

MAXIMATOR®

maximum pressure



REVOLUTIONARY H₂ GAS BOOSTER SERIES – X-TOWER

UP TO 900 BAR - THE MOST
FLEXIBLE GAS FILLING SYSTEM

More flexibility than ever before

The Maximator X-TOWER is a modular Gas Compression System, specifically designed for Hydrogen compression up to 900 bar with scalable volume flow. The X-TOWER is designed for integration in existing systems and is covering nearly all requirement for efficient gas compression.

A standard configuration up to 900 bar consists of one MASTER-Module (control module) and up to three X-Modules (gas booster modules) - first stage module up to 270 bar, second stage module up to 540 bar and the final stage module up to 900 bar. This configuration will provide a gas outlet flow of 10 kg Hydrogen per hour. For higher outlet capacities more modules can be connected easily.

For lower inlet pressure (e.g. electrolyser) X-Modules are also available. Please get in touch with us for your detailed X-Tower configuration.

The gas compression is realized with our new EHB-Series booster technology (Electro-Hydraulic-Booster) and provides unrevealed efficiency due to their completely redesigned electrohydraulic drive concept.

For all applications the MASTER-Module is mandatory and is handling safety and functional features for maximum three X-Modules. The X-Modules can be combined and connected depending on the application.



FLEXIBILITY

With the X-TOWER you are planning the future. Our solution can be adapted to new challenges by changing, adding or removing X-Modules. The modular design allows many combinations of X-Modules to cover many different application and requirements.



EFFICIENCY

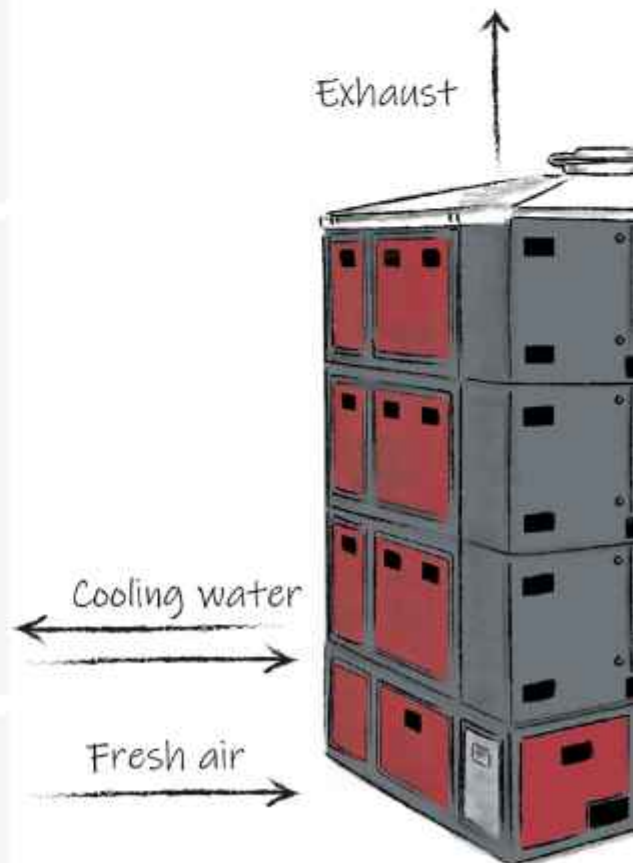
With the new frequency converter controlled complete closed hydraulic drive concept of our EHB-Series we are providing the most efficient way to compress gases.

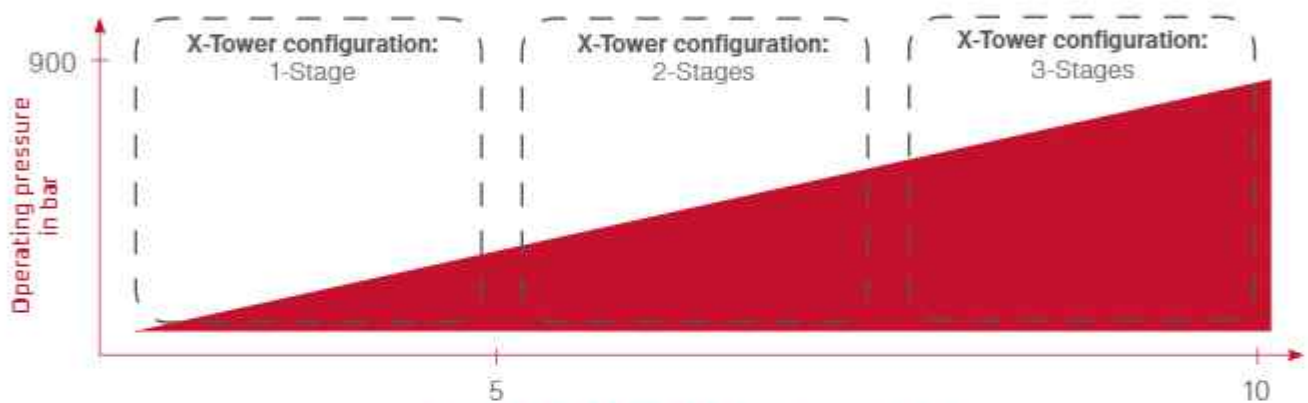
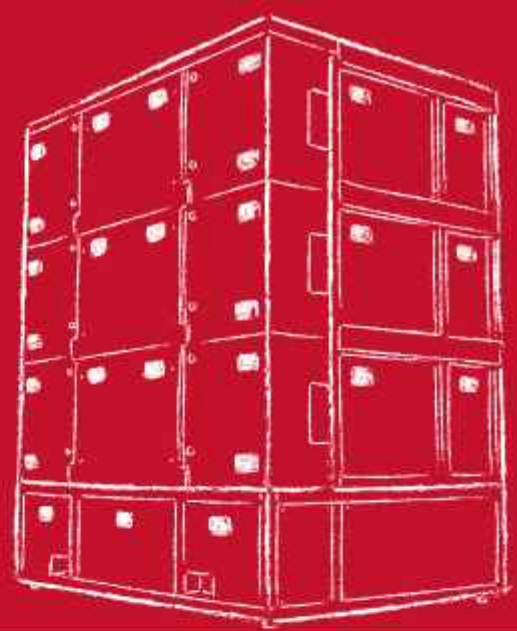
- Efficient hydraulic drive with less oil volume
- Flushing concept integrated
- Quite drive technology
- Power consumption monitoring



