

MTN+CZ

MEDICAL CONTAINER UNITS

MEDICAL CONTAINER UNITS (ISO CONTAINERS):



- Biochemical and Hematology Laboratory (BHL)
- Containerized CT workstation (KTN-CT)
- Refrigerated container for pharmaceutical storage (KTN-CHSL)
- Pharmacy — dispensing point for medicines and medical supplies (LV-PN)
- Radiology workstation (KTN-RTG)
- Mobile Field Microbiology Laboratory (MPML)
- Operating room workstation – OR-1 (1OP)
- Operating room workstation – OR-2 (2OP)
- Intensive Care Unit (ICU) workstation (JIP)
- Pre-operative room (POS)
- Dental workstation (STOMA)
- Infusion solutions production unit (MZ-VIR)
- Sterilization department (KTS-PN)

LOGISTICS CONTAINERS::

- Energy Center Complex (SEC)
- Power generation and distribution units with capacities ranging from 60 to 360 kW

The dental medical module — dental workstation (MZ – Dental Workstation) is intended for the provision of dental care in field environments and constitutes an integral component of hospital base equipment in compliance with medical support requirements at the armed forces level of NATO member states.



The medical module — operating room workstation OR-1 (MZ – OR-1 Workstation) is intended for the conduct of surgical interventions in field environments and constitutes an integral component of hospital base equipment in compliance with medical support requirements at the armed forces level of NATO member states.



The POS module is intended for the preparation of medical personnel prior to surgical interventions in a mobile field operating room. By virtue of its equipment, it is primarily used for hand hygiene and changing of surgical teams in field environments, while also functioning as a storage area for the most commonly used consumable surgical materials required by the operating room.



The KTN refrigerated container is intended for the storage of thermolabile pharmaceuticals, diagnostic products, and other medical materials that require controlled temperature conditions. The container is fitted with a shelving system for organized storage of medical supplies.



The containerized biochemical and hematology laboratory (BHL-PN) is intended to conduct biochemical and hematological examinations in support of a field hospital, with primary emphasis on pre-operative analysis of blood- and urine-derived samples from wounded and sick personnel, as well as on the initial diagnosis of severe medical conditions.



The containerized CT workstation is intended for the diagnosis of severe internal injuries to enable the planning and execution of life-saving surgical procedures in field environments. The workstation comprises two three-wall container units, designated KTN-CT and KTN-OVL, both of which are provided with shielding for protection against ionizing X-ray radiation.



The containerized pharmacy — medicines dispensing point (LV-PN) is intended to ensure the provision of medicinal products and medical supplies to a field hospital. It enables the compounding of basic individually prepared medicinal products, the performance of pharmaceutical quality control within standard pharmaceutical oversight, and the verification of identity, composition, and storage conditions of reserve pharmaceutical raw materials and laboratory chemicals, including controlled narcotic substances. The interior of the LV-PN incorporates a medicines dispensing area fitted with a roller shutter and a lockable metal security grille.



The medical module — operating room workstation OR-2 (MZ – OR-2 Workstation) is intended for conducting surgical interventions on two operating tables in field environments and constitutes an integral component of hospital base equipment in compliance with medical support requirements at the armed forces level of NATO member states.

