

ASO FILTRI

a **mott** company



CARBON CAPTURE, UTILISATION AND STORAGE
(CCUS)

CCUS

Carbon Capture Utilisation Storage



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Asco Filtri, a mott company, is a market leader in **process purification and filtration** that designs, manufactures and services **highly engineered products** for the most severe applications, with the aim to deliver great solutions that tackle the most demanding engineering challenges.



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The Paris Agreement's temperature goals require global CO₂ emissions to halve by 2030 and reach net zero by 2050. Scientists concur that without CCUS, the world will most likely fail to meet the goals of the Paris Agreement. **Capturing carbon emissions** before they enter the atmosphere is especially **vital for greening hard-to-abate sectors**, where energy efficiency and switching to renewables won't be enough.



POTENTIAL APPLICATIONS OF CO₂

1

Curing agent for concrete, carbonates, and structural materials

2

Enhancing Oil Recovery by injection of CO₂

3

Food and beverage by injection of CO₂

4

Feedstock to produce fertilizer by reaction with NH₃

5

Feedstock to produce synthetic fuel, i.e gasoline, diesel, gas or even kerosene, by thermochemical process reaction between CO₂ and H₂

6

Potential uses of CO₂ in the production of chemical products such as poly-carboxylates, poly-carbonates, and poly-acrylates by polymerization process

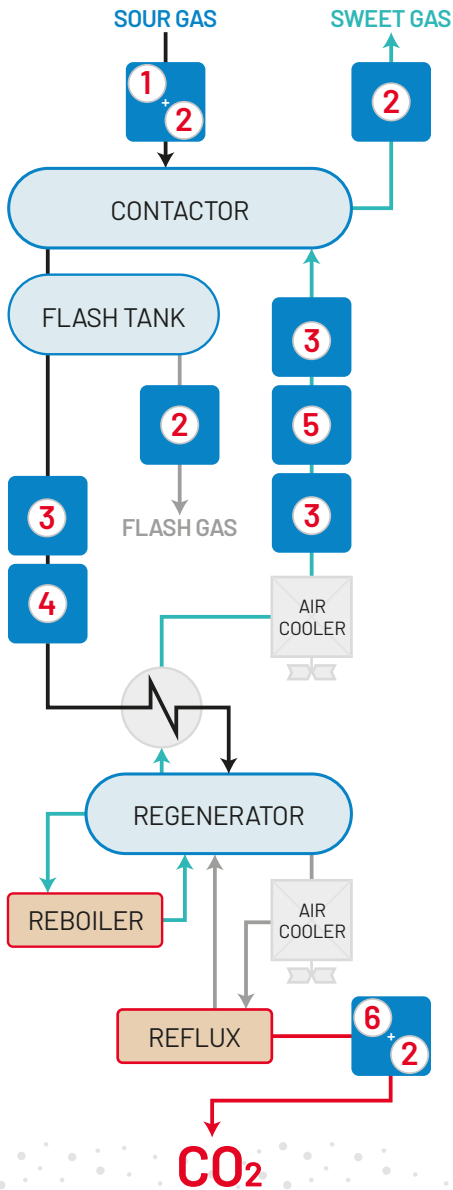
CARBON CAPTURE

(TYPICAL PROCESS)

