



Biobox 100

Technical Product Note

Biobox 100 is the biomethane production solution that Galileo Technologies developed for small dairy farms and farms with less than 3,000 heads of livestock. Its modularity, lightweight, reduced space and easy installation features make it the most flexible solution for future expansions and relocations.

With our Biobox 100, biogas from different sources can be processed into a monetizable fuel with zero net emissions, which provides benefits without a high CAPEX. Whether it comes from biodigesters, landfills, or wastewater treatment systems, this product can upgrade and compress 100 Nm³/h to 150 Nm³/h of biogas.

We see renewable resources as a new profitable scenario for your business. Our upgrading and compression Biobox 100 station has a skid-mounted and plug-and-play configuration allowing it to produce high-quality compressed biomethane (Bio-CNG), with no need for third-party components or civil works other than a simple leveled surface.

The solution consists of two stages:

- 1) **Upgrading:** Our two-column system of activated carbon adsorption, with 165 liters in each column, and a three-stage cartridge membrane filtering method guarantee the removal of components such as hydrogen sulfide (H_2S), siloxanes and volatile organic compounds (VOCs), as well as separation of biomethane (CH_4) from carbon dioxide (CO_2) and water (H_2O) to provide a renewable natural gas flow with a methane recovery rate higher than 99%.
- 2) **Compression:** Our Biobox 100 has two NX45 compressors, each with 45 KW installed power, providing Biomethane at 250 bar. Its unmatched performance, reliability, and low operating costs can provide a flow rate of 100 Sm^3/h (60 SCFM), specifically designed for very low flow operations and very low inlet pressures. It can also use a blower for suction pressures on a millibar scale.

Virtual Pipeline

Our **Virtual Pipeline™** can transport energy by road, enabling your Bio-CNG to be injected into pipelines or distributed to supply industries and vehicle fleets. This solution allows fuel transportation from and to remote places while also reducing both the environmental impact and the operational costs.

Galileo Global Link – Scada System

As with any of the other Galileo Technologies products, this equipment is also monitored by our **Galileo Global Link – Scada System**. This system processes the information of all our equipment around the world and it is remotely operated by specialized technicians that provide support 24/7. The system contemplates hundreds of monitored devices and can be applied to the entire range of products.



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