

CRYOBOX™

LNG Production Station



GALILEO
Technologies ▶

Overview

Cryobox™ delivers all the capabilities of a large-scale LNG plant in a compact, transportable module, which shares the off-the-shelf components and main features of Galileo's compressor packages, namely: modularity, low weight, economies in transport and ease of installation. You can be a leader in the LNG revolution by implementing the widely proven technology of Galileo.

+100

Installed Cryobox
Stations and operating
worldwide.*

+9

Years of uninterrupted
production.*

*Last updated: SEP/2025

The specifications expressed in this catalog are generic and
may vary according to the requirements of each market.



Main Features

Portability

Each Cryobox is similar in size to a 40-foot container. This allows an easy transportation on a trailer and multiple relocations in the small areas of a plant.

Boil-Off Free*

The automatic boil-off recovery system provides emission-free LNG storage and loading. This feature avoids natural gas waste, ensuring safe operations in compliance with environmental regulations. The Cryobox reliquifies the BOG of any storage.

Plug-And-Play

Focused on the rapid availability of LNG, the Cryobox installation and commissioning takes only 6 months, simply through a concrete platform as a base and the access to electric power, compressed air and Internet.

High Availability

The reduced amount of dynamic components ensures an autonomous operation rate over 95%. This is especially important for the operation in remote areas, such as hydrocarbon fields.

