

Compression Solutions for Efficient Biogas Storage & Distribution



Produksi biogas tidak selalu berlangsung bersamaan dengan waktu pemanfaatannya. Tanpa sistem penyimpanan yang memadai, kelebihan biogas sering terbang ke atmosfer atau dibakar melalui flare. Padahal, biogas merupakan sumber energi terbarukan yang dapat dimanfaatkan secara lebih efektif untuk menggantikan bahan bakar konvensional dan mengurangi emisi gas rumah kaca.



Biogas Compressor dirancang untuk meningkatkan tekanan biogas agar dapat diairkan dan disimpan secara lebih efektif. Sistem menggunakan teknologi piston compressor dengan pilihan kapasitas dan tekanan yang dapat disesuaikan dengan kebutuhan proyek. Tersedia konfigurasi manual maupun otomatis sesuai kebutuhan operasional sistem.



Tersedia beberapa model kompresor dengan kapasitas dan konfigurasi yang dapat disesuaikan dengan kebutuhan proyek.

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Kompresor bekerja setelah proses pembersihan biogas untuk memastikan gas yang dikompresi lebih bersih dan sesuai untuk penyimpanan maupun pemanfaatan.

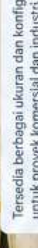


Pemanfaatan Biogas yang Lebih Optimal
Biogas dapat disimpan dan digunakan sesuai kebutuhan.



Untuk kebutuhan proyek komersial berskala besar dan sistem dengan kebutuhan kapasitas yang lebih tinggi, tersedia pilihan kompresor dengan kapasitas tambahan.

Pemilihan sistem dilakukan berdasarkan laju aliran biogas, tekanan kerja, kebutuhan penyimpanan, serta konfigurasi pemanfaatan gas.



Setiap proyek biogas memiliki karakteristik dan kebutuhan yang berbeda. Sampaikan informasi proyek Anda kepada kami, dan tim kami akan membantu menentukan konfigurasi kompresor yang sesuai.

- ✓ Sumber biogas (peternakan, limbah organik, dll)
- ✓ Kapasitas produksi biogas
- ✓ Laju aliran biogas (flow rate)
- ✓ Tekanan yang dibutuhkan
- ✓ Sistem penyimpanan yang direncanakan
- ✓ Aplikasi akhir (memasak, listrik, mesin, transportasi, dll)
- ✓ Lokasi proyek
- ✓ Target waktu instalasi

HUBUNGI KAMI

1 BIOGAS COMPRESSOR SYSTEM

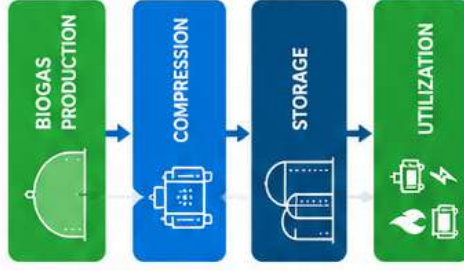
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2 Why Biogas Needs Compression?

Biogas production does not always occur at the same time as its utilization. Without a proper storage and utilization system, surplus biogas is often vented to the atmosphere or flared, which releases greenhouse gases and wastes a valuable renewable energy source. By compressing and storing biogas, it can be used when needed, replace conventional fuels, and help reduce emissions.



Biogas is produced from organic waste. Production is not always synchronized with demand.

Biogas is pressurized using a compressor.

Compressed biogas is stored in high-pressure tanks for later use.

Biogas can be used for cooking, electricity, machinery, transportation, or other applications.

5 System Configuration

The compressor is installed after biogas cleaning to ensure that the compressed gas is clean and suitable for storage and utilization.



FINAL APPLICATIONS



3 Biogas Compressor

Biogas compressors are designed to increase biogas pressure so it can be stored and distributed more effectively. The system uses a robust piston compressor with various capacity and pressure options to suit project requirements. Manual and automatic operation modes are available to match different operational needs.



HIGH PRESSURE
Up to 40 bar*

PISTON COMPRESSOR
Robust and reliable compression system

MANUAL / AUTO MODE
Flexible operation

MODULAR CONFIGURATION
Adaptable to project requirements

* Based on available product configuration.

4 Available Compressor Models

Several compressor models are available with different capacities to meet project requirements.

CS40B1 40 BAR 1 m ³ /min	CS40B1D 40 BAR 2 m ³ /min	CS40B1G 40 BAR 2 m ³ /min
Working Pressure 40 bar	Working Pressure 40 bar	Working Pressure 40 bar
Type Piston Compressor	Type Piston Compressor	Type Piston Compressor
Flow Rate 1 m ³ /min	Flow Rate 2 m ³ /min	Flow Rate 2 m ³ /min
Motor 15 kW (3P/50Hz/220V)	Motor 20 HP	Motor 30 HP
Dimensions (L x W x H) 1600 x 900 x 1250 mm	Dimensions (L x W x H) 1900 x 900 x 1300 mm	Dimensions (L x W x H) 1900 x 900 x 1300 mm
Operation System Manual / Auto Mode	Operation System Manual / Auto Mode	Operation System Manual / Auto Mode
Weight 680 kg	Weight 880 kg	Weight 880 kg

7 Additional Sizes for Large-Scale Projects

For commercial projects and systems with higher capacity requirements, larger compressor sizes are available. The selection of the appropriate system is based on biogas flow rate, required pressure, storage needs, and end-use applications.



Various sizes and configurations are available for commercial and industrial projects.

8 Consultation and Quotation

Each biogas project has unique characteristics and requirements. Provide your project information and our team will help determine the most suitable compressor configuration for your needs.

Information to provide:

- Biogas source (livestock, organic waste, etc.)
- Biogas production capacity
- Biogas flow rate
- Required pressure
- Storage system (type and capacity)
- Planned application (cooking, electricity, machinery, transportation, etc.)
- Project location
- Target installation timeline

CONTACT US



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