



Josab International AB (Publ), founded in 1997, is a listed company on the Stockholm stock exchange and with headquarters in Stockholm, Sweden. JOSAB manufactures and sells ecological water treatment solutions based on, by the company patented, unique filter material Aqualite™. The company has subsidiaries in Hungary, China and India. In other parts of the world JOSAB has local representatives. JOSAB has delivered water purification plants to locations in Europe, Africa and Asia. JOSAB's ecological water purification plants are recommended by several international bodies.

Organizations and companies using JOSAB's Ecological Aqualite™ System:

- UNICEF
- Red Cross
- UNHCR
- UNMISS
- Save the children
- Regideso Burundi
- IOCC Serbia etc



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JOSAB ECOLOGICAL AQUALITE™ SYSTEM

LOW COST HIGH FLOW WATER TREATMENT SOLUTIONS

- Low environmental impact
- Ecological – No chemicals
- Low energy consumption – Less than 1 Watt per liter potable water
- User friendly
- Operational within hours
- Less consumables
- Reduced water consumption
- Significant water clarity
- Improved T10-value – More efficient UV sterilization



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JOSAB ECOLOGICAL AQUALITE™ SYSTEM

The JOSAB Ecological Aqualite™ System purifies water using unique methods based on the use of filter housings containing the mineral Aqualite™. This technique provides purification without any chemical additives. Through its adsorption and ion-exchanging properties, Aqualite™ effectively removes heavy metals, radioactive fallout (Cs, Sr), nitrogen compounds, petroleum products, etc.

Protozoa are known to be resistant to chlorine, the JOSAB Ecological Aqualite™ System filters out particles down to the size of 1 micron and removes approximately up to 98% of bacteria and parasites. The addition of UV light allows for a complete removal of, for example, heterotrophs, coliforms and E. coli bacteria, as well as Giardia lamblia and Cryptosporidium. No chemicals are used in the standard purifying process.

WATER PURIFICATION PRODUCTS STANDARD RANGE

Model	Type (Size in feet) *	Production capacity (m ³ /day) **	Power Cons. (kWh) ***	Power Consumption (watt per litre of drinking water produced)
SC2700	Container 40 ft	1800 - 3000	36	0,28 - 0,47
SC1800	Container 40 ft	1200 - 2000	24	0,29 - 0,47
SC900	Container 20 ft	600 - 1000	13	0,29 - 0,49
SC500	Container 20 ft	400 - 650	12	0,46 - 0,75
SC100	Container 10/20 ft	100 - 170	3,5	0,41 - 0,69
P100	Modular on pallets	78 - 130	2,5	0,46 - 0,76
P25	Modular on pallets	20 - 33	0,8	0,58 - 0,96
Portable Basic	Handcart	14 - 24	0,8	0,88 - 1,37
Portable Pro	Frame with wheels	10 - 15	0,6	0,96 - 1,44
WK20A	Water kiosk	24	2,5	2,5
WK10A	Water Kiosk	12	2,1	4,25
WD5A	Water Dispenser	5	4,2	20,20

* ISO class sea high cube container. Size based on standard installation. Additional additions can give a larger container size.

** Based on 23 hours of production per day and 1 hour of backwashing per day.

*** Standard for a manual unit.

The raw water quality will determine the flow rate through the unit. Influencing factors on the flow rate are particle density and the presence of heavy metals. In all cases the result of the water analyses will determine the recommended flow rate and add-ons.



ADD-ONS

- Flocculation system which includes a pH adjustment system, to bind and filter out particles less than 1 micron.
- pH-adjustment system, in case pH levels in the raw water are too low or too high.
- Bag filtration system, can be installed, as an alternative to flocculation system.
- Activated carbon (AC) filtration system, when the raw water has too much organic residue or containing high levels of chlorine.
- Water quality control monitors.

JOSAB's AQUALITE™

A SUPERIOR WATER PURIFICATION MATERIAL

The JOSAB Ecological Aqualite™ System uses a product called Aqualite™, a clinoptilolite, which is a natural zeolite with exceptional adsorption capacity. Aqualite™ is found in the Rátka mine, in Northern Hungary. After mining the large blocks of Aqualite™, further production takes place at JOSAB's own new indoor production plant in Szerencs.

Aqualite™ is used in water purification systems, for producing pure drinking water from freshwater sources. Aqualite™ cleans the water in a single step, and the process is entirely free from chemicals. Water purified using Aqualite™ meets the quality demands of WHO's regulation for drinking water.



ADVANTAGES WITH JOSAB's AQUALITE™

IS ITS PHYSICAL/CHEMICAL ADSORPTION, ION-EXCHANGE AND CATALYTIC PROPERTIES

- Uniform pore structure and large pore volume
- Pore diameter 0.1 – 1.0 nanometer (nm)
- Filters particles greater than 1 microns
- Large specific area
- Reduces bacteria
- Reduces heavy metals, ammonium and hydrogen compounds
- Adsorbs chemical and petroleum products

Aqualite™ functions like a molecular strainer (sieve), i.e. it removes substances from water by adsorption.

Aqualite™ adsorbs: Ammonia, nitrate, nitrogen, hydrogen-sulfide, heavy metals, carbon-oxygen, oil-derivate, ethylene, ethane, n-butane, oxygen, etc.

Aqualite™ adsorbs and/or separates with catalytic effect: Potassium (K), Iron (Fe), Manganese (Mn), Calcium (Ca), Strontium (Sr), Lead (Pb), Copper (Cu), Silver (Ag), Mercury (Hg), Nitrogen (N), Nickel (Ni)

Aqualite™ is a bactericide which reduces Heterotroph, Coliform and E-coli bacteria with 91.5 - 97.5 %.

A special filter technology in combination with a UV sterilizer, guarantee clean and safe water. This technology is patented.