



comprex»
Pulse3000

High-performance cleaning
for water piping systems: efficient,
non-invasive, cost-optimized

Comprex

Handbrake
Stopp
Kraft
Motor
Wahl



Kessel befüllen
Kessel entleeren
Kesseldruck
Impulsdruck
Netzdruck
Handbremse
Handbremse



Beleuchtung
Rückfahrleuchte
Bordspannung
Manuelle Druck
Manuelle Druckbetätigung
Kesselwahl
Schnittstelle
Steckdosen
Rundumkennleuchte



Efficient. Sustainable. Ready to go.

comprex® Trailer Pulse3000.

Engineered in Germany. Made in USA.

A clean water supply is critical ...

... but over time, unwanted deposits build up in nearly every pipeline, whether for raw water, drinking water, or wastewater.

The consequences?

Reduced flow, higher energy costs, and expensive repairs.

No chemicals. No invasive methods. Just results.

This mobile unit is fully self-sufficient and easy to operate — delivering fast, gentle, and validatable cleaning for:

- › Water extraction
- › Water distribution
- › Wastewater disposal
- › Wastewater treatment

**Switch to the clean solution.
Switch to comprex.**



The comprex Trailer Pulse3000 offers a smarter way to clean.

With precision air-water pulses, it removes:

- › Iron deposits
- › Manganese slurry
- › Biofilm
- › Lime scale
- › Sand & gravel

Your benefits at a glance:

- › Ensure reliable water quality
- › Extend infrastructure lifespan
- › Prevent costly damage
- › Reduce energy and maintenance costs

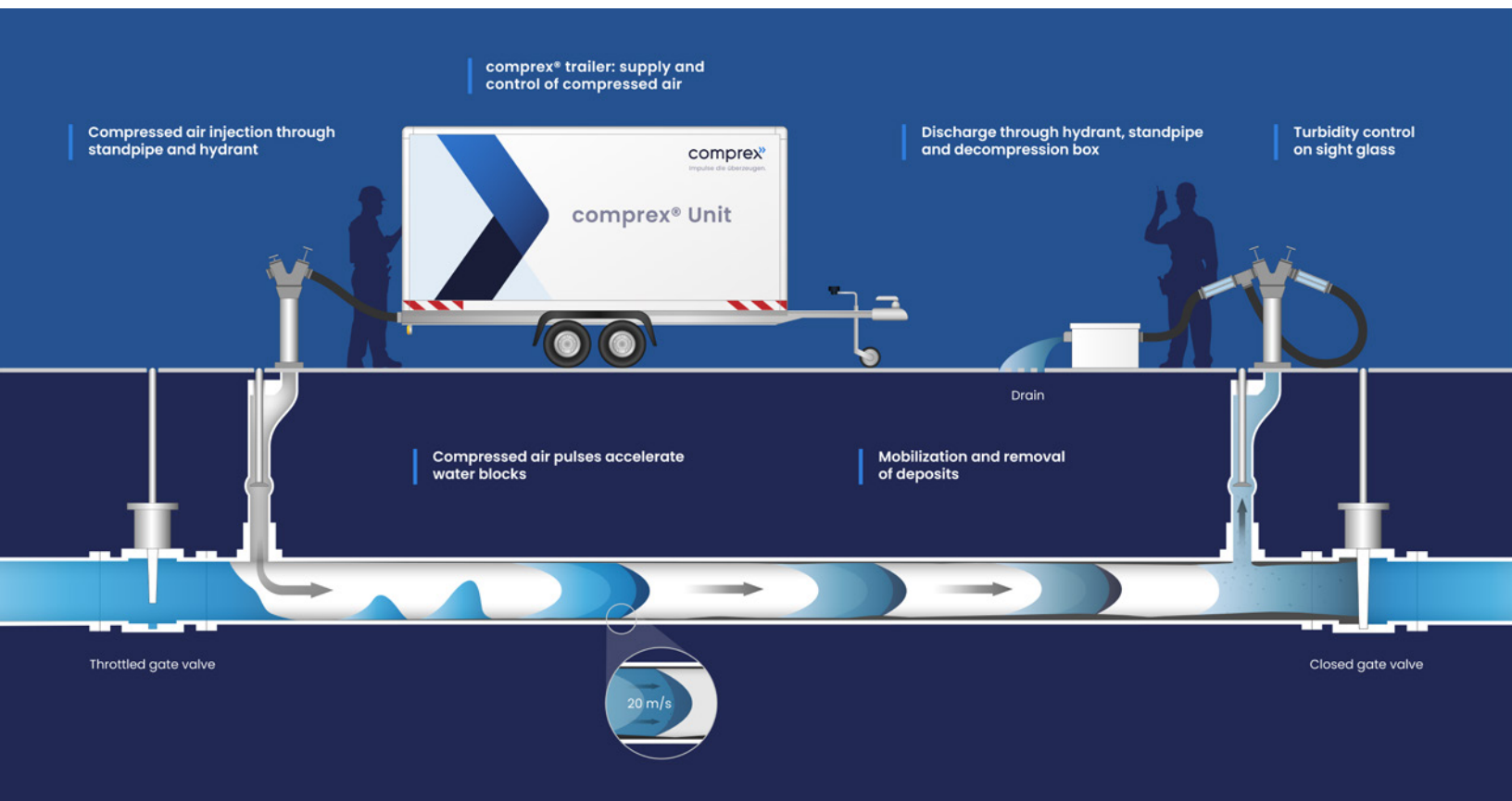
We have years of experience in the municipal sector

