



Biogas Upgrading

Biogas is a renewable gas generated as a result of the anaerobic digestion process and has a content of approximately 60% CH₄ and 40% CO₂.

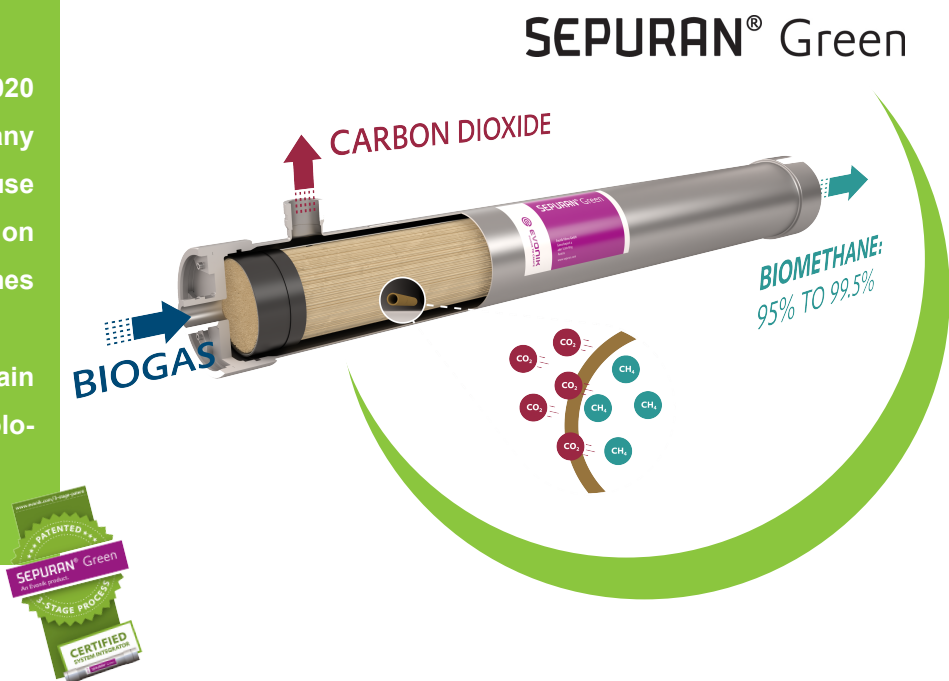
The biogas cleaning and purification system developed consists of two steps. The first one removes impurities such as water, siloxanes or H₂S through a cooling system together with active carbon filters. The second, stage is responsible for obtaining a stream rich in CH₄ (biomethane) thanks to the use of polymeric membrane technology in a three-stage configuration, which allows high recovery efficiencies to be achieved.

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Key Benefits:

- The biomethane generated (97% CH₄) is suitable for injection into the natural gas network or as fuel for vehicles.
- Our biogas upgrading technology complies with the UNE-EN 16723-1 and UNE-EN 16723-2 quality specifications, which establish that check the quality of natural gas and biomethane for injection into the network and use as fuel in mobility.
- Moreover, the CO₂ that is extracted from the biogas can be recovered, hence to create generating an extra source of income for the plant owner in the form of a renewable liquefied CO₂.
- 24/7 maintenance service and fast, efficient and complete after-sales support, managed by highly qualified technicians.

The agreement signed in 2020 with the German company EVONIK authorizes us to use its patented system based on SEPURAN® Green membranes for gas separation. Evonik is a supplier to the main manufacturers of this technology worldwide.



Our capabilities:

The proposed purification plants start with treatment capacities of 50 Nm³/h. Thanks to its scalability and modularity, with the cleaning stage mounted on a skid and the purification stage in a container, capacities greater than 5,000 Nm³/h can be achieved.