

STATORGUARD – SAFE AND RELIABLE CO₂ FREE AIR INJECTION AND HYDROGEN LEAKAGE MONITORING



- 🕒 **Compact design:** CO₂-free air injection, hydrogen leakage monitoring and control display in one place
- 🕒 **Delivery of complete modular skids**
- 🕒 **Easy to install during operation:** Simple, standardized interfaces
- 🕒 **Easy integration:** Requires only three connections at the stator cooling water system and access to instrument air
- 🕒 **Stand-alone island solution or integrated plant solution** available
- 🕒 **No explosive atmosphere:** The high injection rate prevents an explosive mixture in the stator tank during normal operation or even with medium gas-to-water leaks
- 🕒 **Low maintenance:** CO₂ removal efficacy is monitored; CO₂ and H₂ sensor calibrations are done automatically
- 🕒 **Visual alarms:** Configurable alarms and warnings for relevant parameters
- 🕒 International patent pending

KEY COMPONENTS

Air injection	CO ₂ -free air is injected at safe rates
Hydrogen leakage	Hydrogen leakage rate is monitored continuously and reliably
Injection air quality	CO ₂ -removal with reliable and self-regenerating column. Removal is monitored automatically and current injection concentration displayed
Controls	Ergonomic display and control of all key parameters in one location
Alarms	<ul style="list-style-type: none"> • Excessive leakage rate • Explosive atmosphere in expansion tank • Insufficient CO₂-removal

TECHNICAL DATA

Dimensions	H: 2000 mm, W: 800 mm, D: 800 mm (H: 6.56 ft, W: 2.62 ft, L: 2.62 ft)	
Interfaces	System interfaces	3/8" OD connections: <ul style="list-style-type: none"> • sampling from stator tank vent • return to stator tank vent • air injection to expansion tank
	Plant air	3/8" OD connection
	Electrical connection	120 VAC/60 Hz or 240 VAC/50 Hz
Power requirements	100-240 VAC, 50/60 Hz, 150 Watt max	

Statorguard is the first hydrogen leakage monitoring system which not only monitors the hydrogen leakage rate and injects CO₂ free air, but also monitors the

CO₂ concentration of the injected air and ensures a non-explosive atmosphere due to the improved injection concept.

ABOUT US

SvoBaTech Inc. was founded to provide international knowledge in generator stator cooling water chemistry and to create an independent and highly competent service provider for OEMs and utilities. Our owner-operated company combines the experience from over four decades and involvement in more than 150 chemical cleanings on stator cooling water systems on

six continents and generator stators of most OEMs. These include GE, Siemens (Westinghouse, Parsons), Alstom (BBC/ABB, GEC, Alsthom), and Elektrosila. Services were performed at major utilities such as FPL, AEP, SCE, PG&E, Xcel Energy, Duke Energy, OPG, TVA, ESKOM, Transalta, EdF and EoN.