



AUTOMATED NON-ENTRY TANK CLEANING

CLIMBEX INDUSTRIAL SOLUTIONS supplies high-pressure equipment and components manufactured in-house globally, providing complete system solutions from a single source.





~ OPTIMUM SAFETY

Safety is one of the key advantages of the non-entry technology from CLIMBEX, makes it unnecessary for personnel to enter the tank. Only the precision cleaning is carried out manually. The use of a mobile nitrogen generator makes it possible to inert tanks at up to 1,500 m³/h. O₂ and LEL values are monitored continuously both before and during the cleaning – if a threshold value is exceeded, the system is switched off automatically. A camera also monitors and documents the process throughout.

~ FAST CLEANING

The manway cannon can be used to clean tanks holding any liquids – be they water, diesel, gas oil, crude oil or A1 products. This high-performance system works with a cleaning pressure of up to 35 bar and a flow rate of 55 m³/h, allowing it to deliver a thorough cleaning. The highly automated process used ensures consistently good results.

~ CONSTANTLY HIGH EFFICIENCY

The non-entry process from CLIMBEX makes it possible to clean even the largest tanks quickly. The system can be set up in very short time; the cleaning process itself is highly efficient, and takes far less time compared to manual cleaning. This minimises downtimes, saving both time and money.

~ ENVIRONMENTALLY FRIENDLY TECHNOLOGY

The non-entry system from CLIMBEX is self-contained, helping to prevent the release of any toxic gases or emissions. The cleaning is also extremely quiet, making this technology suitable even for those locations that are subject to strict regulations for noise levels, emission limits and odour emissions.

COMBUSTION CHAMBER

- ~ Combustion of > 99.9% organic substances
- ~ Certified by GL, TÜV, DEKRA ...
- ~ Insulated combustion chamber
- ~ Detonation arrester on the tank
- ~ Four-part protection against burn-back
- ~ Elimination of odours and toxic substances
- ~ Degassing tanks ranging from 10 to 110,000 m³ in volume



