

Small-Scale Systems

Portable Digester AD-20



PRODUCT FEATURES

The portable digester AD-20 is designed to simulate the process of anaerobic digestion. This 20-liter bioreactor can perform continuous testing by controlling the mixing and the temperature.

MULTIPLE USES

AD-20 has multiple applications. First, it is perfect in laboratories for all type of R&D projects ranging from the development of feedstock recipes for digestion to the optimization of operational parameters.

In school, the AD-20 can be used as a training system to engage and educate students on best practices of waste management because it produces biogas in real time. After one hour of operation, you can obtain up to 5L of biogas, enough to demonstrate how waste produces energy.

The AD-20 is also a simulation tool for full scale biogas plants. It can assess the biogas yield of new substrates and evaluate the synergy effect of inputs variation on daily operation of the plant.

ROBUST, RELIABLE AND VERSATILE TOOL

Designed and manufactured in Quebec (Canada), the AD-20 is a robust, watertight and easy-to-use digester. Made of stainless steel, the AD-20 is provided with an automated central shaft stirring system with programmable cycles.

The temperature of the AD-20 is controlled by a thermoregulated heating system. To facilitate maintenance, the bioreactor has a removable cover and a drain. It also has handles for an easy transport. The digester comes with a Tedlar bag to capture the biogas and a user manual.



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PROJECT DATA

- Location: Worldwide

UNIQUENESS OF THE PRODUCT

- Multiple uses: R & D projects, training students on best practices of waste management and pilot plant simulation tool.
- For continuous operation and testing.
- Robust, watertight, and easy-to-use digester with central shaft stirring system with programmable cycles

For more information:

- [AD-20 Portable Digester](#)
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Biogas Equipment- Compressors

Paso Robles Waste



Quality. Our DNA

PROJECT OVERVIEW

Revolution CNG and Paso Robles Waste chose BAUER COMPRESSORS, Inc. to provide a new high-capacity renewable natural gas (RNG) compressor system for their fueling station expansion. Due to growing demand, Paso Robles Waste has recently expanded their fleet of trash recycling vehicles. Thusly they require more compressed RNG fuel to meet the increased demands of their growing fleet.

It is noteworthy that Paso Robles waste uses not just a fraction, but 100% RNG to fuel their vehicles. Being green and running their business in an environmentally friendly way is an important part of their corporate mission. Besides the environmental benefits, Paso Robles Waste is enjoying significant cost savings by using renewable natural gas - as compared to diesel - for their transportation fuel.

TECHNICAL FEATURES

By adding an additional BAUER GRU™ 9-75 rotary screw booster compressor in front of the BAUER 4-stage reciprocating high-pressure C26 X-Fill® compressor, BAUER was able to overcome the low gas inlet pressure from the utility pipeline and boost it up; from 40 PSIG to 145 PSIG. This process maximizes the output performance of the C26 X-Fill® high pressure compressor (360 SCFM, at 5000 PSIG).

The system is monitored 24/7 by the state-of-the-art BAUER Connect™ IoT remote telemetry solution, which allows for remote control and monitoring of the entire RNG compressor system.



BAUER C26 X-FILL® CNG COMPRESSOR



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PROJECT DATA

- Location: Paso Robles, California
- Application: Compressed renewable natural gas (CRNG) for transportation fuel
- CRNG Flow: 360 SCFM (611 sm³/h)
- Pressure from gas utility pipeline: 40 PSIG
- Outlet pressure from the Bauer CRNG system: 5000 PSIG
- Commissioning Date: 2021

UNIQUENESS OF THE PROJECT

- Use of 100% renewable natural gas (RNG) for transportation fuel
- High flow rate from the compressor system despite low gas inlet pressure from the gas utility pipeline

For more information:

- www.bauercomp.com
- slse@bauercomp.com