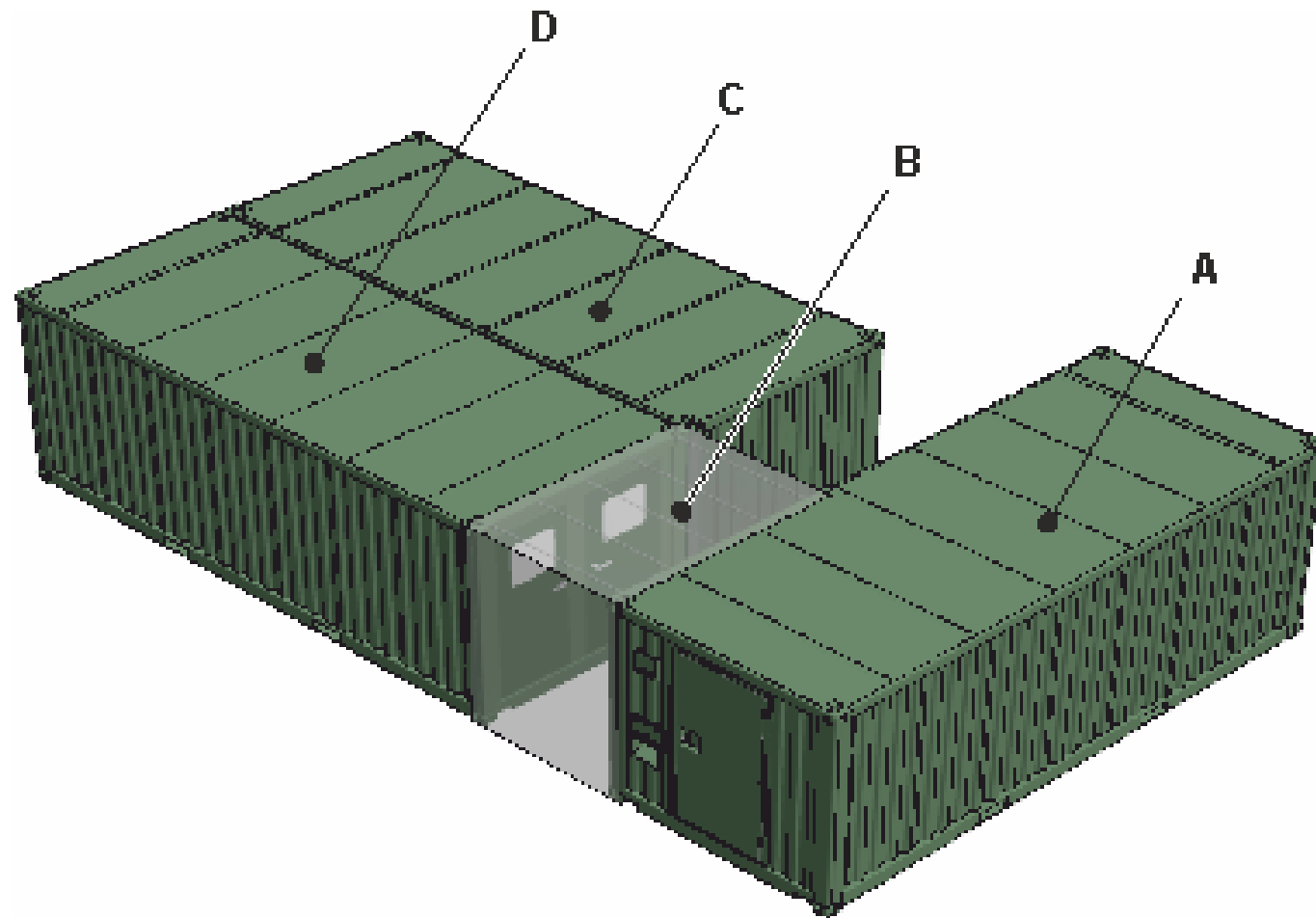


The containerized radiology workstation (KTN-RTG) is intended for the provision of radiological diagnostic services in field environments. It is fitted with an X-ray system enabling radiographic imaging of the skeletal system, abdominal cavity, and thoracic region in the supine position on an examination table, as well as imaging of the lungs, skeleton, and thorax in seated or standing positions by means of a vertical imaging stand. The X-ray equipment may additionally be deployed in operating rooms during surgical interventions and in intensive care units or inpatient wards of field medical facilities.



The mobile field microbiology laboratory is intended for the conduct of bacteriological, virological–serological, and parasitological examinations in field environments. The workstation meets Biosafety Level 4 (BSL-4) laboratory requirements and provides an increased level of protection for operations involving high-risk biological agents, as specified in Regulation No. 474/2002 Coll.

- A – access and monitoring module
- B – interconnection module
- C, D – laboratory units



The medical module — intensive care unit (ICU) workstation (MZ – JIP Workstation) is intended for the delivery of intensive and post-operative patient care in field environments with a capacity of four beds, and constitutes an integral component of hospital base equipment in compliance with medical support requirements at the armed forces level of NATO member states.



