



VIVIDS
NEW TECHNOLOGY

SELECTIVE CLEANING OF LIQUIDS
WATER PURIFICATION
TECHNOLOGIES AND DEVICES



INSTITUTE FOR
ENVIRONMENTAL
PROTECTION



CASCADE

SAFETY

RELIABILITY

MOBILITY

CASCADE is the first portable, compact water treatment system for civil and military rescue services which guarantees the highest quality of drinking water regardless of the degree and type of contamination and pollution of surface water and without the need to test it beforehand.

CASCADE purifies surface out-of-class water (the worst category of surface water quality) and post-flood backwaters to the drinking water standard compliant with the Regulation of the Minister of Health.

MOBILITY

Dimensions: height 115 cm, width 60 cm, length 130 cm, weight 310 kg. **CASCADE**, thanks to its compact design, can operate practically anywhere without the need to expand the infrastructure. It may be used as modular equipment of rescue and fire-fighting vehicles.

SAFETY

CASCADE purifies water from mechanical impurities below 1 μm , iron and manganese, organic impurities (including dyes and odorants). It removes ammonia, nitrates, phosphates, chromates, sulphates and all heavy metals (including copper, lead, nickel, cadmium and mercury). **CASCADE** is a water disinfection unit, removing algae, protozoa, fungi, viruses and bacteria (including clostridia).

HIGH PERFORMANCE

Cascade maintains a capacity of 450 to 900 dm^3/h within 20 hours of operation. This ensures a 24-hour water demand for 8,000 to 12,000 people.

CASCADE IN BRIEF:

The cheapest device in the European market in terms of operation and adaptation costs.

Water losses after treatment approx. 1% - 3%, in the case of osmosis 30% - 50%.

Start-up time is 26 seconds.

Simple operations.

Water immediately drinkable, without boiling.

Power consumption 1,46 kWh



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Removes radioactive impurities.

It has a hygienic certificate issued by the National Institute of Hygiene.

CASCADE'S DESIGN AND ACCESSORIES

- mechanical filter
- ion exchange resin bed
- carbon column
- UV lamp
- container for inorganic salt solutions and valve system controlling the sequence of processes
- supply pump, dosing pumps controlled by a water meter, hose set
- consisting of supply hose with filtration suction device and hose discharging treated water
- safe electrical installation IP 44 equipped with anti-shock and overcurrent circuit breaker
- power supply with alternating current 230V 50 Hz from the power network or from a power generator



CASCADE APPLICATION AND MAIN USERS OF THE TECHNOLOGY

Supply of drinking water to rescue units and the population in places difficult to reach, in areas affected by natural disasters, acts of war or terrorist attacks.

Supply of drinking water to military troops and units in battlefield conditions, in training ground conditions, during peacekeeping missions.

Supply of drinking water to residents of regions affected by water shortages, without sufficiently developed municipal infrastructure or without water of appropriate quality.

Supply of drinking water to locations with high tourist potential. We have container solutions with a flow rate of up to 100 m³/h, which are necessary in situations when, during the holiday season, municipal infrastructure networks are not able to meet the needs of all residents.



TARGET GOVERNMENTAL AND NON-GOVERNMENTAL ORGANISATIONAL UNITS

- fire brigade
- municipality authorities in areas threatened by flooding
- Territorial Defence Force
- military units and troops
- chemical rescue units
- non-governmental organisations carrying out humanitarian missions
- hospitals and clinics
- owners and users of governmental administration buildings, office buildings and apartment buildings (emergency equipment).



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