



CARBON CAPTURE AND STORAGE

PROCESS SYSTEMS carbon capture (CC) solution is developed on the advanced absorption process to capture CO₂ emitted from various sources, either from fuel combustion or industrial plants.

The provided CC unit can produce CO₂ with purities ranging from 95% to 99%, ready to be sold, reused, or sequestered. Employing the CC unit, the CO₂ recovery rate of up to 92% is guaranteed for the LP gases. However, for the HP streams, the recovery rate will be up to the ppm level.

PS CC unit can end with a storing system to convert CO₂ gas into a highly dense phase thanks to the low-temperature liquefaction process.

MAIN SPECIFICATION

Solvent degradation stability

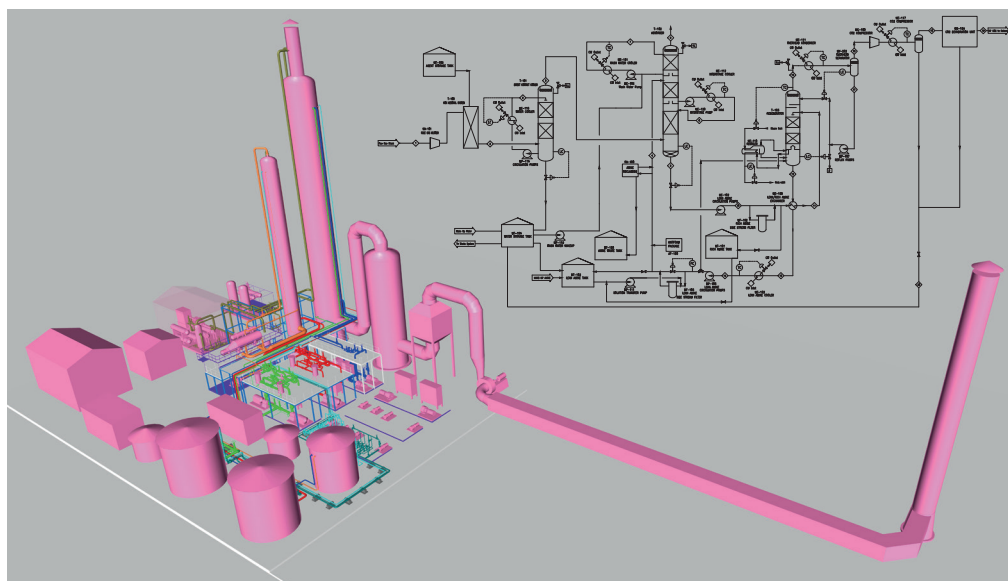
Low energy consumption

Low solvent emissions

Variety in acceptance of gas sources.

Low level of liquid waste

Low maintenance costs



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PROCESS SYSTEM'S modular design concept is applied to its CCS solutions with a wide range of capacities from 1 TPD up to 400 TPD of recovered CO₂. The main features of our modular design are as follows:



Modular design and fast installation



Minimum area for installation



Short time of delivery and installation



Optimized sizing and material selection



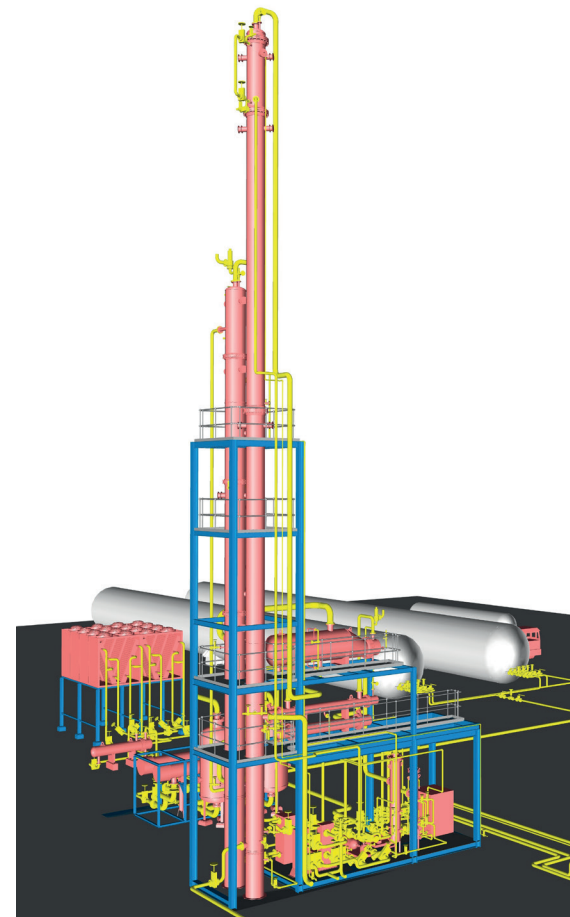
Fully Automatic with minimum operational team



Fully tested before the delivery



Integrated support from design to start-up



Thanks to the high-tech reclaiming process, the minimum waste solvent is exposed to the environment. With a high-efficiency design, minimum demand for cooling water and steam flow can be adopted.



CONTACT US

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