PRODUCT INFORMATION

COMPACT COMPRESSOR SOLUTION

SYSTEM SOLUTIONS FOR THE ENERGY TRANSITION

COMPACT COMPRESSOR SOLUTION (CCS)

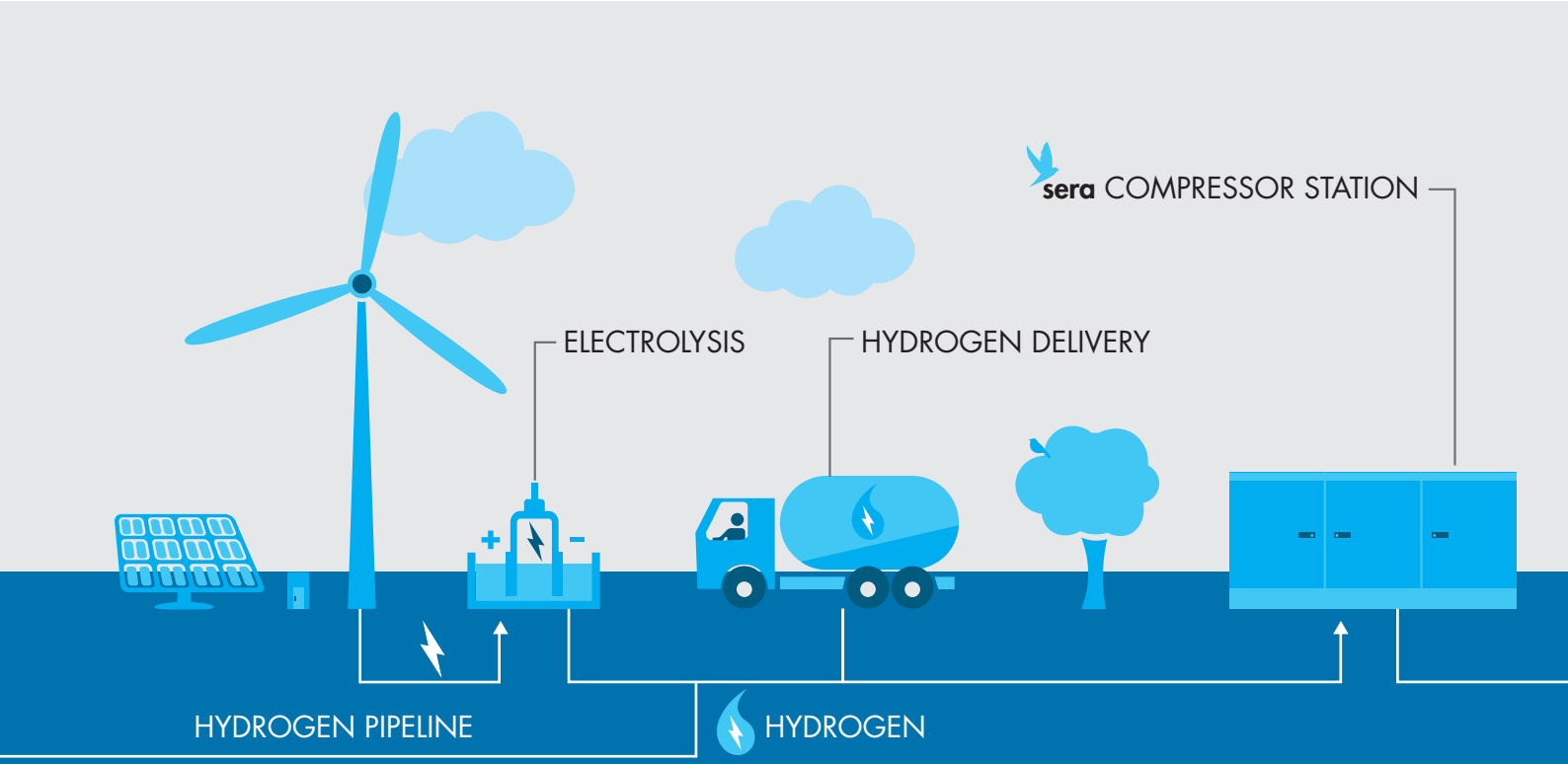
With Compact Compressor Solution, **sera** offers innovative system solutions to make hydrogen usable for various areas of application. The hydrogen can be compressed directly from electrolysis, trailers or delivery in pipelines. With the **sera** Power-To-Gas compressor station, the highly compressed hydrogen is ready for use in cylinder bundles, trailers and many other possible applications such as feeding into hydrogen pipelines or natural gas grid.
With the **sera** Compact Compressor Solution, hydrogen can be used as an energy store and fluctuations in power generation with wind and solar energy can be balanced out.

