

# CAR WASH

WATER TREATMENT SOLUTIONS

www.pentairaquaeurope.com

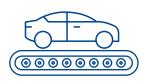
# Car wash

# NORMS AND REGULATIONS

In the past, the majority of people washed their car at home. Nowadays, most European countries have regulations restricting these practices, largely due to environmental reasons.

These regulations represent an important step forward towards water conservation. First of all, by promoting car washing by professional methods (conveyors, roll-over, self-service) that require less water consumption and, secondly, by encouraging professionals to use the most optimal methods of water treatment.

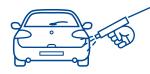
## MAIN TYPES OF CAR WASH FACILITIES



**CONVEYORS** A conveyor moves the vehicle through a series of fixed cleaning mechanisms.



**ROLL-OVER** An automatic washing machine and dryer rolls back and forth over a stationary vehicle.



SELF-SERVICE Self-service facilities, generally coin-operated, where the car owner does the washing, including pressurized "jet washing".

# **BENEFITS OF CAR WASH WATER TREATMENT**

#### **Recycle treated water for reuse**

- Decreased water bills
- Contribues to a more sustainable planet
- In certain EU countries, fiscal incentives are granted to companies that are environmentally conscious
- Car washes equipped with a water recycling system impacted less by water scarcity

#### Soft water for cleaner cars & happy customers

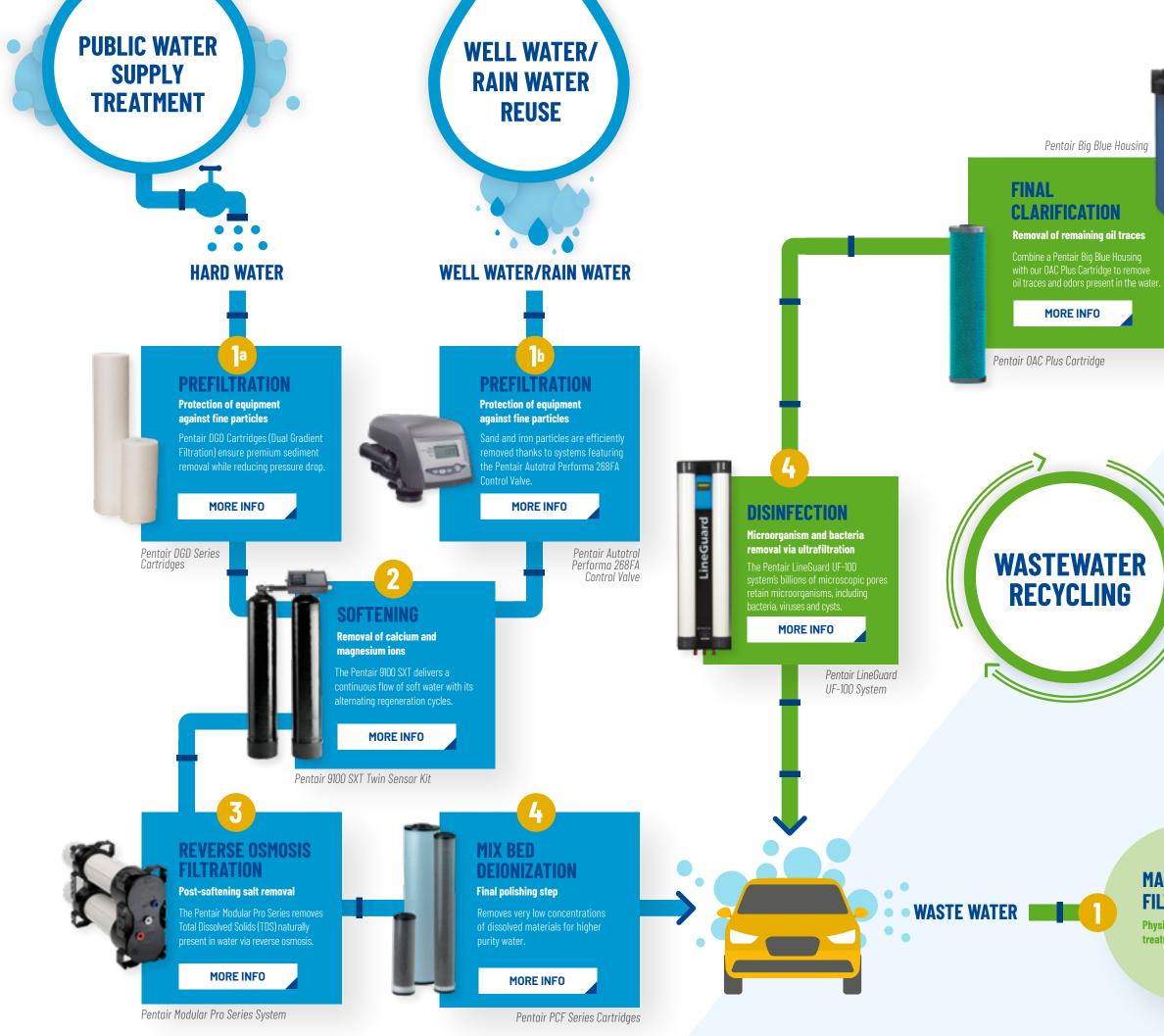
- Reduce white spots on cars due to hard water
- Improved efficiency of cleaning products save money with less detergent use
- Foam rinses more quickly which helps save water
- Reduced scaling protects and extends the lifetime of car washing equipment

