



cuboGas

CuboGas

The best way to deliver
compressed natural gas



The Company

Cubogas s.r.l. is an international leader in the design, development and production of technological solutions for the supply of natural gas, biomethane and hydrogen for transportation. The company is based in Cherasco, Piedmont, and operates across the Italian and international markets.

With over 80 years' experience and having built more than 3,000 installations all over the world, **Cubogas s.r.l.** has also incorporated maintenance engineering company M.T.M.'s design, development, and production activities dedicated to technological solutions for natural gas refueling stations. These assets were acquired by Snam4Mobility in July 2018.

Snam4Mobility, of which CuboGas is a subsidiary, seeks to promote the growth of Italy's natural gas for the transport distribution network, both investing directly in the network and supporting other operators willing to invest autonomously. The objective is to facilitate the development of refueling infrastructure and create a more balanced distribution across the Italian regions whilst improving the quality of the service provided to users.

Snam is the leading gas utility company in Europe and holds the majority controlling interest of Snam4Mobility. Founded in 1941, Snam has been building and managing sustainable and technologically advanced infrastructures to guarantee energy security for over 75 years.



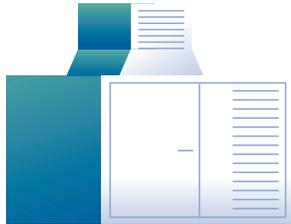
Why CuboGas?



Reliability

A life expectancy of 20–30 years with proper maintenance

CUBOGAS provides an high level of reliability resulting from high values of **MTBF** (Mean Time Between Failures) and **MTTR** (Mean Time to Repair) performance indicators.



Also, a huge inventory is always available to quickly fulfill any customer's request in short time to provide spare parts needed for repair.



Energy Saving

Cubogas compressors are optimized for the actual operating conditions, thus guaranteeing relevant energy savings



CuboGas Smart

Proprietary software allowing constant supervision and remote control of refueling stations



The interactive CuboGas Smart offers:

- **E-CARE** allows the technician to connect to the CuboGas package CPU, perform the diagnosis of potential anomalies, optimize the system operation parameters, and organize the service.
- **REMOTE CONTROL** available for both customers and the CuboGas service department and allows access to all system data regarding the compressor status: pressure, temperature, and capacity. In case of alarms, CuboGas smart is able to remotely detect the cause of the failure.
- CuboGas smart can also be connected to the gas flow meter and dispensers **IN REAL TIME**.



