

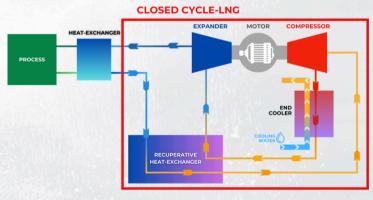
MIRAI Cold LNG GAS LIQUEFACTION

MIRAI COLD LNG FOR GAS LIQUEFACTION

The MIRAI Cold LNG is an advanced solution precisely engineered for the precooling and liquefaction of biomethane. At the core of this system lies its innovative oil-free turbo compressor/expander. This key component is driven by a sophisticated inverter, allowing for seamless adjustment of RPM (revolutions per minute). This feature ensures optimal performance tailored to specific operational needs. Moreover, the system is designed for peak energy efficiency, making it an environmentally conscious choice for biomethane processing. Its state-of-the-art technology and design make the MIRAI Cold LNG a leader in its class for biomethane liquefaction applications.

PRODUCT SPECIFICATIONS





HOW THE SYSTEM WORKS

The heart of the system is a turbo-module, developed and manufactured by MIRAI Intex®. The technology is based on the heating capability of nitrogen during compression and cooling down during expansion. A key technological feature is that the turbo expander and compressor are located on the same shaft. The energy produced during the expansion process is transferred through the shaft to the compressor, which allows to reduce energy consumption up to 30 %.

PRODUCT VARIANTS







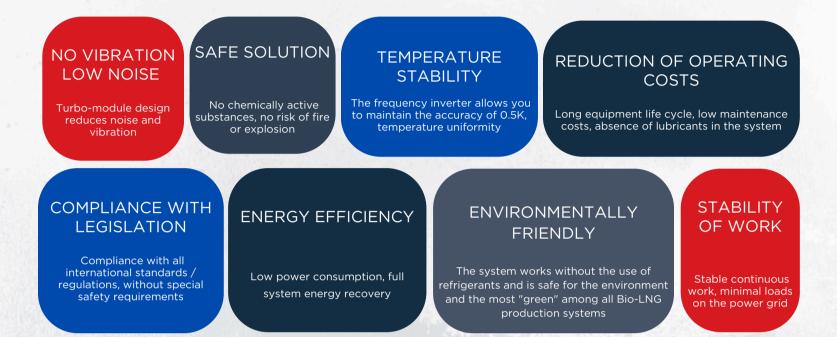
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PRODUCT ADVANTAGES



INSTALLATION OPTIONS

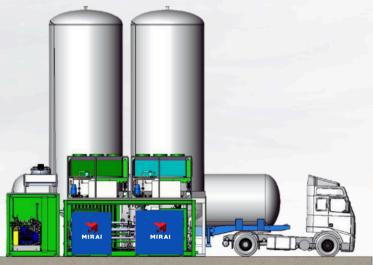
MIRAI Cold LNG has 2 installation options: in-house and external, providing the possibility for seamless integration into any technical process. Both options are installed outside the main liquefaction process and connected through the wall. Thanks to this decision, MIRAI Cold LNG is not a subject to ATEX regulation.

WHY USE LNG TECHNOLOGY

LNG offers cleaner energy, emitting fewer pollutants and greenhouse gases than traditional fuels. Its versatility makes it suitable for various applications, contributing to improved air quality and energy security while offering efficient storage and transport conditions.

Learn more about the MIRAI Intex® LNG solutions. Send a request to **<u>sales@mirai-intex.com</u>** or use the MIRAI application configurator.





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