

## DEPLOYABLE CHEMICAL LABORATORY

NSN 6640-420000945

Deployable Chemical Laboratory is designed for detection and identification of Chemical Warfare Agents (CWA's) and Toxic Industrial Chemicals (TIC's). In the Deployable Chemical Laboratory are integrated measuring instruments with software support. The equipment enables data processing, communication and transmission of NBC reports. The NBC-Filtration-System consists of filters that protect against NBC agents. Positive pressure assures clean air in the laboratory as well as the negative pressure in glove box assures clean and safe working environment.

Deployable Chemical Laboratory is divided in three compartments:

- engine room,
- entrance with shower,
- laboratory with glove box and analytical equipment.

Samples for further analysis are prepared in glove box. Glove box is divided in "hot/hazard" input, working area and output.

Deployable Chemical Laboratory enables:

- sample preparation for further analysis (air, aqueous, liquid, soil, wipe, active charcoal and other samples),
- identification and semiquantitative measurement of concentrations of CWA's and other chemicals,
- identification of toxins with rapid tests,
- identification and measurement of concentrations of TIC's,
- sample acceptance, distribution and preservation for further analyses in reference laboratories.

Deployable Chemical Laboratory is equipped with following equipment:

- Instruments for sample preparation in glove box,
- Analysis equipment,
- Gas chromatograph with automatic liquid sampler and thermal desorber (for samples adsorbed on solid carriers) coupled with dual flame photometric detector (DFSP; phosphorus and sulphur compounds) and mass spectrometer (three chromato-

grams in one run),

- Equipment for detection the CWA's or TIC's in glove box and laboratory,
- Rapid tests for detection of toxins (BotA, Ricin, SEB, saxitoxin, T2 mycotoxin),
- Refrigerator for sample storage,
- Cabinet for solvents and reagents,
- Weather Station,
- Communications.

The Deployable Chemical Laboratory can be further customized to fit specific needs.

