

Personnel Decontamination System SDO

Chemical decontamination Forces special equipment for field conditions work in co-operation with chemical vehicle ACHR-90M.



Enables:

- disactivation of the persons
- hygienic purification of the persons
- decontamination of the material of personal use and weapons

Personnel Decontamination System - SDO

The SDO is designed for work in field conditions for the decontamination and hygienic cleansing of army units. Together with the ACHR-90M vehicle, it creates a separate personnel decontamination area (PDA). Decontamination in the PDA consists of deactivation and disinfection of the surface of the body and simultaneously the decontamination of personal weapons and individual protection equipment (IPE), with the exception of a soldier's gear.

The SDO consists of sets of aggregates and materials transported in ISO containers on T-815 6×6 automobiles.

The primary components of the SDO are three mutually connected inflatable tents and one tent passageway, which is installed between the second and third tent. The first tent is for undressing, the second for showering and the third for getting dressed.

A water system is built in for supplying water and solutions and carrying away waste water. Water is supplied to it from the ACHR-90M automobile. If necessary, the ACHR-90M automobile can haul away dirty water. The water system consists of pumps, showers, hoses, containers, and collection tubs.

In order to function under various climatic conditions, the SDO is equipped with a heating system, which insures the supply of heat during low temperatures and air ventilation. This consists of a hot-air aggregate, input hose, and a distribution system to all three tents.

The workplace is equipped with an electrical system to ensure its operation. The system is designed to supply power to the pumps, hot-air aggregate, lighting system of the tents, and the compressor for setting up the workplace.

SDO also contains a stand for weapons, carriers and bags for IPE with stands, pouches for equipment, drinking water containers, a table and tub for decontamination of the protective masks, a delineative

Technical parameters:

Flow rate of one shower head	Up to 7 dm ³ min ⁻¹
Cleaning water temperature during hygienic cleansing	38 °C
Cleaning water temperature during decontamination	30÷32 °C
Shower flow rate for the application of cleaning products	1.0 dm ³ . min ⁻¹
Minimum dimensions of one people decontamination area	50 x 50 m

Tactical parameters::

Set up time	45 minutes
Take down time	60 minutes
Hygienic cleansing capacity	150 people / hour
Decontamination capacity	120 people / hour
Uninterrupted daily operation of the PDO	10 hours
Number of people showered at one time	12