

Valkyrie

ECO FLEX

Transforming H₂S Treating for Renewable Natural Gas

Listening to industry needs and delivering technology to address those needs is what we do at Streamline Innovations. Building off the substantial success of our oil and gas VALKYRIE® H₂S treating systems.

An expansion of the VALKYRIE ECO product line, the ECO FLEX system utilizes Talon®, our non-toxic, biodegradable liquid redox chemistry for H₂S treating in renewable natural gas (RNG) applications. The ECO FLEX targets projects with higher gas volumes (1,000+ scfm) such as landfill natural gas.

Capacity

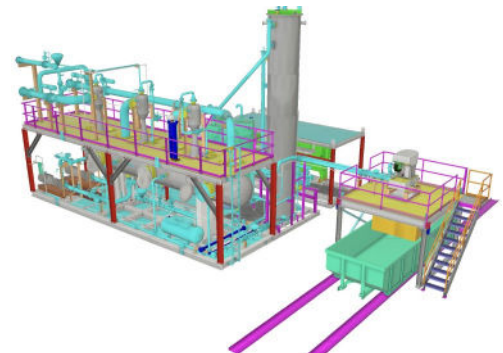
- Standard design can treat up to 3,300 scfm and up to 14,500+ PPM H₂S to a continuous outlet spec of <20 ppm of H₂S
- Ability to bolt on additional trains to increase unit capacity
- Ultra low pressure with no pressure loss across the system

Operations

- Single-button startup with automated operations allowing for limited operator intervention
- Fully skid-mounted design with (4) skids, enabling simple installation
- Operates continuously without shutdowns for media changes
- Does not introduce oxygen into the gas stream

Value-Added Benefits

- Environmentally forward design eliminates need for hazardous spent media handling and disposal
- Only byproduct is elemental sulfur, certified by OMRI for use as a fertilizer in organic agriculture
- Low total cost of ownership



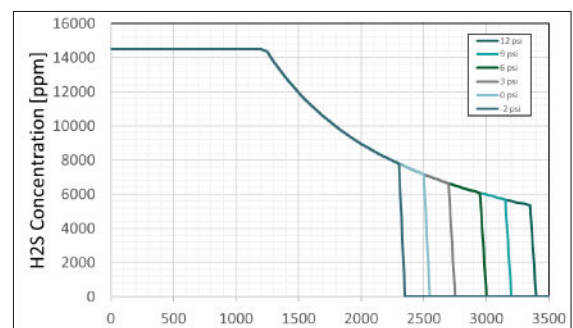
VALKYRIE® ECO FLEX Design Specifications

Design Gas Flow Rate	2,500	scfm
Design Inlet Pressure	0	psig
Max Inlet H ₂ S Concentration	14,500	ppm
Max Sulfur Removal	2,240	lbs/day
Design Outlet H ₂ S Concentration	< 20	ppm
Operating Pressure	-2 to 12	psig
Differential Pressure	0	in. WC
Inlet Gas Temperature	40 to 135	degF
Est. Footprint	75' x 75'	

UTILITIES (Estimated)

Connected Power Load (480V)	400	amps
RO Water	TBD	gal/day
Instrument Air (100 psig):	TBD	cfm

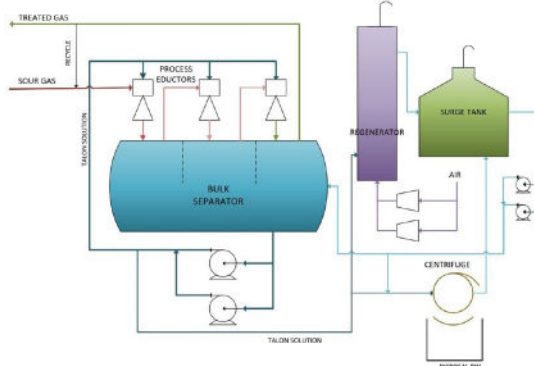
VALKYRIE ECO FLEX Operating Envelope



Revolutionary Treating Process

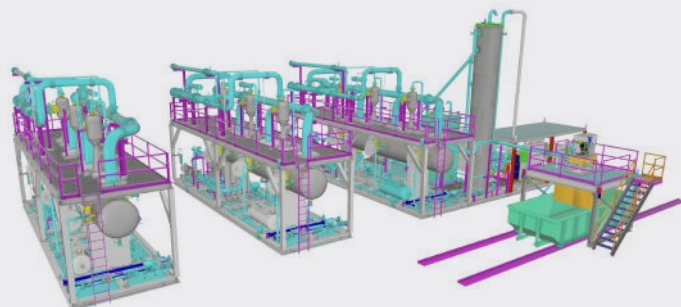
Utilizing our High Efficiency Contacting System™, the VALKYRIE ECO FLEX is able to treat to pipeline spec at ultra low pressures with zero pressure loss across the unit. This system is fully skid-mounted, reducing fabrication, transportation, and installation costs.

The VALKYRIE® ECO FLEX - Process Flow



Operational Flexibility

The VALKYRIE ECO FLEX system is operationally flexible allowing for H₂S treating to occur at multiple points along the gas upgrading process. The most optimal point is prior to any blower or compressor, removing the H₂S to improve equipment run-time and worker safety. The ECO FLEX can provide upstream bulk H₂S removal or serve as a tailgas treater for gas upgrading equipment.



Product Roll Out

The VALKYRIE ECO FLEX system is available through either a purchase or lease program combined with chemical supply and support services. The VALKYRIE INTELLIGENCE PLATFORM® (VIP®) is available as an optional service that provides cloud-based remote monitoring from our 24-7 operational control room.



About Streamline

Streamline was founded in 2016 to develop and deploy the most robust and viable H₂S treating technology. Our principal technologies are Talon and the VALKYRIE H₂S Treating Unit, treating H₂S in water, gas, and air phases. Please visit our website or call for more information.

Copyright© 2024 - Streamline Innovations, Inc.



(888) 787-6569



Streamline®



StreamlineInnovations.com