complex in water piping systems – how it works!

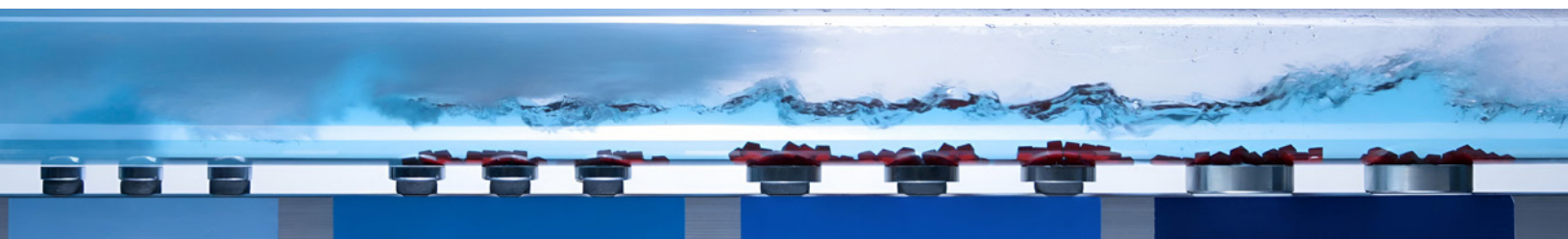
The pipeline to be cleaned is divided into sections and worked through systematically. Filtered compressed air is pulsed into the pipe via a defined inlet, where it interacts with a stream of reduced rate of water flow. This forms high-speed air-water pulses that travel through the pipe at up to 44 mph.

These dynamic pulses create intense turbulence and strong shear forces, effectively mobilizing and flushing out deposits – from iron and manganese to biofilm and sand – through a designated outlet.

The result: reliable cleaning with minimal water use, no chemicals, and maximum system protection.



Experience the impressive cleaning effect of our patented complex cleaning process in this video!



What you get from us

Why invest in complex Pulse3000?

- › **Save up to 90% water and time** compared to conventional water flushing
- › Bring the concept of **preventive maintenance** to your water piping systems in your region
- › Be amongst the first to introduce the tried and tested **complex innovation from Germany** in your country
- › Prevent very expensive pipeline replacements or repairs through **preventive cleaning** using complex
- › Ensure **clean drinking water** and thus ensure the **satisfaction of your residents**
- › **Additional use cases** such as for raw and wastewater pipelines, wastewater treatment plants

Technical highlights of the complex Trailer Pulse3000.

- **Total weight:** approx. 7,700 lbs
- **Dimensions:** 18.7 ft (L) × 6.9 ft (W) × 8.5 ft (H)
- **Diesel compressor:** 124 cfm air output at 145 psi
- **Air reservoir capacity:** approx. 116.6 ft³
- **Triple air filtration:** particle residue < 0.01 micron, oil content < 0.003 ppm
- **Noise level:** approx. 72 dBA
- **Air pulse outlet size:** 2-inch
- **Integrated control cabinet** with all required complex units
- **Touchscreen-operated on-board computer** for full system control
- **Cleans pipelines up to 14 inches** and **0.6 miles** in a single shift
- **Multiple Pulse3000 units** can be combined to clean pipelines **up to 48 inches**



Experience you can trust

comprex Pulse3000 – proven in practice.

comprex delivers impressive results – and requires only air and water.



Watch the video to see the amount of dirt complex is capable of removing from water piping systems

44 mph

maximum speed of the pulses



>3000

miles cleaned per year

3

decades of experience

“We are grateful to the complex team for providing cleaning services on our drinking water pipelines despite the challenging circumstances of war. We were astonished by the volume of sediments they were able to remove – especially manganese deposits, which had been causing significant water discoloration.”

Volodymyr Bilynskyy, Deputy Chief of Engineer,
Lviv City Communal Enterprise, Ukraine





Get in touch with us!

We will be happy to advise you in a personal meeting - also on the subject of cleaning as a service. Feel free to contact us by phone or e-mail.

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**Continuously pursuing
the next innovation.**

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Find further information
on complex Pulse3000 [» here](#)