

AQUACONTROL LTD. PROJECT BROCHURE

INDUSTRIAL SOLUTIONS



PROJECT BROCHURE

INDUSTRIAL SOLUTIONS



OUR ADDED VALUE

Wide range of total solutions
Custom-tailored applications
Standard range
Mobile water treatment
'Plug & Play'-modules
Integrated solutions
Chemical products
Service support
Technical monitoring
On-site assistance
Different financing possibilities
Energy saving design
Sustainability



Industrial solutions

Softeners
Filtration
Ultra-filtration
Reversed Osmosis
Demineralisation
Water Storage Tank
Chemical Dosing
Disinfection
Booster Units
Blowdown Systems
...

EUROPE

INDUSTRIAL PROJECTS



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Well water treatment for production of potable water for slaughterhouse

Removal of iron, ammonia and odor by oxidation, disinfection and filtration

Equipment

- Aeration unit diam. 1500
- Duplex multimedia filter epoxy-coated tanks diam. 1800 with nozzle plate
- UV 80/5
- PLC

Chemicals

- HYDROS 359 Chlorine dosing



Grey water treatment for water recuperation in deep frozen vegetable industry

Removal of suspended solids by ultrafiltration

Equipment

- Ultrafiltration unit 130m³/u

Chemicals

- Coagulation
- Chemical cleaning NaOH
- Chemical cleaning HCl
- Disinfection NaOCl



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➤ Treatment and conditioning of well water to be used as make-up water for steaming boiler

Revamping of existing installation (sand filter, softener, active carbon and reversed osmosis) and adding an ultra filtration to remove organic compounds

Equipment

- Aeration tank diam. 90 cm with 500l of aeration rings
- Triplex filtration aquamandix
- Ultra filtration 13,5m³/u
- Activated carbon filtration C30.78
- Softener – revamping multi-valve system
- Reversed osmosis KR

Chemicals

- Oxidizing KMnO₄
- Chemical cleaning UF NaOH
- Chemical cleaning UF HCl
- Anti-scalant Hydraclean 59
- Boiler water conditioning Sustain 95



➤ Treatment of well water for steam production in biogas plant

Sand filters in quadruplex, magnetic filter, duplex softener, reversed osmosis, EDI module and mixed bed to achieve 1m³/h ultra pure water

Equipment

- 4 x sand filtration Fleck 7700
- Magnetic filter
- Duplex softener 2 x 250 Clack
- Reversed osmosis Aqualine RO 640
- EDI ionpure
- Mixed bed 2 x 100l

Chemicals

- NaOH



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➤ Waste water recuperation for re-use in car-wash

Triplex AFM filter and active carbon with pneumatical valves and PLC with visualization

Equipment

- 3 x AFM filter C21.60
- 1 x activated carbon filter C30.72
- PLC

Chemicals

- No chemical dosing



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► Industry - Netherlands

Duplex softener 30m³/h
Composite vessels 36"
PP plumbing
Controller



► Beverage - Belgium

1. Mineral water 45m³/h
Simplex oxidation tower
Triplex sand filter
Triplex activated carbon filter

2. Borehole water 45m³/h
Triplex activated carbon filter

Lemonade water
Reversed osmosis 30m³/h
Reversed osmosis on concentrate 10m³/h



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➤ Frozen Vegetables - Belgium

2 duplex softeners 40m³/h
1 double-pass reversed osmosis 15m³/h



➤ IT, GOOGLE - Netherlands

Triplex 3 x 1200L resin – 60m³/h



➤ Metal industry – Belgium

Extension on ultrafiltration - 140m³/h
Pretreatment of RO feed water
Stainless steel plumbing and connections according to DIN standard
SGS approval



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➤ Food industry - Belgium

4 duplex softeners
Max. flowrate 240 m³/h
Epoxy vessels
PVC plumbing



➤ Automotive industry – Czech Republic

Triplex softener 120m³/h
Chemical conditioning



➤ 3 x Clack 2" softener 250L with System Controller for progressive flow functioning

3 x Clack 2" softener 250L with System Controller for progressive flow functioning. The equipment is destined for cooling water products in a power station (Sweden).

