

GAS SERIES

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hertz[®]
KOMPRESSOREN



About Us

Founded in Germany in 2005, Hertz Kompressoren combines German engineering principles with the more than 60 years of industrial expertise and manufacturing heritage of Dalgakıran, whose journey began in Istanbul in 1965. As Dalgakıran's premium brand, Hertz develops advanced compressed air and gas compressor solutions designed to meet the evolving demands of industries worldwide. Its portfolio spans rotary screw and oil-free technologies as well as high-pressure gas compressor systems for applications such as CNG, hydrogen, biogas, biomethane and other process gases. With a strong focus on engineering excellence, reliability, efficiency and continuous development, Hertz delivers high-quality solutions across a wide range of industrial applications while continuing to support the industries of today and building the future.



900+
sales and after-sales
service locations worldwide



Kiev, Ukraine
Factory



Kocaeli, Türkiye
HQ - Factory

Reliable Gas and Process Solutions



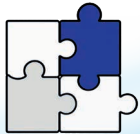
Engineering Excellence & Technology

R&D and Test Center



Air and Gas Compressors

60+ Years of Experience



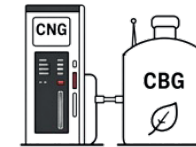
Customized Solutions

250+ Gas Compressors in Operation



Global Service Network

900+ Sales and Service Locations



Wide Product Range

Reciprocating and Screw Compressors, Gas-Sets, Mobile and Drying Solutions



Renewable Energy Solutions

Biogas, Biomethane, Hydrogen, Carbon Dioxide, etc.



ISO
9001:2015



ISO
14001



ISO
18001



ATEX Directive
2014/34/EU



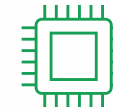
PED Directive
2014/68/EU



API 618 & 619
Compliant Compressors



Machinery Directive
2006/42/EC

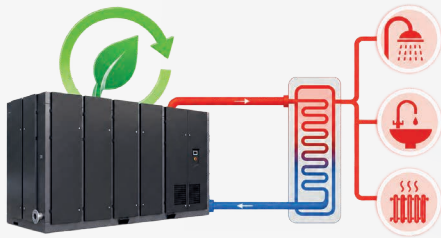


Electromagnetic Compatibility Directive
2014/30/EU

Key Solutions

Up to **35%**
energy saving

Energy Saving with Heat Recovery



In screw compressors, up to 75% of the electrical energy consumed can be recovered as heat. This recovered energy can be reused for process heating or hot water, reducing energy consumption and operating costs.

Energy Saving with VSD Technology



VSD technology automatically adjusts compressor speed to match real-time gas demand, helping reduce unnecessary energy consumption. By operating only at the required capacity, it improves efficiency, stabilizes system pressure and reduces overall energy demand.

Smart Control



Advanced controller technology enables centralized management of key compressor functions, with real-time monitoring, multi-compressor control and remote access. Intelligent automation supports stable, efficient and reliable operation across the entire system.

SmartBOX - Flexible Compressor Room

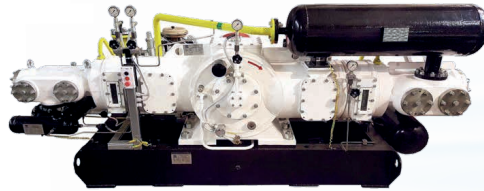


Containerized compressor rooms offer a compact, turnkey solution with integrated equipment and reliable operation in harsh conditions. Flexible configurations, VSD options and remote monitoring support efficient and easy system management.