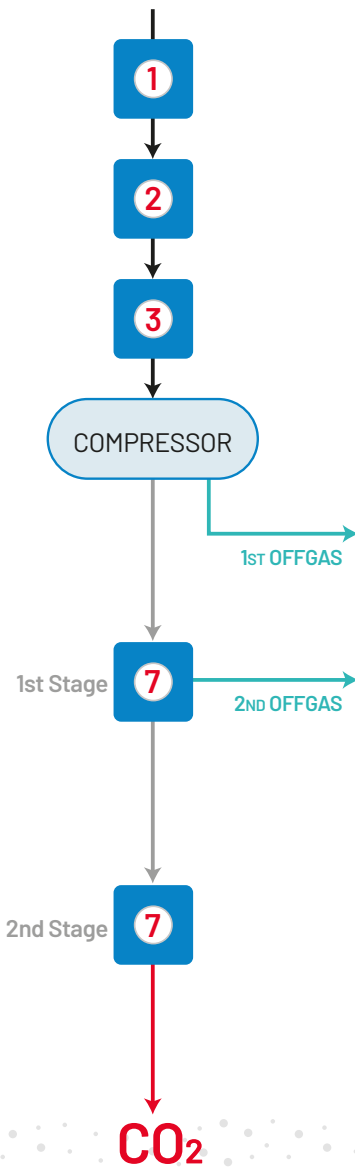
- 1 PREFILTER
- 2 LIQUID / GAS COALESCER
- 3 PARTICULATE FILTER
- 4 LIQUID / LIQUID COALESCER
- 5 ACTIVATED CARBON FILTER
- 6 ABSOLUTE SEPARATOR
- 7 MEMBRANE