DESIGN

- Complete compressor technology integrated in a system container (subdivided into Ex Zone II (compressor room) and Non-Ex Zone (control cabinet room))
- Equipped with all necessary mechanical and electrical safety devices
- Gas flow control technology with all control fittings
- Lighting and ventilation of the system container
- Ambient temperatures from -20°C to +40°C
- CE conformity

ADDITIONAL FEATURES

- Flow rate control by means of frequency converter or bypass
- Filling device for trailer refuelling
- Larger delivery rates and special dimensions
- Container housing in various sizes (3 and 4 doors)
- Individual housing
- Indoor installation
- Remote connection
- Closed cooling water circuit
- Switch and load cabinet with fail-safe SPS for control of the entire system
- Further, specific customer requirements can be offered as an option



TECHNICAL SPECIFICATIONS

SIZES *)		PTG 50	PTG 100	PTG 150	PTG 200
Flow rate	Nm^3/h	50	100	150	200
Flow rate	kg/h	4,5	9	13,5	18
Electrolysis power	kW	250	500	750	1000
Inlet pressure 1)	bar(a)	30	30	30	30
Outlet pressure 2)	bar(a)	500	500	500	500

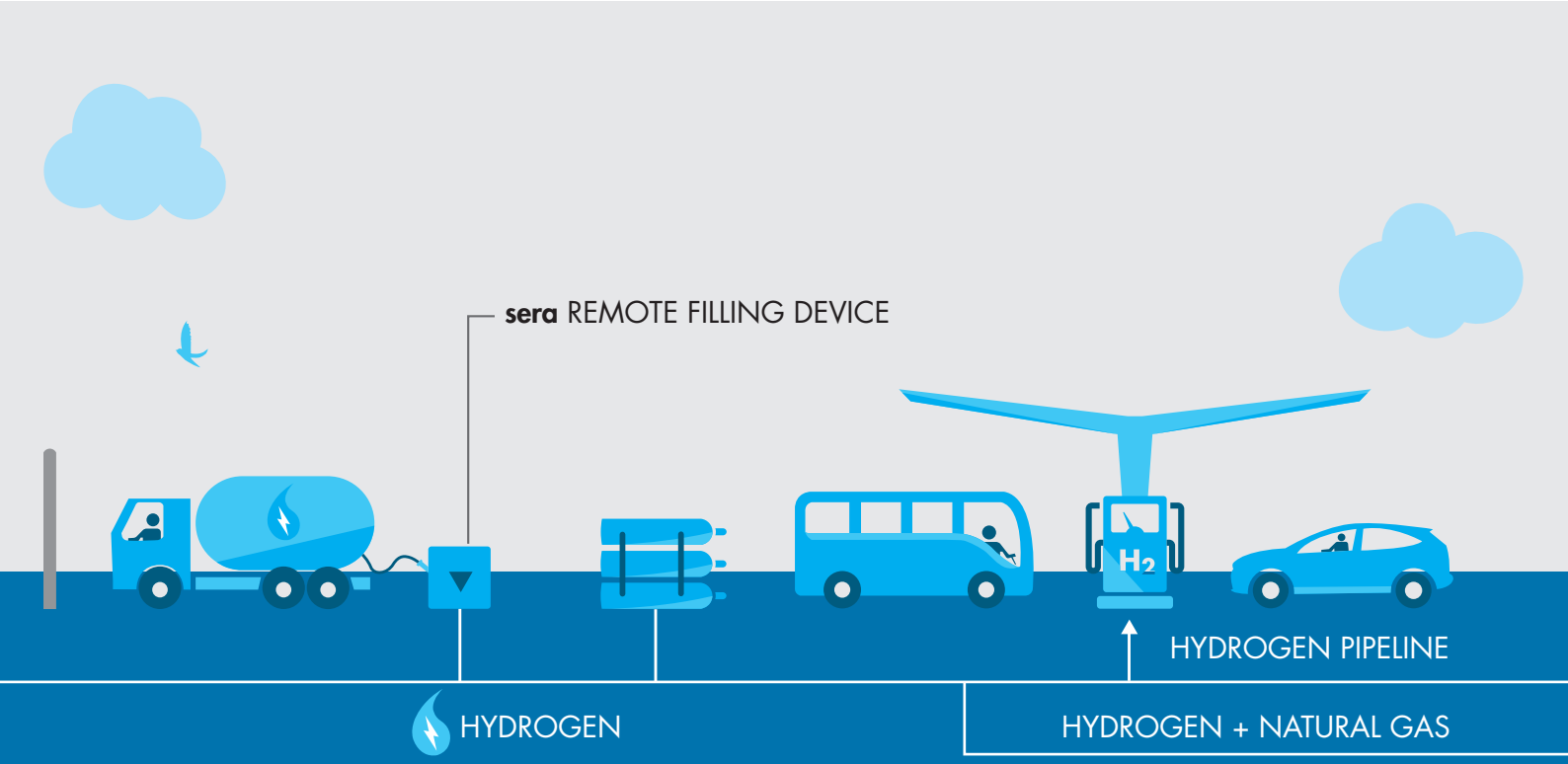
*) Deviating delivery rates must be requested individually with the specific application.
1) Special solutions up to 1 bar(a) inlet pressure must be requested individually in the specific application.
2) Other outlet pressures possible; standard versions with outlet pressures of 300 bar(a) and 500 bar(a) available.

FIELDS OF APPLICATION

- Buffer storage in stationary medium pressure, high pressure and cavern storage
- Trailer filling up to 500 bar(a)
- Feeding into the natural gas grid
- Feeding into hydrogen pipelines
- Cylinder bundle filling up to 500 bar(a)

ADVANTAGES AT A GLANCE

- Energy efficient
- Reliable
- Oil-free compression of hydrogen
- Modular design
- Compact
- Flexibly expandable



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