Product Solutions



**Oil-Lubricated & Oil-Free
Reciprocating**
Bare Shaft Unit



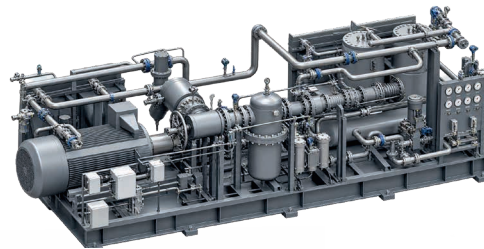
Skid-Mounted
Compressors



Gas-Set Compressor
Stations



Mobile Compressor
Solutions



**Oil-Injected & Oil-Free
Rotary Screw**
Compressors



**Gas Preparation, Purification &
Drying**
Unit

General Features

- Oil-lubricated and oil-free options
- Low inlet pressure capability
- Diesel, electric, or gas engine drive options
- Original concept design
- Horizontal or vertical layout options
- Low vibration with opposed cylinder design
- Air- or water-cooled configuration
- Designed for heavy-duty applications
- Acoustic enclosure
- Short delivery time

Gas Types

- Natural Gas
- Biomethane & Biogas
- Nitrogen
- Oxygen
- Carbon Dioxide
- Hydrogen
- Argon
- Fuel Gas
- Air
- Mixed Gases

Reciprocating Gas Compressors

Custom engineering for process and gas systems

Wide range of capacity and power options

Inlet pressure from **atmospheric to 250 bar**

Reliable performance up to **400 bar**

Maximum capacity of **10.000 m³/h**

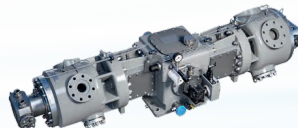
Operation at ambient temperatures from **-40 °C to +40 °C**

1.5SGI



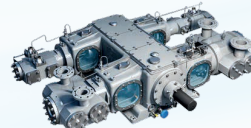
No. of Stages	2
Inlet Pressure	3-85 bar
Outlet Press.	400 bar
Power	37-75 kW
Capacity	150-1.170 m ³ /h

3SGI



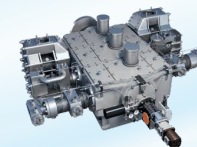
No. of Stages	2
Inlet Pressure	1,5-100 bar
Outlet Press.	400 bar
Power	37-160 kW
Capacity	250-1.500 m ³ /h

3SGH



No. of Stages	4
Inlet Pressure	0,3-1,5 bar
Outlet Press.	400 bar
Power	132-250 kW
Capacity	270-930 m ³ /h

3SGHI



No. of Stages	6
Inlet Pressure	Atmospheric
Outlet Press.	250 bar
Power	90 kW
Capacity	500 m ³ /h

6SGI



No. of Stages	2
Inlet Pressure	1-44 bar
Outlet Press.	250 bar
Power	160-315 kW
Capacity	470-2.500 m ³ /h

10SGI



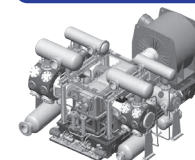
No. of Stages	2
Inlet Pressure	3 bar
Outlet Press.	250 bar
Power	160-600 kW
Capacity	1.000 m ³ /h

10SGH



No. of Stages	4
Inlet Pressure	Atmospheric
Outlet Press.	300 bar
Power	250-900 kW
Capacity	5.000 m ³ /h

