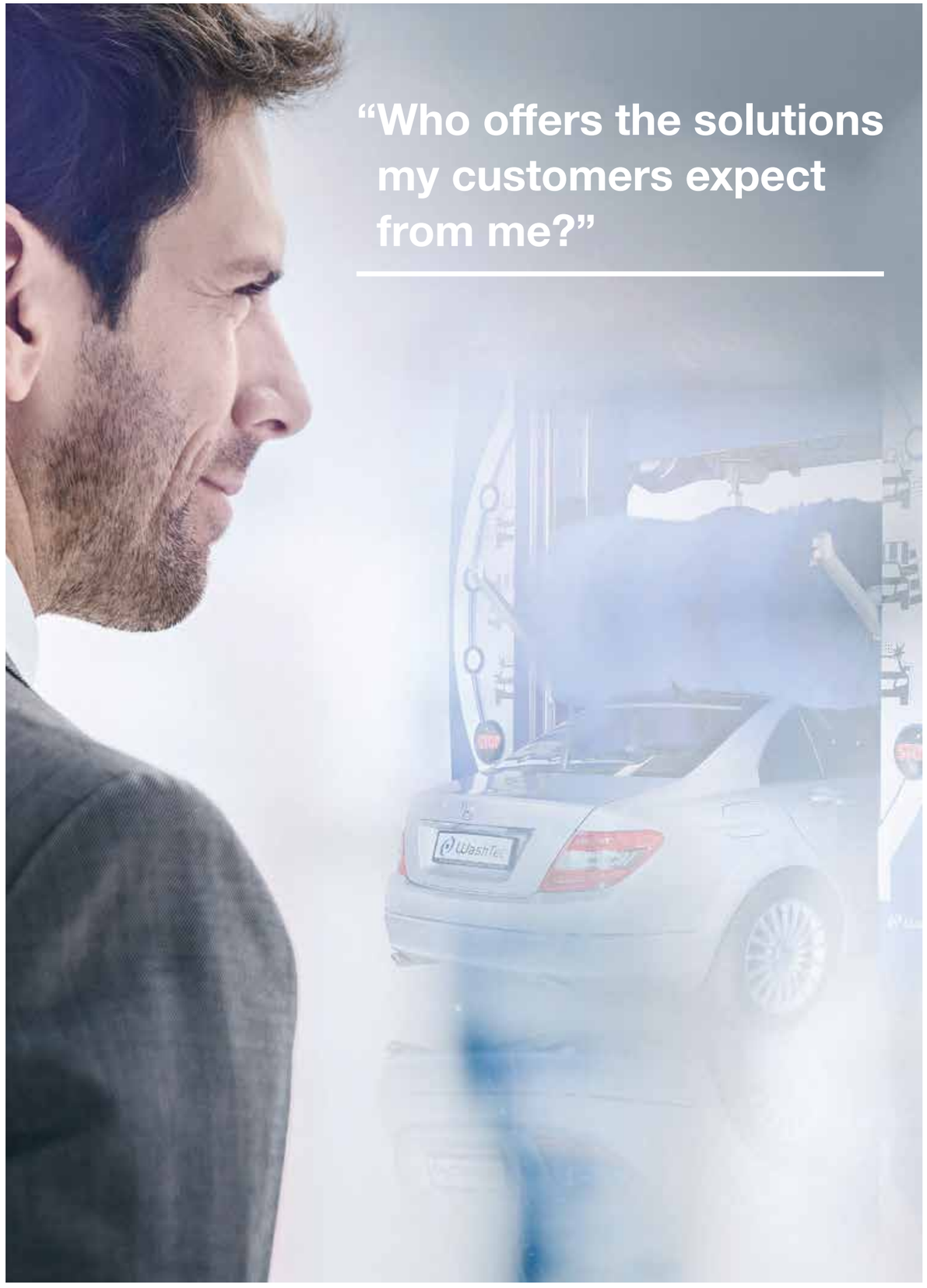
“How do I effectively reduce the operating costs of my car wash?”

With sustainable water treatment solutions.

www.washtec.com

WashTec



WashTec gives you answers for your business.

