

# CNG

.....  
**RECIPROCATING GAS COMPRESSORS**

MADE & DESIGNED IN ITALY 



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**FORNOVOGAS**  
WE MOVE ENERGY  
MADE IN ITALY

# Since 1969



1969

## FOUNDATION



Dr. Carlo Bauzone founded Fornovo Gas, creating a company that immediately stood out for its innovation and passion for gas compression.

2004

## FIRST COMPRESSOR



The first reciprocating compressor, fully developed with Fornovo Gas technology, is introduced, marking a crucial moment in our innovation journey.

2009

## CERTIFICATIONS



Fornovo Gas earns ISO 9001, ISO 14001, and ISO 45001 certifications, affirming its commitment to excellence and quality.



2019

#### EXPANSION

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Fornovo Gas compressors are now operational in 60 countries, spreading our technology worldwide.

2021

#### HYDROGEN

.....

The range of alternative compressors for hydrogen is launched, marking another significant milestone in our mission to support the energy transition.

2024

#### TODAY

.....

Fornovo Gas, a certified Benefit Society, continues to innovate in sustainable solutions. With a strong commitment to carbon neutrality by 2030, the company expands its international presence, driving the global energy transition.

# About Us

For over **55 years**, Fornovo Gas has been synonymous with **innovation, sustainability**, and a strong sense of family passion.

Founded as a **family-run business**, our company has grown into a **global leader** in the **design and production of alternative gas compressors**.

Delivering **high-performance, customized solutions** for a wide range of applications: Biogas, Biomethane, CO<sub>2</sub>, Industry, CNG, Hydrogen, and more...

With a **worldwide network** of partners and clients, we continue to innovate and expand while staying true to the values that have brought us this far:

Meticulous **attention to detail**, unwavering **dedication**, and a **commitment** to delivering solutions that meet today's needs while anticipating the challenges of tomorrow.

## Benefit Society

Since 2022, Fornovo Gas has been a **Benefit Society**.

This decision strengthens our commitment to combining industrial innovation with ambitious **environmental, social, and governance (ESG) goals**.

As a Benefit Company, we align ethical responsibility with tangible results: delivering advanced technologies that **respect the environment, support sustainable development, and create value** for our clients, communities, and people.

This model allows us to provide cutting-edge, reliable solutions while embracing a more **responsible vision** for the future, a path toward progress that benefits everyone.

## Our Numbers

**3000+**

COMPRESSORS  
INSTALLED  
WORLD WIDE

**20 %**

STEADY GROWTH  
IN ORDERS

**120**

OVER 120  
EMPLOYEES

**60**

OPERATING IN  
MORE THAN 60  
COUNTRIES

**2**

AMAZING  
DOGS

# Our Values

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## QUALITY AND RELIABILITY

.....

Our compressors are designed and manufactured in Italy, ensuring top-notch **Made in Italy** quality, reliability, and performance.



## TECHNOLOGICAL INNOVATION

.....

Revolutionary **oil-free compressors**: the clean, powerful choice for tomorrow's industries.



## TAILOR MADE

.....

Every client is **unique**, and so is every solution we deliver.



## CORPORATE SUSTAINABILITY

.....

Operating with a focus on **sustainability**, delivering compressors designed for a greener future.



## PARTNERSHIP AND COLLABORATION

.....

We believe **teamwork** is the key to overcoming energy challenges.



## FAMILY TRADITION

.....

A **family-run business** that puts people first, fostering strong and lasting relationships with clients and partners.

## The White Twins

.....

We're not just experts in gas compression...  
**WE'RE A TEAM !**

**Sonny** and **Mizu**, our beloved office dogs, are proud members of the **Fornovo Gas family**.

With their boundless energy and loyalty, they embody our core values of **dedication**, **reliability**, and **teamwork**.



# Our Products

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POWER kW	MODEL	Bore (mm)	Acting Strokes (mm)	MAWP (bar/g)	Cooling	Cylinder	Cylinder	APPLICATION							
								CH4	Bio CH4	N2	CO2	Sour Gas	Toxic Gas	H2	Syngas
1800	<b>DA500</b>	500 400 300 220 185 150 115	DOUBLE ACTING 80 110 370-190 240-140 160-80 100-55	17,5 34,7 62 70,5 100 140 275 48 143 275 500	Air Liquid	LUBE OIL FREE NO LUBE	B-C B-C B-C B-C B-C B-C B-C B-C B-C B-C B-C B-C	Bone dry gas seals Ni-plated surface treatment Cylinder lubrication system Packings Nitrogen buffer							
315	<b>DA300</b>	320 240 150 90	DOUBLE ACTING 100 90 200-130 100-50	10 40 90 133 220 275 375			B	Bone dry gas seals Ni-plated surface treatment							
55	<b>SA200</b>	150 80	SINGLE ACTING 50-25 40-20	50 100 306 500			B	Bone dry gas seals Ni-plated surface treatment Packings Nitrogen buffer							
7	<b>SA50</b>	65 45 37	SINGLE ACTING 40	14 14 42			OIL LESS								

# No Lube Technology

.....

