

Case Study: Schleswiger Stadtwerke, Deutschland

BKT 4Container

The BKT design team together with the client selected the appropriate parameters and technological solutions for devices that will be designed and implemented in the container server room.

Technical Data of implemented solution:

- Container 7500 x 3000 x 3000mm, total weight of the container approx. 11T, EI60, door RC4, in/out culverts: Roxtec
- SwitchGear, overvoltage protection 160A, 4 x UPS 9PX 11 kVA, 1 x UPS Serie 9PX 1,5 kVA, batteries 15min, two powerline to each Serwer Rack
- Precision Cooling System 2 x inRow 21kW direct expansion DX, N+1 redundant system
- Fire Protection & Extinguishing System – NOVEC 130, control unit: Schrack Compact
- Electronic security systems: Alarm&Access Control - SATEL, CCTV - 2MP cameras , recorder NVR, (record time: 30 days)
- ICT: BKT4CUBE – 5 x 4DC ServerRack 42U 800 x 1200 with organization and air-separators panels, cold aisle, manual sliding door; PDU: BPS2000 30xIEC320 C13 + 3xIEC320 C19, IEC 60309 32A/400V + T/H Sensors; Cabling connection: hybrid cables (BKT RJ45(jack)-RJ45(Keystone) cat. 6 UFTP

IMPLEMENTATION PHASES

PHASE-1

Design & technology
selection

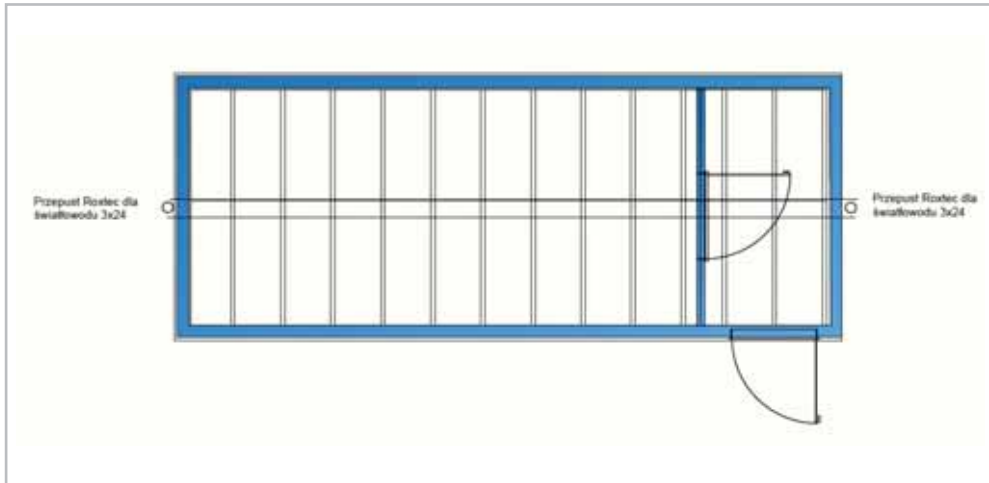
PHASE-2

Implementation

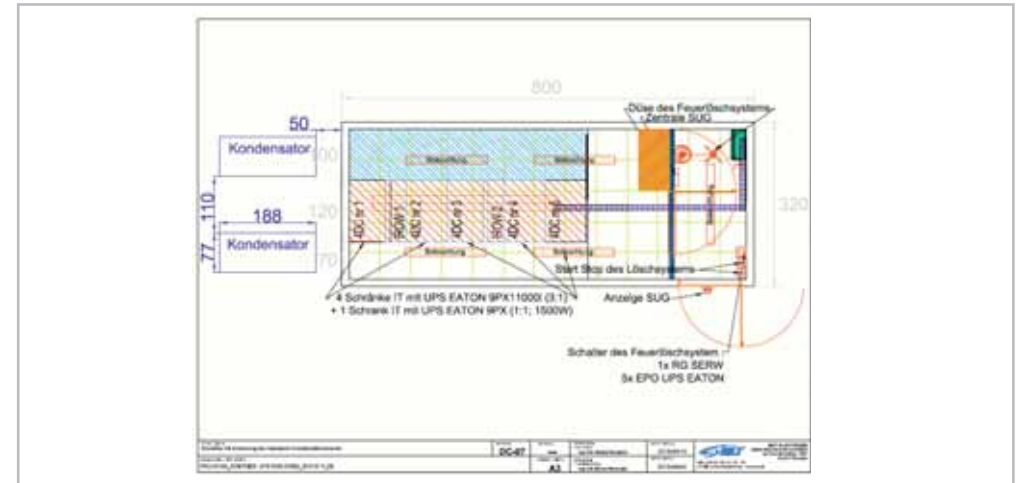
PHASE-3

Commissioning of systems

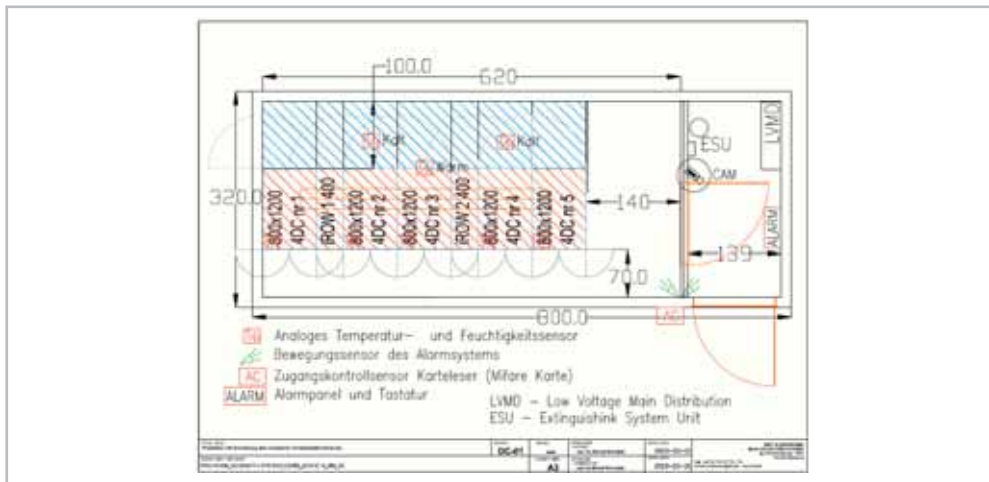
Design & technology selection phase



Container plan with fiberoptic connection



Container plan of the main elements: switchboard, Fire control, cable routes, BKT4CUBEDC system, indoor and outdoor units of precision cooling



Container arrangement of the main elements of electronic security systems and environmental monitoring using BPS-PDUs

Implementation phase



Unloading and placing on a concrete base



Installation of air conditioning systems with condensers



Installation of UPS & PDUs BPS2000



Installation of cable trays, BKT4DC ducts, installation of a cold aisle system and laying LAN cables

Commissioning phase



Corridor behind BKT4DC RACKS



Technical room space: Fire&Exting.sys.,
container main switchboard



Condensers of BKTinROW cooling
ready to work



Final installation & commissioning