Capacity : up to 30m³/h



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➤ Duplex sand filter



➤ Triplex filtration 50 m³/h



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► Container solutions

Sandfilter - Softening - Reversed Osmosis - Ultrafiltration - EDI



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Projects by Euraqua UK

➤ **RO/EDI for energy from waste power station**

8 m³/h duty standby stream
Siemens S7 PLC controlled with on skid pre-treatment



➤ **Pharmaceutical grade iron removal filter**

3 filters
22 m³/h per filter
With SS orbitally welded pipework
Skid mounted



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Projects using UVO_3

➤ Mobile UV unit

This is a mobile UV unit and filter. The concept is that it can be taken to various locations on the farm to treat river / reservoir water.

The main customers are baby leaf growers, salad crops and potatoes.

The popularity of this unit is increasing due to pressure from the supermarkets for 'cleaner' produce.



➤ 'Air Handling' UV unit

This is an 'Air Handling' UV unit treating the air that is being blown into a Jam factory. The customer had mould issues with their product despite using HEPA filtration.

This system was used in conjunction with a range of locally installed UV batten units to successfully increase the shelf life and reduce the number of customer product rejects.



➤ UV unit to treat the water in the largest fountain in England.

The unit is installed in a National heritage site. They couldn't use chemicals to treat the water as this destroyed the grass and the flowers in the surrounding areas so they turned to UV.



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Projects using UVO₃

➤ Water treatment unit for a soft fruit grower in the East of England

Crops were being damaged by some waterborne diseases and as they are an organic grower they couldn't use chemicals so they ask UVO3 to offer a solution to their problem.



➤ Water treatment units for a grower of Watercress in Spain

The following two pictures are of two units that have been sold to a grower of Watercress in Spain. The water they use to grow their crop occasionally picked up some bacteria that affected the growth of the Watercress. As their system is based on a recirculation system it caused them many problems. UVO3 installed these units to eliminate the problem.



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Herco Units

▶ Compact units

UO and UO-D series with optional cover (up to 500 l/h)



▶ Combi units

Simplex or duplex (up to 500 l/h)



▶ Vertical frame units

UO-D (FU) CD series (500-2000 l/h)

UO-D/ FU series
(500-2000 l/h)



▶ Counter pressure units

Up to 7 bar (50 - 1.200 l/h)



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Herco Units

Standard units

UO ND and UO-D ND (from 2.500 up to 12.000 l/h)



UO 2500 ND



UO-D 6000 ND

Anti-Scalant units

UO-D AS (FU) series (from 1.650 up to 30.000 l/h)



UO-D 2500 AS/FU



UO-D 2500 AS/FU

Ultra pure units

UP series (150 - 20.000 l/h)



UP 1500

EP series (150 - 2.200 l/h)



UO-D 2500 AS/FU

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Herco Units

High efficiency units

KR - series (3.000 - 10.000 L/h) - Recovery up to 90%



Permeate staged units

ND/P series (220 – 2.000 l/h)



Brackish water units

BW < 5,000 ppm TDS - up to 27.500 l/h



Sea water units

SW units up to 20.000 l/h -
For a total salt content up to 45,000 mg/l at 25°C



MIDDLE EAST AND AFRICA

INDUSTRIAL PROJECTS



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► Doha – QATAR

105 m³/h UF and 89 m³/h RO



► Kirkuk – IRAQ

72 m³/h RO



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► Kuşadası – TURKEY

56,25 m³/h SWRO



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► SYRIA

100 m³/h RO



► Bursa – TURKEY

150 m³/h RO



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► Doha – QATAR

210 m³/h UF and 156 m³/h RO



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► Kocaeli – TURKEY

180 m³/h SWUF



► Kocaeli – TURKEY

93 m³/h UF and 42 m³/h SWRO



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► Denizli – TURKEY

60 m³/h RO and 50 m³/h CEDI



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► İzmir – TURKEY

128 m³/h RO



► Eskişehir – TURKEY

16 m³/h CEDI



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► Filtration system - Iraq

Details: Al-Khazmiah Pro

Capacity: 235,200 m³/day
Sand Filters 2400x98



► Filtration system - UAE

Details: Abu Dhabi-ADM

Capacity: 14,600 m³/day
Sand Filters 1000x3+2900x4



► Filtration system - UAE

Capacity: 14,600 m³/day
Sand Filters 1000x3+2900x4



► Filtration system - Syria

Details: Agakhan NGO

Capacity: 7,200 m³/day
DEGAS-Lamella-SF 1200x6



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➤ TSE system - Qatar

Details: Qatar Mall

Capacity: 3,750 m³/day
ACF-UF-RO 1250x3



➤ Mobile water treatment - Qatar

Details: Baladna Farm

Capacity: 3,400 m³/day
Pretreatment-BWRO 850x4



➤ Mobile water treatment - Qatar

Details: Sheehaniya

Capacity: 2,600 m³/day
Pretreatment-BWRO 650x4



➤ Mobile water treatment - Syria

Details: Agakhan NGO

Capacity: 2,400 m³/day
Pretreatment-BWRO 1200x2



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➤ Water treatment system - Kuwait

Details: Kuwait Gov.