COOLING

Intelligent and efficient new cooling concept keep the gas temperature, the EHB and the electrical enclosures under control with minimum energy consumption.





Mass Flow H2 @ 40 bar hydrogen supply in kg/h



SAFETY

Purging, temperature & pressure control, gas detection, active ventilation (zone free), safety PLC are only some of our safety features of the new X-Tower series. Safety tested and production monitored by third party organisation.



INTEGRABILITY

With reduced interface connection we are proud to say: „plug & boost“.

A web-based access to the control system offers independent control with your mobile PC or smartphone.

Our X-Tower Series is prepared for IoT integration to improve processes and provide more information about the compression process than ever before.

Easy integration in existing systems.



Hydrogen →

← Hydrogen

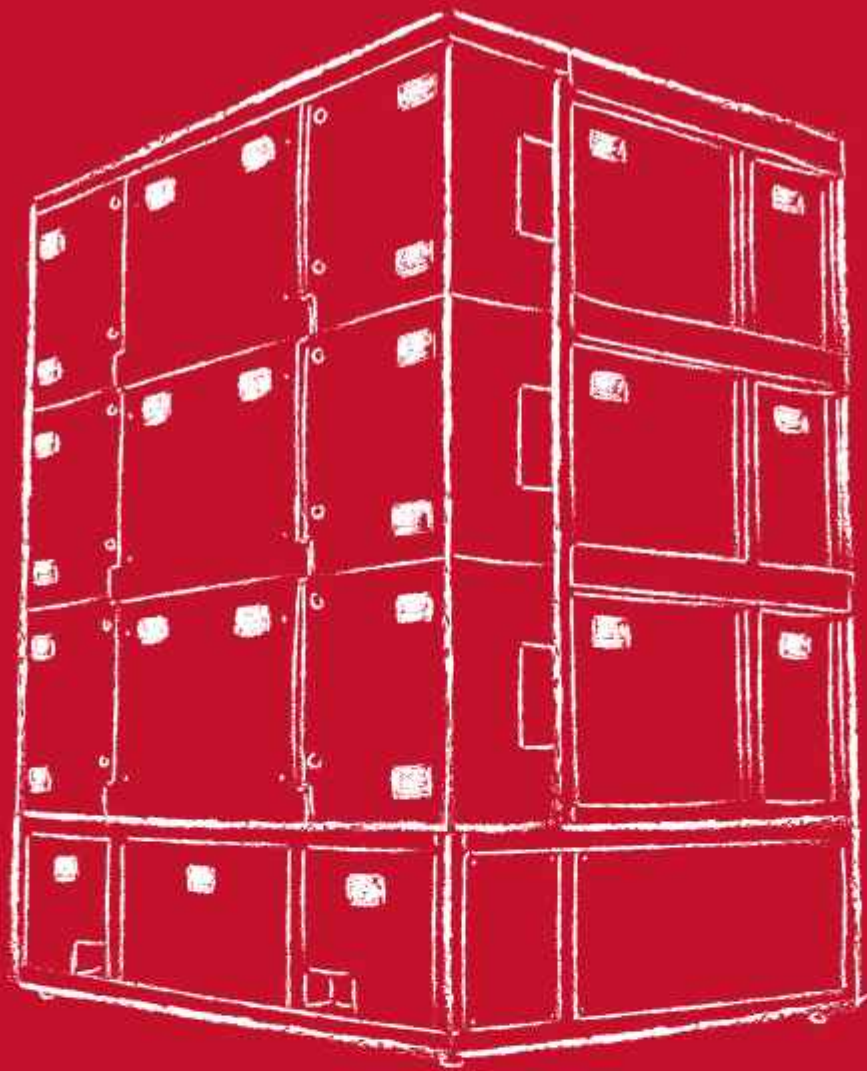
← Nitrogen

← Electrical power



AIR FLOW TOWER PURGE

With our revolutionary design concept of the forced ventilation and forced exhaust we make sure, that no explosive atmosphere can occur inside the X-Tower.



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