NO LUBE TECHNOLOGY ELIMINATES LUBRICANTS, USING DRY-RUNNING MECHANISMS TO REDUCE MAINTENANCE, IMPROVE EFFICIENCY, AND EXTEND COMPONENT LIFE, ENSURING CLEANER, MORE RELIABLE OPERATION WITH LOWER OPERATIONAL COSTS.



## COST AND MAINTENANCE REDUCTION

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No Lube technology eliminates the need for lubricants, **reducing purchase and management costs**. This leads to less frequent maintenance and **increased system reliability**.



## INCREASED ENERGY EFFICIENCY

.....

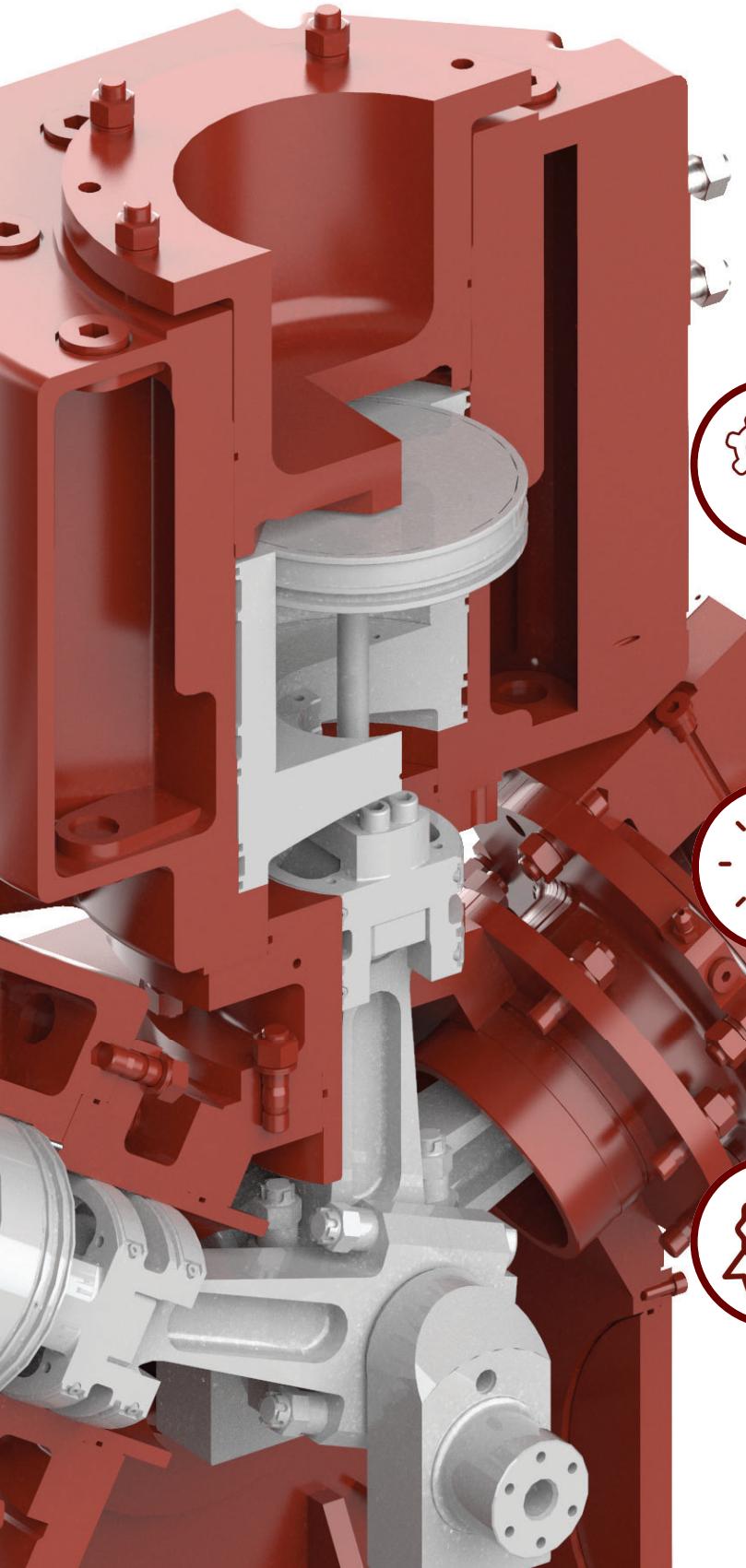
Without the **risk of oil contamination**, compressors operate cleaner and more efficiently, **reducing energy consumption** and environmental impact.



