

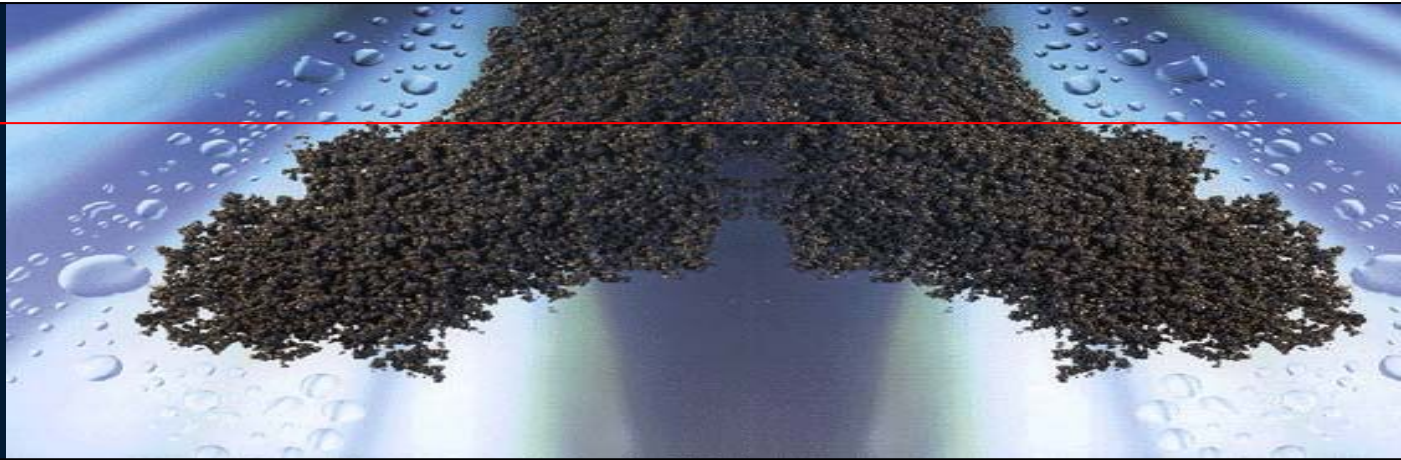
The High Quality Route to
clean water.

Water Quality values

ProFilter[®] Vehicle Wash Water Reclaim
Systems



The Quality Company – Worldwide



Pure water technology

TreatMent® wash water recycling systems are used for cleaning waste water from all types of vehicle washing operations, be it cars or trains or even airplanes. The ProFilter® wash water recycling system by TreatMent® is recognized as the most efficient state of the art technology by all re-known companies worldwide. The unique technology of ProFilter® enables the recycling of wash water to the highest quality standards, without using chemicals and can recycle more than 95% of the wash water. We have the necessary technical experience of recycling systems from countless installations throughout the years.

Typical applications include:

- Cars
- Trucks
- Aircrafts
- Trains and tram
- Garages
- Bus service
- Manual and automatic

In-house Resources

The critical area of automation is handled using only in-house Resources. Unlike many suppliers TREATMENT® Water&waste Technology utilizes their own specialist departments for the design and construction of the control cabinets and for the development and writing of software. Pre-validation Software modules normally form the basis for construction In accordance with international guidelines.

Over 90% saving of wash water

TREATMENT® range of recycling systems has been designed for the efficient Remove solids from the wash water to avoid damage to car surface and clogging up of valves and nozzles of the car wash and kill bacteria to avoid bad smell and illness or customers and workers from bacteria, The ProFilter® system is in both functions the most efficient and economical worldwide.

Benefits for the customer

- Quality & Project Plan
- State of the art technology
- Strictest quality controls
- Review of certificates, technical documentation
- Only high quality components
- Service contract with full documentation

For flow rates between 0.5 and 100 m³ per hour TREATMENT® is your expert partner where ecological and economical water purification is concerned. The standardized system components allow individually tailored solutions at attractive prices.

Service after system handover

The TREATMENT® Customer Services include fault-diagnosis Systems up to and including remote assistance and a 24-hour Hotline.

