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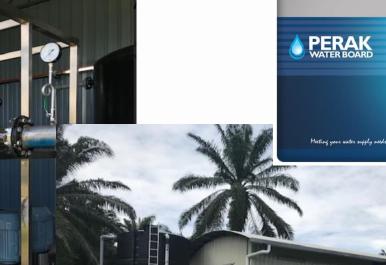
Compact Water Treatment System



River Water Treatment System for







System Capacity – 30m3/hr Tender value RM\$1.8M



REC DBOO PROJECT

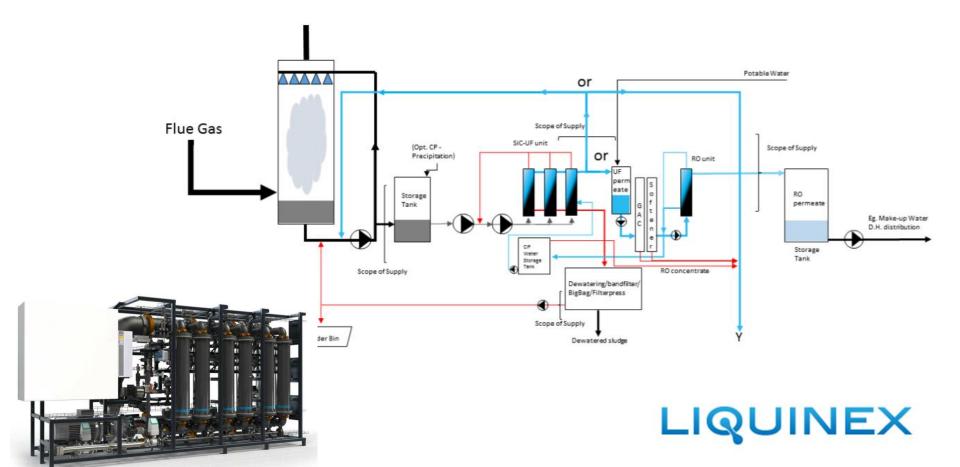


System Capacity – 40m3/hr System Price : SGD\$600K



Closed Loop Scrubber System

- Condensate reuse / safe discharge / cost reduction
- Ultra Filtration Unit with LiqTech's proprietary SiC membranes Removal of heavy metals and particles
- Activated Carbon Filter, GAC Removal of dissolved organic compounds and PAH's
- Softening Unit Hardness removal prior to RO
- RO, reverse osmosis Unit Desalination, removal of dissolved minerals and metals >98,5 %



CUSTOM CAPACITY AND CONFIGURATIONS

The Liquinex scrubber waste water system can be manufactured for any size requirement starting from 1 m3/hour to any feed flow, and different configurations depending on specific applications.



System Capacity – 20m3/hr System Price SGD\$400K

The system can be configured to be automatic or semi automatic minimizing human intervention during operation. Additional options include remote monitoring and control system. Our engineers will assess your plant specifications in order to recommend the appropriate capacity and configuration.

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SEA WATER REVERSE OSMOSIS SYSTEM





For illustration - Actual System may vary System Capacity — 10m3/day System Price SGD\$15-20K depending on specs

System Capacity – 50m3/day System Price SGD\$70-90K depending on specs

Standard Features

- Seawater RO membrane
- 8040/4040 cartridges
- Ultrafiltration Membrane
- Membranes skid mounted
- Multi-cartridge or Bag prefilter
- 20" RO guard filter
- Electrical control panel with PLC
- and DOL/ Frequency Controller*
- Feed and High Pressure Pumps
- Manual and Electrical Solenoid
- Control Valves
- Pressure Gauges and Flow
- Meters
- Permeate TDS Meter
- Steel frame, PVC & Stainless
- Steel Piping
- C.I.P setup with Tank*
 *Varies from model to model

River Water Treatment for Communities





Liquinex designed a compact and portable river water treatment machine for the communities with little access to clean water. With self cleaning capability and without the need to replace any parts periodically, the system require minimal maintenance and can be operated easily by briefly trained non-technical person.

System Capacity – 15-20m3/day System Price SGD\$20K to \$25K depending on specs



Results from Demonstrations

SAMPLE	UNIT	WHO STD	DOE STD B	RAW WATER		WASTE WATER	
				BEFORE	AFTER	BEFORE	AFTER
Kekeruhan (test #1)	NTU	<300	-	182	0.32	152	8.1
Kekeruhan (test #2)	NTU	<300	-	-	1.77	-	•
Warna (Hazen)	-	<15	200 ADMI	-	-	65	5
Aluminium	mg/l	<0.2	15	-	-	0.800(L)	0.089
Iron	mg/L	<0.3	5.0	1.90	0.01	1.57	0.11
Manganese	mg/L	<0.1	1.0	0.293	0.001	0.036	0.012



Containerised Water Treatment System





A containerised waste water treatment system designed to minimise the amount of waste water generated from offshore plant pipe cleaning operations. Due to the nature of the waste water generated by these operations, the waste water can not be discharge to the ocean and must be disposed by engaging specialised chemical disposal companies. The cost of such disposal is determined the volume of water disposed. The system by Liquinex can reduce the amount of volume by about 90%, therefore eliminates a significant portion of disposal cost.