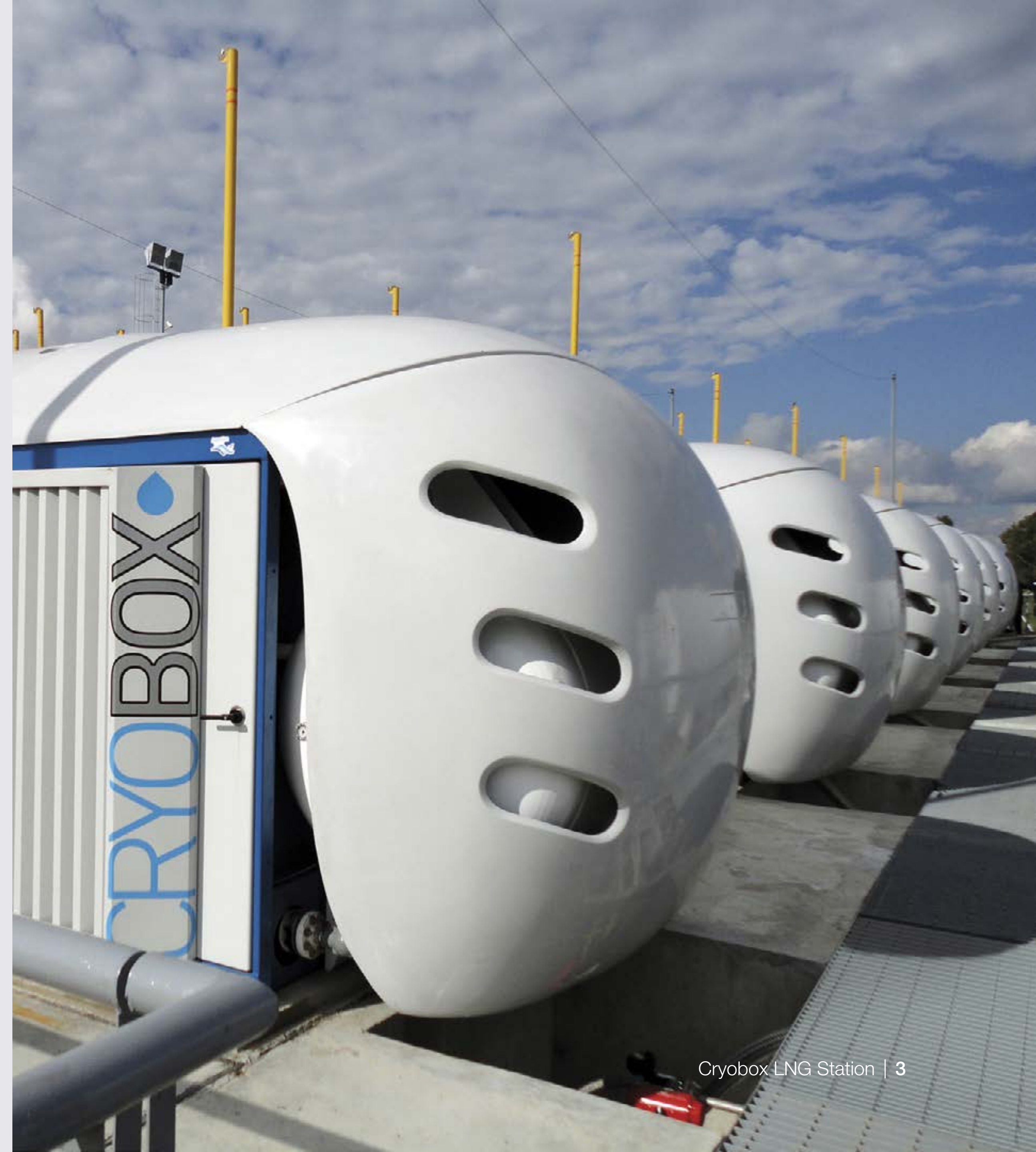
Proprietary Technology

Its multi-stage liquefaction cycle removes any inert gas and is powered by a 450 kW motor connected to a Galileo MX 400 compressor.

Fast and Easy Filling

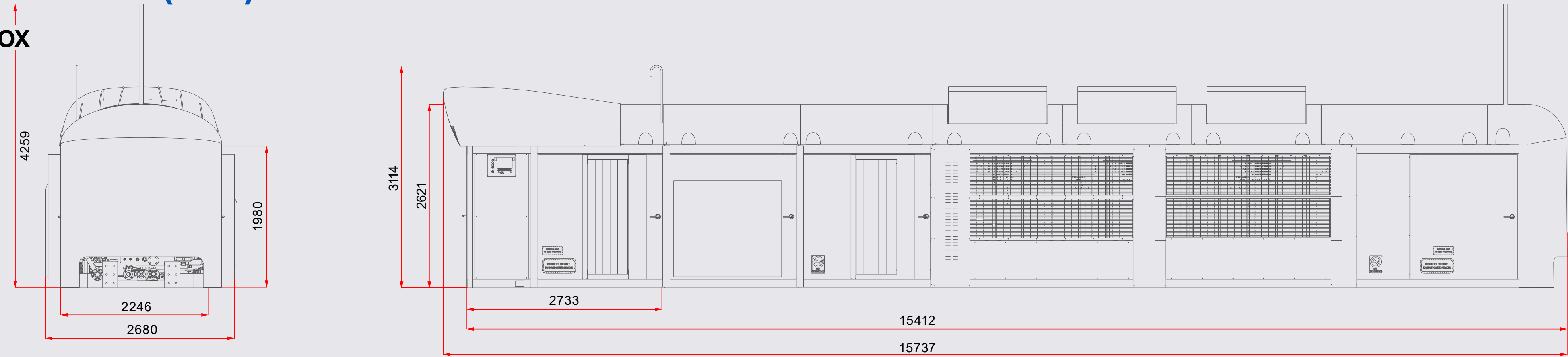
The transfer of LNG to the storage tanks does not require the use of pumps. Thanks to its LNG Management system the liquefied gas can also be transferred from these tanks to the distribution trailers or to other vehicles or industrial equipment for immediate consumption.

*Our equipment does not require an additional external unit for dedicated BOG management. It is internally equipped to process the BOG for that facility.