Further information Please Contact
<http://www.treatment.co.il>

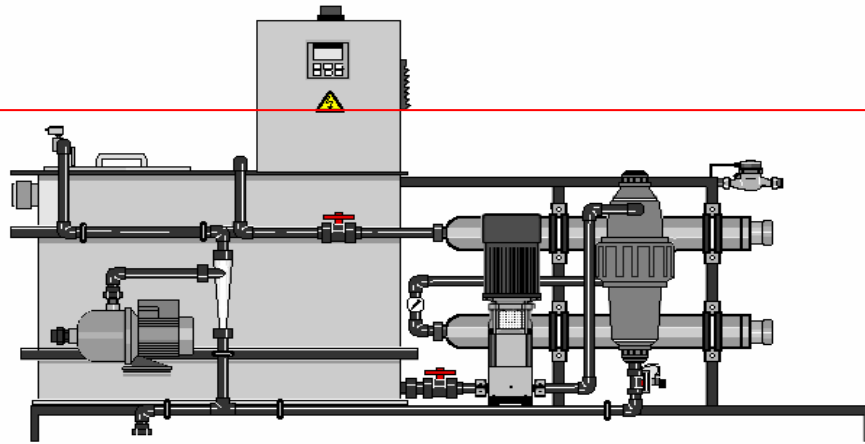
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Fields of Activity



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ProFilter[®] ECO-CWRS-50 Economical Recycling System 100 to 200 l/min



TREATMENT[®] car washing water recycling machine is specially designed only for the water recycling of car washing shop and car washing machine by TREATMENT[®]. It can make the reuse of waste water of car washing. It employs the advanced water recycling technology with three stage filtration, hydrocyclone, disc filtration and UF membrane filtration with back washed automatically. The first stage hydrocyclone remove suspended solids follow by automatic disc filtration has a precision of 10-15 μ m, while the third stage use a specially designed UF module with the precision of 0.01 μ m. It can remove particle, bacteria, virus, micro organism, maintaining water clean and safety of operation. It can save the water resource and protect environment.

Advantage:

- Clean and clear filtration water
- Automatic control, including automatic back washing
- Stable performance, long life time, low running cost.
- No second pollution, environment friendly
- More than 95% water reuse rate

The plants are uncomplicated and at the same time extremely efficient and reliable. The design makes installation and maintenance relatively easy. All filters can have DIP (Disinfection in Place) for disinfection.

We have the necessary technical experience of Activated carbon filter from countless installations throughout the years.

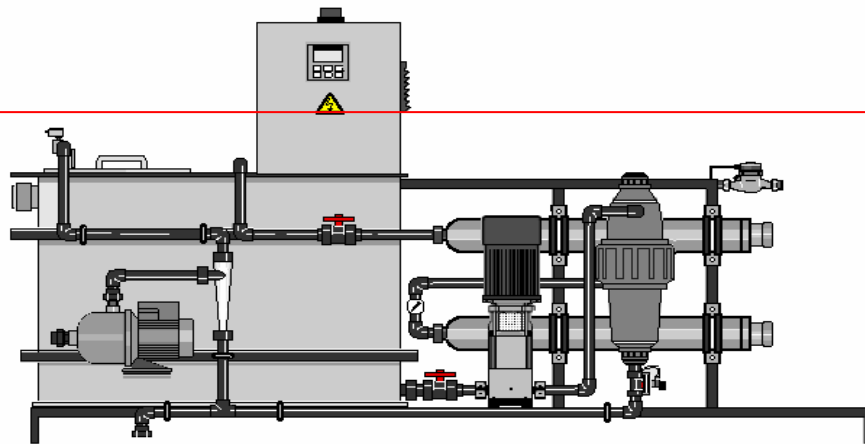
The core technology of the CWRS machine is UF membrane, with the filtration precision of 0.01 μ m. The membrane can remove the particle, bacteria, virus, micro organism from water. In order to protect the membrane and keep the membrane having a good performance and long life time, the hydrocyclone and the disc filter are used as a pretreatment of UF membrane. The hydrocyclone remove big particles and the disc filter polish the feed stream before the ultrafiltration, both having auto back washing function which will not let the dirty accumulated in the system. The unique automatic back washing system assure there is no dirty accumulated in disc filter and UF membrane, keeping the system having a good function.