Capacity: 2,304 m³/day
Pretreatment-BWRO 192x12



➤ Wastewater treatment - Qatar

Details: UM Al-AFFAI

Capacity: 2,000 m³/day
SBR System 10x200



➤ Water treatment system - Egypt

Details: Sheehaniya

Capacity: 2,000 m³/day
Reverse Osmosis 2000



➤ Mobile water treatment - Qatar

Details: Challenger Project

Capacity: 1,950 m³/day
Pretreatment-BWRO 650x3



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➤ Wastewater treatment - Qatar

Capacity: 1,950 m³/day
MBR Systems 650x3



➤ Mobile water treatment - Qatar

Details: Sheehaniya

Capacity: 1,950 m³/day
Pretreatment-BWRO 650x3



➤ Filtration system - Yemen

Capacity: 1,800 m³/day
Carbon Filters 600x3



➤ Water treatment system - Iraq

Capacity: 1,728 m³/day
Pretreatment-BWRO 1728



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➤ TSE system - Qatar

Details: Souq Waqif

Capacity: 1,600 m³/day
ACF - UF - RO 1600



➤ Mobile water treatment - KSA

Capacity: 1,500 m³/day
Pretreatment-BWRO 1500



➤ Filtration System - Tunisia

Capacity: 1,440 m³/day
Ultra filtration System 1440



➤ Filtration System - Guinée (Africa)

Capacity: 1,440 m³/day
Ultra filtration System 1440



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➤ Filtration systems - Jordan

Capacity: 1,400 m³/day
Sand Filters 466x3



➤ Wastewater Treatment - Qatar

Details: NLCE

Capacity: 1,300 m³/day
MBR Systems 650x2



➤ Water treatment system - Tunisia

Details: Danon Tunisia

Capacity: 1,200 m³/day
Reverse Osmosis System 1200



➤ Filtration system - Jordan

Details: Amman Airport

Capacity: 1,200 m³/day
Degas-MFS-IF-IR-CF 1200



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➤ Water treatment system - Tunisia

Details: Coca Cola

Capacity: 1,008 m³/day
Reverse Osmosis System 1008



➤ Mobile water treatment - Kuwait

Capacity: 1,000 m³/day
Pretreatment-SWRO 500x2



➤ Filtration system - Tunisia

Capacity: 960 m³/day
Ultrafiltration System 960



➤ Water treatment system - Algeria

Capacity: 864 m³/day
Pretreatment-BWRO 864



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➤ Filtration system - Lebanon

Capacity: 864 m³/day
Ultrafiltration System 846



➤ Mobile water treatment - Qatar

Capacity: 864 m³/day
Pretreatment-BWRO 864



➤ Water treatment system - Iraq

Capacity: 864 m³/day
Pretreatment-BWRO 864



➤ Mobile water treatment - Syria

Capacity: 850 m³/day
Pretreatment-SWRO 850



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➤ Water treatment system - Lebanon

Capacity: 842 m³/day
Pretreatment-BWRO 842



➤ Wastewater treatment - KSA

Details: Saudi national

Capacity: 800 m³/day
Guard - MBBR System 400x2



➤ Mobile water treatment - UAE

Capacity: 800 m³/day
Pretreatment-BWRO 800



➤ Mobile water treatment - Qatar

Details: UM AL HAWAYA

Capacity: 800 m³/day
Pretreatment-BWRO 400x2



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➤ Water treatment system - Iraq

Details: Salah Adlin Gov.