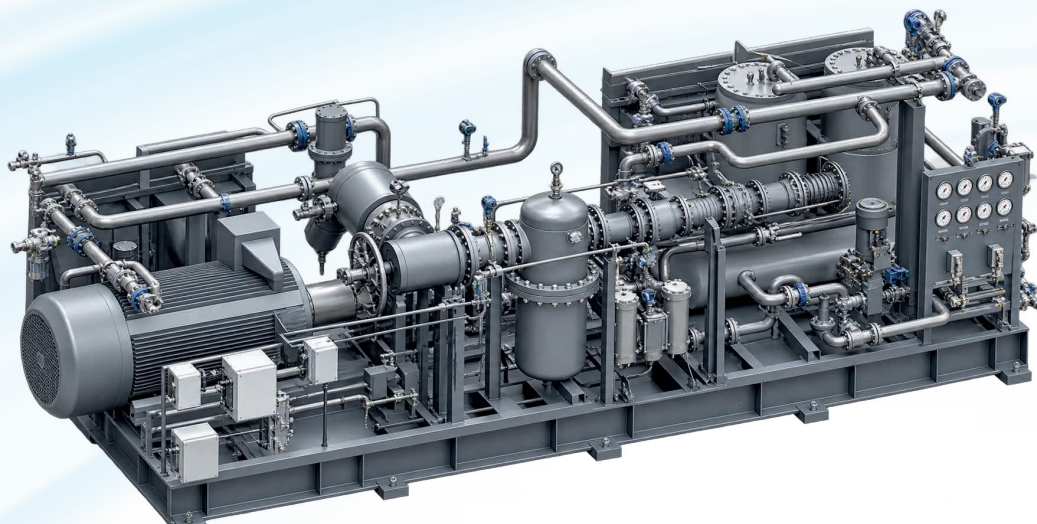
16SGH



No. of Stages	4
Inlet Pressure	Atmospheric
Outlet Press.	320 bar
Power	500-1.900 kW
Capacity	10.000 m ³ /h

Rotary Screw Gas Compressors

- High-efficiency compression with oil-injected and oil-free screw options
- Controlled and highly efficient operation
- Highly customizable solutions with a wide range of options
- Design suitable for different applications
- Robust design for various climate conditions
- Gas quality suitable for the upgrading process through integrated conditioning
- Capacity control adaptable to varying gas flow rates
- Stable pressure and gas flow suitable for the upgrading process
- Materials and sealing systems compatible with gas composition
- Effective cooling, condensate and gas conditioning management
- Smart control and process safety options
- Adaptable design for different upgrading technologies
- Profinet - Modbus TCP/IP



12-6.300
m³/h



11-670
kW



4-20
bar

From Engineering to the Field



Needs Analysis

Process conditions, capacity, pressure, and site requirements are determined.



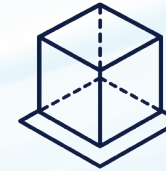
Gas Analysis

Gas composition, temperature, humidity, and process characteristics are evaluated.



System Design

The appropriate compressor type, stage configuration, and equipment are selected for the application.



3D Modeling, Engineering & Documentation

Skid, piping, and equipment layout are optimized through 3D modeling.



Manufacturing & Integration

The compressor and system components are manufactured and integrated onto the skid.



FAT – Factory Acceptance Test

The system undergoes performance, safety, and functional testing prior to shipment.



Shipment

Packaging and logistics planning are carried out in accordance with project requirements.



Commissioning

Site installation, inspections, start-up, and performance verification are carried out.



Service & After-Sales Support

System continuity is ensured through periodic maintenance, spare parts, and technical service support.