The car washing water is collected in a water tank, after air bubbling to remove the oil, three stage settlement, the water is pumped into the system. In order to avoid the big hard particle such as sand, entering the pump, the pump is placed on a platform above the bottom of the tank with 50 cm, below the water with at least 50 cm. The water is pumped to hydrocyclone follow disc filter, the hydrocyclone and the disc filter reject the dirt with the size not more than 10-15 μ m, the filtrated water enter the UF membrane separation part. The UF membrane retains the particle, bacteria, virus, micro organism from passing through the membrane. The water without particle, bacteria, virus, micro organism coming from the membrane is collected in a clean water tank for washing car. After a certain time, when the surface of the disc filter or UF accumulate a certain quantity of dirty, the back washing system start to wash the disc filter or UF. The disc filter and UF membrane then become clean again.

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ProFilter[®] ECO-CWRS-50 Economical Recycling System 100 to 200 l/min



This stand type ECO-CWRS-50 units range represents the TreatMent[®] standard model for modern water recycling. Equipped with the latest generation of ultrafiltration membranes, these plants achieve maximum water saving up to 95% at low energy consumption, so ensuring reduced investment and running costs. The low operating pressures allow the use of cost-effective PVC pipework on these systems.

In addition, these plants are available with integrated semi-automated cleaning systems and a filtrate and raw water flushing option.

The ECO-CWRS-50 stand type mounting 100-200 l/h range was designed for the following values in the feed water:

- a. Total Suspended Solids ≤ 10000 mg/L
- b. pH 3-12
- c. Oil and Grease ≤ 200 mg/L
- d. Petroleum Based Oil and Grease ≤ 200 mg/L
- e. BOD Biological Oxygen Demand ≤ 500 mg/L

* differing parameter affects the performance data accordingly

Unit design:

- 1 Self-cleaning cyclone filtration.
- 1 disk filter with automatic backwash
- 1 ultrafiltration membrane
- 1 pp flotation tank with air diffusers
- 1 set of valves manifold according to order standard.
- 1 electronic commander Spc type or plc
- 1 complete piping with operated valves, pressure gauge, sampling valve and media

Pre-filter treatment : hydrocyclone followed by disk filter with 10 μ m filter and 2 pressure gauges.

Valves and instruments: solenoid valve 3/2 pneumatically or hydraulic operated.

Microprocessor control system: Solid state microprocessor

Stand type: For recycling of carwash water according to international water regulations. Operating on principle of flotation, aeration with ultrafiltration. These units include the water pretreatment components.

Frame design: Stainless steel base frame with plastic front panel to house the instruments and controls.

Pipe separator: According to DIN

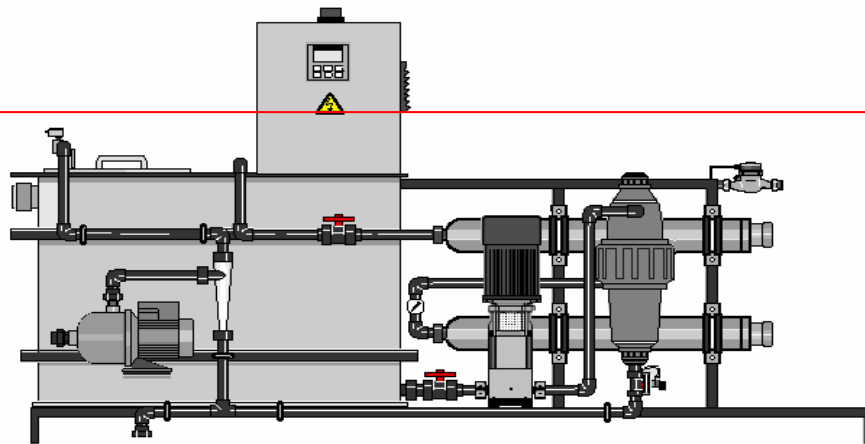
Uf pressure pump: Low noise, Multi stage Centrifugal stainless steel 316L

Valves and instruments: Including feed water sampling valve, solenoid inlet valve, feedwater pressure switch, permeate and concentrate flow meter, vibration-resistant pressure gauges for pump and concentrate pressure stainless steel valve for adjustment of permeate, concentrate and concentrate recirculation flow rate.

