

AMINE MODULE

Upgrading - Sweetening of natural gas and biogas

Our **absorption system with amine towers** allows for the treating of gases from different sources with high CO₂ and H₂S content. This process is very efficient because removes these components due to its affinity with amine solvents. Our solution consists of contactor towers where the contaminants are absorbed and the treated gas is obtained; and regenerative towers (in a closed cycle) where the amines recover their absorption capacity.

It should be noted that the elimination of H₂S is essential for the use of gas or biogas as an energy source, since its presence represents a significant safety danger and it can negatively affect the performance and useful life of the equipment used in the combustion of said gases.

While the absorption process is carried out, the contaminated amines are regenerated in the tower dedicated for this purpose. In this way, the upgrading process is continuous.

The configuration of the amine towers –like other of our solutions– is fully tailored to the customer, adjusting to the required input and output conditions.

Last update: JUN/2026

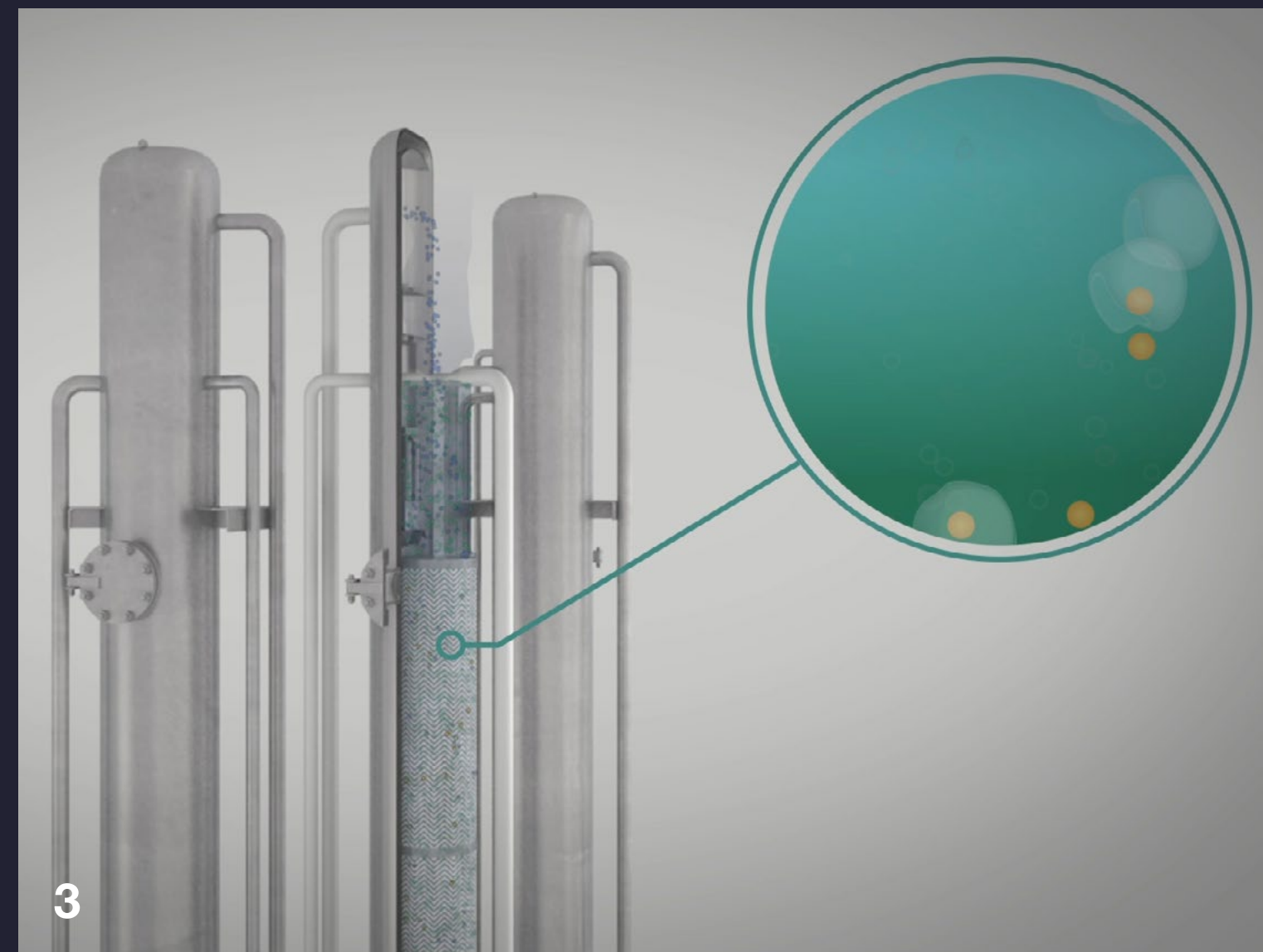
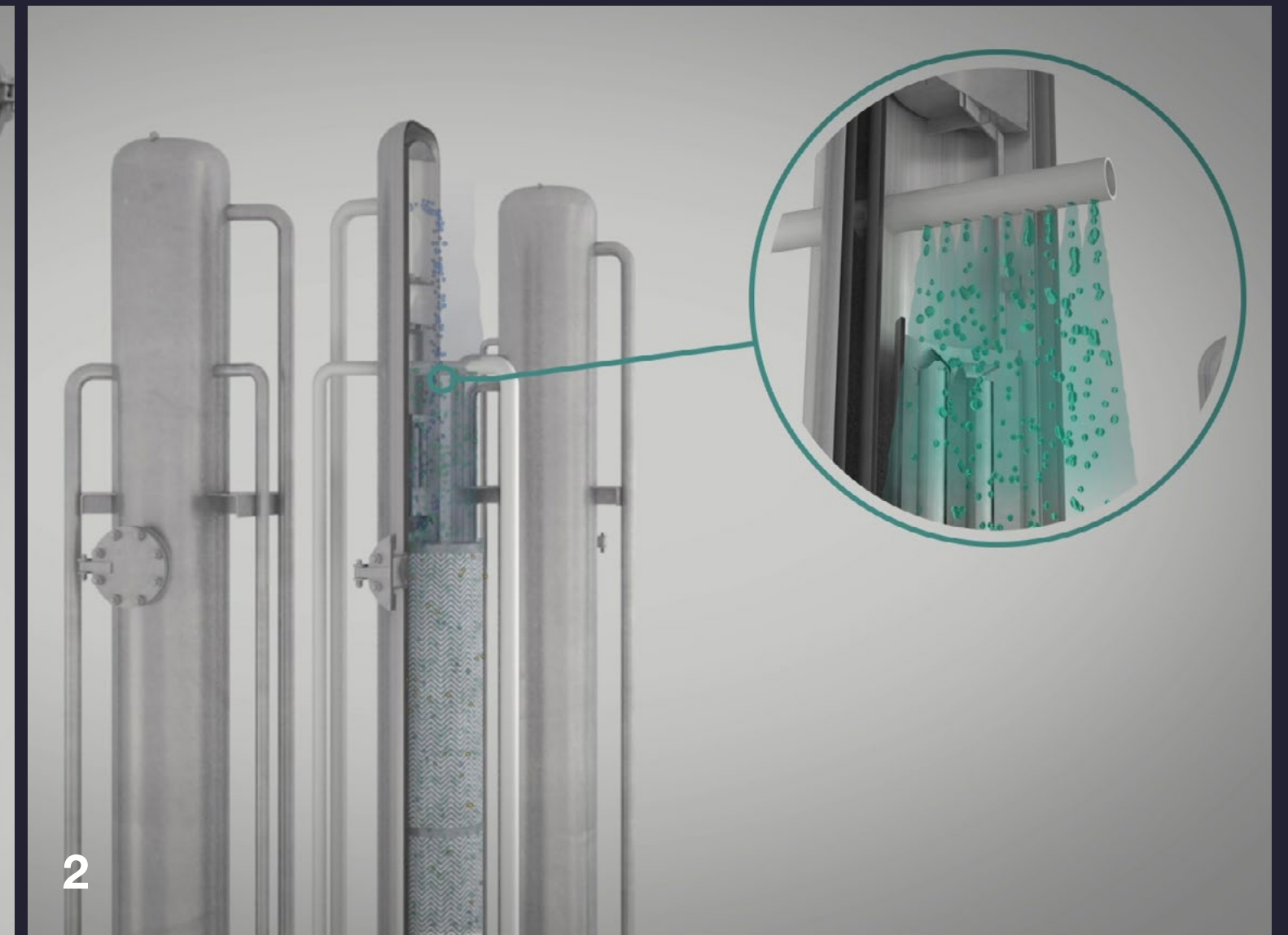