## LONGER LIFESPAN AND RELIABILITY

.....

The absence of lubricants reduces component wear, **improving the system's lifespan** and reliability, with fewer risks of failures or malfunctions.



# The Product

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## VERTICAL RECIPROCATING COMPRESSOR

The **SA200** is one of our flagship solutions for biogas and biomethane compression, designed to deliver **maximum efficiency** and **reliability**.

With its robust and technologically **advanced design**, the SA200 handles gases with **high variability** in composition and pressure, ensuring **optimal performance** under all operational conditions.

\* Measurements can differ based on the selected bore size.



# SA200

# MAIN Specifications

- > **OPERATIONAL SPEED**  
From 600 up to 1800 rpm
- > **STROKE**  
65 mm
- > **POWER OUTPUT**  
Up to 55 kW

# Technical Specifications

## CYLINDERS AND BORES

The SA200 offers a **wide range of cylinders** and **bore sizes**, providing significant **flexibility** to meet the specific needs of each application.

## DIRECT COUPLING COMPRESSOR-MOTOR

This integrated system ensures energy transmission with **minimal losses**, **optimizing efficiency** and **reducing system complexity**.

## Available Configurations

### LUBRICATION

No Lube | Oil-Free

### COOLING SYSTEM

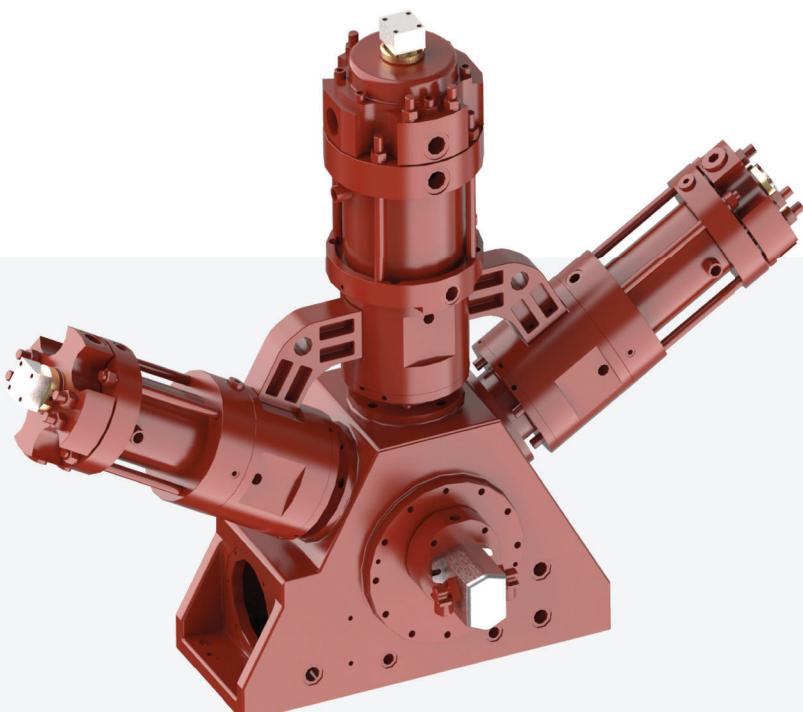
Air | Liquid

### CYLINDERS CONFIGURATION

Vertical

### CYLINDER NUMBER

1 | 2 | 3



# Advantages



ITALIAN  
QUALITY



EASY  
MAINTENANCE



ENERGY  
EFFICIENCY



EXCELLENT  
FLEXIBILITY



DISTANCE  
PIECE TYPE  
B

# The Product

.....

## VERTICAL RECIPROCATING COMPRESSOR

The **DA300** compressor is designed for **efficiency** and **versatility**, ideal for applications such as biomethane injection, carbon capture, LNG production, pipeline transmission, and refueling stations.

Its **compact size** fits easily into complex environments, while offering low oil consumption, minimal vibrations, and compatibility with any intake pressure. **Easy to maintain**, it ensures **cost-effective, reliable** performance across a wide range of industrial uses.



\* Measurements can differ based on the selected bore size.



