

# 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 up to 15 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. Depending on the application, the X Modules can be combined and connected to each other in series and parallel\*.

\*Additional valve panel with controller required



## 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

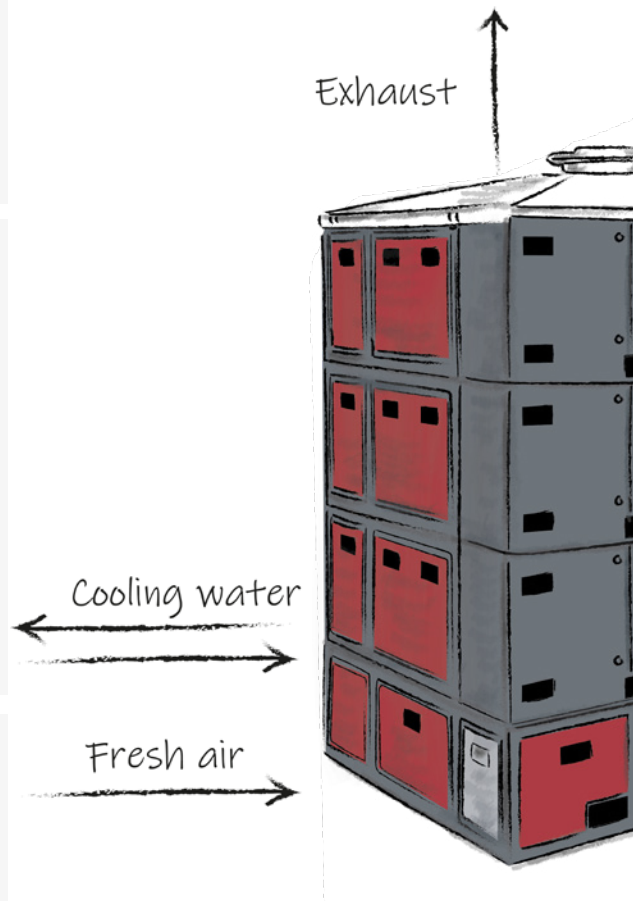
With the new frequency converter controlled complete closed hydraulic drive concept of our EHB-Series we are providing the most efficient way to compress gases.

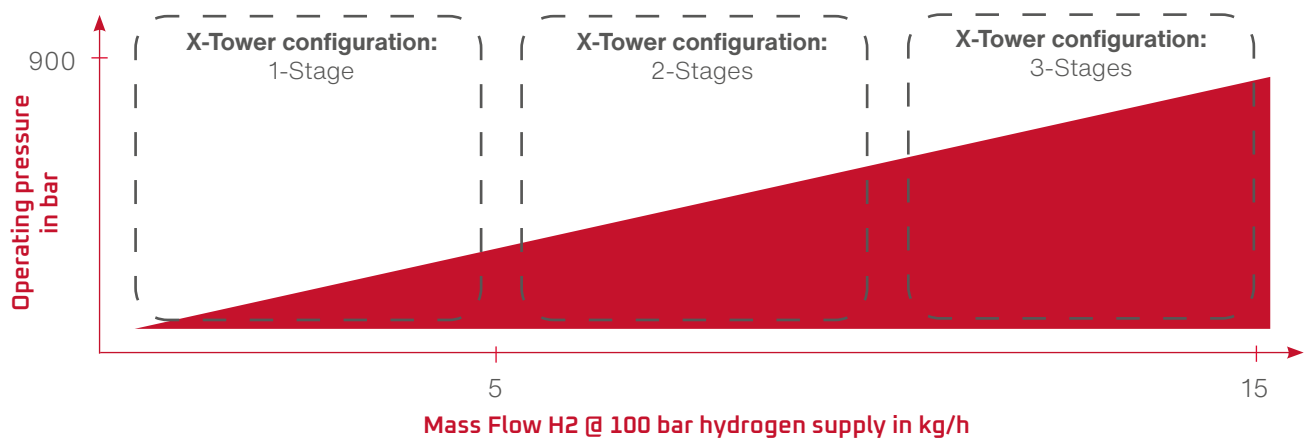
- Efficient hydraulic drive with less oil volume
- Flushing concept integrated
- Quite drive technology
- Power consumption monitoring



## COOLING

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





## 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.



**MAXIMATOR GmbH**

Lange Strasse 6, 99734 Nordhausen

Telephone +49 3631 9533 0

[info@maximator.de](mailto:info@maximator.de)

[www.maximator.de](http://www.maximator.de)

A COMPANY OF  **SCHMIDT  
KRANZ GROUP**

3999.5307 | 06/2024