

LIQUID CO₂ vaporizer SOCVAPO

SOCLEMA has developed a **sampling system** dedicated to **liquid CO₂ analysis**, designed to ensure **measurement reliability** and **representativeness**.

This turnkey solution enables liquid CO₂ to be vaporized under **fully controlled conditions**, providing analytical instruments with a **representative gaseous sample**, which is essential for **purity control** and **transactional value verification of CO₂**.


Features

- Compact and robust system designed for industrial environments,
- Modular design allowing adaptation to various sampling points or analytical requirements,
- Dedicated heated pressure regulator for controlled CO₂ vaporization,
- Optional humidity measurement on the fast loop,
- Optional gas sampling panel,
- Optional integration into a protective enclosure.

Applications

- CO₂ capture and purification units from industrial processes,
- CO₂ valorization units linked to biomethane production,
- Storage facilities,
- Purity measurement,
- Transactional control

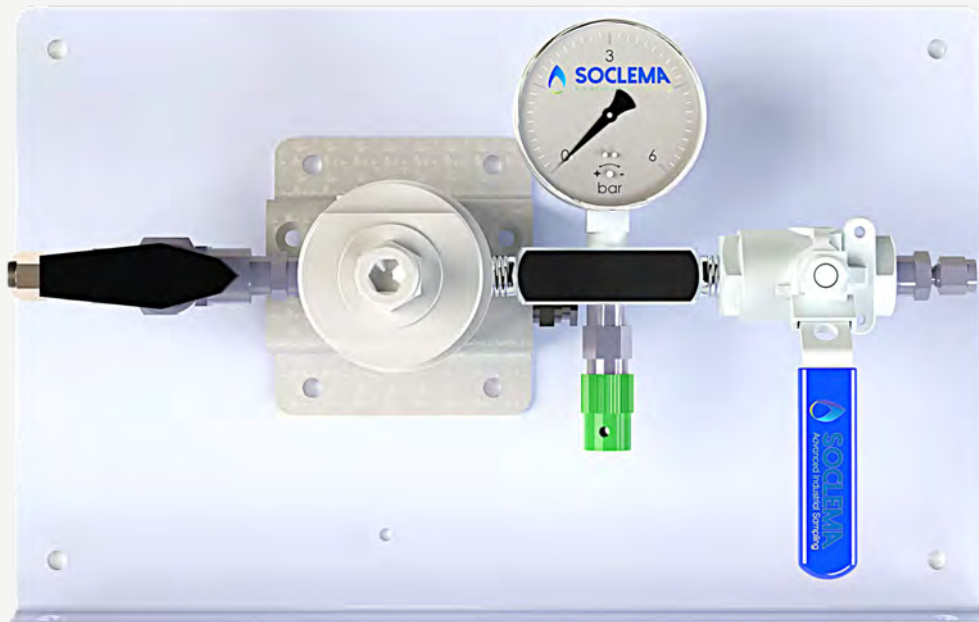


 Example of a liquid CO₂ vaporizer integrated into an enclosure and installed on an anaerobic digestion unit.



Benefits

- Ultra compact design,
- Installation as close as possible to the sampling point,
- Reduced internal volumes,
- Homogeneous vaporization,
- Reduced maintenance requirements,
- Representative gas sample.



Technical Specifications

Ambient temperature	From -20°C to +50°C
Admissible inlet pressure	From 0 to 100 barg
Minimum inlet fluid temperature	-32°C
Outlet gas sample pressure	0 - 0,68 barg, 0 - 1,72 barg, 0 - 3,44 barg, 0 - 6,89 barg, 0 - 17,22 barg, 0 - 34,45 barg
Outlet gas sample flow rate	1 NI/min
Power supply	230 VAC – 80 W (ATEX Zone 1 option available)
Wetted materials	Stainless steel 316L, PFA, HNBR,
Overall dimensions	340 x 220 x 210 mm