

# POWER-TO-GAS COMPRESSOR UNIT



energy efficient - reliable - compact

# POWER-TO-GAS COMPRESSOR UNITS FOR THE ENERGY REVOLUTION

With **sera** power-to-gas compressor units, innovative system solutions can be created for converting renewable energy into hydrogen for use in a range of applications. Direct use of green hydrogen in mobility and transportation is just as feasible as buffering in storage facilities and direct supply into the natural gas grid or H<sub>2</sub> pipelines.

Power-to-gas energy storage can help to balance out increasing fluctuations of wind and solar energy in power generation, or keep power from being fed directly into the grid at times when generation is particularly high.

## RANGE OF APPLICATIONS

- Buffer storage in stationary medium-pressure, high-pressure and cavern storage facilities
- Trailer filling for supplying H<sub>2</sub> refuelling stations
- Feeding into the natural gas grid
- Feeding into H<sub>2</sub> pipelines

## ADVANTAGES AT A GLANCE

- Energy-efficient
- Reliable
- Completely lubricant-free H<sub>2</sub> compression
- Modular construction
- Compact
- Flexibly upgradeable

Most **sera** power-to-gas compressor units use our hydraulically driven dry-running piston compressors. Due to its design and focus on maximum technical reliability, this compressor technology is ideal for the various applications of power-to-gas. The compressor units are extremely compact and take up comparatively little floor space.

They can be installed in steel or concrete containers as well as indoors in existing buildings.



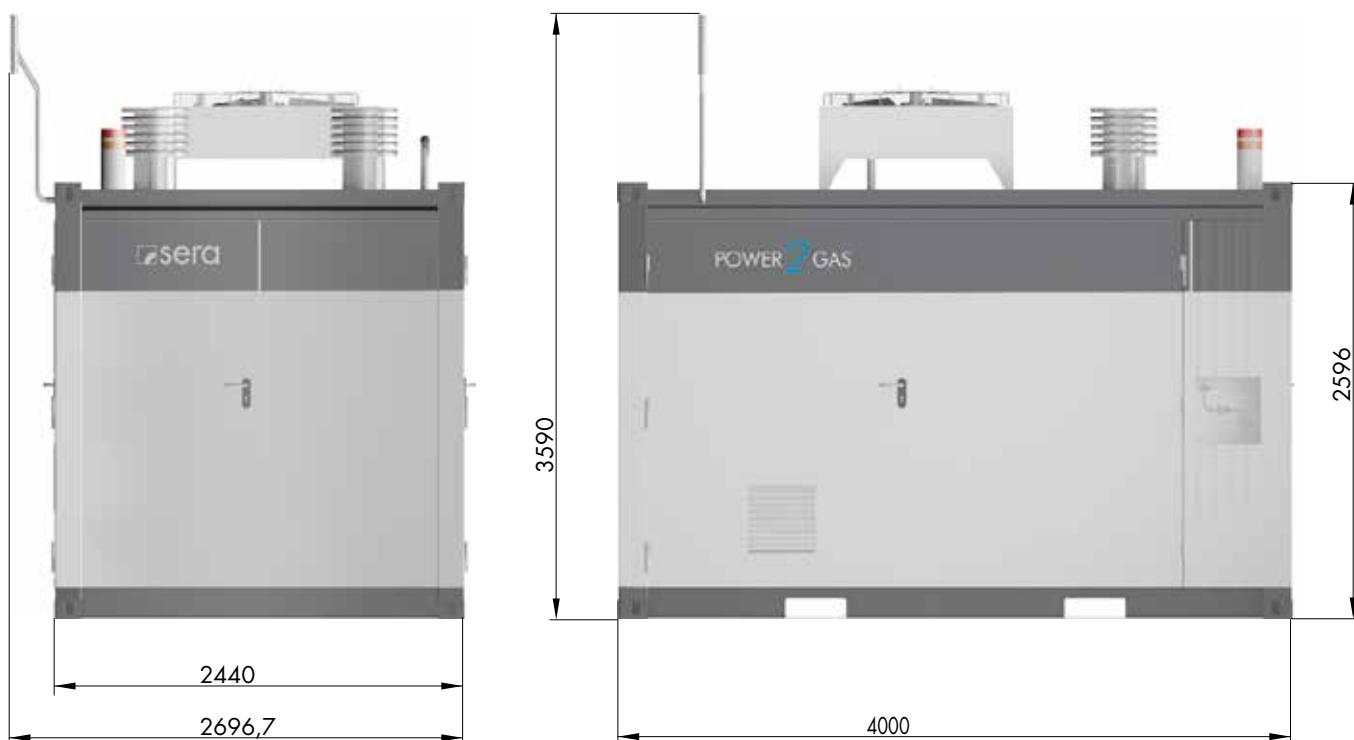
# TECHNICAL SPECIFICATIONS

SIZES		PCS 50	PCS 100	PCS 200	PCS 400
Flow rate	Nm <sup>3</sup> /h	50	100	200	400
Flow rate	kg/h	4.5	9	18	36
Flow rate	kg/d	108	216	432	864
Intake pressure * 1)	bar	30	30	30	30
Output pressure *2)	bar	300	300	300	300

