

MAXIMATOR®

maximum pressure



**HIGH EFFICIENT HYDROGEN
GAS FILLING SYSTEM
UP TO 900 BAR - PLUG & BOOST**

Cost and energy efficient gas filling solution

The Maximator GFS Series Systems are standalone Gas Filling Systems for small scale hydrogen applications. We designed the GFS especially for customers who need an “all in one” solution with a small foot print for hydrogen compression.

With the new GFS technology, we are proud to introduce an efficient way of Hydrogen compression. The GFS solution is based on our X-TOWER (the heart of compression) with all the advantages.

The ready integration into a 10ft. container solution optimizes the overall availability of the Gas Filling System. The GFS is a plug & boost solution from Maximator which is covering all outdoor requirements from -20°C - +40°C. It is easy to load with fork lifter or crane on a standard truck.

The interface connection for the customer is reduced to a minimum of H₂ supply, H₂ outlet, N₂ supply and electrical power. All other modules for a safe and efficient compression are already integrated. A web-based access to the control system offers independant control with your mobile PC or smartphone.



X-TOWER INSIDE

The Maximator X-TOWER is a modular Gas Compression System, specifically designed for Hydrogen compression up to 900 bar with scalable volume flow.

- Maximum flexibility
- Maximum efficiency
- Maximum safety

... than ever before.

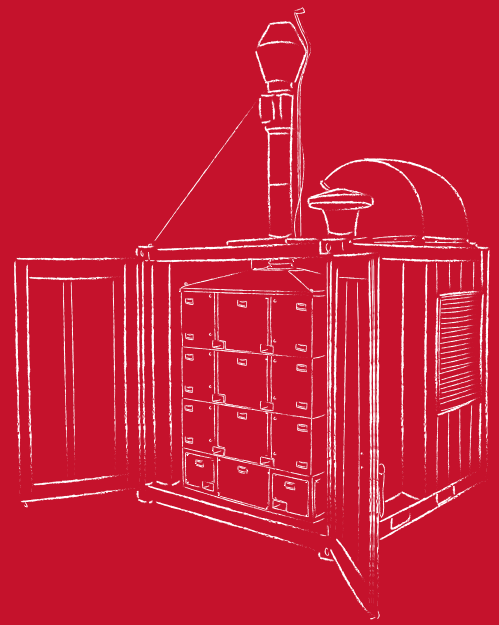


SAFETY

- Nitrogen purging
- Temperature control
- Pressure control
- Gas detection
- Forced ventilation
- Production monitored by third party organisation

... are only some of our safety features to increase the acceptance of operator and integrator.





WATER COOLING

Intelligent and efficient new cooling and tempering concept keep the GFS temperature under control. **The GFS is having the chiller system on board.** Cooling water temperature and flow are measured and supervised by the PLC.



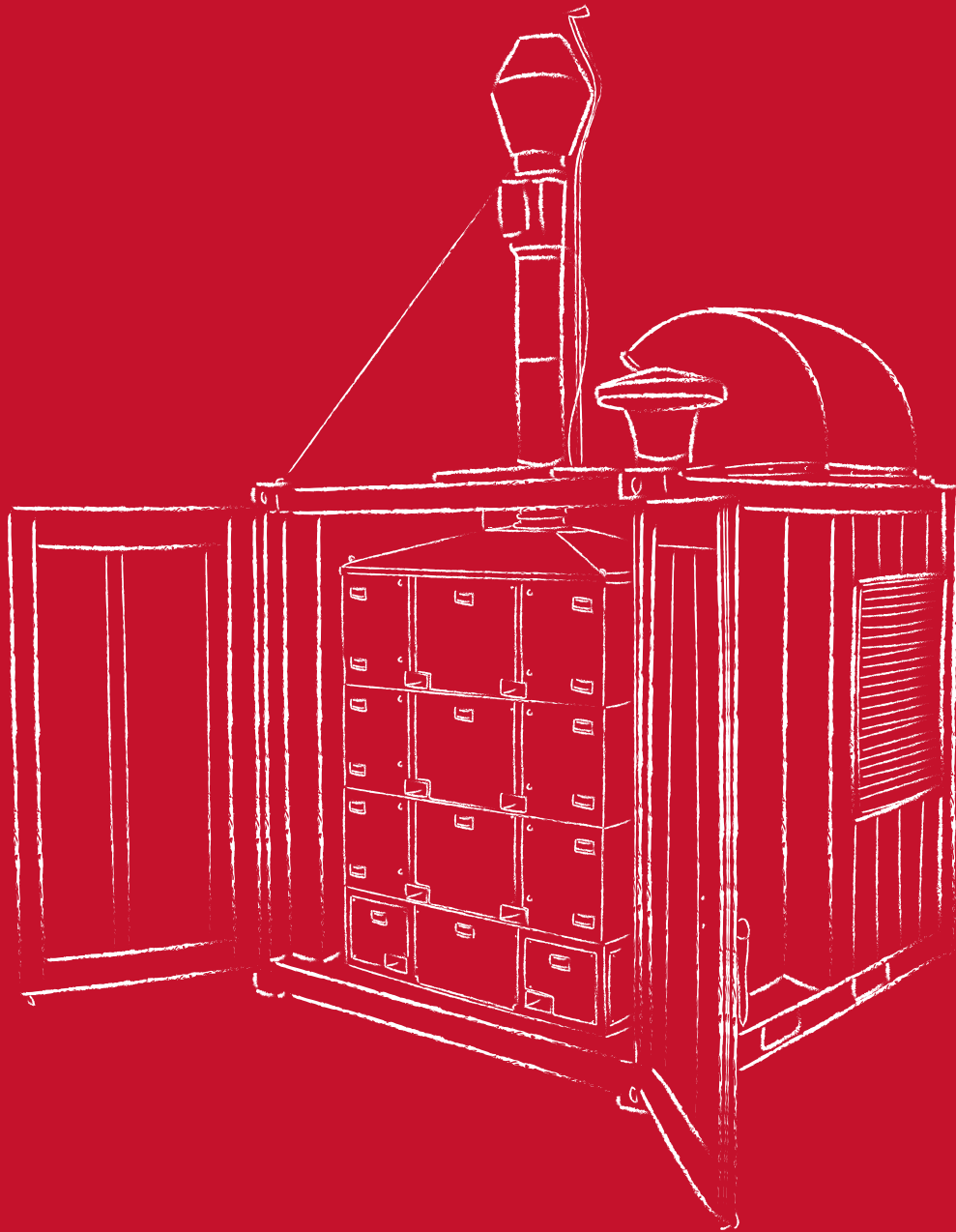
SERVICE MEETS SUCCESS

Reducing of downtime is one of the biggest advantages for our Gas Filling System concept.

The modular design allows to change modules instead of maintaining components. Maximator is providing complete tested and certified modules to exchange the used module.

With standardized electrical and mechanical connection, the maintenance can be planned and realized in a short term.

EXAMPLE CONFIGURATION	1 STAGE SYSTEMS	2-STAGE SYSTEM	3-STAGE SYSTEM
Pressure class	270 bar	540 bar	900 bar
X-Modules	X15	X15 / X30	X15 / X30 / X75
Mass flow (H ₂)*	5 kg/h	10 kg/h	10 kg/h
Power consumption	23 kW	34 kW	45 kW
Dimension (LxWxH) in mm		3.000 x 5.600 x 2.600	
Weight	5.000 kg	5.500 kg	6.100 kg
Control System		Safety PLC + Web application	



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