



High-Pressure Gas Transport & Storage Solutions

CNG • Biogas • Hydrogen





gaznet



Engineering Safe and Sustainable Gas Logistics

At Gaznet, we specialize in high-pressure gas transport and storage systems for CNG, biomethane, and hydrogen. Our mission is to deliver engineered solutions that ensure reliability, efficiency, and safety across all stages of gas logistics — from production to consumption.

With cutting-edge composite technology, modular containers, and trusted partners like UMOE Advanced Composites, we offer solutions that help businesses and infrastructure move confidently into the clean energy future.

- **CNG Containers**
- **Hydrogen Containers**
- **Tube-Trailer Solutions**
- **Mobile Refilling Units**
- **Daughter Stations**
- **Hooklift Containers**

CNG Transport Containers

Our partnership with UMOE Advanced Composite ensures that our containers meet the highest quality standards. For CNG and Biogas applications, Gaznet utilizes UMOE's advanced composite cylinders, renowned for their durability, corrosion resistance, and lightweight design. These containers are engineered to withstand transportation and storage, providing optimal performance and peace of mind for our customers.

- ✓ **2 times more CNG with one fill**
- ✓ **Close to the price of steel cylinders**
- ✓ **Up 10 times less connections than steel cylinders**
- ✓ **A safety factor of 3.0 or above**

		20 ft std	20 ft HC	40 ft std	40 ft HC	45 ft std	45 ft HC
container standard		ISO/ADR	ISO/ADR	ISO/ADR	ISO/ADR	ISO/ADR	ISO/ADR
quantity of cylinders	#	9	11	18	22	18	22
volume of cylinders	(l)	1 666	1 666	1 666	1 666	1 925	1 925
Volume of container (MEG)	(l)	15 000	18 333	30 000	36 666	34 650	42 350
Work pressure at 15°C	(bar)	250	250	250	250	250	250
Volume of gas at 15°C	(m³)	4 587	5 504	9 174	11 212	8 663	12 177
Weight of CNG at 15°C	(kg)	3 256	3 908	6 513	7 961	7 100	9 020
Tare weight	(kg)	10 500	12 550	20 400	25 490	24 200	27 500
Gross weight	(kg)	13 756	16 456	26 913	33 451	31 300	36 520



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H2 Transport Containers

Our UAC pressure cylinder has a minimum safety level of 3.0 and has undergone rigorous testing in fire safety, automated fatigue, stress rupture, burst (up to 1,600 bar), impact, and proof tests. These comprehensive testing procedures ensure that our UMOE Advance Composite containers exceed industry standards, providing our customers with unparalleled reliability and safety. In addition to meeting rigorous safety standards, UAC pressure vessels offer wide temperature tolerances (-40°C to +65°C), excellent fatigue properties, durable lifetimes, and high safety levels compared to steel and carbon-fiber solutions. Fiberglass pressure vessels represent a cost-effective alternative to carbon fiber cylinders, providing exceptional value without compromising on quality or performance.



		20 ft std	20 ft HC	40 ft std	40 ft HC	45 ft std	45 ft HC
container standard		ISO/ADR	ISO/ADR	ISO/ADR	ISO/ADR	ISO/ADR	ISO/ADR
quantity of cylinders	#	9	11	18	22	18	22
volume of cylinders	(l)	1 666	1 666	1 666	1 666	1 925	1 925
container chassis weight (non-csc)	(kg)	2 130	2 320	3 700	4 030	4 150	4 500
total storage volume	(l)	15 000	18 333	30 000	36 666	34 650	42 350
container filled weight (250 bar)	(kg)	12 638	15 238	25 007	29 777	28 953	34 273
container filled weight (300 bar)	(kg)	14 618	17 658	29 037	34 617	32 553	38 673
container filled weight (350 bar)	(kg)	16 508	19 068	32 817	39 237	38 313	45 713
container filled weight (425 bar)	(kg)	20 288	24 588	40 377	48 477	50 013*	60 013*
capacity hydrogen (250 bar)	(kg)	278	339	555	678	641	783
capacity hydrogen (300 bar)	(kg)	323	394	645	788	745	911
capacity hydrogen (350 bar)	(kg)	360	440	720	880	831	1016
capacity hydrogen (450 bar)	(kg)	na	438*	na	877*	na	1013*



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Hydrogen Storage

Hydrogen stationary storage cylinders, for complex hydrogen storage parks.