MANWAY CANNON

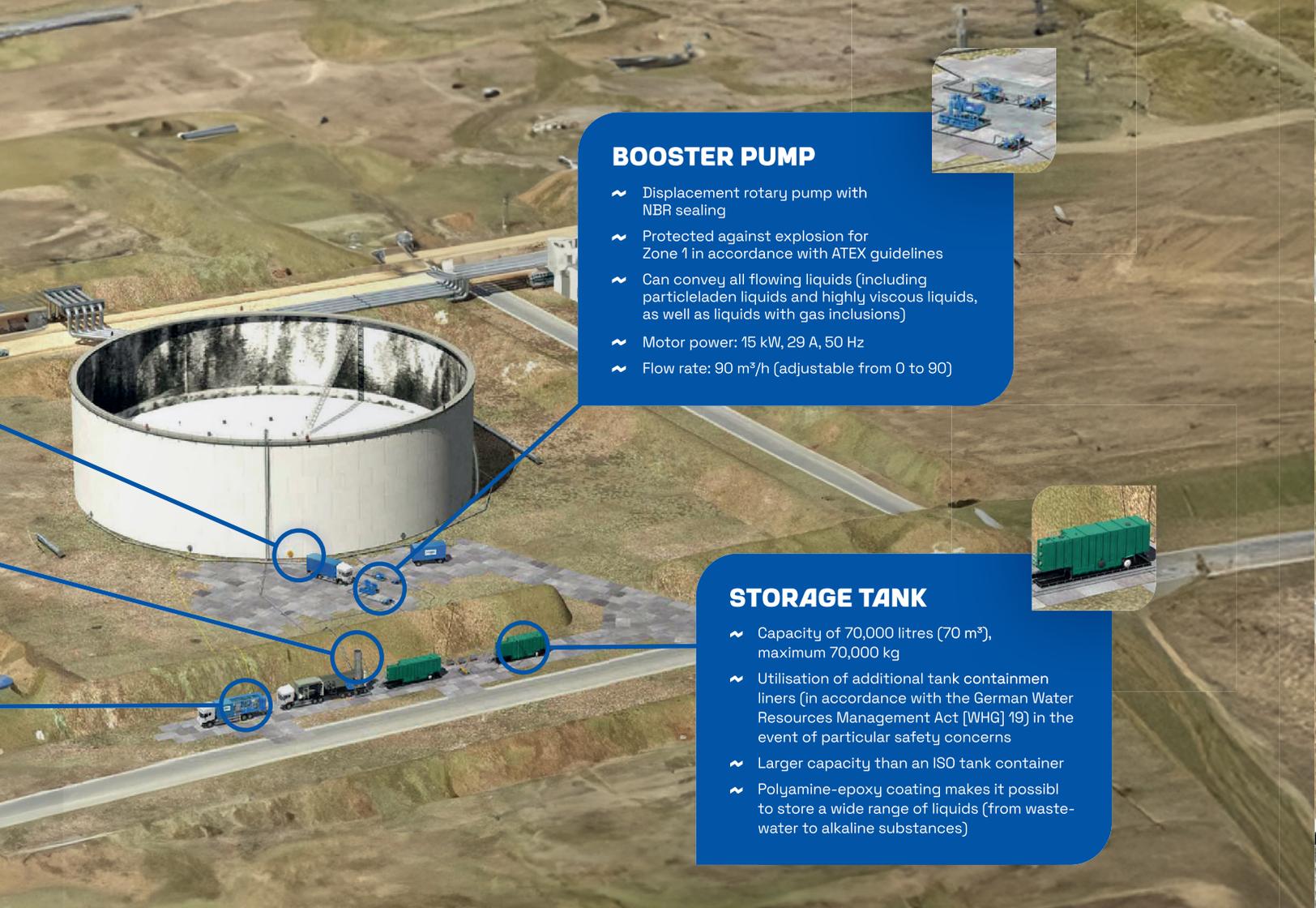
- ~ Flow rate of the cleaning agent: up to 55 m³/h
- ~ All liquids are suitable for use as cleaning agents (heating oil, diesel, water, [light] crude oil, A1 products, etc.)
- ~ Nominal temperature of the medium: 70°C
- ~ Cleaning pressure of up to 35 bar and flow rate of 55 m³/h



MOBILE NITROGEN GENERATOR

- ~ Nitrogen flow: max. 1,500 Nm³/h (8 bar air intake)
- ~ Nitrogen flow: min. 250 Nm³/h (8 bar air intake)
- ~ Nitrogen pressure (buffer tank): up to 1 bar lower than the air intake pressure
- ~ Nitrogen purity: 95% to 99.9%
- ~ Compressed air: max. 8 bar (g)





BOOSTER PUMP

- ~ Displacement rotary pump with NBR sealing
- ~ Protected against explosion for Zone 1 in accordance with ATEX guidelines
- ~ Can convey all flowing liquids (including particleladen liquids and highly viscous liquids, as well as liquids with gas inclusions)
- ~ Motor power: 15 kW, 29 A, 50 Hz
- ~ Flow rate: 90 m³/h (adjustable from 0 to 90)



STORAGE TANK

- ~ Capacity of 70,000 litres (70 m³), maximum 70,000 kg
- ~ Utilisation of additional tank containmen liners (in accordance with the German Water Resources Management Act [WHG] '19) in the event of particular safety concerns
- ~ Larger capacity than an ISO tank container
- ~ Polyamine-epoxy coating makes it possible to store a wide range of liquids (from wastewater to alkaline substances)



AUTOMATED NON-ENTRY TANK CLEANING EQUIPMENT FROM CLIMBEX

Major components of our non-entry tank cleaning technology are mobile units mounted on trucks, which contain the entire cleaning system. The system sets up quickly, with an easily mountable, remote-controlled manway cannon operating at up to 35 bar and 55 m³/h. This allows efficient cleaning of even the largest tanks. Integrated cameras and lights enable process monitoring and control, while explosive gas concentrations are continuously measured.

YOUR BENEFITS:

Fast, clean and efficient cleaning and optimum safety – not to mention improved environmental compatibility.



If you are interested or have any questions about
Automated non-entry tank cleaning, please contact us:

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We look forward to hearing from you.