Capacity: 720 m³/day
Pretreatment-BWRO 240x3



➤ Water treatment system - Tunisia

Capacity: m³/day
Pretreatment-BWRO 720



➤ Ion exchange system - Iraq

Capacity: 720 m³/day
Softener System 720



➤ Wastewater treatment - Qatar

Details: Sheehaniya

Capacity: 650 m³/day
MBR system 650



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➤ Water treatment system - Bahrain

Capacity: 600 m³/day
Pretreatment-BWRO 600



➤ Mobile water treatment - Bahrain

Capacity: 600 m³/day
Pretreatment-BWRO 600



➤ Ion exchange system - Tunisia

Capacity: 552 m³/day
MMSF-Softener 552



➤ Mobile water treatment - Somalia

Capacity: 500 m³/day
Pretreatment-BWRO 500



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➤ Water treatment system - Jordan

Capacity: 288 m³/day
Pretreatment-RO-EDI 288



➤ Mobile water treatment - Kenya

Capacity: 240 m³/day
Pretreatment-BWRO 240



➤ Mobile water treatment - KSA

Capacity: 200 m³/day
Pretreatment-BWRO 100x2



➤ Wastewater treatment - Qatar

Details: Baladna

Capacity: 100 m³/day
MBR System 100



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Projects in the Middle East and Africa

Country	Treatment process type	Capacity M ³ /day
KSA	Water treatment system containerized RO	1500
KSA	Wastewater treatment system (MBBR)	800
KSA	Water treatment systems containerized RO	200
KSA	Ultra pure treatment unit (EDI)	60
KSA	Ultra pure treatment unit (EDI)	12
UAE	Wastewater tertiary treatment filtration system	14600
UAE	Wastewater tertiary treatment filtration system	14600
UAE	Water treatment system containerized RO	800
UAE	Water treatment unit ultrafiltration	240
UAE	Ultra pure treatment unit (DI)	120
Kuwait	Water treatment systems RO with pretreatment	2304
Kuwait	Water treatment systems containerized SWRO	1000
Kuwait	Water treatment system RO with pretreatment	192
Kuwait	Water treatment system sea water UF and NF	75
Kuwait	Water treatment system RO with pretreatment	24
Bahrain	Water treatment system RO with pretreatment	600
Bahrain	Water treatment system containerized RO	600
Qatar	Water treatment units degas	11880
Qatar	Treated sewage effluent system UF and RO	3750
Qatar	Wastewater treatment systems containerized RO	3400
Qatar	Wastewater preliminary treatment drum filters	2880
Qatar	Water treatment systems containerized RO	2600
Qatar	Water treatment systems containerized RO	2550
Qatar	Wastewater treatment system - SBR	2000
Qatar	Water treatment systems containerized RO	1950
Qatar	Wastewater treatment system - MBR	1950
Qatar	Water treatment systems containerized RO	1950
Qatar	Water treatment units degas	1680

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Projects in the Middle East and Africa

Country	Treatment process type	Capacity M ³ /day
Qatar	Treated sewage effluent system UF and RO	1600
Qatar	Wastewater treatment system - MBR	1300
Qatar	Water treatment systems containerized RO	900
Qatar	Water treatment system containerized RO	850
Qatar	Water treatment systems containerized RO	800
Qatar	Water treatment system containerized RO	650
Qatar	Wastewater treatment system - MBR	650
Qatar	Water treatment system containerized RO	650
Qatar	Wastewater treatment system - MBR	650
Qatar	Water treatment unit sand filter	400
Qatar	Water treatment system containerized RO	350
Qatar	Water treatment system containerized RO	300
Qatar	Water treatment system containerized RO	300
Qatar	Sludge treatment unit decanter	240
Qatar	Water treatment system containerized RO	200
Qatar	Wastewater treatment system - MBR	100
Oman	Water treatment system RO with pretreatment	100
Yemen	Water treatment units carbon filter	1800
Yemen	Water treatment systems RO with pretreatment	24
Jordan	Water treatment units sand filter	1400
Jordan	Water treatment system degas – iron removal - SF	1200
Jordan	Ultra pure treatment unit RO – degas - EDI	288
Jordan	Wastewater treatment system - SBR	200
Jordan	Wastewater treatment system - MBBR	20
Iraq	Water treatment units sand filters	235200
Iraq	Water treatment system RO with pretreatment	1728
Iraq	Water treatment system RO	864
Iraq	Water treatment system RO	720

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Projects in the Middle East and Africa