\*1) other intake pressures possible

\*2) other output pressures possible

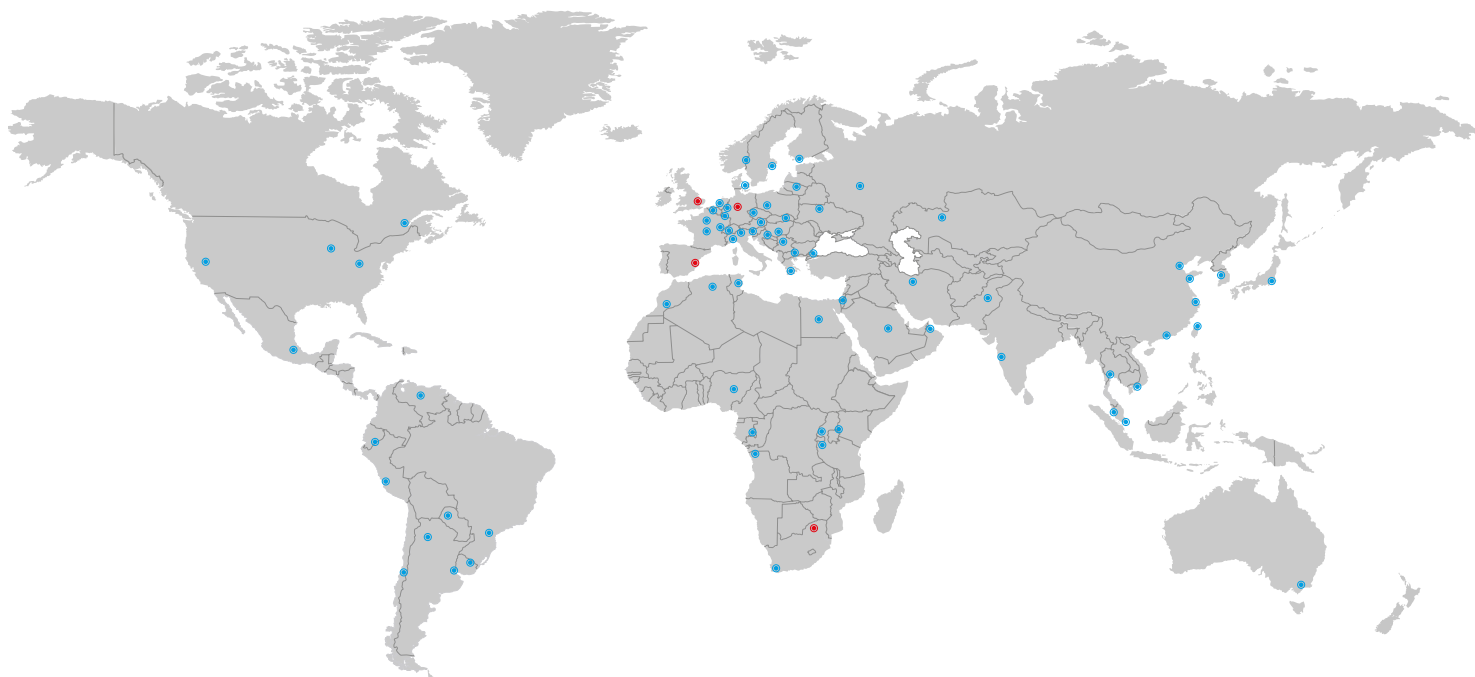
**sera** PtG compressor units meet the requirements of the European Union's Machinery Directive, ATEX Directive and Pressure Equipment Directive as standard.



## ADDITIONAL FEATURES

- Control of flow rates with a frequency converter and variable capacity pump
- Filling device for trailer refuelling
- Higher flow rates and non-standard dimensions
- Concrete container
- Silent version with additional soundproofing arrangements
- Indoor installation without container

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EXCELLENCE IN FLUID TECHNOLOGY