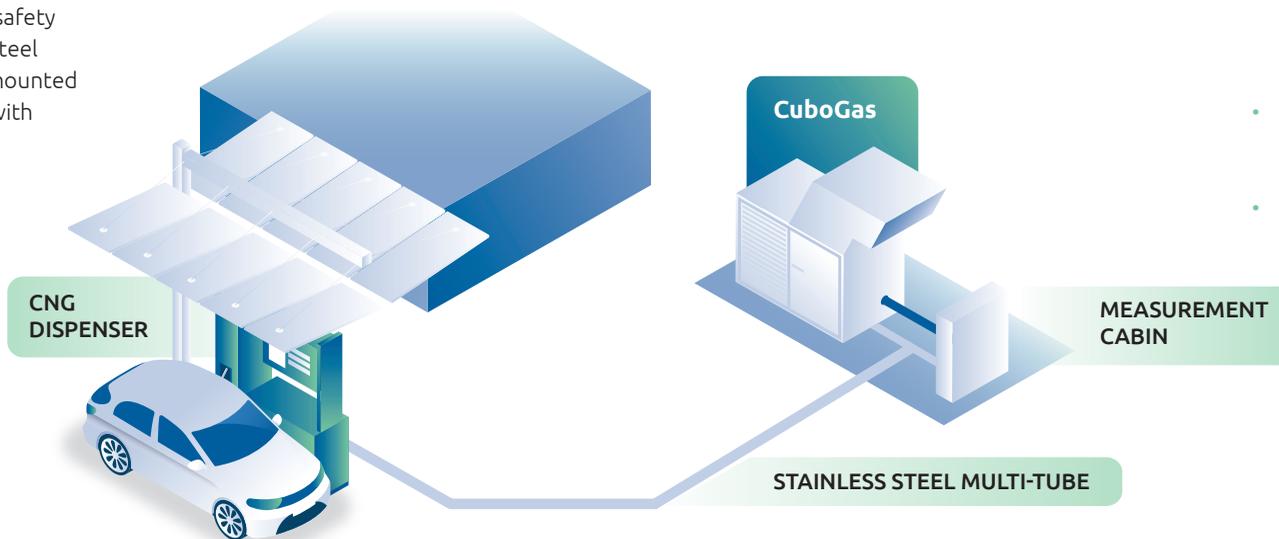
Immediate Response Time

Detection and remote assistance for alarms

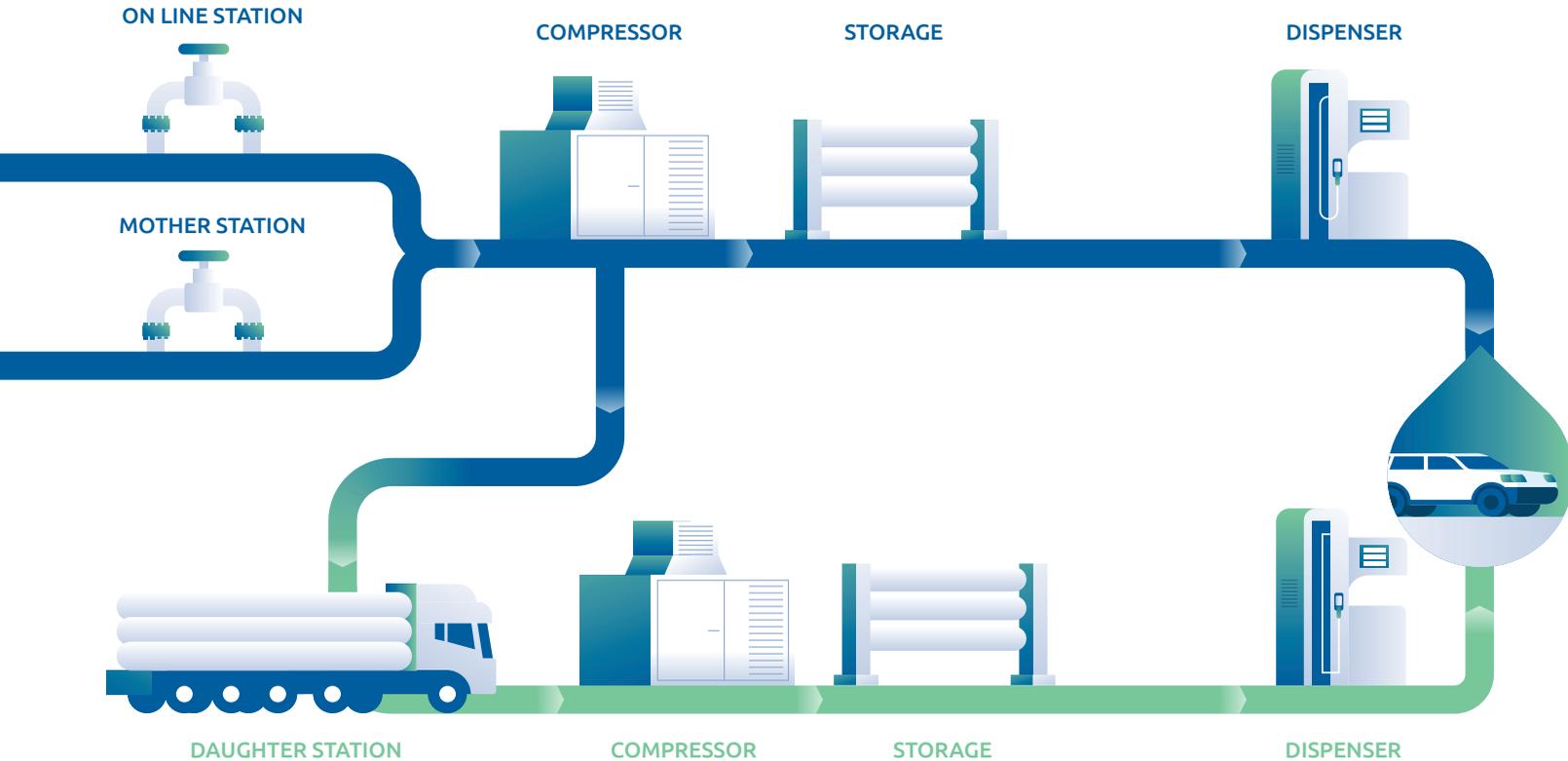
The Cubogas system provides access to data through both PC and mobile device online connections. In case of alarms, the system immediately detects the causes so that remote assistance can be started quickly, avoiding stoppage times when possible.