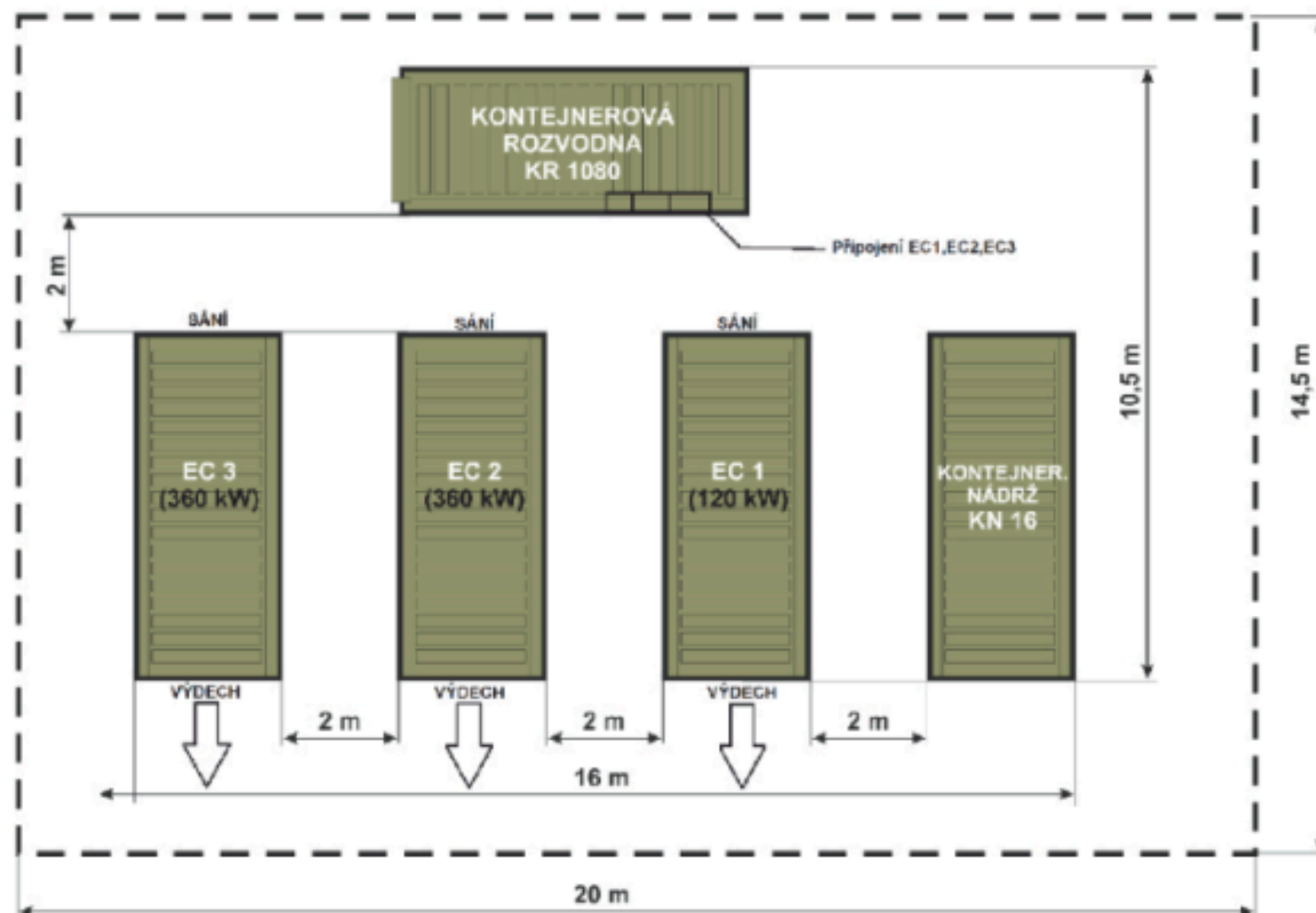
The KTN infusion solutions production unit (VIR) constitutes an integral part of the field hospital pharmacy complex and is intended for the preparation of infusion solutions, the production of various medicinal dosage forms, the distillation of water for designated field hospital workstations, and the performance of other activities that require compliance with clean environment operating conditions.



The containerized sterilization unit (KTS-PN) is intended to ensure the sterilization of medical materials in field environments, primarily serving the operating room, intensive care unit, and other medical elements of the field medical complex. The internal layout of the sterilization unit is divided into an access area for the storage of sterilized materials and a designated sterilization section.



The SEC functions as an autonomous general-purpose power supply, specifically intended to support a field hospital or its individual elements. Conceptually, the SEC is designed for use by rapid reaction force units within a comprehensive containerized support system. The SEC consists of EC1, EC2, and EC3 electric generator units (illustrative configuration shown), KR 1080 distribution panels, and a KN 16 fuel tank dedicated to generator operation.



Electric power plants (EC) with output capacities of 60–360 kW function as autonomous general-purpose power sources for supplying three-phase and single-phase consumers in a $3 \times 400/230$ V, 50 Hz electrical system. They are suitable for use as either main or standby power supplies for a field hospital complex or its individual elements.



MTN+ CZ

Kaprova 14/13 Josefov 110 00 Praha 1

e-mail: info@mtnplus.cz

tel: +420 720 952 176