# DA300

## MAIN Specifications

- > **OPERATIONAL SPEED**  
From 500 up to 1200 rpm
- > **STROKE**  
100 mm
- > **POWER OUTPUT**  
Up to 280 kW

# Technical Specifications

## CYLINDERS AND BORES

The DA300 offers a **wide range of cylinders** and **bore sizes**, providing significant **flexibility** to meet the specific needs of each application.

For the DA300, we also offer the option of **TANDEM** cylinders, allowing two compressor bodies to be mounted on a single skid, resulting in a vertical compressor with up to **6 cylinders**.

## DIRECT COUPLING COMPRESSOR-MOTOR

This integrated system ensures energy transmission with **minimal losses, optimizing efficiency, reducing system complexity** and maintenance.

## Available Configurations

### LUBRICATION

No Lube | Oil-Free

### COOLING SYSTEM

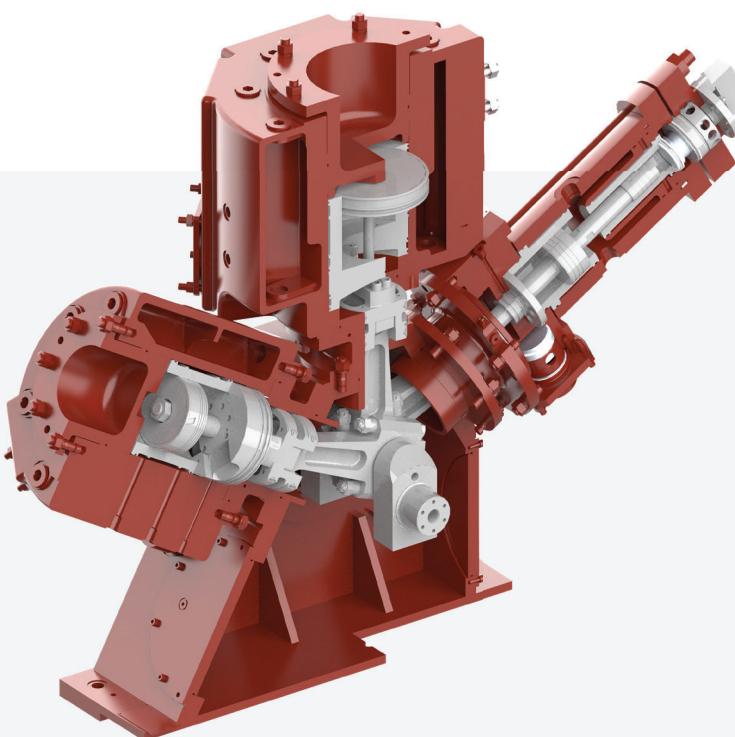
Air | Liquid

### CYLINDERS CONFIGURATION

Vertical

### CYLINDER NUMBER

1 | 2 | 3



# Advantages



ITALIAN  
QUALITY



EASY  
MAINTENANCE



ENERGY  
EFFICIENCY



EXCELLENT  
FLEXIBILITY



DISTANCE  
PIECE TYPE  
B

# DISPENSERS

## Main Specifications

- > **Twin hose** fitted with breakaway
- > **Recovery of the servo assisted hose** - to reduce wear caused by rubbing
- > **Electro pneumatic valves** with pre-filled actuator
- > **Larger diameter pipes** - for superior performance
- > **Inlet filter** on each line
- > End of **refuelling pressure gauge**
- > **NGV1** nozzle



**ERM 4M**

### PRESSURE LEVELS

1 | 2 | 3

### REFULLING POINTS

4

### ERMs

- > **High capacity mass meter** - precision +/- 0.5%
- > **Excess flow valves**
- > **Independent electronic head** for each refuelling point
- > **Backlit LCD display**
- > **Mechanical totals meter**



**ERM**

### PRESSURE LEVELS

1 | 2 | 3

### REFULLING POINTS

1 | 2



**ERV**

### PRESSURE LEVELS

1

### REFULLING POINTS

1 | 2

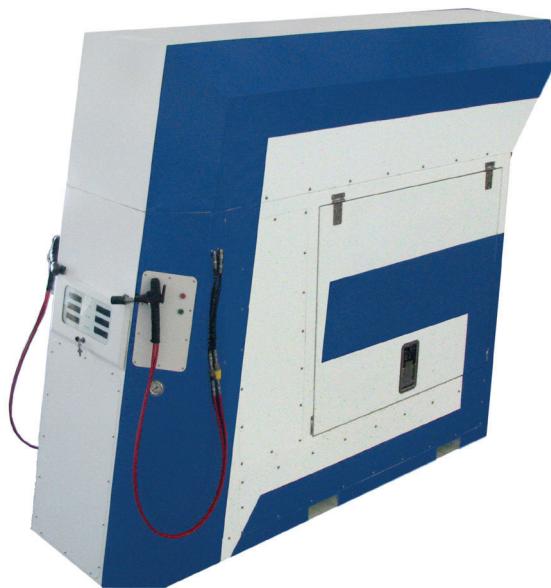
### ERV

- > **Emergency push button**

# GASVECTOR CITY

## COMPACT STATION

Gasvector City is a compact modular unit that **integrates** a **compressor**, **dispenser**, **storage system**, and **priority panel**. It only requires **electricity** and **compressed air** to operate.