The car wash business is a demanding one. No one knows this better than WashTec: As the creator of the gantry car wash system, we revolutionized the car wash market – and have continued to drive it forward for more than 50 years. We provide highly efficient washing technology, chemistry that complements it and comprehensive services for you as the operator.

Our approach:
In everything we do, we focus on more than just perfect results. Our main focus is people. Everyone expects a clean car from any car wash. We think the experience is much more important:

We recognise needs.
Because we listen carefully to what your customers want – just as much as we listen to your needs as an operator.

We fulfil expectations.
Our solutions are consistently based on requests and expectations – and even exceed these.

We support your business.
With car washing experiences and results that will delight your customers – and transform them into loyal regular customers.

We increase your efficiency.
With more robust, low-maintenance, durable technology and high-yielding washing chemicals for maximum returns with minimal costs.

“How can I benefit from water treatment?”

To put it simply: cash. And it’s completely flexible.

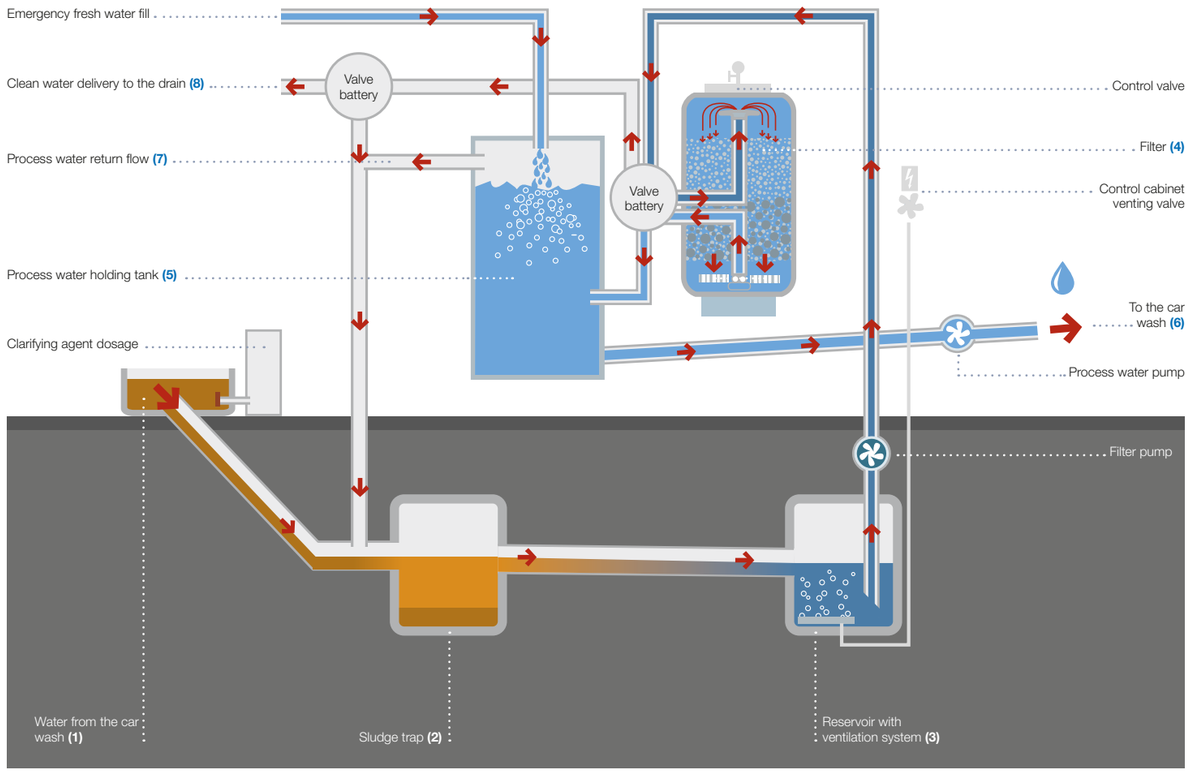
- **Reduced operating costs**
  Investing in a water treatment system pays for itself: When you treat used water and use it again, you save a lot of money.
- **Simple handling**
  Water recycling doesn’t create extra work for you:
  The systems are low-maintenance, reliable and user-friendly.
  They are also self-cleaning.
- **Fits everywhere – even in the smallest spaces**
  Compact and modular construction provides variable installation concepts: The WashTec systems are space-saving and offer a high level of flexibility.
- **Guaranteed to be odourless**
  Water treatment does not release odours: Our aerator systems reliably prevent odour emissions.

