

PRODUCTS & SERVICES

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COMPACT LNG REFUELING STATION: MODULO

Core Features

- Fully comply with ATEX, PED and MID regulations
- Horizontal LNG storage tank for compact and transportable design
- LNG dispenser unit with smart and user-friendly refueling functions
- Integrated fleet-card and driver recognition system
- System offered saturated and cold (for Volvo) refueling options
- Built-in LNG conditioner system for each temperature requirements
- Built-in flame and gas detection system

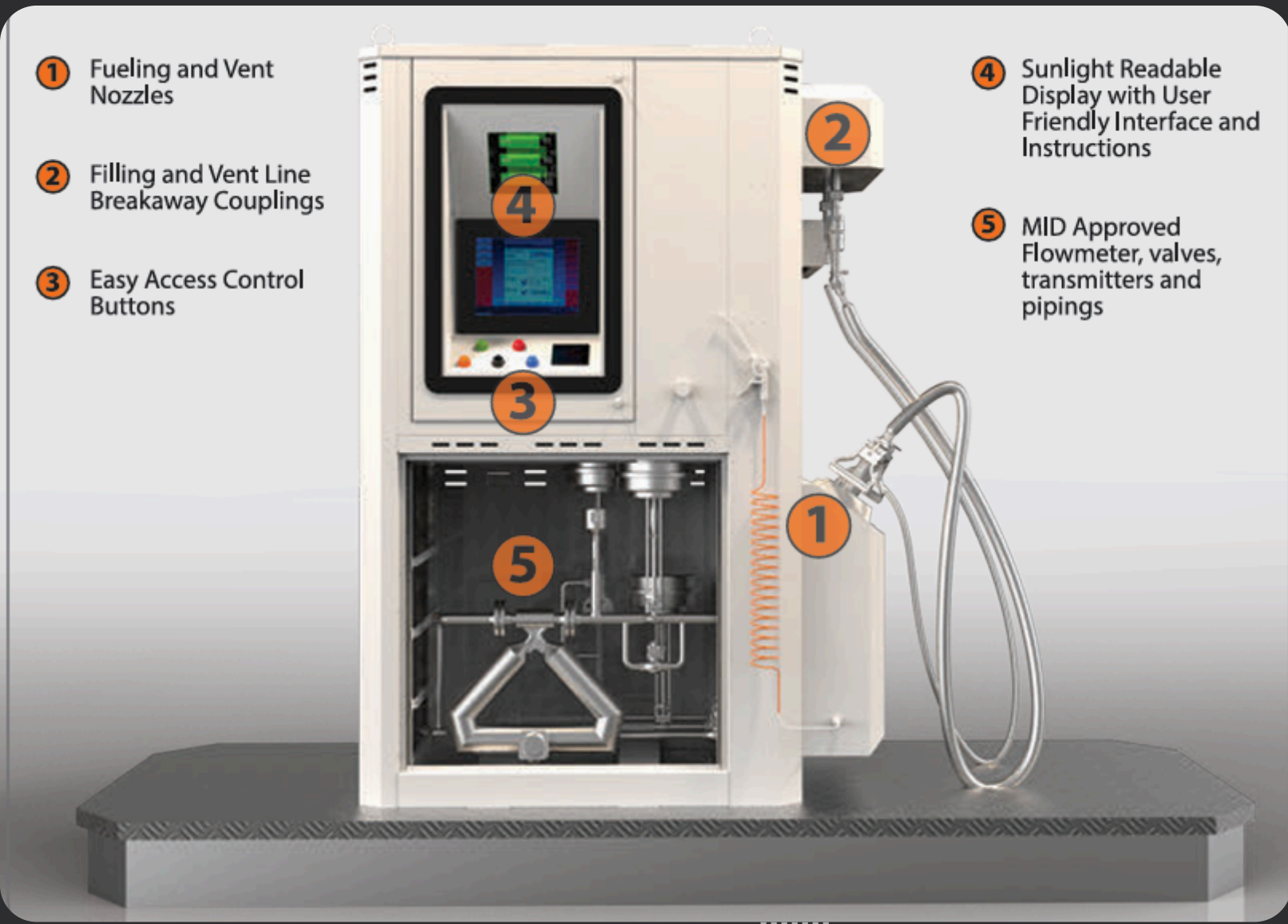


Technical Specifications

Ambient Temperature	-20°C to 45°C (Optional -25°C to 50°C)
Operating Temperature	-196°C to -108°C
Control Unit	PLC Control Panel Telemetry System Advanced ESD System
Mass Flow Rate	Minimum = 15 kg/min Nominal = 63kg/min Maximum = 90kg/min
NGV Types	Iveco, Scania, Volvo
Boundary wall	Fire resistant, thermo insulated
Certificates	Complying with EU Directives ASME Design Option



