

ADGEX

# DRINKING WATER

FROM RIVER  
AND LAKE WATER

A high-tech and mobile line for the preparation of drinking water of high quality, obtained from river and lake water for the purposes of domestic and drinking water supply on the basis of the reVODA reactor





## PROPERTIES AND QUALITY OF WATER IN RIVERS AND LAKES


Rivers and lakes are classified as water supply sources, which are characterised by such features as: low mineralisation, high amount of suspended solids, high level of bacteriological contamination, fluctuation of water parameters depending on the time of year.

Rivers and lakes are also often contaminated with technogenic pollution as a result of discharges of industrial, domestic wastewater, and shipping traffic.

Another feature of such sources is the overgrowth of microscopic single-celled algae – the so-called blooms, which are capable of to a great extent deteriorating organoleptic and allergenic properties of water.


**In order to use river and lake water for domestic and drinking water supply purposes, it is mandatory to carry out qualitative and complex water treatment and purification in order to correct the chemical composition of natural water, improve its organoleptic properties and disinfection.**

## COMPETITIVE ADVANTAGES OF THE REVODA WATER PREPARATION LINE

 Low operating costs – at the level of RUR 50.00 per 1 m<sup>3</sup> of water;



Possibility of stationary and modular placement of the line;

 Small area for placing equipment – 25 m<sup>2</sup>;



High reliability and warranty on the equipment.

## MOBILE VERSION WATER PREPARATION LINES

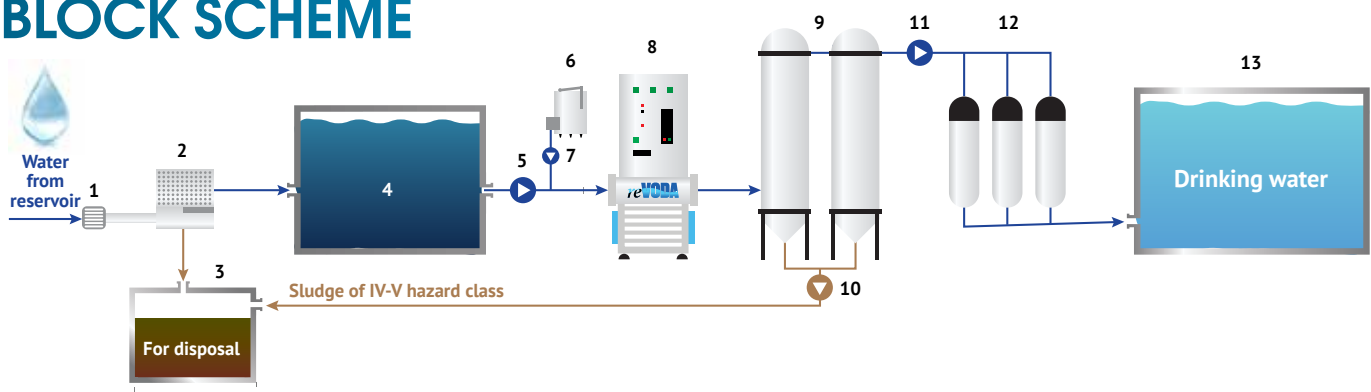
At the customer's request it is possible to place the water preparation line on the basis of a 40 foot container. Possible design options and type of container are agreed with Customer additionally.



**Line design options: mobile and stationary**  
**Line productivity: from 10 m<sup>3</sup>/hour to 45 m<sup>3</sup> and more**

CINER offers the supply of a drinking water preparation line for the purification, disinfection and neutralisation of river and lake water using reVODA reactors.

## BLOCK SCHEME



## EQUIPMENT LIST:

- |                           |  |                           |
|---------------------------|--|---------------------------|
| 1. Self-priming pump.     | 6. Reagent preparation and dosing station. | 11. Centrifugal pump.     |
| 2. Mechanical drum grate. | 7. Dosing pump.                            | 12. Ultrafiltration unit. |
| 3. Solid waste tank.      | 8. reVODA reactor.                         | 13. Accumulation chamber. |
| 4. Accumulation chamber.  | 9. Sedimentation tanks.                    |                           |
| 5. Centrifugal pump.      | 10. Impeller pump.                         |                           |

## TECHNICAL CHARACTERISTICS OF THE 10 M<sup>3</sup>/HOUR LINE

Water preparation line capacity (m <sup>3</sup> /hour)	10
Water preparation line capacity per day (m <sup>3</sup> /day)	240
Operating mode (according to the Customer's wish):	
• continuous round-the-clock	24/7/365
• intermittent (flexible work schedule) -	as necessary
Required area for equipment location (m <sup>2</sup> )	25,00
Total peak power consumption of the line (kWh)	17,90
Temperature in the room of the purification line installation (°C)	+5 ÷ +30
Number of operating personnel per shift (people)	1
Operating life of the line (years)	15

# HIGH QUALITY OF THE OBTAINED DRINKING WATER


Contaminated natural water has a damaged structure. Properly structured frozen water looks like a snowflake under a microscope. But the water molecules that are damaged (contaminated), when frozen, come out as "broken" incomplete snowflakes




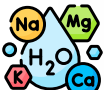
Proper water molecules are capable of joining into groups – clusters. The smallest basic cluster of water has only 6 molecules. But the purer the water, the more molecules join into clusters – 280 molecules and more are structured together. And that's how structured water is formed.


So, by passing contaminated water through the magnetic field of the unique reVODA reactor, the structure of each water molecule is reordered. In other words, water is artificially restored to its original undamaged level, which Mother Nature put into water. The purified water becomes structured again.

Modern scientific research proves the following useful properties of structured water and its favourable influence on biological processes in human, animal and plant organisms:

 Water structures exist for a longer period of time, which means that the drinking water we get can be stored for a long time (up to several months) and not spoil.

 Structured water has a higher energy compared to ordinary water and increased biological activity. The main purpose of structured water is to restore the organism and to boost immunity.

 The minerals and salts in structured water are arranged in a certain order, as in water from a natural source.

 The purified water after the reVODA reactor is magnetised, biologically active and has therapeutic effects on the organism: reduction of cholesterol level; removal of kidney stones; lowering blood pressure; improving skin condition, increasing its elasticity, reducing wrinkles; slowing hair loss; preventing the development of rheumatism and arthritis.



We are always in touch



+61 410 494 010  
WhatsApp



info@adgex.com



adgex.com

