

CARBON CAPTURE & STORAGE

# LCO<sub>2</sub> Injection Pump

Peroni Pompe API 674 plunger pumps

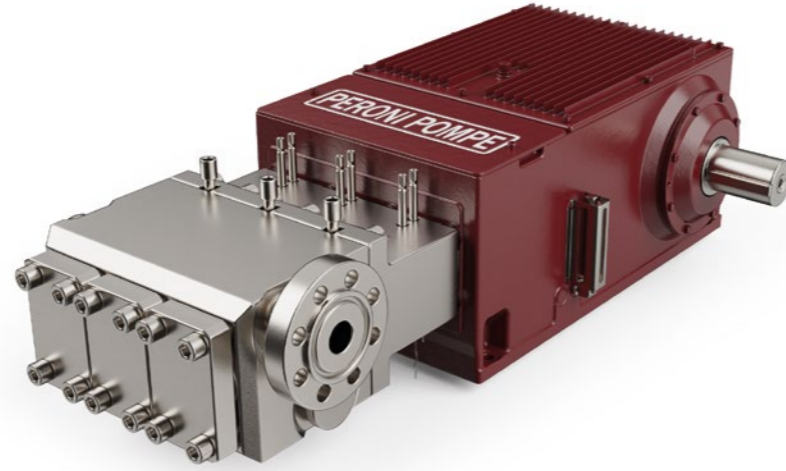
[www.peronipompe.com](http://www.peronipompe.com)



## LIQUEFIED CO<sub>2</sub> INJECTION PUMP

Liquefied CO<sub>2</sub> Injection Pumps: Advanced Solutions for Carbon Capture and Storage.

Our API 674 plunger pumps are specifically engineered for CO<sub>2</sub> injection in Carbon Capture and Storage (CCS) applications, meeting rigorous technical and operational standards for safety, reliability, and efficiency.



### KEY ADVANTAGES OF THE PERONI SOLUTION:



**Robust CO<sub>2</sub> Handling:** designed according to API 674 (25 years of operation), liquid end tailored to handle liquefied CO<sub>2</sub>



**Widest Range of Operating Performances:** flow rate up to 300 m<sup>3</sup>/h and LCO<sub>2</sub> temperature starting from -50°C to ambient temperature



**Flexible Performance:** adaptable to fluctuating CO<sub>2</sub> volumes and underground conditions, our pumps ensure long-term site viability



**Energy Efficiency:** our reciprocating pumps provide superior energy efficiency over traditional solutions, considerably reducing overall energy consumption



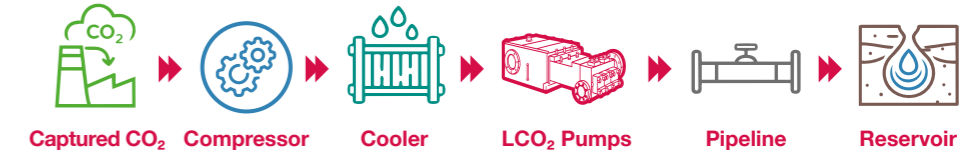
**Dedicated CO<sub>2</sub> Sealing:** state-of-the-art sealing systems assure pump reliability, safety and environmental protection



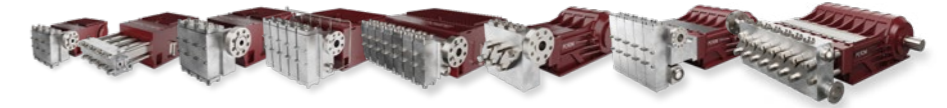
**Low Maintenance:** minimize downtime with a reliable design and optional predictive maintenance kits, reducing failure risks and environmental impact



Learn about the collaboration between Peroni Pompe, CTCI Engineering and CPC



FROM SMALL TO BIG PLANTS



1m<sup>3</sup>/h

300m<sup>3</sup>/h



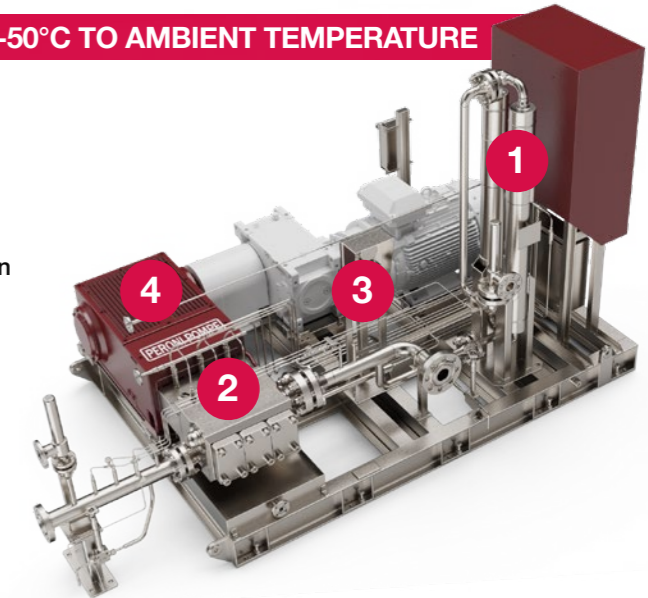
LCO<sub>2</sub> FROM -50°C TO AMBIENT TEMPERATURE

#### SUB ZERO TEMP.

- 1 - Dampener with special configuration
- 2 - Pump hydraulic end
- 3 - Pump sealing panel

#### AMBIENT TEMP.

- 4 - HSP (High Suction Pressure) power end configuration





## High pressure pumps for critical applications since 1895.

### WORLDWIDE PRESENCE

Global reach, local support: our worldwide presence ensures unmatched service and spare parts accessibility in strategic locations.



Peroni HQ and local branches



Service centers



Jetech HQ and plant



Proven CO<sub>2</sub> installation



- > Worldwide leader in high pressure technology
- > Trusted supplier to leading oil&gas companies
- > CO<sub>2</sub> High Pressure Injection
- > Low energy consumption in CCS applications