

Containerized Treatment Plant for Potable Water



INWASOL Intelligent Water Solutions

Intelligent Water Solutions GmbH

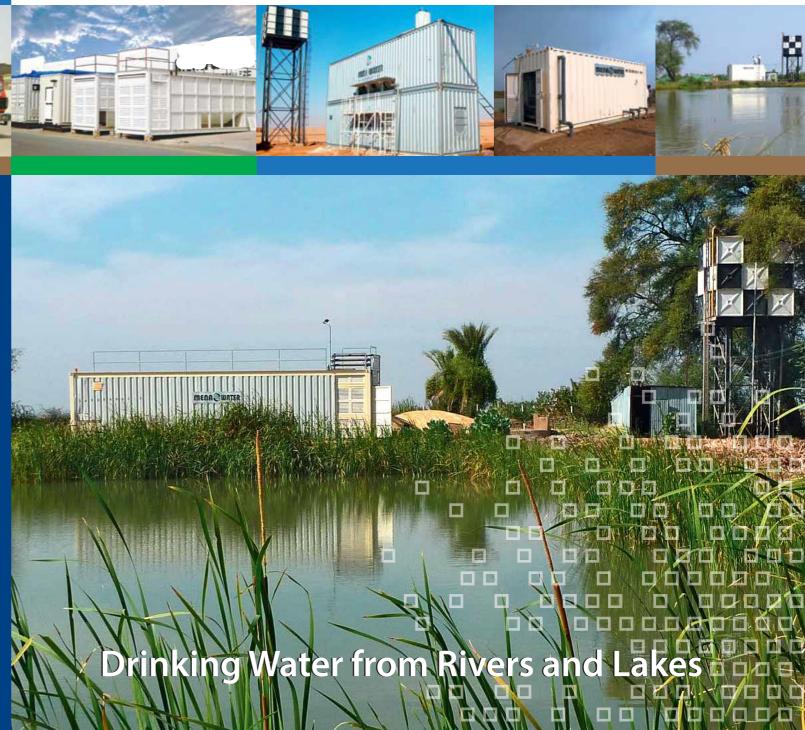
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INWASOL – Safe Drinking Water Containers

INWASOL drinking water plant Alsoqya is a cost effective packaged plant that meets WHO and other international treated water standards. It is easy to operate, consumes less energy and can be delivered in short notice.

DESCRIPTION

combines all the necessary compo nents for coagulation, flocculation, clarification, filtration and disinfection in a compact system. Its versatile motion in the flocculation chamber water treatment and industrial as advanced treatment of wastewater or to reduce suspended solids, phosphorus and other contaminants CLARIFICATION like heavy metal.

COAGULATION

serpentine pipe. Coagulating chemi cals are injected in the pipe to be flocs to settle by gravity to the bottom mixed with the raw water. Coagu lants promote collisions between the small suspended particulates, called The sludge is periodically withdrawn colloids, enabling them to form large through an automatic valve. Clarified flocs that settle easily in the clarifier leaving behind clear water with very surface through perforated tubes. low turbidity.

Alsoqya is a containerized plant that The coagulated water enters the flocculation tank. A coagulant aid or polymer can be added to strengthen the floc bonding. Slow stirring design makes it ideal for potable forms collision between the forming precipitates and the remaining process water and also can be used contaminant particles to form larger flocs.

E - Chemical Dosing Unit

G - Disinfection Unit

F - Sand Filter

FLOCCULATION

The coagulated and flocculated water is evenly distributed at the bottom of the lamella settler using well designed The raw water is fed through a distribution laterals. The large surface area of the tube settler causes the thickening zone.

water is collected from the clarifier

FILTRATION

Clarified water enters the high rate gravity filter for removal of the remaining finer solid particles. Based on the application, the filter media can be dual media or multi-media. The water passes through the layers of the media and passes an underdrain system.

The filter is backwashed intermittently depending on the influent turbidity of the raw water.

DISINFECTION

INWASOL uses an innovative and highly effective water disinfection technology from REDO Water Systems.

FEATURES

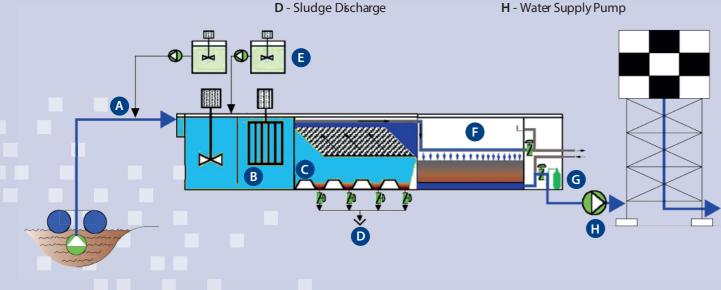
- Pre-engineered complete system in ISO containers.
- Small foot print.
- Simple operation and low mainte nance requirements.
- Low energy consumption.
- Working on gravity sand filter and lamella settler principle.
- Higher throughputs possible through modular arrangement of units.
- European quality components.
- Fast delivery and start-up due to the mobile concept.
- Very good price-performanceatio.

- Highly stable process that produces quality water even during peaks.
- Effectively removes turbidity, suspended solids, color, odor and TOC.
- Produces highly pure water that meets WHO Drinking Water stand ards.

APPLICATIONS

- Potable water for cities and villages.
- Process water treatment.
- Grey water treatment.

- A Raw Water Intake
- **B** Flocculation Unit
- C Clarification Unit(Settler)



OPTIONAL EQUIPMENT TO CUSTOMIZE THE SYSTEM

- Many options can be provided to suit the site, such as
- Pre-settling unit for highly turbid water
- Pontoon to carry the feeding pumps
- Power generator

- Storage tanks as ground or elevated tower
- Portable small Laboratory for water quality testing
- Containerized operator rooms
 - Skid mounted pumps alternatives as self-priming

PLANT DATA FOR DIFFERENT THROUGHPUTS

MODEL: ALSOQYA	MWSQ 20	MWSQ 40	MWSQ 60	MWSQ100
Capacity in m³/h	20	40	60	100
Capacity in m³/d	500	1000	1500	2500
Arrangement	20' container	40' container	40' container	40' container

Other sizes on demand





