Decontamination. by OWR

More than 40 years of Experience in Decontamination Systems
OWR Systems – 1976 and 2006
World Cup 2006
Germany
Fire Brigade and
Civil Defence Solution
“Mass Shower and Medical Decontamination System”
Mass Shower and Medical Decontamination System

Whole System packed in a roll-on-roll-off Container
Mass Shower/MedDecon System
FIFA world cup 2006 design

Roll-on-roll-off container for the decontamination of people and casualties.

Alternative use as shower container in disaster operations.

4 inflatable tents (4x 30 sqm) with protective walkways for undressing and dressing.

Containerized shower system (setup time 15 min).

Decontaminates 60 to 120 persons/hour and/or decontaminates 15 injured persons/hour. Configurations up to 360 persons/hour possible.

Including OWR designed modular casualty transportation system (VTS)
Fast – Flexible – User Friendly
Container-based Mass Decontamination Systems
Roll-on-roll-off arm hook to deploy the container within 2 minutes

- no crane or fork lift
- one operator
- no floating container
- fast
- safe
- user friendly
- in use in the German Civil Defence

…and having an independent carrier vehicle to pickup supporting logistic containers etc.
All the equipment is transported in the container

All the equipment is stored in the left and right shower areas; tents, tent heating aircon systems, casualty stretcher system etc. is stored on movable trolleys.

The middle section contains power generator and water heating units. On the right side are the fresh and waste water installations.
The two storage areas deploy into two shower rooms

After removing the equipment quickly via the ramps, the tents can be attached to the container.

The shower rooms have a stainless steel interior for easy cleaning and decon.

In the middle section is the operating equipment and accessories.
Setup of 4 inflatable tents within minutes

The tents are self-erecting and lightweight (can be moved by 2-4 people).

Inflation time 2-3 min.

The tents can be used for medical treatment in case of an non-CBRN incident.

Tent heating/aircon, water and electricity supply is set up.
The system contains 4 inflatable tents

Two tents are for registration and undressing; two tents for redressing and first medical examination.

Every tent can be separated by inner curtains into 2 sections (e.g. male/female) if or one lane for casualty decon.
There are several options how to setup the decon system depending on the required SOPs and the mission.

Left and right shower lane can be setup identically or in differently.

Some examples are shown on the following slides.
Setup Option 1:
Left and right two large shower rooms for maximum throughput with $2 \times 4 = 8$ showers; separation in male and female, assisted and handicapped decon possible, wheel-chairs / wheel-stretchers can pass through the decon shower.
Setup Option 2:
Left: large shower room for assisted and handicapped decon, and wheelchairs. Right: shower rooms with two separated shower lines (male/female) separated by semi-transparent or non see through curtains. 2 x 2 lines = 4 individual showers.
Setup Option 3:
Left and right shower rooms with two separate shower lines, additionally separated by curtains. Adequate privacy (left male/right female), individual shower places, with supervision possible. 2 x 2 lines x 2 showers = 8 individual showers
Setup Option 4:
Left: shower rooms with two separated shower lines (male/female), additionally separated by curtains. 2 x 2 lines = 4 individual showers
Right: large shower room with stretcher system for casualty decontamination
German Engineering and Quality in every Detail.

made in Germany
OWR Casualty Stretcher Conveyor System VTS proven as the best available system through end-user exercises

- patented design
- easy and fast setup
- modular lengths
- individual foot height adjustment to make it level on the ramps
- no dangerous rollers to snag clothing
- all types of stretchers can be used
- casualty friendly smooth conveying
- fully decontaminable
- made of aluminum