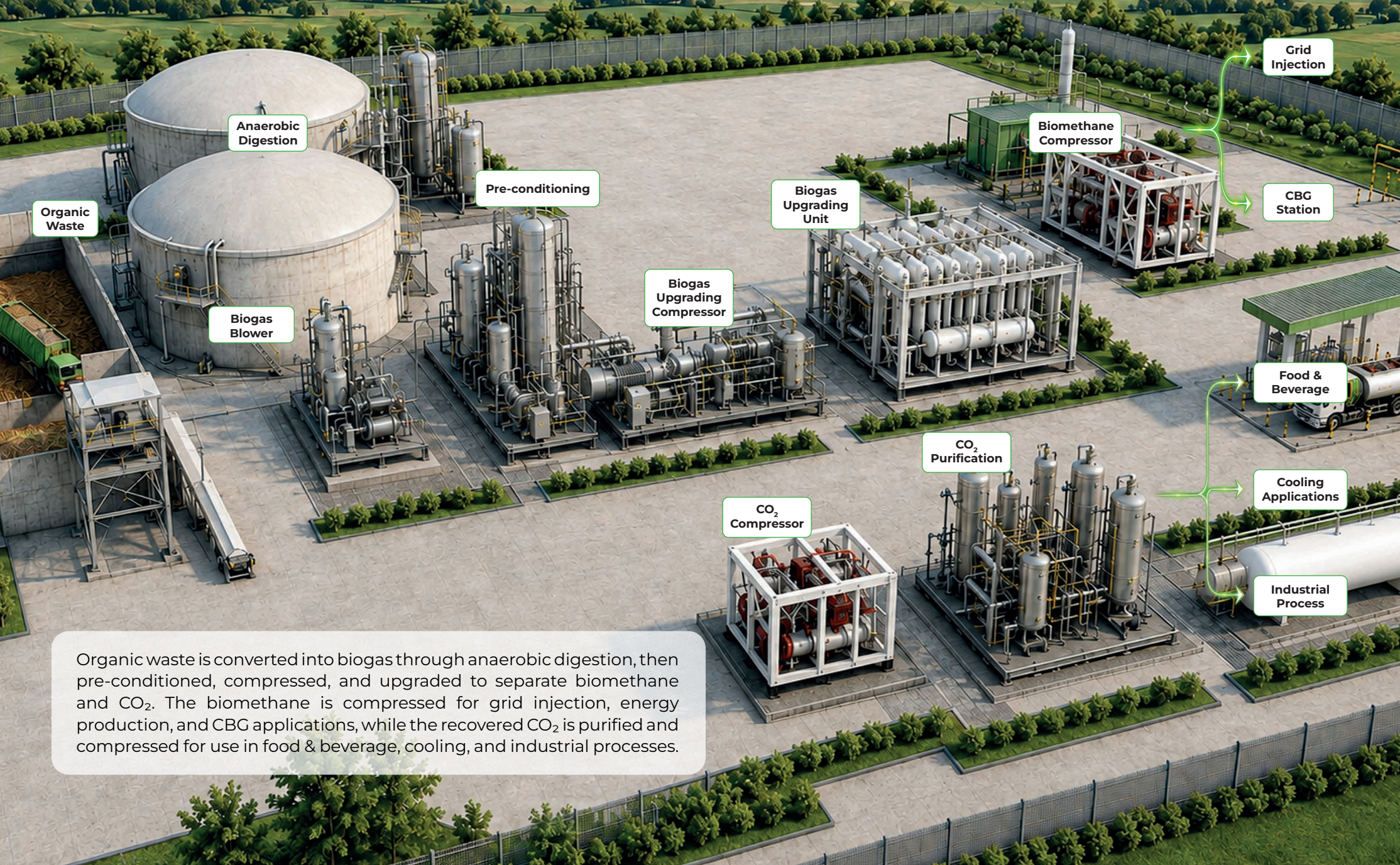


APPLICATIONS

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Biogas, Biomethane & Carbon Dioxide



Organic waste is converted into biogas through anaerobic digestion, then pre-conditioned, compressed, and upgraded to separate biomethane and CO₂. The biomethane is compressed for grid injection, energy production, and CBG applications, while the recovered CO₂ is purified and compressed for use in food & beverage, cooling, and industrial processes.