Ivinhema, Mato Grosso do Sul, Brazil

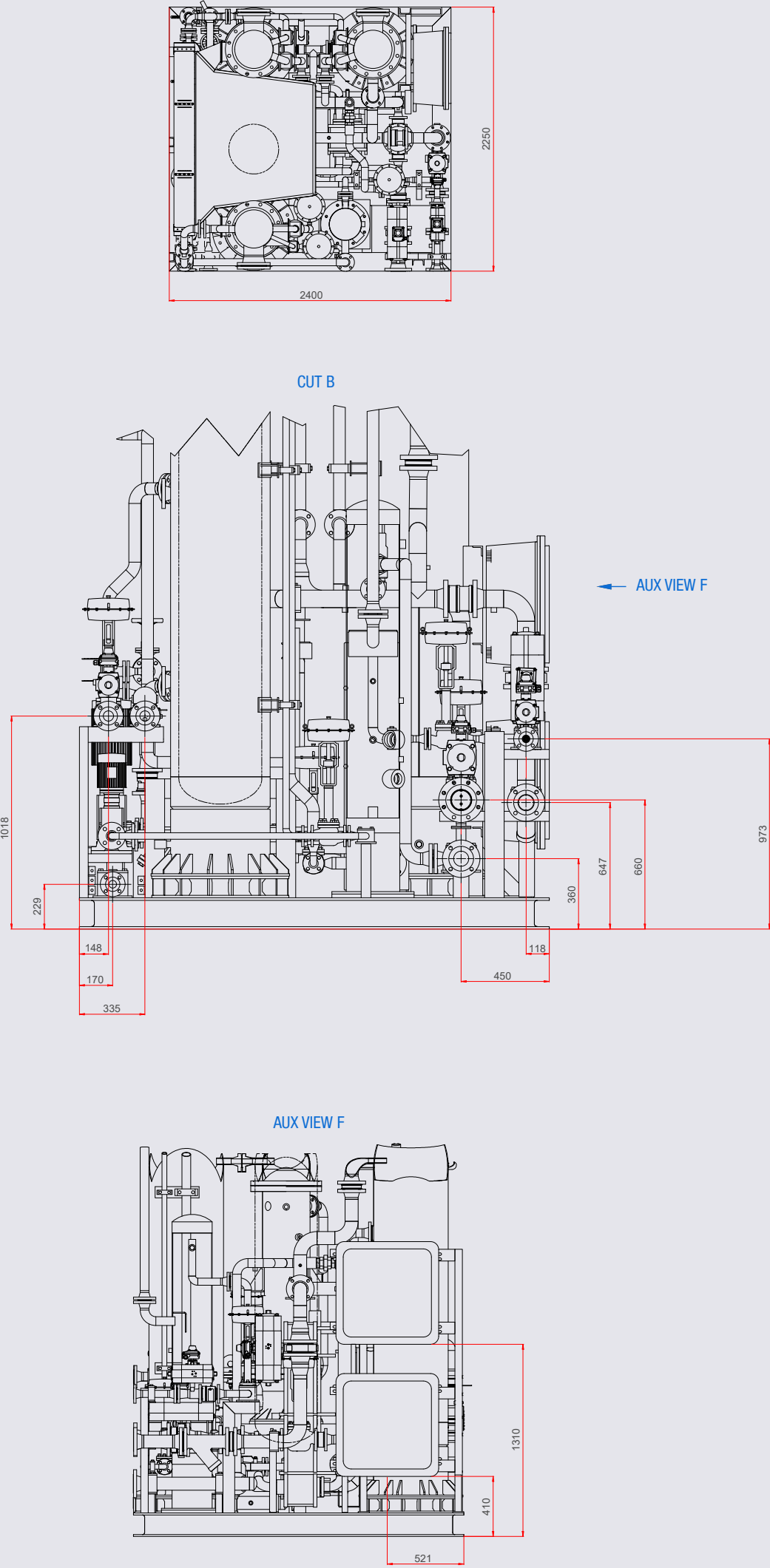