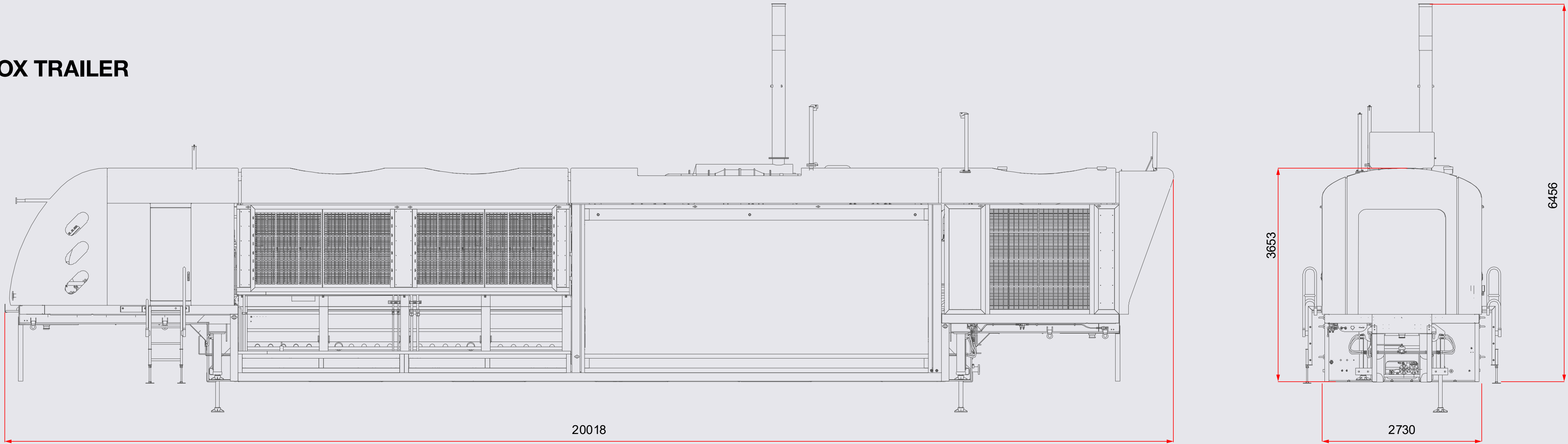


Dimensions (mm)