# WATER TREATMENT PROCESS IN A CAR WASH

The next page represents how Pentair products provide car wash system owners with benefits through **two main channels**: waste water recycling and hard water treatment.

This is a good example how Pentair envisions the ideal car wash\*.

\*Subject to changes due to local legislation.



CAR WASH WATER TREATMENT SOLUTIONS



Pentair Liquid Filter Bags

## **MICROFILTRATION**

#### Removal of remaining suspended solids

Pentair housings and bags are an easy cost effective solution against finer suspended particles down to 1 micron (size of a flour grain).



Pentair Big Blue Vessels

MACRO FILTRATION

V

Physico-chemical treatment and screening



**179'000** 

car washes in Europe

cars in Europe (2016 data)

Average frequency of commercial car washing per car:

a vear

times

# 7.3 billion € of car wash retail sales in Europe; CAGR of 5.5%

# **CURIOUS FACTS ABOUT NORMS**

- Switzerland, Germany and The Netherlands are some of the countries that forbid car washing at home.
- Austria requires car wash companies to recycle at least 80% of the water used.
- Eco-labels are starting to appear in The Netherlands, Scandinavia and Germany, with the aim to recycle 80% of the water used. These limitations also impact both the amount of fresh water consumed in an automatic car wash, and also the flow to 7 Lpm for self-service car washes.

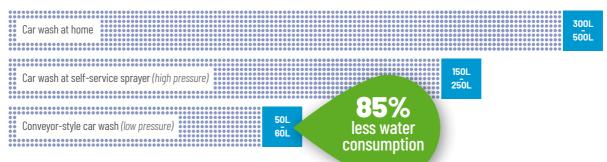
Softened water use helps reduce car wash soap consumption by

50%

# Did you know?

Over a 5-year period, the water saved by using a commercial self-service sprayer versus car washing at home is 17'500 liters (per car-owning household).

## AVERAGE WATER PER WASH (IN LITERS)



#### About us

At Pentair, we believe the health of our world depends on reliable access to clean water. We deliver a comprehensive range of smart, sustainable water solutions to homes, business and industry around the world. Our industry leading and proven portfolio of solutions enables people, business and industry to access clean, safe water, reduce water consumption, and recover and reuse it. We help ensure water is clean when returned to the environment. Whether it's for fitness and fun, healthier homes, better flood control, safer sky rises, more sustainable ways to farm, or safe drinking water for those who need it most, we won't stop until the world's water is managed the best way possible.

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#### Sources

C. BROWN, "Water use in the professional car wash industry", A report for the International Carwash Association, September 2002 "How do I handle my professional car wash wastewater?", Illinois Environmental Protection Agency, July 2002 R. ZANETI, R. ETCHEPARE, J. RUBIO, "Car wash wastewater reclamation. Full-scale application and upcoming features", in Resources, Conservation and Recycling, 2011

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