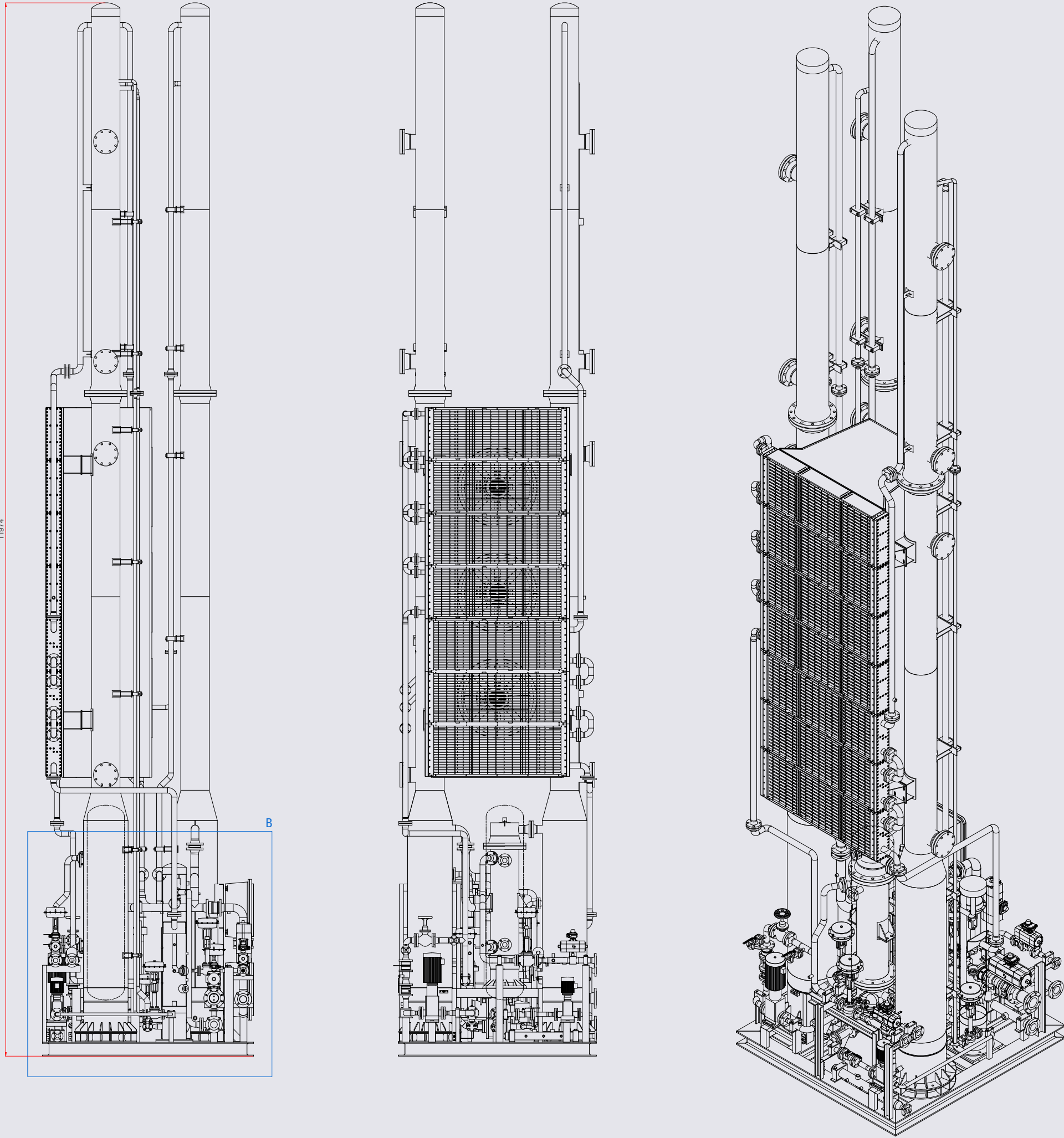
Process description:

Amine absorption

1. Gas inlet to the absorption tower.
2. Amine spray.
3. Capture of CO_2 and H_2S by absorption.
4. Closed cycle amine recovery tower.



Dimensions (mm)



Datasheet

		AMINE MODULE
Electric Installed Power	KW	30
	HP	40
Gas characteristics		
Pressure (Min/Max)	barg	1 to 35
	psig	14.5 to 507.6
Temperature (Min/Max)	°C	10 to 50
	°F	50 to 122
Flow (Min/Max)	Sm³/h	500 to 4000
	MSCFD	425 to 3397
Carbon Dioxide	CO ₂	up to 10%
Sulphidric Acid	H ₂ S	up to 2%
Utilities Consumption	Demi Water	1 m³/week
	Amine	0.5 m³/month
	Steam	350 kg/h @ 7 barg 8.4 Ton/Day @ 101.5 psig
	Air	2.8 Nm3/h @ 8 barg (ISO-8573-1 Type [2;2;2] or higher quality) 2.508 MSCFD @ 116.0 psig (ISO-8573-1 Type [2;2;2] or higher quality)
Dimensions		2.6m L x 2.5m W x 12m H
Weight		16.5 ton

All values are expressed under a regular operation and may present changes with variation of gas composition and environmental conditions.

Tracked under our Galileo DigiHub System

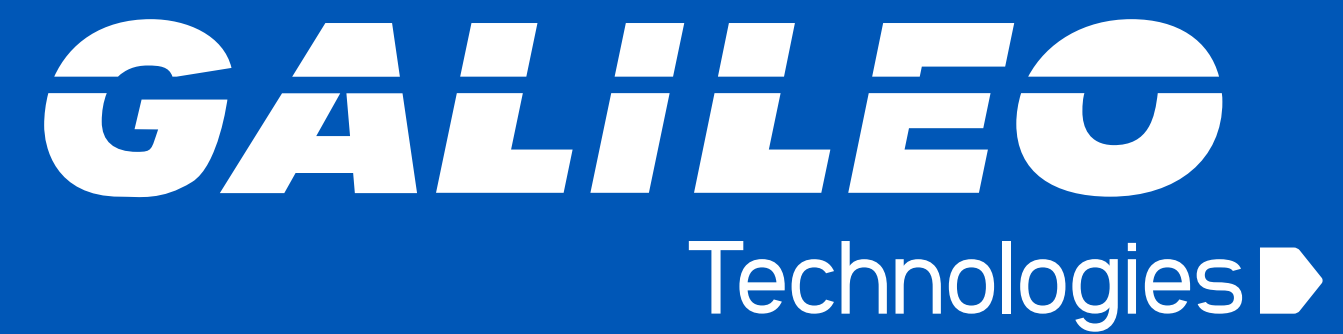
We don't just sell technology; we provide a service. We will be with you 24/7, monitoring key parameters through our **Galileo DigiHub System*** and providing on-the-ground support to keep your uptime as high as possible.

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 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.*



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