CRYOBOX



CRYOBOX TRAILER



40 Cryobox units at the Eneva LNG production facility
in Campo do Azulão, Manaus, Brazil.



4 Cryobox Trailer units at Los Cavaos well,
Vaca Muerta, Argentina.



3 Cryobox Trailer units in Marcellus basin,
Pennsylvania, USA.

Ways to deliver LNG production

1. Direct load: positive pressure displacement to fixed isotanks.

2. Direct load: positive pressure displacement to mobile isotanks.

3. Through LNG transfer.

4. Through Unloading Bay with a BOG management module.



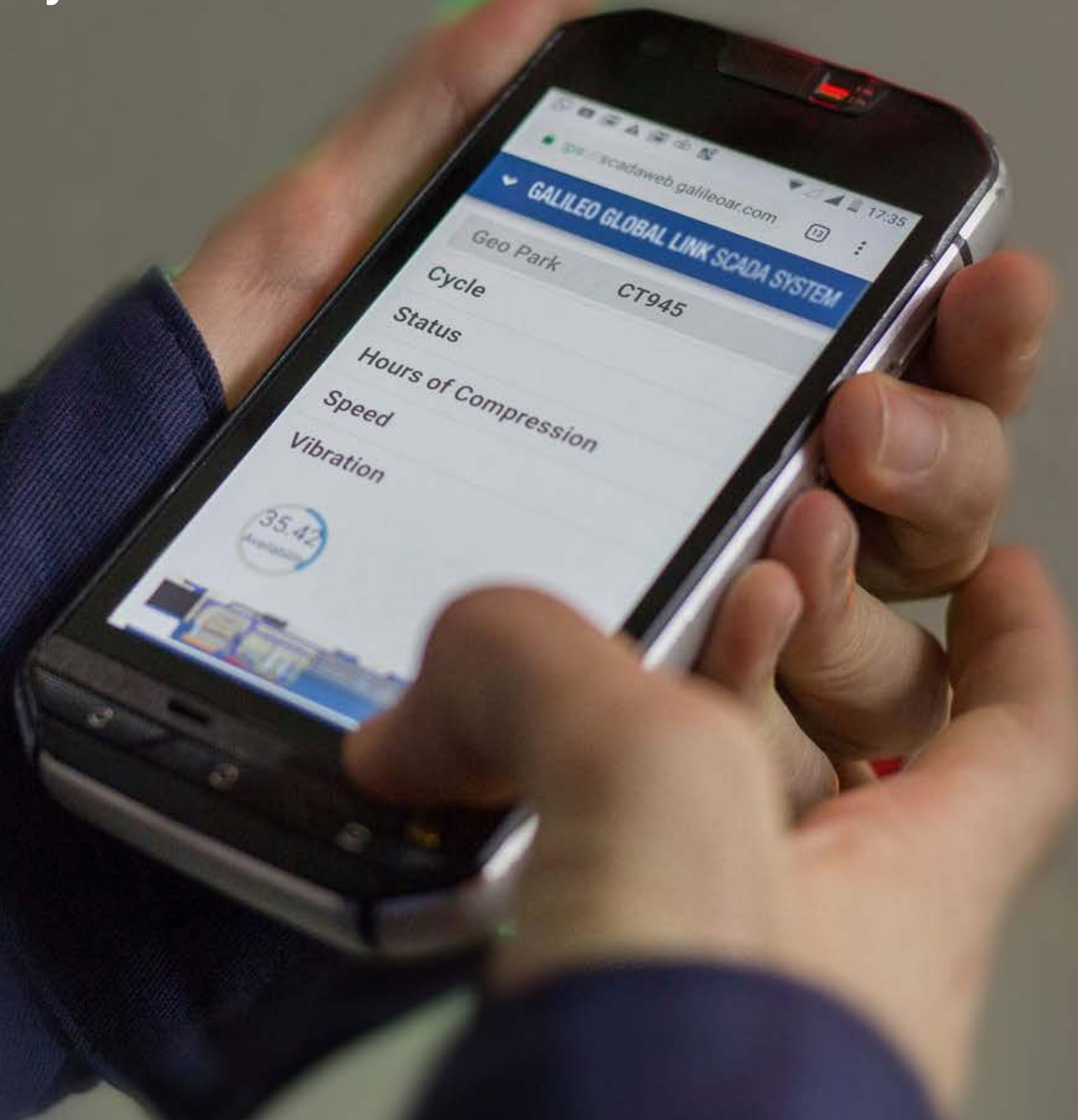
Tracked under Galileo Global Link Scada System

We don't just sell technology; we provide a service. We will be with you 24/7, monitoring key parameters through our **Galileo Global Link Scada System*** and providing on-the-ground support to keep your uptime as high as possible.

Up to 99% Methane Recovery, easily tracked through a single integrated system.

Key variables from production, transportation and delivery to end user can be tracked on-line, remotely and in real time in our proprietary SCADA system.

Our integrated solution not only favors efficient troubleshooting and resolution, but it also provides a single control system for the complete operation, from inlet, to gas upgrading, to the outlet of the Virtual Pipeline.



*This is an additional service and is contracted separately.

Datasheet

		CRYOBOX	CRYOBOX TRAILER
Electric Installed Power	KW	497kW - Main motor voltage 0.44kV/4.16kV	-
	HP	666	-
Gas Engine		-	CAT OR WAUKESHA
Nominal Consumption*	kWh/kg	up to 0.68*	-
Gas characteristics		Inlet	Outlet
Pressure (min/max)	barg	10 to 15	1 to 3
	psig	145 to 217.5	14.5 to 43.5
Temperature (min/max)	°C	10 to 50	-156 to -141
	°F	50 to 122	-249 to -222
LNG Production	kg/h	up to 620*	
	ton/d	15*	
Water Content	H ₂ O	up to 1 ppm	
Carbon Dioxide	CO ₂	up to 150 ppm (0.015%)	
Hydrogen Sulfide	H ₂ S	up to 15 ppm	
Nitrogen	N ₂	up to 15%**	< 2%**
Methane	CH ₄	more than 80%	
Heavy Hydrocarbons	C ₆ +	less than 0.2%	
Oxygen	O ₂	less than 0.5%	

*Considering a gas of 0,65 specific gravity, ambient temperature of 22°C and N₂ content lower than 0,5%. For other conditions, check on derating curves. / ** With a derrate in the LNG production of the unit. Depending on the N₂ purge stream.

