste heat recovery



▶ **Availability class:**

- ▶ Class I, reserved installation space for retro fitting with external extension to Class II

▶ **Transport:**

- ▶ CSC-certificated: with integrated servers via ship, train, plane

▶ **Access security:**

- ▶ Resistance class based on RC 3

OPTIONAL SERVICES

- ▶ IT / network consulting
- ▶ Re-cooling connection
- ▶ Commissioning / MEP integration
- ▶ Operations and Maintenance (SLA)
- ▶ Engineering for custom-made products

OPTIONAL MODULES

- ▶ Side cooler
- ▶ Heat pump
- ▶ Demand chiller
- ▶ Re-cooling device
- ▶ Lighting
- ▶ Customer branding
- ▶ Redundant PDU
- ▶ UPS
- ▶ 21" OCP Rack
- ▶ IT hardware
- ▶ Network hardware
- ▶ Early fire warning and extinguishing system
- ▶ Data visualization incl. Grafana dashboard
- ▶ Monitoring
- ▶ SecuStack



**WE BUILD THE MOST ENERGY EFFICIENT
DATACENTERS. WORLDWIDE.**

Contact

Cloud&Heat Technologies GmbH
Königsbrücker Straße 96
01099 Dresden, Germany

www.cloudandheat.com
info@cloudandheat.com
+49 351 479 367 00



**FUTURE
OF COMPUTE**