Oil & Gas

**APG
Recovery**

**Gas
Gathering**

Wellhead

**Gas
Reinjection**

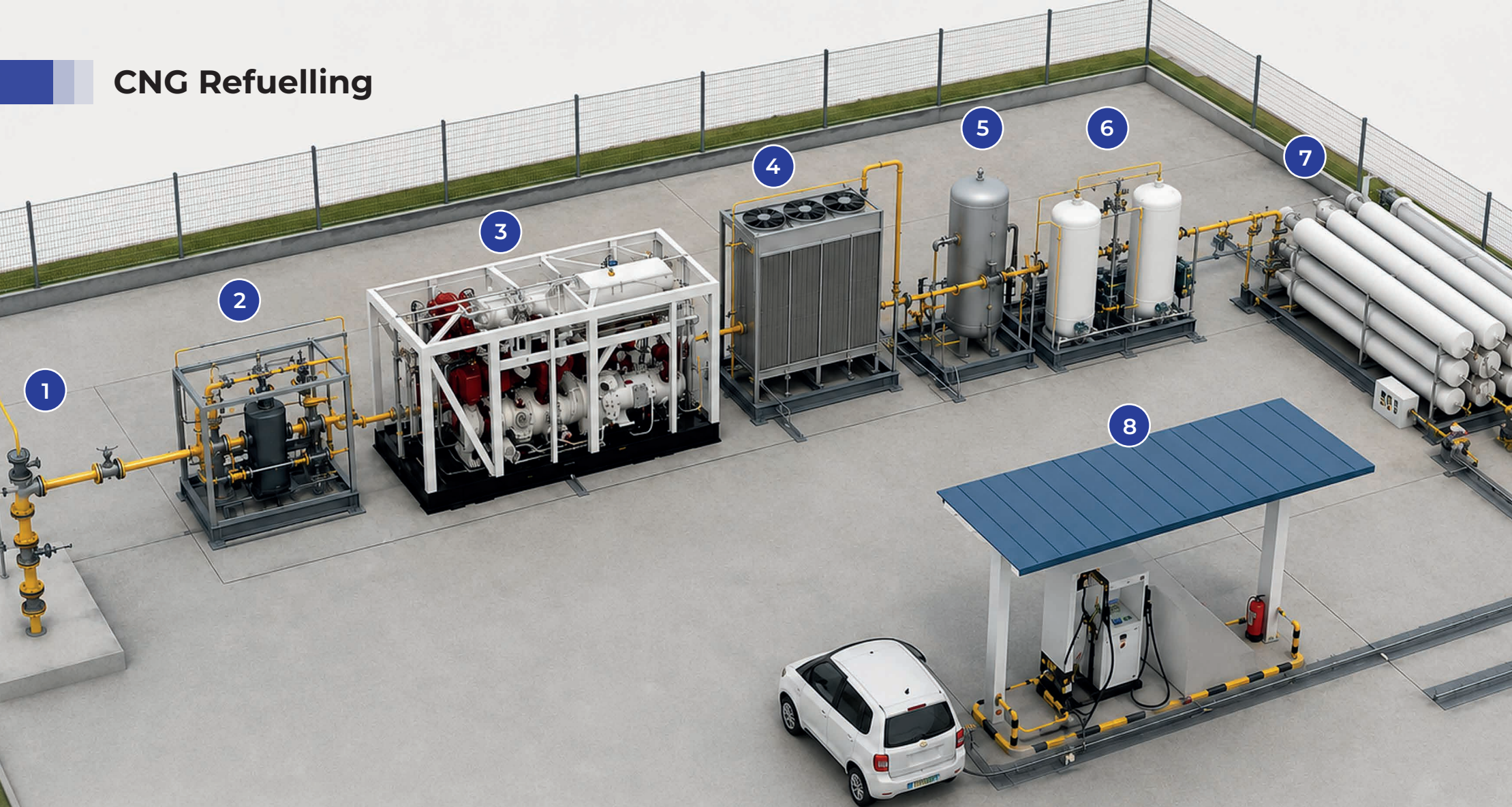
**Fuel
Gas**

**Vapour
Recovery**

**CNG Virtual
Pipeline**



CNG Refuelling



1

Inlet Line

Natural Gas Inlet Point

2

Gas Treatment Unit

Filtration, Coalescer & Drum Separator

3

Gas Compressor

For CNG filling applications, up to 600 kW oil-lubricated/oil-free reciprocating compressor operating in the 200–250 barg pressure range.

4

Aftercooler

Gas Cooling

5

Activated Carbon Filter

Oil vapor and odor removal

6

Adsorption Dryer

Moisture removal

7

High-Pressure Storage

Cascade storage at 250 barg

8

Filling Unit

CNG dispenser and metering system

Virtual Pipeline

Gas Compressor

Natural gas is compressed to high pressure (250 barg) and filled into transport units.

High-Pressure Transportation

Gas is safely transported by road using high-pressure tankers or tube trailers.

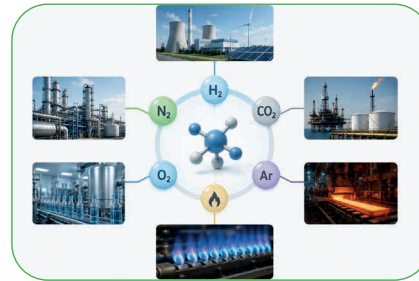
Natural gas is compressed at a central facility and loaded into high-pressure tankers or tube trailers. It is then transported by road to locations without pipeline access, such as hotels, factories, and stations, where it is made available for on-site use.

