

## High-level Hydrogen Purification

### Innovative products around technical gases

ReiCat is the leading company for Gas Purification (DeOxo & Drying TSA).

Decades of experience contributed to developing and producing equipment to efficiently remove all impurities and moisture from Hydrogen in the Green Hydrogen or Industrial Hydrogen markets.

#### Your technology

- Alkaline electrolysis (AEL)
- PEM electrolysis
- SOEC electrolysis
- Chlorine-alkali electrolysis
- Steam reformer

#### Your application

- Green Hydrogen P-t-X
- E-Methanol
- Fuel cells
- H<sub>2</sub> mobility
- H<sub>2</sub> filling stations – mobility
- H<sub>2</sub> filling stations – industrial
- Annealing processes
- Automotive industry
- Steel production
- Float glass production
- Hydrogenation

#### Our solution

- Catalytic Adsorptive Hydrogen Purification
- Safe & efficient production of high-purity H<sub>2</sub>
- Options:
  - ☑ Closed-Loop – for Regeneration  
- refer to product data sheet Option A
  - ☑ HighFlex® H<sub>2</sub> – 10% turn down  
- refer to product data sheet Option B
  - ☑ HO Meter analyzer – extra safety  
- refer to product data sheet Option C

#### ReiCat advantages

- ☑ H<sub>2</sub> purity higher than 99.999%
- ☑ No losses & no emissions
- ☑ Low energy consumption
- ☑ No rotating parts
- ☑ Low running costs & maintenance
- ☑ High availability - more than 98%
- ☑ Short amortization period & long lifetime
- ☑ ATEX compliance for explosion protection
- ☑ Balance of the complete H<sub>2</sub> production plant & gas quality online monitoring
- ☑ Optional application: Hydrogen Recycling

#### Green Hydrogen – Power-to-Gas



Hydrogen Purification 2,000 Nm<sup>3</sup>/h

#### Industrial Hydrogen



Hydrogen Purification 10,000 Nm<sup>3</sup>/h