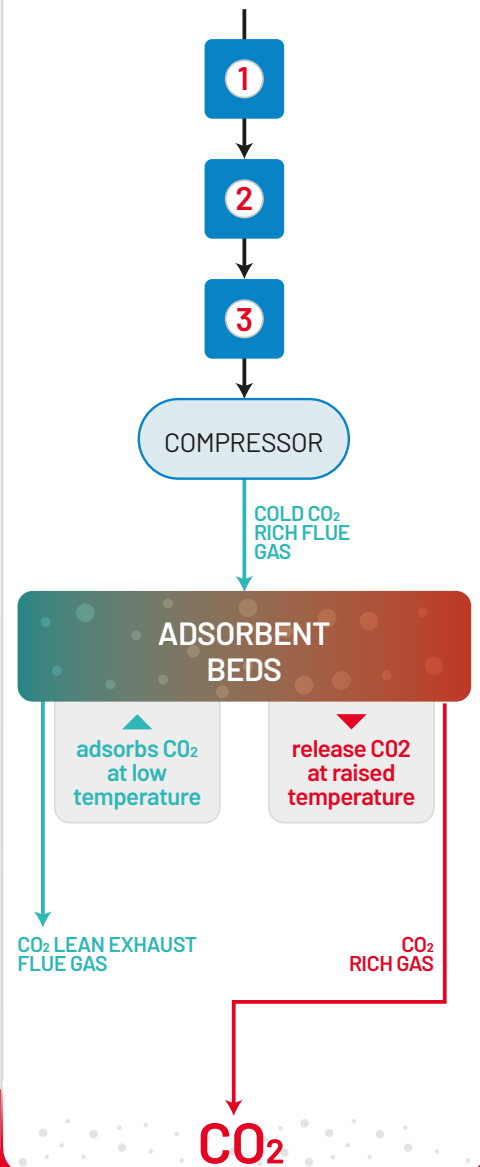
ABSORPTION UNIT



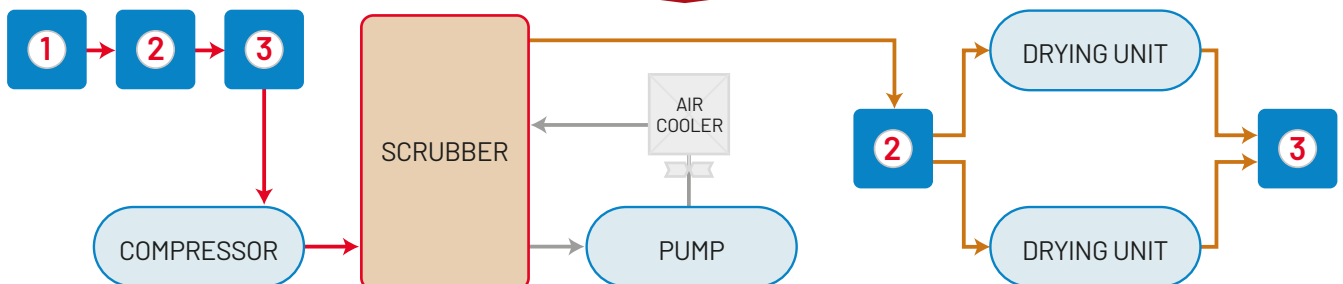
MEMBRANE UNIT



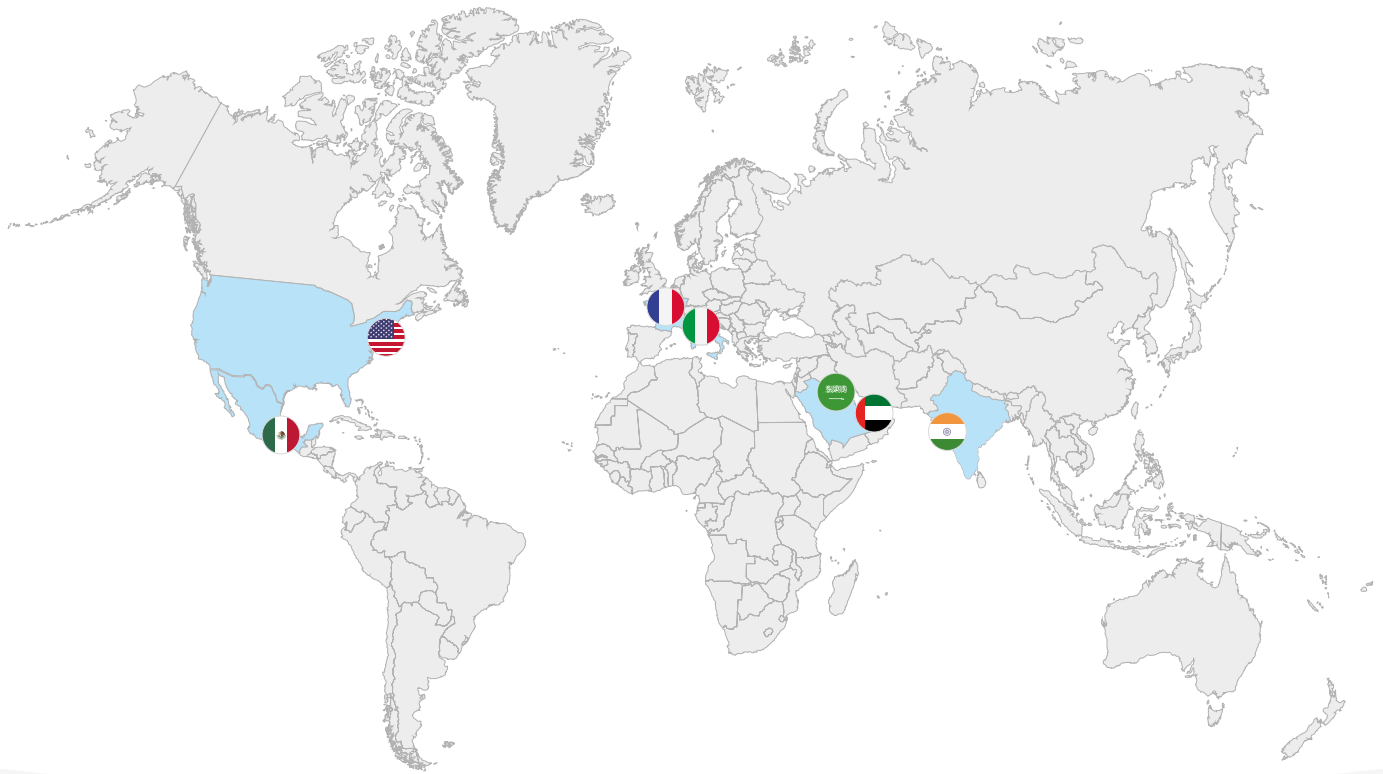
ADSORPTION UNIT



CO2 PURIFICATION



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