HOTEL

FACTORY

STATION

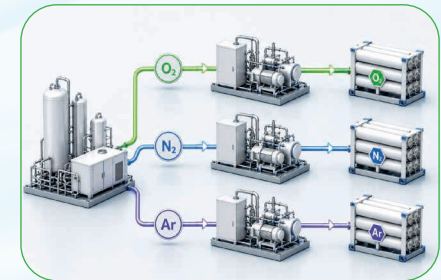
Other Applications



All Process Gases



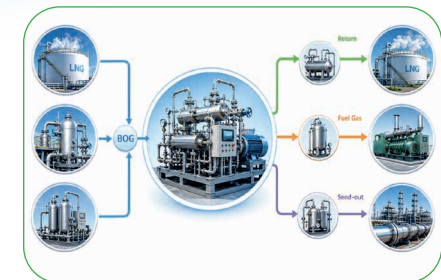
Hydrogen



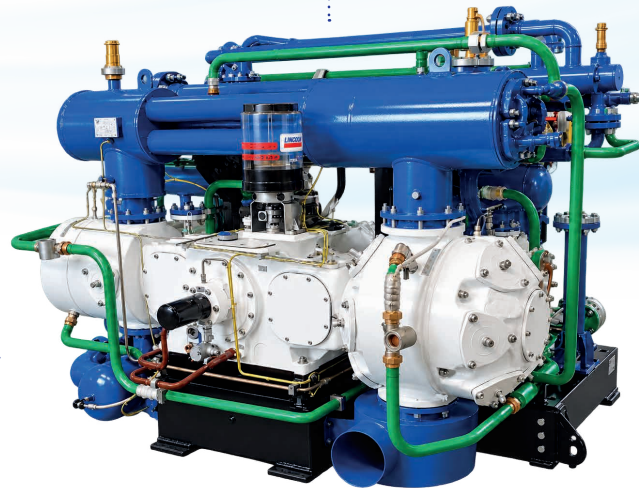
O_2 - N_2 -Argon Boosting



Air Separation Unit



Boil off Gas



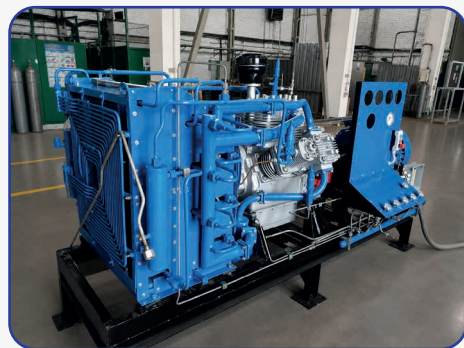
Power Generation
Fuel Boosting



Flare and
Exhaust Recycle

References

Defence



Air

Oil Lubricated Reciprocating

230 bar

140 m³/h

45 kW

Ukraine

Natural Gas



Natural Gas

Oil Lubricated Recip. - Mobile

250 bar

833 m³/h

110 kW

Turkmenistan

Iron & Steel



Argon

Oil-Free Reciprocating

22 bar

600 m³/h

18,5 kW

Türkiye

Hydrogen



Hydrogen-rich gas mixture

Oil-Free Reciprocating

40 bar

2.600 m³/h

55 kW

Poland

Industrial Gas Production



Air

Oil Lubricated Reciprocating

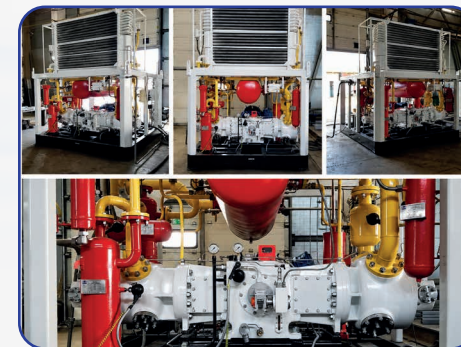
70 bar

3.300 m³/h

630 kW

Kazakhstan

Bio-CNG Station



Bio-CNG

Oil Lubricated Reciprocating

245 bar

942 m³/h

110 kW

Ukraine

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