- ✓ 1667 to 2500 liters
- ✓ Each cylinders has TPRD, if need
- ✓ Highest safety
- ✓ Horizontal and vertical arrangement

Container Size	Unit	20' ISO standard	20' ISO high cube	40' ISO standard	40' ISO high cube	45' ISO standard	45' ISO high cube	Remarks
Number of cylinders	#	9	11 (9*)	18	22 (18*)	18	22 (18*)	
Cylinders volume	l	1 666	1 666	1 666	1 666	1 925	1 925	
Total storage volume (wc)	l	15 000	18 333	30 000	36 666	34 650	42 350	
Storage capacity (Wp 250 bar)	kg	278	339	555	678	641	783	@15C
Storage capacity (Wp 300 bar)	kg	323	394	645	788	745	911	@15C
Storage capacity (Wp 350 bar)	kg	360	na	720	na	831	na	@15C
Storage capacity (Wp 425 bar)*	kg	na	438*	na	877*	na	1 013*	@15C
Height	mm	2590	2894	2590	2894	2590	2894	



Tube-Trailer Solution for Biomethane Transport

Gaznet is proud to unveil our latest breakthrough in biomethane transportation: the Tube-Trailer designed with UMOE type 4 cylinders. Engineered to surpass industry standards, this cutting-edge solution offers unmatched efficiency, durability, and cost-effectiveness for transporting biomethane with ease. By utilizing UMOE type 4 cylinders, our tube-trailer is not only significantly lighter than traditional steel type 1 cylinder trailers but also boasts a lower profile, making it a more compact and agile option for transportation.

Despite its lighter weight and smaller footprint, our tube-trailer offers impressive performance, with the capacity to transport biomethane efficiently and securely. While competitors may boast larger maximum volumes with their steel type 1 cylinder trailers, our tube-trailer provides a substantial capacity that meets the requirements of most applications, while offering a more competitive price point.

One of the key advantages of Gaznet's tube-trailer solution is that it combines the cost-effectiveness of traditional steel type 1 cylinder trailers with the benefits of type 4 cylinder technology.

This means that our customers can enjoy the best of both worlds: competitive pricing and advanced technology that ensures reliable and efficient biomethane transport.

Technical characteristics	Tube-trailer 45 ft	Tube-trailer 45 ft
Container Standard	ISO/ADR	ISO/ADR
Quantity of Cylinders	10	12
Volume of Cylinders	1 925	1 925
Volume of Container (MEGC) L	19 250	23 100
Work pressure at 15 C°, bar	250	250
Volume of gas at 15 C°, m3	5 285	6 342
Weight of CNG at 15 C°, kg	4 228	5 145
Tare weight in kg	15 100	17 600
Gross weight in kg	20 100	22 600
Trailer included	Yes	Yes

Furthermore, our tube-trailer design is fully compatible with existing infrastructure and processes, allowing for seamless integration into our customers' operations.

- ✓ Size according to customer demand
- ✓ Custom design for P&ID
- ✓ Lowest exploitation cost
- ✓ Lightest version on the market



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Mobile Refilling Unit

Introducing our Passive Mobile Refilling Station (MRS) for Compressed Natural Gas (CNG), expertly installed on a Mercedes Econic Truck with a natural gas engine. This innovative solution provides an efficient, eco-friendly, and reliable method for refuelling CNG vehicles and storage units. Designed to meet the highest safety and regulatory standards, this MRS offers unparalleled performance and ease of use, making it an ideal choice for a variety of industries.

- **Efficiency:** Optimized refueling process with a passive, gravity-fed system and pressure-sensitive filling, reducing downtime and maximizing the use of available CNG.
- **Cost-Effective:** Lower maintenance costs due to the absence of a compressor and reduced operational expenses with a natural gas engine.
- **Safety:** Compliance with ADR regulations and rigorous pressure testing ensure safe and reliable operation.
- **Eco-Friendly:** Utilizes a natural gas engine and CNG, reducing environmental impact and supporting sustainable operations.
- **User Convenience:** Easy-to-use control systems and comprehensive data management enhance operator experience and operational efficiency.

The Passive Mobile Refilling Station with Natural Gas Engine on a Mercedes Econic Truck is the ultimate solution for businesses seeking an efficient, safe, and eco-friendly, low budget method of refuelling CNG vehicles and storage units. Its simple design, advanced features, and compliance with the highest safety standards make it a valuable asset for enhancing operational efficiency and reducing costs.

Technical characteristics	20 ft std type 2
Container Standard	non
Quantity of Cylinders	70
Volume of Cylinders	200
Volume of Container (MEGC) L	14 000
Work pressure at 15 C°, bar	250
Volume of gas at 15 C°, m3	3500(@250bar)
Weight of CNG at 15 C°, kg	2520(@250bar)
Tare weight in kg	15 500
Gross weight in kg	18 020
Cylinder service lifetime	20 years



