



Streamline®

# Valkyrie® ECO FLEX

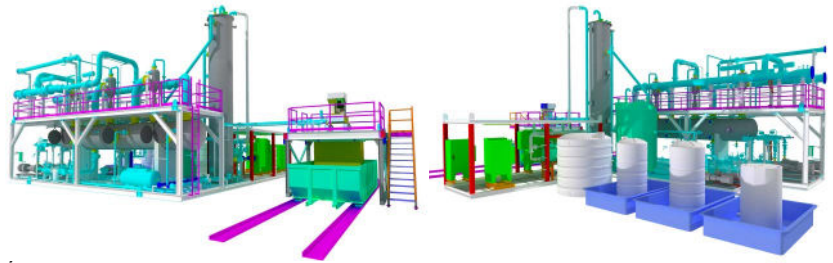
## Transforming H<sub>2</sub>S Treating for Renewable Natural Gas

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 H<sub>2</sub>S treating systems.

An expansion of the Valkyrie ECO product line, the ECO Flex utilizes Talon®, our non-toxic, biodegradable liquid redox chemistry for H<sub>2</sub>S treating in renewable natural gas (RNG) applications. The ECO Flex targets projects with higher gas volumes (1,000+ scfm) such as landfill natural gas. Following are the Valkyrie ECO Flex capabilities:

### Capacity:

- Treat up to 3,300 scfm and up to 14,500+ PPM H<sub>2</sub>S to a continuous outlet spec of <20 ppm of H<sub>2</sub>S
- 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 (3) 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

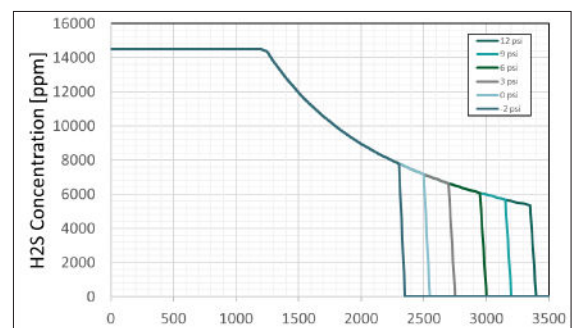
#### Valkyrie® ECO Flex Design Specifications

Design Gas Flow Rate	2,500	scfm
Design Inlet Pressure	0	psig
Max Inlet H <sub>2</sub> S Concentration	14,500	ppm
Max Sulfur Removal	2,240	lbs/day
Design Outlet H <sub>2</sub> S Concentration	< 20	ppm
Operating Pressure	-2 to 12	psig
Differential Pressure	0	in. WC
Inlet Gas Temperature	40 to 135	degF
Est. Footprint	70' x 70'	

#### UTILITIES (Estimated)

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

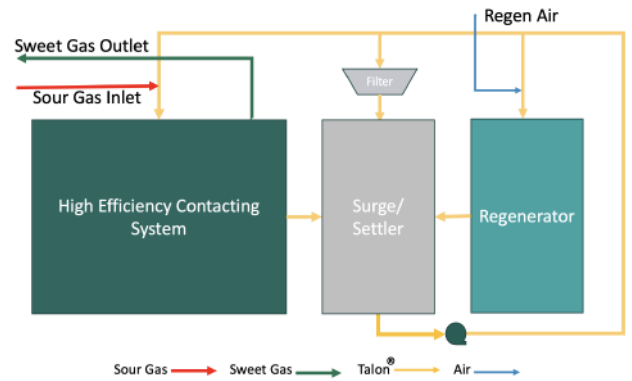
### Valkyrie ECO Flex Operating Envelope



# Revolutionary Testing Process

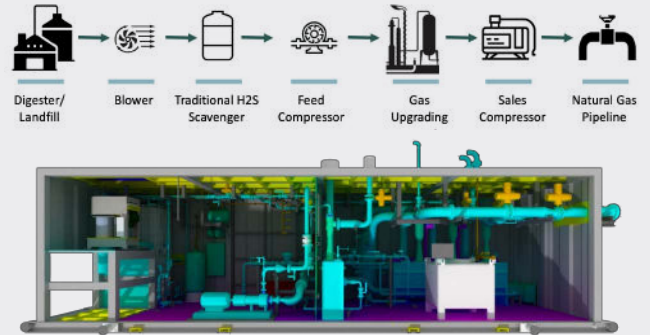
Utilizing our "High Efficiency Contacting System™" the Valkyrie ECO is able to treat to pipeline spec at ultra-low pressures with zero pressure loss across the unit. This system is fully skid-mounted, reducing fabrication, transportation, and installation costs.

## The Valkyrie ECO - Process Flow



# Operational Flexibility

The Valkyrie ECO is operationally flexible allowing for H<sub>2</sub>S treating to occur at multiple points along the gas upgrading process. The most optimal point is prior to any blower or compressor, removing the H<sub>2</sub>S to improve equipment run-time and worker safety. The ECO can directly treat H<sub>2</sub>S or serve as a tailgas treater for gas upgrading equipment.



# Product Roll Out

The Valkyrie is available through either a purchase or lease program combined with chemical supply and support services.



# About Streamline

Streamline was founded in 2016 to develop and deploy the most robust and viable H<sub>2</sub>S treating technology. Our principal technologies are Talon and the Valkyrie H<sub>2</sub>S Treating Unit, treating H<sub>2</sub>S in water, gas, and air phases. Please visit our website or call for more information.



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