System Capacity – 10m3/day
Combined UF+RO Price SGD\$50-70K
depending on specs

Compact Algae Harvester





The Liquinex Algae Harvesting system allows for extraction of microalgae cells from water. Micro algal biomass are commonly used in the field of energy, nutraceuticals, pharmaceuticals, etc. For example, extraction of algae oil to be used for biodiesel or DHA source. The system employs measures to prevent clogging and fouling by the algal cake.

In other application, the system can be used for clearing water bodies from algae blooms, which has become more common due to global warming. System Capacity — 10m3/day

Rental Price SGD\$3K /mth



Aquaculture Application





After

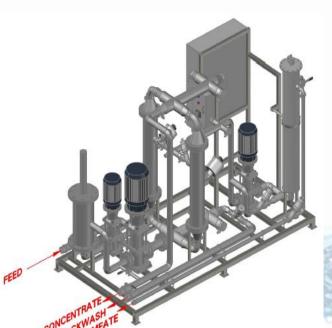
Before

System Capacity – 1m3/hr Rental Price SGD\$3K /mth

flush the sands, to reduce clogging.

A system for keeping the aquariums, fish tanks, or aquaculture tanks from excrements, bacterias, impurities, and algae. The system was employed at the River Safari at Singapore Zoo. Sand filters are the more conventional method for dealing with fish tanks, however the limitations are it requires large amount of space, requires manpower to periodically replace the sand, and huge amount of water to

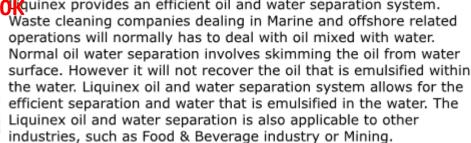
Oil-Water Separator



System Capacity – 10m3/day

Customised System Price SGD\$200kquinex provides an efficient oil and water separation system.







Swimming Pool System





A water treatment system for swimming pools that requires very little maintenance and only 1/3 of the space required for common swimming pool water treatment system.

With this system, it is capable of maintaining water quality without the use of chlorine.

The system shown is installed at Civil Aviation Authority Singapore, pilot training pool.

System Capacity – 100m3/hr System Price SGD\$200K -\$250K Depending on scope



Compact Mining System



System Capacity – 30m3/day
Combined UF+RO System Price SGD\$80K



Rice Water Recycling System – Eng Bee Foods





The rice washing process in rice noodle factory is a highly water intensive process and produces significant amount of pale white starchy waste water. A system for recycling and reuse of water produced from rice washing in a noodle making factory.

Liquinex system is capable of efficiently recovers reusable clean water from the waste water. The water recovery and reuse significantly reduces the amount of water used in the factory process.



Combined Ultra-Filtration and RO Systems for Industrial Water Recycling



Liquinex provided a custom engineered solution for a chemical drum supplier in Singapore. The company produces chemical contaminated water from washing waste chemical drums which they will resell.

The water treatment system reduces the amount of water needed and recycle it for reuse.

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Combined UF+RO System Price SGD\$120K

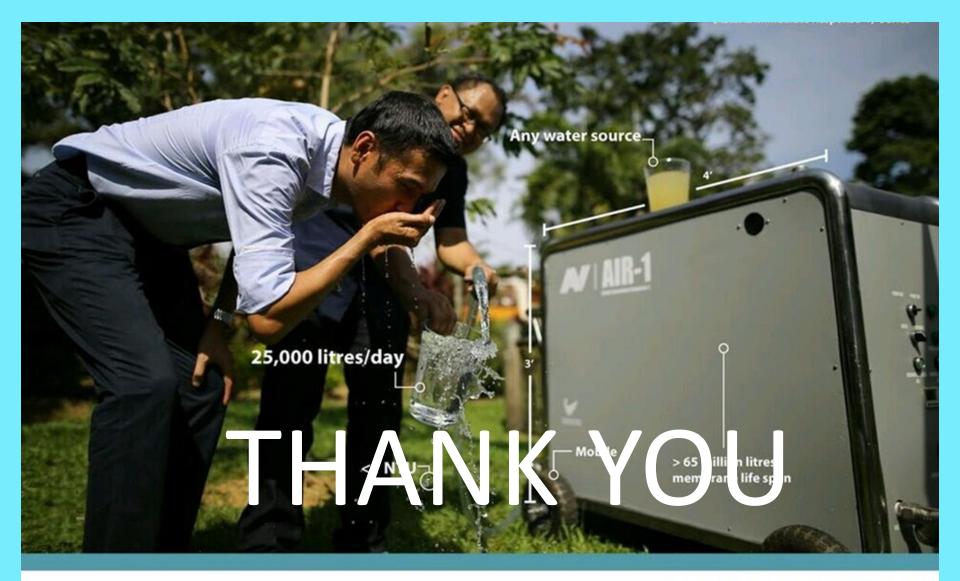
Ceramic membrane UF System For Cooling Tower Systems @ REC Solar





System Capacity – 10m3/hr System Price SGD\$220K

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Water solution - Any situation, anytime, anywhere...

System Capacity – 25m3/day

System Price SGD\$30K-40K depending on specs

