

→ Water recovery for high washing levels

**MF Gravel Filter**



 **WashTec**

***MF Gravel Filter - efficient water recovery  
for conveyor tunnel wash and  
commercial vehicle wash facilities.***



**The WashTec Gravel Filter produces economically clean process water:**

- The water quality meets the specification for vehicle washing facilities in all respects
- Your investment will pay off quickly because operating costs are lower (up to 85% of process water can be recovered)
- Minimal maintenance required
- Extremely reliable
- Easy to operate

# The MF range of gravel filters – water recovery that has been proven in practice

The MFM/MFA range of water recovery systems will not only reduce your water consumption but also, in particular, cut your running costs. Up to 85% of the process water can be recovered, using the minimum amount of chemicals. The low level of maintenance required means that this system is user-friendly too.

The water flow through the system is 10-40 m<sup>3</sup>/hour, depending on capacity level. In combination with a flocculant, the system filters out solids down to 50 micrometers in size. The filter material does not need to be replaced. The modular design, with its variable supply tanks and pressure booster pumps, allows the water recovery system to be configured for any purpose.

### Options

- Low-chemical version with process water revitalising circulation (process water bypass)
- Chemical-free design
- Removable storage tank suction strainer (recommended if textile washing materials are used)
- Anti-bactericidal product dosing
- Automatic infeed of fresh water if there is insufficient water in the storage tank

## MFA System



The control head of the automatic back-rinsing devices ensures that the filter is regularly rinsed through automatically.

## MFM System

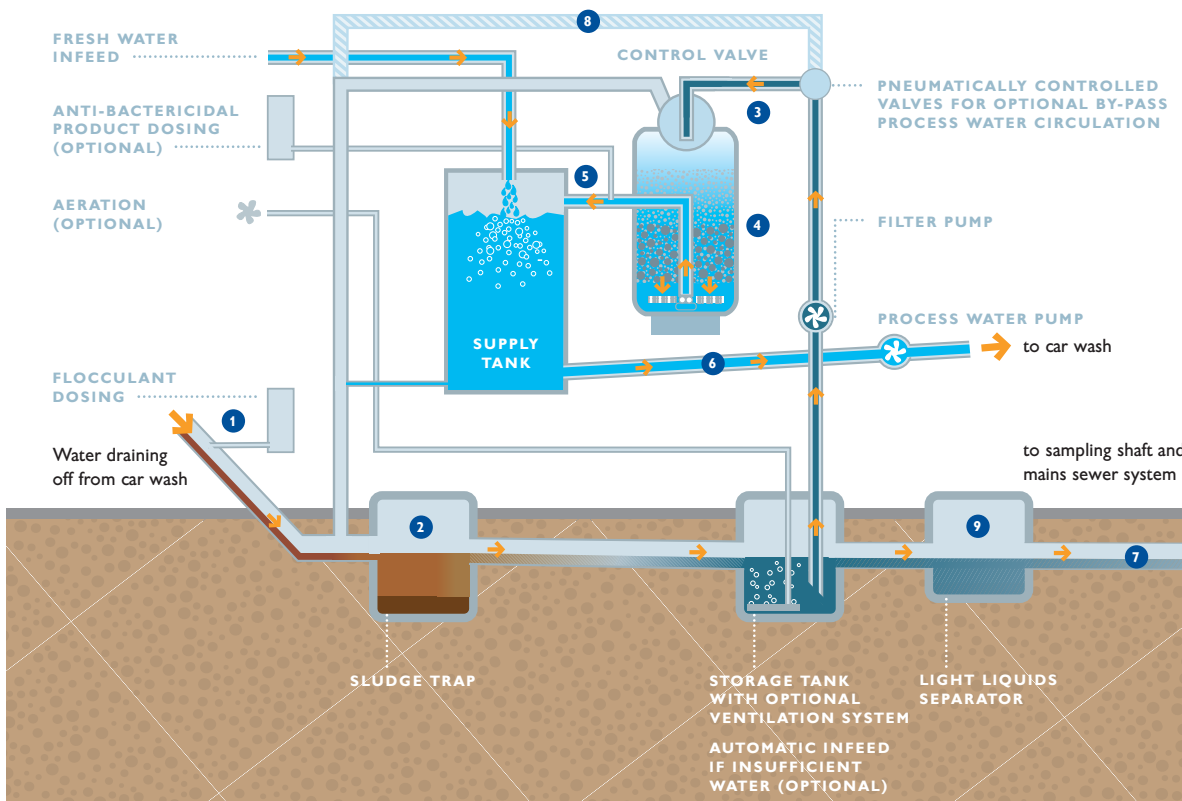


The central control valve of the manual back-rinsing device means that the filter can be easily rinsed through in a short time.

### Technical data

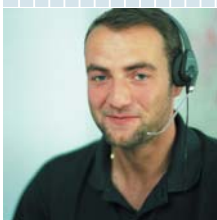
		MFM/A 10	MFM/A 20	MFM/A 30	MFM/A 40
Electrical connection value	V/kW	400/1.7	400/2.2	400/2.6	400/3.2
Process water capacity	max	10m <sup>3</sup> /h	20m <sup>3</sup> /h	30m <sup>3</sup> /h	40m <sup>3</sup> /h
	min	7.5m <sup>3</sup> /h	15m <sup>3</sup> /h	22m <sup>3</sup> /h	30m <sup>3</sup> /h
Space required for filter system, W x D	cm	100 x 150	100 x 170	150 x 200	150 x 200
Process water tank W x D x H	cm	270 x 75 x 200	270 x 75 x 200	270 x 75 x 200	270 x 75 x 200
Minimum sludge trap volume	m <sup>3</sup>	2 x 8	3 x 8	3 x 10	4 x 10

## The filtration cycle - this is how dirt is removed and fresh water saved.



- 1 The waste water from the vehicle wash is taken to the water recovery system and a flocculant is added.
- 2 Solids are separated out and removed in the sludge trap.
- 3 The pre-cleaned water is then pumped from the storage tank into the filter.
- 4 During filtration, the water flows through one fine and one coarse layer of gravel.
- 5 The water, from which solids have been removed, flows into a supply tank.
- 6 From the supply tank, the water is pumped to the car wash.
- 7 Excess water is taken to the sampling shaft and/or sewer system for disposal.
- 8 To prevent the formation of odours if the car wash is not used for some time (at night, weekends), a circulation pipe (process water bypass) can be integrated as an option.
- 9 Light liquids are separated out and removed in the light liquids separator.

# The “World of WashTec” has everything for your success.



- **Comprehensive range:** The right solution for your washing business can always be found.
  - **Roll-over car washes** for low, medium and high washing volumes
  - **Conveyor tunnel systems** with modular design for all sizes and all requirements
  - **Commercial vehicle washes** for washing companies and in-house requirements
  - **Self-service washing equipment** with modular design for all needs and different location sizes
  - **Water treatment** – chemical-free and environmentally friendly
- **Rapid service** 250 engineers in the field throughout Germany – **always in your neighbourhood.**
- **Customized financing plans:** We will promote your business at attractive conditions.
- **Reliable experience:** Innovative car washing technology for more than 40 years. **More than 2 million cars are cleaned in WashTec washing facilities every day.**
- **Value for money services:**
  - **Site analysis** for optimum sizing of your business
  - **Cost-effectiveness calculations** help with your planning
  - **Sales training for staff** increases revenue
- **Tested quality** EN ISO 9001, 14001 certification – for your safety.