Datasheet

		CRYOBBOX	CRYOBBOX TRAILER
Utilities Consumption	Lube Oil	0.5 L/day (Multigrade 15W40 or similar) / 0.13 gal/day of oil (Multigrade 15W40 or similar) depending on the operation & maintenance of the unit	
	Propane	120 kg/month / 264.5 lb/month	
	Air	1.3 to 3.4 Nm3/h @ 7bar (ISO-8573-1 Type [2;2;2] or higher quality) 0.84 a 2.1 SCFM @ 101.52psig (ISO-8573-1 Type [2;2;2] or higher quality)	
Dimensions		15.7 m length x 2.7 m width x 2.6 m height	20.02m length x 2.73m width x 3.65m height
Weight		32 ton	44 ton
Features			
Use of dry rings oil free, in compression stages.			
Boil-off free***		Yes. The unit is capable to absorb and process BOG from storage and auxiliaries.	
Transportable		No	Yes
Intrinsecally safe		Yes	Yes
Monitoring		Yes, 24/7 through our Galileo Global Link Scada System	
Modularity		Yes	Yes
Plug & Play		Yes	Yes
Start up	System cold	2 min for 100% of the load	
	System hot	10 min for the 100% of the load	
		No limitation in start cycles	
Scalability		Yes. On micro, small, and medium scale.	

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For other conditions, check on derating curves. ***Our equipment does not require an additional external unit for dedicated BOG management. It is internally equipped to process the BOG for that facility.

Datasheet

	CRYOBOX	CRYOBOX TRAILER
Electrical parameters*		
Main compressor start system	Soft-starter / VFD under requirement	-
Maintenance	Preventive Maintenance schedule every 1500 operating hours	
Regulations	Area clasification: Class 2 Div 1 according to NFPA 59	
	Reciprocating compressor under API 618	
	Vessels under ASME VIII div I	
	ASME U-Stamping on request	
	Welding under ASME IX	
	NEC (NFPA 70) - IECEX	
	Heat exchangers under ASME VIII div I	

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Some succes cases

1. Buquebus

Total units: 7
Application: Produce LNG as a clean fuel for international transportation ship (Francisco Ship).
Location: Buenos Aires, Argentina.

2. Eneva

Total units: 40
Application: Non-connected gas monetization in the middle of the Amazonian Forest (reservoir-to-wire).
Location: Manaos, Brazil.

3. Canacol

Total units: 4
Application: increase natural gas production reaching new markets with virtual LNG pipelines, substituting heavy fuels.
Location: Departamento de Córdoba, Colombia.

4. Edge

Total units: 20
Application: Monetization of Flared Gas and fuel supply to end users.
Location: United States of America (USA).



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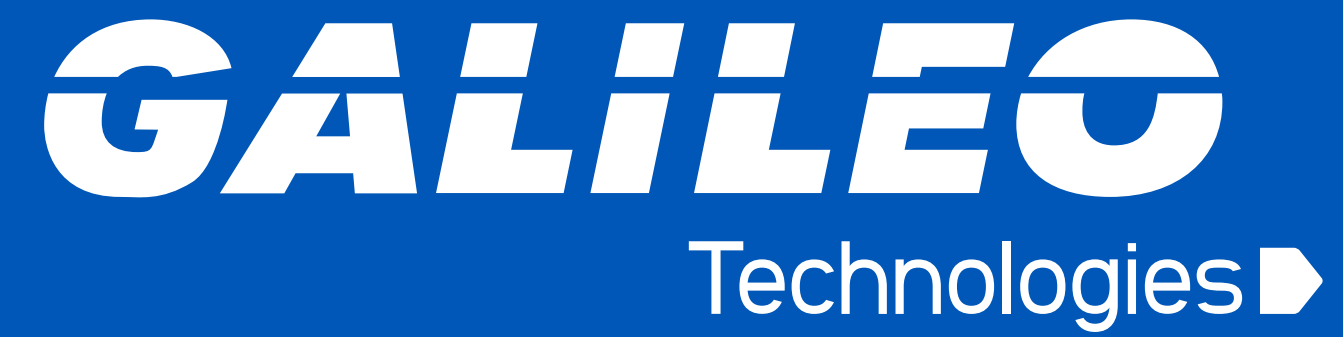
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