

ALKALIZATION SYSTEM FOR WATER-COOLED GENERATORS



- 🕒 **Creates alkaline water chemistry:** Maintains pH reliably by injecting NaOH
- 🕒 **Taylor-made solutions:** Recommendations on benefit of alkalization and best configuration
- 🕒 **Delivery of complete modular skids**
- 🕒 **Easy to install during operation:** Simple, standardized interfaces
- 🕒 **Easy integration:** Can be installed in all stator cooling water systems
- 🕒 **Stand-alone island solution** available
- 🕒 **Controls pH reliably:** Maintains pH within a tolerance of +/- 0.05 units
- 🕒 **Several independent safeguards** against over-injection
- 🕒 **Low maintenance:** Yearly or longer refill intervals
- 🕒 **Extra low maintenance option** available
- 🕒 **Standard spare parts** available internationally

Alkaline water chemistry reduces copper solubility. In some situations, it can thus be beneficial to run a stator cooling water system with alkaline chemistry. After working with and analyzing all popular designs in the

industry, we designed a low-maintenance, failsafe and modular system to satisfy all needs. It can be installed and commissioned while the plant is operating.

KEY COMPONENTS

Conductivity meter	Indirect monitoring of pH
Controls	Electronic control for injection, including alarm and trip points
Tank	NaOH solution storage tank; with level indicator, mixer, makeup water connection and breathing filter (CO ₂ trap)
Injection Pump	Membrane pump with adjustable stroke length and frequency

TECHNICAL DATA

Dimensions	H: 2000 mm, W: 750 mm, D: 750 mm (H: 6.56 ft, W: 2.46 ft, L: 2.46 ft)	
Interfaces	Liquid interfaces	Two 3/8" OD connections
	Deminerlized water	1/2" OD connection
	Electrical connection	120 VAC/60 Hz or 240 VAC/50 Hz
Power requirements	500 Watt max	
Pressure rating	10 bar (145 psi)	

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.