Clean efficiently and profitably with **AquaPur.**

Thanks to AquaPur, you can save a record-breaking amount of water. Nearly 100 percent of water used for washing is recycled. Efficiency and reliability are the main factors here. Up to 600 washes per month are possible without adding chemicals. This additionally reduces your costs.

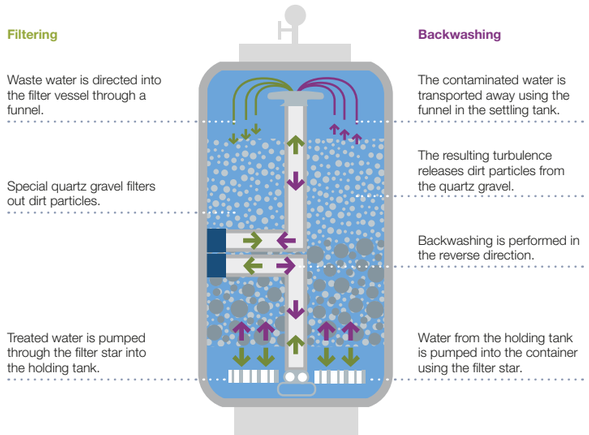
AT A GLANCE

- **Water recycling: nearly 100%**
- **Water flow: 4 m³/h**
- **Treatment method: physical, chemical-free up to 600 washes/month**
- **Design: compact**
- **Design approval Z-83.3-24**
- **Ideal for: operators with an efficiency-oriented approach**



AquaPur process sequence

The water from the car wash **(1)** flows towards the sludge trap **(2)** into a reservoir with an aerator system **(3)** that reliably prevents odour emissions. The pre-treated water is pumped through a special filter made of quartz gravel that is partly coarse and partly fine **(4)**. The treated water then continues to flow into the process water holding tank **(5)**. From the holding tank, the water is pumped into the car wash **(6)**. The system self-cleans itself by backwashing. Water is pumped back through the filter from the bottom to the top. Backwash water and initial filtrate are directed into the settling basin for sedimentation. During washing breaks, the process water circulates via the circulation line **(7)**. Excess water is directed into the sampling drain or the sewage system **(8)** for disposal (operation according to Appendix 49 of the waste water regulations).