### COMPRESSOR TECHNICAL DATA

#### Nº CYLINDERS

2 | 3 No Lube

#### NºSTAGES

1 | 2 for daughter station  
3 | 4 for online

#### INLET PRESSURE

20-220 bar for daughter station  
1-20 bar for online

#### OUTLET PRESSURE

200-250 bar

#### MOTOR COUPLING

Belt

### MOTOR TECHNICAL DATA

#### POWER SUPPLY

400V - 50Hz | 440V - 60Hz

#### POWER

22-55 kW

#### ROTATIONAL SPEED

1500-1800 rpm



### OPTIONS

- > **Storage:** 2 lines- 320l max 250 bar
- > Compressor only (no dispenser)
- > Integrated with 1-2 hoses dispensers
- > Integrated with 2 hoses dispensers, operating alternately

# Optional Equipment

## FG STOCK



### CYLINDER CAPACITY

80 L

### Nº CYLINDER

14 | 21 | 28

### PRESSURE LEVELS

1 | 2 | 3

### GAS LINES

1 | 2 | 3

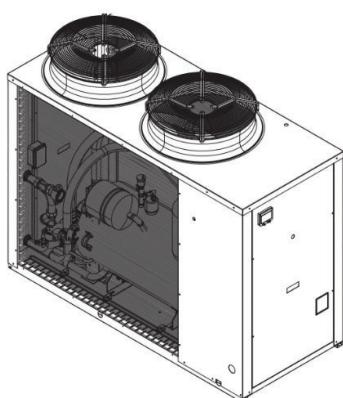
> **Safety valves** for protection at the different pressure levels

> **Inbuilt priority panel**

with or without enclosure



## CNG CHILLER



## GAS DRYER



> LP or HP

> Manual or Automatic

## What We Do

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# Choose Our Services



### EXPERTISE YOU CAN TRUST

.....

Our team comprises **certified technicians and engineers** with extensive experience in gas compression technology, ensuring your systems receive the **highest standard of care**.



### CUSTOMIZED MAINTENANCE PLANS

.....

We offer **maintenance programs** designed to meet your specific operational needs, **minimizing downtime** and **maximizing performance**.



### GLOBAL SUPPORT NETWORK

.....

With a robust **global presence**, our service network ensures **timely assistance** and **quick access to spare parts**, no matter where you are located.



### LONG TERM SUPPORT

.....

We aim to **build lasting relationships** with our **clients**, providing continuous support throughout the compressor's lifespan to ensure optimal performance and quality service.



### SPARE PARTS

.....

We supply **original Fornovo Gas components**, guaranteeing compatibility and maintaining the integrity of your equipment.



### TRAINING & KNOWLEDGE SHARING

.....

We empower your team through **specialized training sessions**, enhancing operational efficiency and ensuring safe and effective equipment handling.

# R&D Software

Fornovo Gas has developed a **simulation software**, designed to predict the **performance** of compressors

**proprietary system**, an advanced system, in relation to specific applications.

## CONFIGURATION OPTIMIZATION

The software is designed to **predict** and **optimize** compressor configurations tailored to the specific requirements of industrial processes. This helps **improve efficiency** and **system performance**.



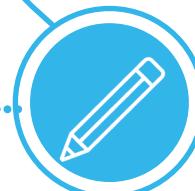
## PERFORMANCE SIMULATION AND ANALYSIS

It allows for **simulating** compressor operation under various scenarios and **analyzing** their performance in real-time, providing data and forecasts to optimize operations and **reduce energy consumption**.



## CUSTOMIZATION FOR SPECIFIC PROCESSES

The software can be adapted to different industrial applications, offering **customized configurations** that meet the precise needs of each client, ensuring high performance and maximizing system reliability.



# WE MOVE ENERGY



**SCAN**

To Learn More  
About Our  
Compressors



**SCAN**

To see Sonny &  
Mizu Calendar.



Fornovo Gas S.p.A

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