LNG DISPENSER



- 1 Fueling and Vent Nozzles
- 2 Filling and Vent Line Breakaway Couplings
- 3 Easy Access Control Buttons

- 4 Sunlight Readable Display with User Friendly Interface and Instructions
- 5 MID Approved Flowmeter, valves, transmitters and pipings

Core Features

- Complies with MID, ATEX, PED Directives
- 15" Sized 1200 NIT Smart Informative Display
- Step-by-step Fueling Guidance in +20 Languages
- Auto-stop mode when tank is fully loaded
- Intelligent Algorithm for Absolute Control on Fueling Process
- Online Monitoring All Diagnosis via ModBus

Technical Specifications

Size (HxWxD)	230x155x75 cm
Flowrate	Min.15 ~ Max.90 kg/min
Accuracy	<1,5%
Pressure	Min. 3 ~ Max. 22 bar
Operating Temperature	Min.-162 ~ Max.-104°C
Ambient Temperature	-10 ~ +40°C (optional -25 ~ +40°C)
Communication	RS485 ModBus RTU
Conformity	ATEX, PED, MID



LNG LIQUEFACTION SYSTEMS



► Core Features

Liquefied Natural Gas (LNG) is a critical component of the global energy landscape, providing an efficient means of transporting natural gas where pipelines are not feasible. The liquefaction of natural gas into LNG allows for a more compact storage and transportation solution, reducing its volume by approximately 600 times. This conversion plays a key role in providing a cleaner alternative to other fossil fuels and enhancing energy security in various regions. The LNG liquefaction process involves cooling natural gas to -162°C (-260°F), at which point it becomes a liquid. This introduction aims to delineate the various scales and techniques employed in LNG liquefaction technologies: large-scale, micro-scale, and small-scale.



01

Large-Scale Liquefaction

02

Small-Scale Liquefaction

03

Micro-Scale Liquefaction

04/12

LNG REGASIFICATION SYSTEMS

► Core Features

- Compliance with PED & ATEX
- Up to 1250 Nm₃/hr. Regasifying Capacity (on a single chassis)
- Capacity Upgrade Option
- Plug-and-play Design, Easy Commissioning
- Fully Automated Design with Embedded Control Panel
- Automatic changeover system (The system decides which vaporizers to use according to the usage load)
- Telemetry and Remote Control (Ethernet or GPRS connections)
- State-of-the-art Robust and Reliable Electromechanical Design
- Easy Operation, Long Service Life



Technical Specifications

On Skid Odorization	Yes
On Skid Electrical Trim Heater	Optional
Double Stream Regulating & Metering	Yes
Type Or Service	LNG Regasifying
Max. Capacity	2 x 1250 Nm ₃ /hr. (8 hrs. switchover)
Design Temperature	-196°C / +50 °C
Working Pressure	2 to 16 bar
Design Pressure	40 bar
Test Pressure	60 bar
Liquid Inlet Diameter	DN50
Gas Outlet Diameter	DN100
Flange Rating	PN16 – PN40
Pressure Inlet	2 to 16 bar
Pressure Outlet	150 mbar to 4.2 bar
Design Code	EN or ASME Compatible Design
Size	Up to L: 13000 mm H: 2700 mm W: 2500 mm

PRESSURE REGULATING AND METERING SYSTEMS

- ▶ RMS stations are one of the most important systems in the process of transporting natural gas. Natural gas is exposed to many different pressurization conditions during the stages of its extraction from its source, its transfer between cities and countries and its delivery to the end user, and it also needs to be measured under many different conditions. For example, while being transferred between countries, it must be transmitted through pipelines at very high pressures, while city gas transmitted to the end user it must be at very low pressures in order to be used safely.

Eutech Polska Energy Systems offers pressure regulation and measurement systems solutions for all needs from 70 bar to 21 millibar with its expert team and vast experience.

Eutech Polska is offering solutions for regulating and measuring applications as plug & play SKID systems. The SKID systems' design and production can be adapted to the specific requirements of the end-users by the expert Eutech Polska engineering team.





LNG PLANT DESIGN & INSTALLATION

► LNG Satellite Plants

LNG Satellite Plants are facilities where LNG is taken from large LNG receiver or import stations by tankers and trains for storage and transfer to the network when necessary. LNG satellite stations can be built to meet usage needs of various sizes. City gate stations can feed the needs of a small city or town, while smaller satellite stations can meet the energy needs of a factory.



LPG / AIR BLENDING SYSTEMS

LPG Air Blender (or LPG Air Mixer), is a system that mixes LPG and air in the desired ratio and outputs a substitute gas mixture (SNG, Synthetic Natural Gas) to natural gas.

