BIOBOX™ (200-1500)

Production of biomethane from medium to large-scale sources.

Biobox is Galileo's cutting-edge, fully integrated **upgrading and compression** package f**or biomethane stations with a wide range of pressures.** It comes in flow processing versions of **200 Sm^3/h, 500 Sm^3/h, 1000 Sm^3/h, and 1500 Sm^3/h**, in addition to its **Low Pressure** and **High Pressure** models, respectively.

Biobox reduces installation complexity as it does not require specific civil works or the configuration of additional components. Its **plug-and-play configuration** provides all the necessary elements for a direct connection to biodigesters, not only reducing operational costs and the space needed for installation but also making it inherently safe and easy to use. This positions it as the most advanced technology in the clean fuels industry.

Biobox's modularity, lightweight design, economical transport, and easy installation make it the most flexible solution for future expansions, relocations, and equipment financing.

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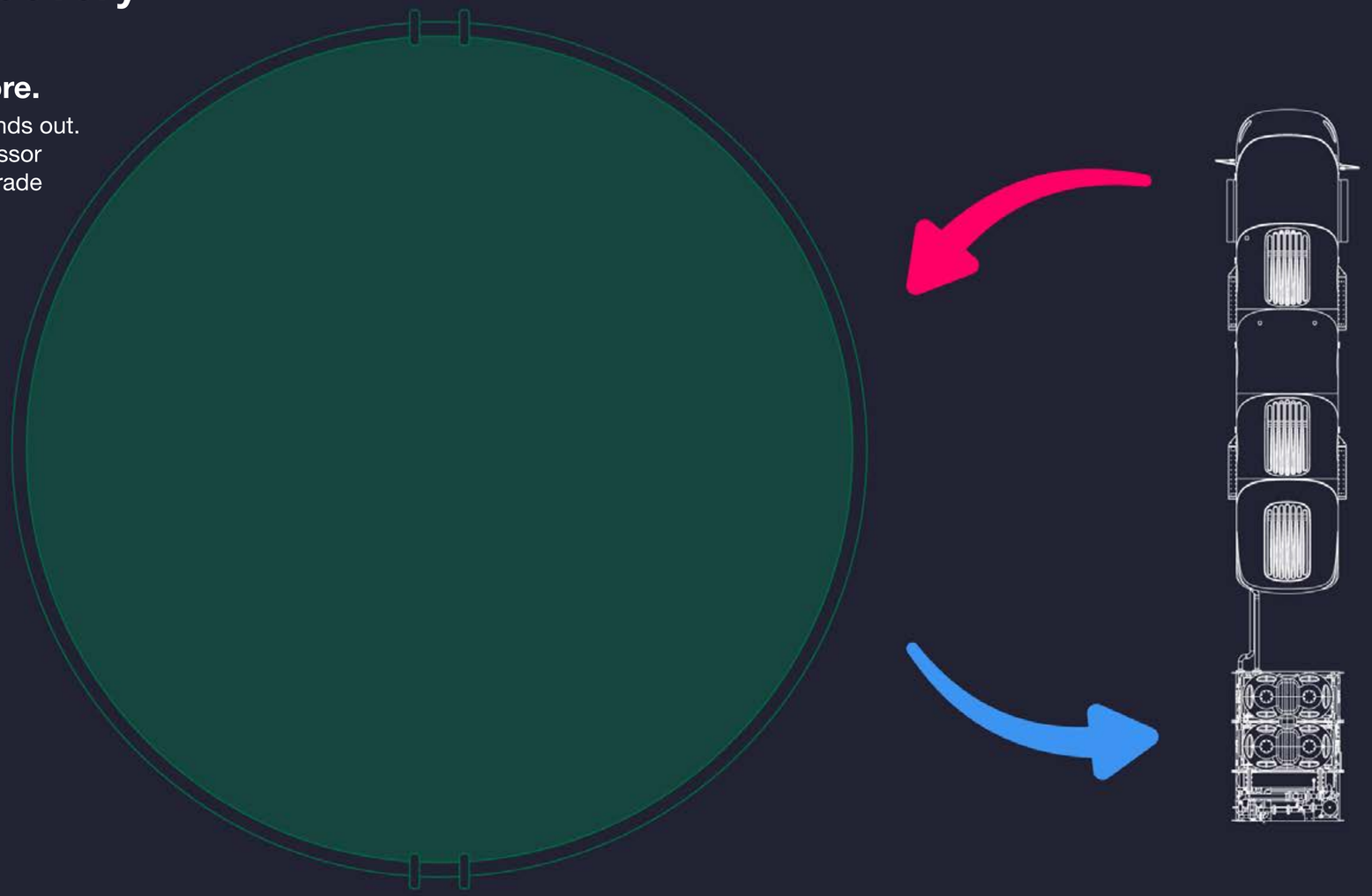
BHR System:
Biodigestion Heat Recovery

Recovering the heat from the compressor to reduce the CI score.

We do things better so that your CI score stands out. Our BHR design uses water from the compressor cooling system to heat the digester. This upgrade improves the system's energy efficiency and lowers the CI score.



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Datasheet*

*For lower pressures than 0.8 barg (11.6 psig), a blower skid can be incorporated before the inlet to the unit (optional).
All values are expressed under a regular operation and may present changes with variation of gas composition and environmental conditions.
** For more information about this technology, please refer to our gas conditioning catalog.

		BIOBOX 1500 Low Pressure		BIOBOX 1500 High Pressure	
Electric Installed Power	KW	417		531	
	HP	559		712	
Gas characteristics		**Inlet**	**Outlet**	**Inlet**	**Outlet**
Pressure (Min/Max)	barg	1 to 1.3	up to 16	1 to 1.3	up to 250
	psig	14.5 to 18.8	up to 188	14.5 to 18.8	up to 3626
Temperature (Min/Max)	°C	10 to 50	30 to 45	10 to 50	30 to 45
	°F	50 to 122	86 to 113	50 to 122	86 to 113
Flow (Min/Max)	Sm^3/h	1500	750	1500	750
	MSCFD	1275	636	1275	636
Water	H_2O	Saturated	Dry	Saturated	Dry
Carbon Dioxide	CO_2	30% to 50%	≤ 2%	30% to 50%	≤ 2%
Hydrogen Sulfide	H_2S	up to 2000 ppm	< 5 ppm	up to 2000 ppm	< 5 ppm
Nitrogen	N_2	0.5% to 2%	< 4%	0.5% to 2%	< 4%
Methane	CH_4	40% to 60%	> 96%	40% to 60%	> 96%
Oxygen	O_2	0.5% to 1%	< 0.5%	0.5% to 1%	< 0.5%
Siloxanes	-	up to 20 ppm	< 0.1 ppm	up to 20 ppm	< 0.1 ppm
Features					
Intrinsecally Safe		Yes			
Monitoring		Yes, 24/7 trough our Galileo DigiHub - Scada System			
Modularity		Yes			
Plug & Play		Yes			
Scalability		Yes			
Electrical parameters*					
Main Compressor Start System		Inverter			

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Tracked under **Galileo DigiHub** 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 DigiHub - 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.

GALILEO Technologies

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