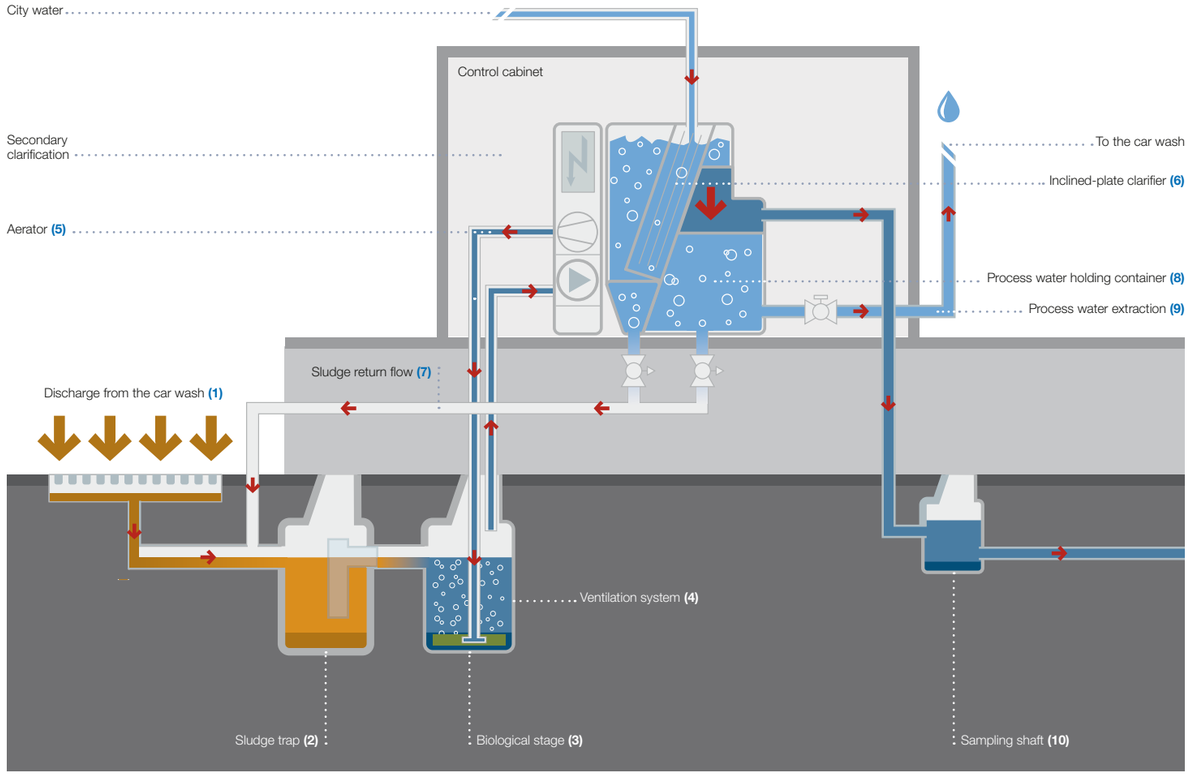


Effective, environmentally friendly cleaning with **AquaBio®**.

AquaBio® is a fully biological treatment method. With the help of micro-organisms, the so-called “organic-film process” transforms waste water materials into substances naturally found in the body and carbon dioxide. All without chemicals, which also means with no additional cost for you. The reclamation ratio is convincing at 95 per cent.

AT A GLANCE

- **Water recycling: up to 95%**
- **Water flow: 4.5 m³/h**
- **Treatment method: biological**
- **Design: compact, variable installation concept**
- **Design approval Z-83.1–12**
- **Ideal for: environmentally aware operators**



AquaBio® process sequence

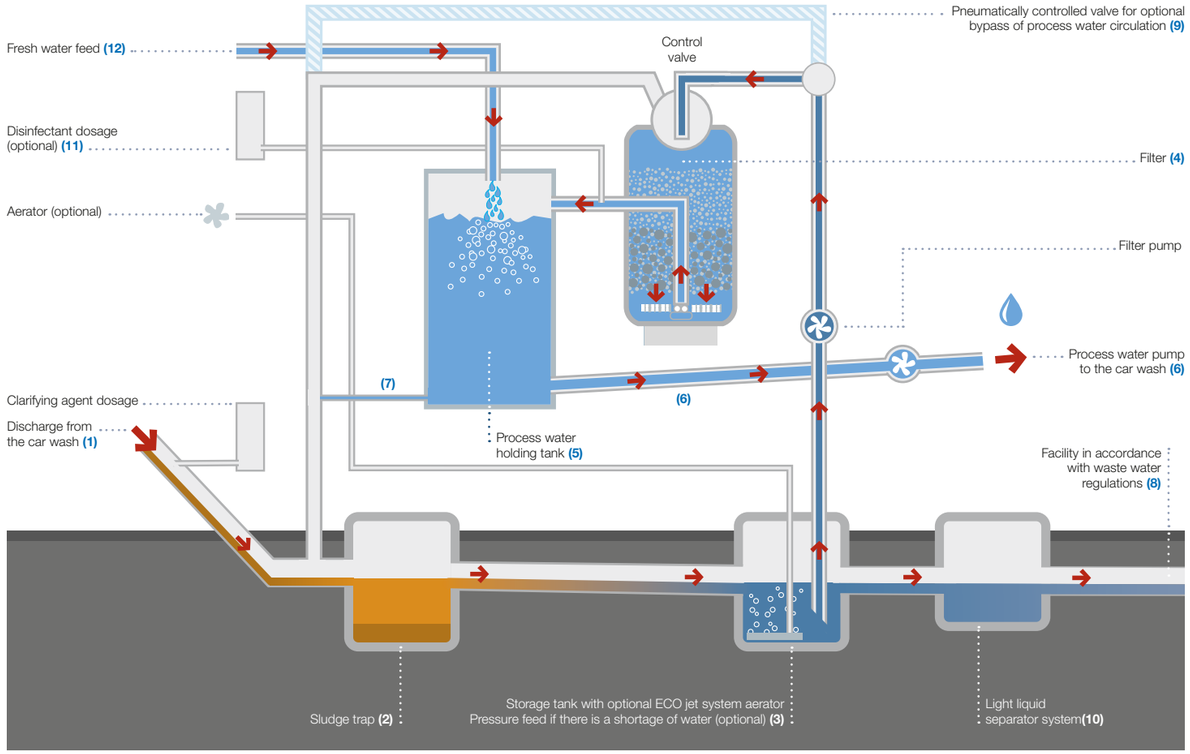
The water from the car wash **(1)** flows toward the sludge trap **(2)**, which serves as a preliminary sedimentation step during the biological stage **(3)**. This is then transformed into an organic reaction tank using an aerator system **(4)** and by introducing a substrate. Within a short period of time, powerful micro-organisms begin to work. Hydrocarbons, cleaning agents and organic materials are separated from the car wash waste water. An aerator **(5)** ensures that the required amount of air is present. The biologically treated water is pumped into the inclined-plate clarifier **(6)**, a purifying lamella separator. Water with a portion of surplus sludge flows through the inclined-plate clarifier. Sludge particles sink to the bottom onto the lamella and are periodically directed into the sludge trap **(7)**. The water, which is treated in three steps, then continues to flow into the process water holding tank **(8)**. From the holding tank, the water is pumped into the car wash **(9)**. Excess water is directed into the sampling drain or the sewage system **(10)** for disposal (operation according to Appendix 49 of the waste water regulations).