► Core Features

- Compliance with PED & ATEX 2014/34/EU
- Up to 8000 kg/hr. Capacity
- Compatible with any LPG Composition
- Plug-and-play installation, easy commissioning
- Fully automated design with embedded control panel
- State-of-the-art Robust and Reliable Electromechanical Design
- Easy Operation, Long Service Life
- Both high and low pressure applications
- Outlet feedback system for adjustment of LPG/Air ratio
- Adjustable LPG/Air mixture ratio according to demand
- Skid-mounted single unit structure, easy transport and deployment
- Valve fault detection
- Daily and monthly data logs
- No manual adjustment needed, the system automatically adjusts the mixing ratio



Technical Specifications

TYPE OR SERVICE:	LPG and Air Blender
MIXED GAS OUTPUT CAPACITY:	From 500 to 8000 kg/hr.
DESIGN TEMPERATURE:	-20°C to +60°C
GAS INLET DIAMETER:	DN 25 to DN150
GAS OUTLET DIAMETER:	DN 25 to DN300
FLANGE RATING:	PN16 – PN40
PRESSURE INLET (LPG):	4 to 6 barg
PRESSURE INLET (AIR):	4 to 8 barg
PRESSURE OUTLET:	0.1 to 3 barg
DESIGN CODE, COMPLIANCE:	EN or ASME Compatible Design ATEX, PED Compatible
STRUCTURE:	Steel Chassis Skid Mounted
SUPPORTED LPG TYPES:	Any LPG Composition



PROJECT MANAGEMENT & CONSULTANCY

At Eutech Polska, we provide end-to-end project management and consultancy services customized to each client's unique needs. By combining technical proficiency, industry insight, and a strong grasp of client expectations, we ensure effective and successful project delivery.

- End-to-End Project Management
- Consultancy Services
- Risk Management
- Customized Solutions
- Sustainable Practices
- Global Experience, Local Expertise

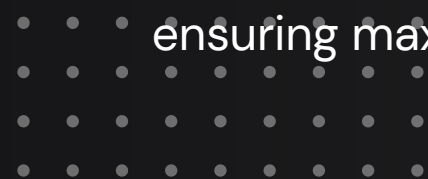
AUTOMATION & SCADA

➤ **Eutech Polska's Automation Solutions Powered by AI, Industry 4.0, and SCADA**

Eutech Polska offers end-to-end automation solutions, expertly crafted from initial design through full implementation, with a strong emphasis on SCADA (Supervisory Control and Data Acquisition) systems and telemetry. These technologies are critical in explosion-risk environments, providing robust safety and reliability—particularly in the LPG, natural gas, and industrial gas sectors, where Eutech Polska is a recognized leader.

➤ **Seamless Integration of Industry 4.0, AI, and SCADA**

By integrating Industry 4.0 principles and artificial intelligence into our SCADA systems, Eutech Polska enables the creation of intelligent, self-regulating networks capable of real-time remote monitoring and control. These advanced features significantly enhance operational efficiency, minimize downtime, and support predictive maintenance. Our solutions are built on strict compliance with international safety standards such as ATEX, ensuring maximum protection in hazardous environments.





HYDROGEN SOLUTIONS – R&D PROJECTS

Blending Innovation: EUTECH Polska's R&D for Hydrogen Integration in Gas Infrastructure

At Eutech Polska, we are conducting research and development activities focused on the integration of hydrogen into natural gas infrastructure, aiming to support the energy sector's transition towards lower carbon emissions.

As part of these efforts, we are developing various experimental models exploring scenarios in which hydrogen is blended with natural gas. Through test setups involving different hydrogen–natural gas ratios, we aim to enhance combustion efficiency while reducing harmful emissions. We are also working intensively on the necessary control mechanisms and performance monitoring infrastructures to enable the integration of these systems into industrial applications.

Our goal is to develop practical, safe, and efficient solutions that support the use of hydrogen as an energy carrier and make these solutions scalable for future industrial adoption.

Eutech Polska is firmly committed to combining its engineering expertise in natural gas and energy automation with a vision for clean energy transition, continuing its technical preparations and efforts in this field with determination.

BIO- LNG

➤ **Modulo: Smart Solution Compatible with Bio-LNG**

Modulo is an advanced, modular solution fully compatible with both conventional LNG and Bio-LNG infrastructures. With its explosion-proof (Ex-proof) design and seamless integration with SCADA systems, it enables safe, efficient, and remotely managed field operations.

Aligned with the low-carbon nature of Bio-LNG, Modulo is ready today to support tomorrow's sustainable energy infrastructures.

➤ **Eutech Polska's R&D Activities in Bio-LNG**

At Eutech Polska, we closely monitor the critical role of Bio-LNG in the future of energy systems and are actively investing in research and development in this field. Our work focuses not only on testing the technical compatibility of equipment with biologically derived LNG, but also on addressing the new technical requirements that this next-generation fuel introduces to measurement and automation systems.

Through these efforts, we aim to contribute to the widespread adoption of Bio-LNG and to lead the development of safe and sustainable infrastructure.