Country	Treatment process type	Capacity M ³ /day
Iraq	Water treatment system RO with pretreatment	720
Iraq	Water treatment system containerized sw RO	290
Iraq	Water treatment system RO with pretreatment	288
Iraq	Water treatment system containerized SW RO	288
Iraq	Water treatment unit softener	279
Iraq	Water treatment system ro with pretreatment	240
Iraq	Water treatment system containerized SW RO	192
Iraq	Water treatment system ro with pretreatment	144
Iraq	Water treatment system containerized SW RO	110
Iraq	Water treatment system containerized SW RO	70
Iraq	Water treatment system RO with pretreatment	48
Lebanon	Water treatment unit ultrafiltration	1052
Lebanon	Water treatment unit softener	900
Lebanon	Water treatment system RO with pretreatment	864
Lebanon	Water treatment unit ultrafiltration	864
Lebanon	Water treatment unit ultrafiltration	120
Lebanon	Water treatment unit ultrafiltration	360
Lebanon	Water treatment unit ultrafiltration	240
Lebanon	Water treatment system RO with pretreatment	192
Lebanon	Water treatment unit ultrafiltration	100
Lebanon	Water treatment system RO with pretreatment	72
Lebanon	Water treatment system RO with pretreatment	48
Syria	Water treatment system filtration - degasser	7200
Syria	Water treatment system containerized RO	2400
Syria	Water treatment units sand filter	1800
Syria	Ultra pure treatment unit (DI)	1200
Syria	Water treatment system RO	1200
Syria	Water treatment system containerized RO	840

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Projects in the Middle East and Africa

Country	Treatment process type	Capacity M ³ /day
Syria	Water treatment systems RO with pretreatment	768
Syria	Water treatment system RO with pretreatment	720
Syria	Wastewater treatment systems - SBR	450
Syria	Water treatment system RO with pretreatment	432
Syria	Water treatment system RO with pretreatment	240
Syria	Water treatment system RO with pretreatment	240
Syria	Water treatment system RO with pretreatment	100
Syria	Wastewater treatment system - SBR	100
Syria	Ultra pure treatment unit (RO DP)	96
Syria	Ultra pure treatment unit (RO DP)	72
Syria	Wastewater treatment system - SBR	40
Egypt	Water treatment system RO	2000
Egypt	Water treatment system RO with pretreatment	120
Egypt	Water treatment system RO with pretreatment	100
Tunisia	Water treatment unit ultrafiltration	1440
Tunisia	Water treatment unit ultrafiltration	1200
Tunisia	Water treatment system RO	1200
Tunisia	Water treatment system RO	1008
Tunisia	Water treatment unit softener	1000
Tunisia	Water treatment unit ozone	960
Tunisia	Water treatment unit ozone	960
Tunisia	Water treatment unit ultrafiltration	960
Tunisia	Water treatment unit nitrate removal	800
Tunisia	Water treatment unit ozone	800
Tunisia	Water treatment system RO with pretreatment	720
Tunisia	Water treatment system RO	720
Tunisia	Water treatment unit ultrafiltration	720
Tunisia	Water treatment unit softener	600

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Projects in the Middle East and Africa

Country	Treatment process type	Capacity M ³ /day
Tunisia	Water treatment system RO	576
Tunisia	Water treatment unit softener - SF	550
Tunisia	Water treatment systems containerized RO	360
Tunisia	Water treatment system RO with pretreatment	300
Tunisia	Water treatment system RO with pretreatment	288
Tunisia	Water treatment system RO with pretreatment	240
Tunisia	Water treatment system RO with pretreatment	240
Tunisia	Water treatment system containerized RO	192
Tunisia	Water treatment unit nitrate removal	192
Tunisia	Water treatment system RO with pretreatment	150
Tunisia	Water treatment system RO with pretreatment	100
Tunisia	Water treatment system RO with pretreatment	100
Tunisia	Water treatment system RO with pretreatment	72
Tunisia	Water treatment system RO with pretreatment	48
Tunisia	Wastewater treatment system - SBR	30
Libya	Water treatment system containerized RO	270
Algeria	Water treatment system RO with pretreatment	864
Algeria	Recycling industrial wastewater	125
Somalia	Water treatment system RO with pretreatment	2880
Somalia	Water treatment system containerized RO	500
Kenya	Water treatment system RO with pretreatment	240
Nigeria	Water treatment unit ultrafiltration	240
Guinée	Water treatment unit ultrafiltration	1440