MF gravel filter – the filter for everything big and small.

The MF gravel filter can handle extreme loads. It can even handle highly frequented car washes or those used for cleaning commercial vehicles. In the process, it is still able to recycle up to 85 percent of the water used for washing. The MF gravel filter treats water physically – with a course and a fine layer of gravel.

AT A GLANCE

- **Water recycling: up to 85%**
- **Water flow: four models from 10 to 40 m³/h**
- **Treatment method: physical, chemical-free up to 600 washes/month**
- **Design: compact and modular**
- **Approved versions**
- **Ideal for: facilities with high throughput**



MF gravel filter process sequence

The water from the car wash **(1)** flows towards the sludge trap **(2)** into a reservoir with an aerator system **(3)** that reliably prevents odour emissions. The pre-treated water is pumped through two filters **(4)**, one made of coarse and one of fine gravel. The treated water then continues to flow into the process water holding tank **(5)**. From the holding tank, the water is pumped into the car wash **(6)**. During washing breaks, the process water is put into circulation via the circulation line **(7)**. Excess water is directed into the sampling drain or the sewage system **(8)** for disposal (operation according to appendix 49 of the waste water regulations). To prevent odours from building up during washing breaks (nights, weekends), a circulation line **(9)** (bypass process water circulation) can be integrated. Separation and capture of light materials occurs in the light liquid separator **(10)**.

The MF gravel filter modular system: Your options

- Version with fewer chemicals **(9)**
- Chemical-free version
- System in accordance with waste water regulations **(8)**
- Removable basin strainer (recommended when textiles are used as washing materials)
- Disinfectant dosage **(11)**
- Fresh water pressure feed **(12)**
- Basin aeration with ECO jet system **(3)**, manual (MFM) or automatic (MFA) backwash unit.

Car washing goes by the name WashTec. The world over.



More than **35,000** machines installed.

Worldwide, **2,75 million vehicles a day** are washed with WashTec!

In more than **70** countries.

More than **1,700 employees** are shaping the future of the wash business with us, including more than **600 service technicians.**

Over **50** years of innovation leadership.

We set the standards in the **car wash business** – and proactively drive the market forward.

Our own car wash chemicals by **AUWA**.

Perfectly matched to our systems and to the needs of operators and end users.

www.washtec.com

Certified by Forest Stewardship Council

VDA compliance: WashTec systems technology and washing chemicals are VDA-compliant.

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