

CHEMISTRY INSTRUMENTATION FOR WATER COOLED GENERATORS



- 🕒 **Compact modular rack:** All probes and instruments in one place
- 🕒 **Includes sampling point:** Satisfies best practice considerations for grab samples
- 🕒 **Easy connection:** Connects with two 3/8" OD pipes to the system, forming a bypass
- 🕒 **Online installation:** Can be implemented during operation
- 🕒 **Flexible integration:** Can be used as island solution or tied into the plant process control system
- 🕒 **Flexible mounting options:** Free-standing or wall-mounted

“The generator is a key component of an electric power plant, and if the generator is not functioning, the rest of the power plant cannot fulfill its proper purpose. Therefore, adequate generator water chemistry and its monitoring are essential to avoiding component damage and loss of availability.”

Chemistry-Related Monitoring of Generator Cooling Water Systems Second International Conference on Instrumentation for Power Plant Chemistry, Nov 15-17, 2010, Stuttgart / DE Power Plant Chemistry, 13 (2011) 3, pg 128-135

TECHNICAL DATA

Dimensions	H: 700 mm, W: 900 mm, D: 70 mm (H: 27.56 in, W: 35.43 in, D: 2.76 in)	
Interfaces	Liquid interfaces	Two 3/8 in Swagelok® connections
	Electrical connection	100–240 VAC, 50/60 Hz, 150 W
Pressure rating	10 bar (145 psi), ECP: ambient pressure	

PROPOSED INSTRUMENTS

<input checked="" type="checkbox"/> Conductivity	SWAN AMI Powercon with flow meter
<input checked="" type="checkbox"/> Dissolved oxygen	SWAN Oxytrace with flow meter
<input checked="" type="checkbox"/> Electrochemical Corrosion Potential	SWAN AMI pH-Redox with SvoBaTech electrode
<input checked="" type="checkbox"/> Grab sample	Valve for taking water samples

The generator requires relatively low maintenance compared to other components, such as the turbine or boiler. Stator cooling water systems are an often-overlooked part of auxiliary systems. Consequently, instrumentation can be in sub-optimal condition. This can allow for

dangerous situations to develop without warning. Keeping your instrumentation updated does not cost much and pays back by avoiding downtime and failures and helps to keep that system running another twenty years without trouble!

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, Alstom), and Elektrosila. Services were performed at major utilities such as FPL, AEP, SCE, PG&E, Xcel Energy, Duke Energy, OPG, TVA, ESKOM, Transalva, EdF and EoN.