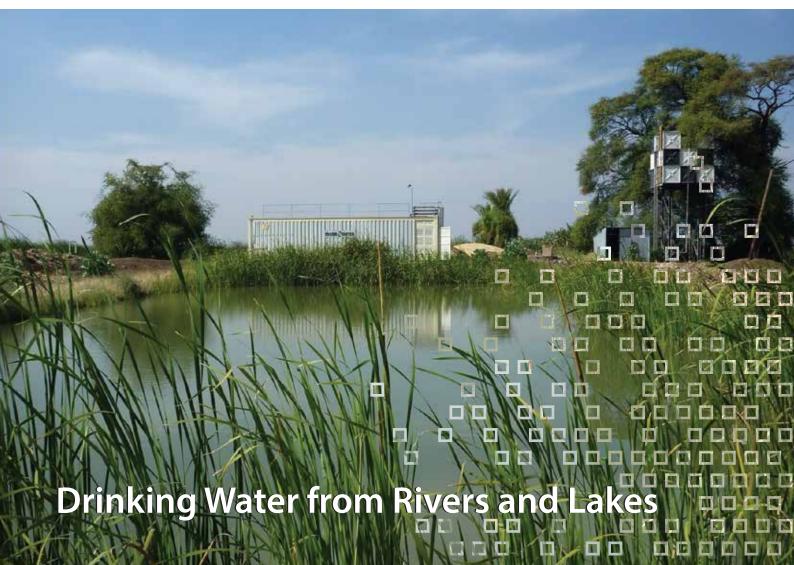




Containerized Treatment Plant for Industrial Water









MENA-Water – Safe Drinking

MENA-Water 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

Alsoqya is a containerized plant that combines all the necessary components for coagulation, flocculation, clarification, filtration and disinfection in a compact system. Its versatile design makes it ideal for potable water treatment and industrial process water and also can be used as advanced treatment of wastewater or to reduce suspended solids, phosphorus and other contaminants like heavy metal.

COAGULATION

The raw water is fed through a serpentine pipe. Coagulating chemicals are injected in the pipe to be mixed with the raw water. Coagulants promote collisions between the small suspended particulates, called colloids, enabling them to form large flocs that settle easily in the clarifier leaving behind clear water with very low turbidity.

FLOCCULATION

The coagulated water enters the flocculation tank. A coagulant aid or polymer can be added to strengthen the floc bonding. Slow stirring motion in the flocculation chamber forms collision between the forming precipitates and the remaining contaminant particles to form larger flocs.

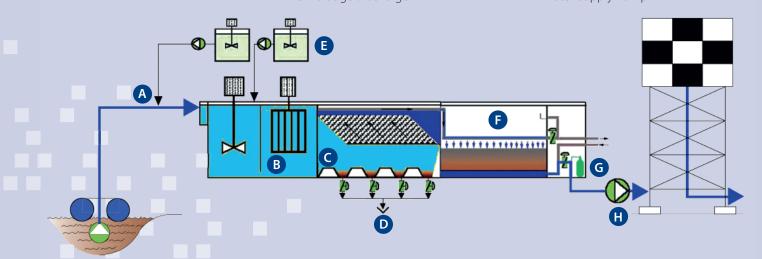
CLARIFICATION

The coagulated and flocculated water is evenly distributed at the bottom of the lamella settler using well designed distribution laterals. The large surface area of the tube settler causes the flocs to settle by gravity to the bottom thickening zone.

The sludge is periodically withdrawn through an automatic valve. Clarified water is collected from the clarifier surface through perforated tubes.

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

- E Chemical Dosing Unit
- **F** Sand Filter
- **G** Disinfection Unit
- **H** Water Supply Pump



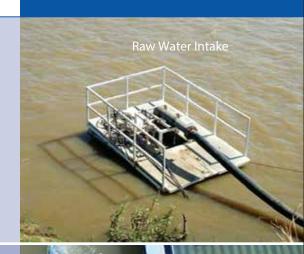
FILTRATION

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

Disinfection can be with liquid or gas chlorine. Ultra violet disinfection can also be used.



FEATURES

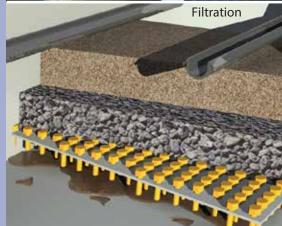
- Pre-engineered complete system in ISO containers.
- Small foot print.
- Simple operation and low maintenance requirements.
- Low energy consumption.
- Working on gravity sand filter and lamella settler principle.
- Higher throughputs possible through modular arrangement of units.
- European quality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

- 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 standards.

APPLICATIONS

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





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





MODEL: ALSOQYA	MWSQ 20	MWSQ 40	MWSQ 60	MWSQ100
Capacity in m³/h	20	40	60	100
Capacity in m ³ /d	500	1000	1500	2500
Arrangement	20' container	40' container	40' container	40' container

Other sizes on demand



Hydroflux Industrial Pty Ltd

Australia and Australasia

Head Office:

Level 26, 44 Market Street Sydney NSW 2000 Australia

Sutherland Engineering Office:

3-5 Stapleton Ave.

Sutherland NSW 2232 Australia

Gordon Office:

828 Pacific Hwy

Gordon NSW 2072 Australia

Victorian Office:

84 Hotham St. Preston VIC 3072 Australia

Oueensland Office:

1 Westlink Court Darra QLD 4076

Perth Office:

Level 28, AMP Tower 140 St Georges Terrace Perth WA 6000 Int: +61 2 9089 8833 Aus: 1300 417 697

info@hydrofluxindustrial.com.au www.hydrofluxindustrial.com.au

New Zealand

Head Office:

Level 26, PwC Tower 188 Quay St

Auckland 1010, New Zealand

Int: +64 9 352 2052 NZ: 09 352 2052

info@hydroflux.nz www.hydroflux.nz

Fiji and Pacific Islands

Head Office:

Suva Business Centre 217 Victoria Parade Suva, Fiji Int: +679 773 6950

Fiji: 773 6950

info@hydroflux.com.fj www.hydroflux.com.fj

United Kingdom and Europe

Head Office:

1000 Lakeside North Harbour Western Road Portsmouth PO6 3EZ Int: +44 23 9270 4087 UK: 0239 270 4087 info@hydroflux.uk

www.hydroflux.uk

Hydroflux Industrial is GRS Certified to the following standards

ISO 45001 SAFETY
MANAGEMENT SYSTEM



Certificate Number: 47714001610008

ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM



Certificate Number: 47745001610008

ISO 31000 RISK
MANAGEMENT SYSTEMS



Certificate Number: 477310006176001