



CO₂ Removal: Low Flow Compact Unit

High-performance biogas upgrading
for <2,000 SCFM applications



The Air Liquide advantage: engineering excellence for RNG projects

Air Liquide's compact, single-skid solution for landfill operations represents the pinnacle of innovative design, integrating both proprietary pretreatment and CO₂ removal membranes into a single, streamlined footprint. By leveraging our patented membrane technology and decades of design expertise, these units are engineered to deliver pipeline-specification RNG while significantly reducing construction and field installation costs.

Core performance & key features

As the only vertically integrated provider, we manage the entire value chain - from the chemistry of our hollow fiber membranes to the final skid integration - ensuring peak performance and reliability.

- **Compact single-skid design:** a reduced footprint that minimizes site preparation and simplifies logistics.
- **World-class efficiency:** achieve >96% methane recovery to maximize your project's revenue potential.
- **Industry-leading reliability:** designed for >98% system uptime, validated by our experience operating global biogas assets.
- **Uncompromising safety:** built to rigorous Air Liquide safety standards for peace of mind in every operation.

A partner for the long term

With over 17 years of leadership in biogas purification and more than 250 units installed worldwide, Air Liquide offers more than just equipment; we offer a proven path to operational excellence.

- **U.S. based manufacturing:** our membranes are 100% manufactured in our state-of-the-art facilities in Delaware, USA.
- **Customizable configurations:** optional feed compression allow for tailored project scaling.
- **Global field services:** gain access to rapid-response technical support, spare parts, and performance guarantees from a team that understands the "manufacturer-operator" feedback loop.

Technical specifications: 2,000 SCFM series

Engineered for versatility, these units handle varying flow rates and complex gas compositions with ease.

Parameter	Specification
Capacity (nominal)	1,800 SCFM
Flow range	1,000 SCFM (min.) to 2,000 SCFM (max.)
Typical inlet composition	53% CH ₄ , 41% CO ₂ , 50 ppm H ₂ S
Outlet quality	<1% CO ₂ , <4% inerts, 50% O ₂ removal
Methane recovery	96.5%
Pressure (inlet/outlet)	200 psi / 150 psi
Physical dimensions	L: 32', W: 11', H: 11' Weight: 71,000 lb



Contact us

nam-biogas@airliquide.com

www.advancedseparations.airliquide.com