Technical Advantages

- Best-in-class electrical efficiency
- Best-in-class remote control system
- Low rotational speed to limit wear of key components and reduce maintenance intervals
- Integrated HT solutions with 1° safety protection (1° degree stainless steel structure cabin/doors) or SKID mounted onto concrete cabins or rooms with pedestrian doors
- Cooling system mounted on board (no external coolant piping or any other further accessory situated within the technical area)
- CNG station area free from auxiliary devices (chiller or any other accessory)
- Vertical compressors are compact and can be installed where space is a constraint
- Long piston stroke means high capacity at lower rotational speed and lower maintenance
- Minimal wear on moving components with low maintenance requirements
- V-belt (granting lower wear and higher reliability through the years) or direct coupling upon request
- Simultaneous and fast refueling to several vehicles
- Liquid-cooled cylinders enable better filling efficiency and less wear of piston riders and rings
- No pressurized crankcase for safe maintenance
- CuboGas Smart to remotely monitor station operations



Refuelling Stations



Special Applications

- Boil-off recovery
- Biomethane compression
- Hydrogen compression
- Gas turbine feeding
- Oil & Gas
- Wellhead extraction
- Refueling of trailers
- Refueling of light/medium/heavy duty vehicles

CuboGas Performance



A Series

POWER **37 – 110 kW**

INLET PRESSURE **0.5 – 100 bar**

CAPACITY **100 – 1,900 Sm³/h**

- Available with or without soundproof enclosure
- Available with or without internal storage
- 2, 3 or 4 stages of compression
- Electric motor driven V-belt coupled
- Suitable for public or private stations for fast or slow filling of light vehicles
- Suitable for CNG applications up to 110 kW
- Touch screen power-control panel
- Integrated blowdown system
- Air-cooling for gas and oil compressor frame



1B Series

POWER **up to 110 kW**

INLET PRESSURE **20 – 200 bar**

CAPACITY **545 – 3,750 Sm³/h**

- Specifically designed for daughter station applications
- Suitable for CNG applications up to 110 kW
- Available with or without soundproof enclosure
- 1 or 2 stages according to inlet pressure
- Electric motor driven V-belt coupled
- Suitable for daughter stations Suitable for daughter stations
- Integrated blowdown system
- Air cooled
- Water jacket cylinder
- Touch screen power-control panel



2B Series

POWER **Up to 250 kW**

INLET PRESSURE **0.5 – 100 bar**

CAPACITY **300 – 4,000 Sm³/h**

- Available with or without soundproof enclosure
- Suitable for CNG applications up to 250 kW
- Available with or without internal storage
- 2, 3 or 4 stages
- Electric motor driven V-belt or direct coupled
- Suitable for public or private stations for fast or slow filling of heavy commercial vehicles and for mother stations as well
- Air-cooling for gas
- Liquid cooled
- Touch screen power-control panel
- Integrated blowdown system



4B Series

POWER **20 – 600 kW**

INLET PRESSURE **1 – 100 bar**

CAPACITY **600 – 9,800 Sm³/h**

- Available with or without soundproof enclosure
- 2, 3, 4, or 5 stages
- Electric motor driven V-belt, direct coupled
- Suitable for mother stations
- Suitable for CNG applications in range of 200 – 600 kW
- Touch screen power-control panel
- Air or water cooled



Hydraulic

POWER 15 – 55 kW

INLET PRESSURE 30 – 250 bar

CAPACITY 85 – 3,000 Sm³/h

- Specifically designed for daughter and on-line stations
- Available with or without soundproof enclosure
- Fully assembled and factory tested
- Inlet and outlet gas piping
- Electric motor / Gas engine
- Hydraulic pump
- Pneumatic circuit
- Liquid cooled
- Automatic reversing valve



W Series

POWER 55 – 200 kW

INLET PRESSURE 0.5 – 70 bar

CAPACITY 200 – 3,650 Sm³/h

- 3 stages (4 with booster)
- Air or liquid cooled
- Station lubrication system with separate pump
- and preheating system
- Electric motor
- Blowdown system on board
- V-Belt or direct coupling



Pocket 200

POWER 37 – 45 kW

INLET PRESSURE 1.5 – 5 bar

CAPACITY 74 – 200 Sm³/h

- Fully integrated unit
- Available with one or two fill hoses
- Internal storage 480 – 640 liters
- Not lubricated cylinders
- Compact solution easy to install and maintain