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ProFilter[®] ECO-CWRS-50 Economical Recycling System 100 to 200 l/min



Process

Preparation for installation

In order to maintain the machine having a good performance and long lifetime, such as stable flux, less problems, it is necessary to install an air bubbling oil removal system and three stage settlement panels. The air bubbling oil removal system consists of a air bubbling disc and compressed air supply pipe. The compressed air is supplied to the disc through the air pipe, becoming micro air bubbles to remove the oil in the water to be accumulated on the top of water. The oil on the top water is to be removed by operator. The oil in water has a bad effect on the performance of UF membrane, hence it is necessary to remove it before hand.

Optional features:

- Low pressure shut-off switch
- Products water flow meter
- Waste water flow meter
- Waste recycle valve
- Waste recycle flow meter
- Aeration diffusers
- Prefilter pressure gauges
- Repressurization system
- Storage tank
- Uv sterilizer
- TDS monitor
- air compressor
- pH meter
- Plc control
- process meter
- integrated Cleaning system

Applications:

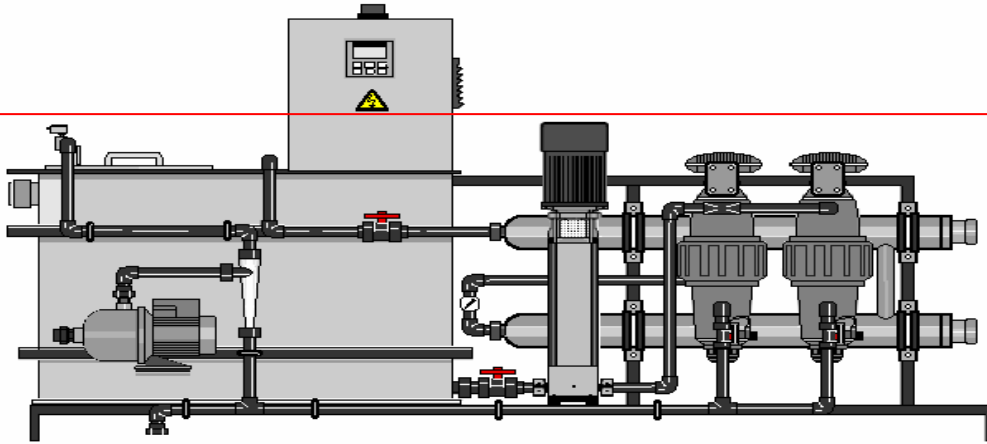
- Car Wash manual
- Car Wash tunnels
- aircraft
- train/tram
- truck
- containers

Permeate flow rate		Dimensions (mm)			Weight	Permeate concentrate connection	Element Size	Motor power
Gpd	Lpd	Height	Length	Width	Kg	DN	(inches)	Kw
317	1200	1650	600	600	60	20	4	1
634	2400	1650	600	600	70	20	4	1.25
952	3600	1650	600	600	90	20	4	1.50
1270	4800	1650	600	600	115	20	4	2

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ProFilter® CWRS-100 recycling System 200 to 600 l/min



This stand type ECO-CWRS-100 units range represents the TreatMent® standard model for modern water recycling. Equipped with the latest generation of ultrafiltration membranes, these plants achieve maximum water saving up to 90% at low energy consumption, so ensuring reduced investment and running costs. The low operating pressures allow the use of cost-effective PVC pipework on these systems. In addition, these plants are available with integrated semi-automated cleaning system and a filtrate and raw water flushing option.

The ECO-CWRS-100 stand type mounting 200-600 l/h range was designed for the following values in the feed water:

- a. Total Suspended Solids ≤ 10000 mg/L
- b. pH 3-12
- c. Oil and Grease ≤ 200 mg/L
- d. Petroleum Based Oil and Grease ≤ 200 mg/L
- e. BOD Biological Oxygen Demand ≤ 500 mg/L

* differing parameter affect the performance data accordingly

Unit design:

- 1 Self-cleaning cyclone filtration.
- 2 disk filter with automatic backwash
- 2 ultrafiltration membrane
- 1 pp flotation tank with air diffusers
- 1 set of valves manifold according to order standard.
- 1 electronic commander Spc type or plc
- 1 complete piping with operated valves, pressure gauge, sampling valve and media

Prefilter treatment : hydrocyclone follow disk with 10 μ m filter and 2 pressure gauges.