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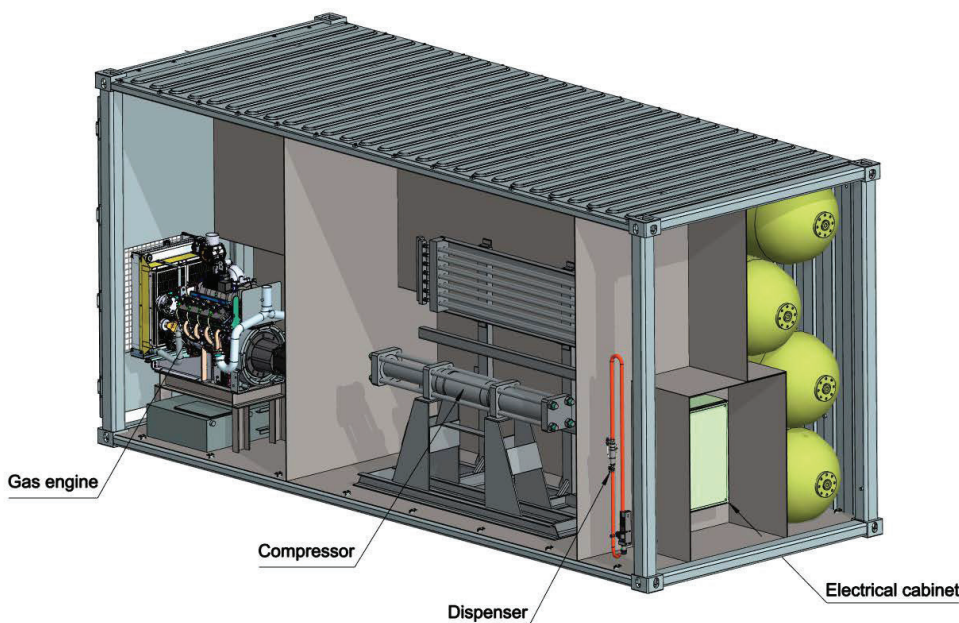
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Daughter station

We are pleased to introduce our advanced Mobile Refilling Station (MRS) designed within a 20 ft ISO container, featuring a state-of-the-art hydraulic compressor powered by a natural gas engine. This unit is specifically engineered for the efficient refilling of Compressed Natural Gas (CNG), combining robust design with high functionality to meet the demands of various industries requiring reliable CNG refuelling solutions.

- **Operational Efficiency:** The use of a hydraulic compressor ensures that each refilling operation is performed quickly and completely, maximizing the number of refills from one filled MRS.
- **Cost-Effective:** Reduces operational costs through the use of a natural gas-powered engine and efficient CNG storage solutions.
- **Safety and Compliance:** Meets high safety standards with ADR compliance, CE marking, and TPED approval.
- **Environmental Responsibility:** Utilizes natural gas, a cleaner energy source, reducing emissions and supporting sustainable practices.
- **Customization and Security:** Offers optional enhancements for security and customer management, tailoring the system to specific business needs.

Ideal for businesses requiring a reliable, safe, and efficient CNG refuelling solution, this MRS is designed to meet stringent safety standards while providing flexibility and enhanced operational efficiency.



Technical characteristics	20 ft std type IV
Container Standard	ADR / ISO
Quantity of Cylinders	4
Volume of Cylinders	1667
Volume of Container (MEGC) L	6678
Work pressure at 15 C°, bar	250
Volume of gas at 15 C°, m3	1667
Weight of CNG at 15 C°, kg	1186
Tare weight in kg	10 000
Gross weight in kg	11 200
Hydraulic compressor	37 KW

Our Mobile Refilling Station in a 20 ft ISO container with a hydraulic compressor and natural gas engine represents the forefront of CNG refuelling technology.

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Hooklift Containers

Gaznet's Hooklift Container Solution is a compact, modular transport and storage system designed for compressed natural gas (CNG), biomethane. Built for flexibility and fast deployment, the hooklift system enables quick loading, unloading, and relocation of gas containers – using standard hooklift-equipped vehicles.

This solution is ideal for short-distance logistics, temporary refueling setups, remote site delivery, or as part of a decentralized gas supply model.

Certified hooklift containers with Type II composite cylinders
Compatible with standard hooklift trucks (DIN 30722, SFS4417 or equivalent)
Available in multiple volume and 250 bar pressure configurations CNG application,

Safety features: Leak-before-burst design, pressure relief systems, ADR/TPED compliant

Optional accessories: gas manifolds, pressure regulators, digital monitoring

- ✓ Fast Deployment – no crane or trailer needed
- ✓ Compact Size – easy to place in tight or temporary spaces
- ✓ Lower Operating Cost – simplified logistics and handling
- ✓ Multi-Gas Ready – suitable for CNG, biomethane, or hydrogen
- ✓ Ideal for Mobile Refueling or Temporary Storage



Technical characteristics	53 cylinder	69 cylinder
Container Standard	ADR	ADR
Quantity of Cylinders	53	69
Volume of Cylinders	200	200
Volume of Container (MEGC) L	10 600	13 800
Work pressure at 15 C°, bar	250	250
Volume of gas at 15 C°, m3	2 650	3 450
Weight of CNG at 15 C°, kg	2 173	2 900
Tare weight in kg	14 500	16 800
Gross weight in kg	15 000	19 700







CNG/BIOGAS AND HYDROGEN CONTAINERS



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