Pocket 400

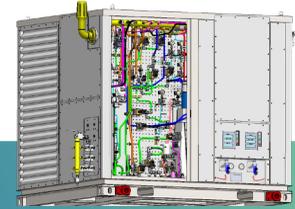
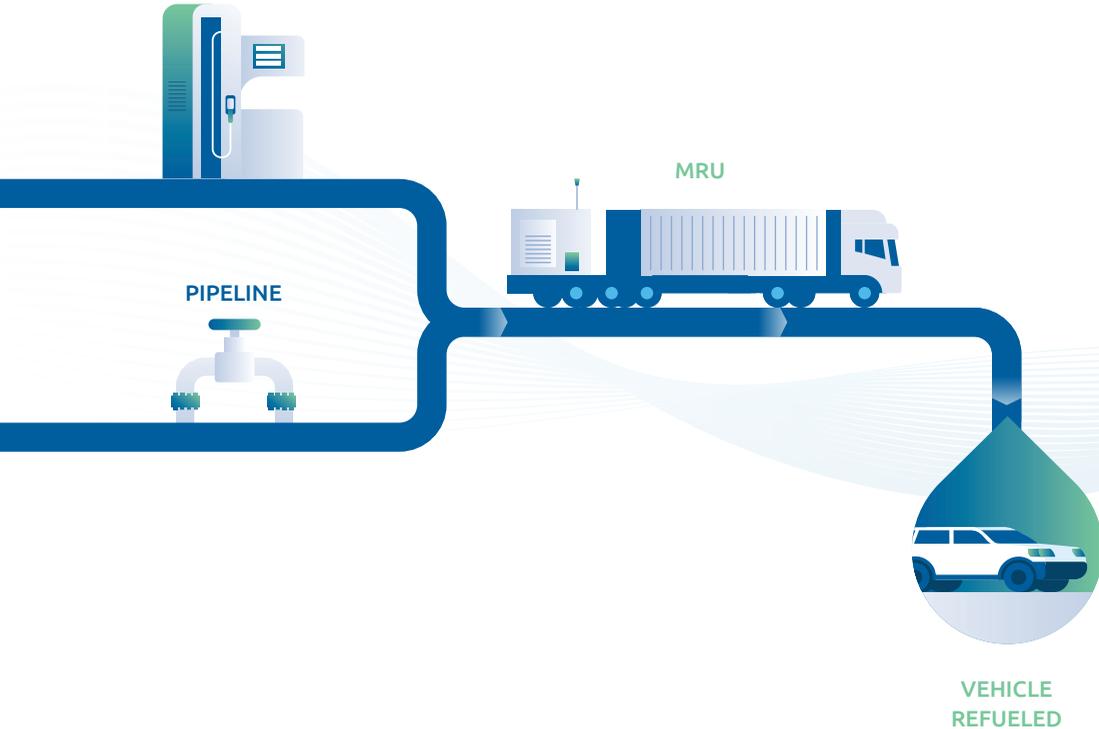
POWER 55 – 110 kW

INLET PRESSURE 0.7 – 70 bar

CAPACITY 120 – 1,600 Sm³/h

Mobile Refilling Unit

REFUELING STATIONS



MRU – Mobile Refilling Unit

- Suitable to be fixed on a trailer for road transportation
- Available with hydraulic or reciprocating compressor
- Available with electric or gas engine
- Inlet pressure min/max: 25/250 barg
- Capacity @ inlet pressure min/max: 50/3,000 Sm³/h
- Dispenser: integrated with multiple filling hoses

CUBOGAS FULL SERVICE



Product support and warranty



Full service



Service and maintenance



Remote assistance



Genuine spare parts



Service within 48h

Additional Accessories

DISPENSER

Features a high-profile cabinet built to withstand harsh forecourt conditions while maintaining an attractive appearance. Single and dual-hose models available. Equipped with ergonomically mounted nozzle holders and available with variety of nozzle configurations. Features one, two or three pressure levels, mass flow meter, electronic temperature compensation.



STORAGE

A complete variety of storage systems with different capacities, to provide the best solutions for any type of application.



GAS DRYER

Natural gas dryers remove water vapor from the methane prior to storing. High water content can cause blockage of CNG in fueling systems and can contribute to corrosion in storage vessels and piping. Available as manual, single or double tower and automatic dryers.

CHILLER

Integrated hydraulic group providing total heat recovery for sustainable use of electricity. Composed of either single or double circulation pump with mid and high available head pressure, storage tank, expansion vessel, automatic load kit, automatic vent valve and drainage tap.



Turnkey Solutions

Engineering

Manufacturing

Testing

Installation

Start-up

Maintenance



Cubogas state-of-the-art systems are engineered and designed according to customers' needs. In house manufacture along with testing grant the highest efficiency. The offer is completed through a startup service carried out by professional technicians.

Cubogas, the only solution for automotive refueling, industrial and Oil & Gas applications.



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