Valves and instruments: solenoid valve 3/2 pneumatically or hydraulic operated.

Microprocessor control system: Solid state microprocessor

Stand type: For recycling of carwash water according to international water regulations. Operating on principle of flotation, aeration with ultrafiltration, these units include the water pretreatment Components.

Frame design: Stainless steel base frame with plastic front panel to house the instruments and controls.

Pipe separator: According to DIN

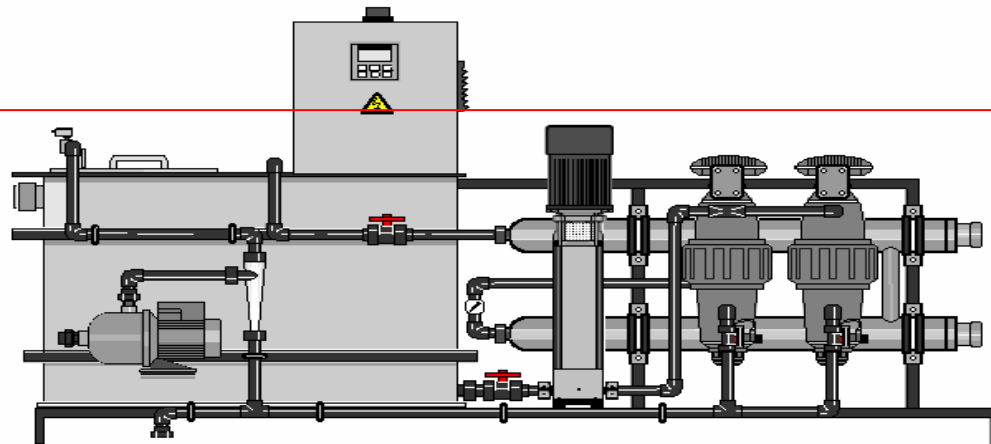
Uf pressure pump: Low noise, Multi stage Centrifugal stainless steel 316L

Valves and instruments: Including feed water sampling valve, solenoid inlet valve, feedwater pressure switch, permeate and concentrate flow meter, vibration-resistant pressure gauges for pump and concentrate pressure stainless steel valve for adjustment of permeate, concentrate and concentrate recirculation flow rate.

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ProFilter® CWRS-100 recycling system 200 to 600 l/min



Process

Preparation for installation

In order to maintain the machine having a good performance and long lifetime, such as stable flux, less problems, it is necessary to install an air bubbling oil removal system and three stage settlement panels. The air bubbling oil removal system consists of a air bubbling disc and compressed air supply pipe. The compressed air is supplied to the disc through the air pipe, becoming micro air bubbles to remove the oil in the water to be accumulated on the top of water. The oil on the top water is to be removed by operator. The oil in water has a bad effect on the performance of UF membrane, hence it is necessary to remove it before hand.

Optional features:

- Low pressure shut-off switch
- Products water flow meter
- Waste water flow meter
- Waste recycle valve
- Waste recycle flow meter
- Aeration diffusers
- Prefilter pressure gauges
- Repressurization system
- Storage tank
- Uv sterilizer
- TDS monitor
- air compressor
- pH meter
- Plc control
- process meter
- integrated Cleaning system

Applications:

- Car Wash manual
- Car Wash tunnels
- aircraft
- train/tram
- truck
- containers

Permeate flow rate		Dimensions (mm)			Weight	Permeate concentrate connection	Element Size	Motor power
Gpd	Lpd	Height	Length	Width	Kg	DN	(inches)	Kw
1587	6000	1650	600	600	60	20	4	1.2
3174	12000	1650	600	600	70	20	4	2.2
4762	18000	1650	600	600	90	20	4	2.2
6349	24000	1650	600	600	115	20	4	2.2
7936	30000	1650	600	600	130	20	8	2.2

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