

HPA-S Malfunction Report



Anton Paar

User Name: Address: Tel./Fax:		Instrument HPA-S Ser.No.: Pressure Vessel Ser.No.: Press. Vessel Lid Ser.No.:				
Detailed description of malfunction: please use a following page for a comprehensive description of the malfunction. This information is very important! First notice of malfunction after <input type="radio"/> Transport / Unpacking <input type="radio"/> Installation / First run <input type="radio"/> Normal operation of weeks / runs <input type="radio"/> A longer shut down period		Date of delivery: Date of installation: Date of last inspection / service by distributor or manufacturer: Installation and operation exactly according to manual? <input type="radio"/> Yes <input type="radio"/> No ← Deviations:				
General conditions of operation Do you often use HCl (mixtures)? <input type="radio"/> Yes <input type="radio"/> No Often see acid spillage inside HPA-S? <input type="radio"/> Yes <input type="radio"/> No Often work at temperatures > 300°C? <input type="radio"/> Yes <input type="radio"/> No Often change applications? <input type="radio"/> Yes <input type="radio"/> No How many runs have been done altogether? How many trained people work with the system? Mains voltage (measured): ... V Frequency: Hz Average life of seal ring (72434): runs Vessel closure: <input type="radio"/> Wrapping technique <input type="radio"/> O-ring seal (with OR-vessels) <input type="radio"/> Spring loaded caps Do you keep an apparatus report to proof the history of your HPA-S system? <input type="radio"/> Yes (enclose sample copy) <input type="radio"/> No		Maintenance Regular cleaning after each run? <input type="radio"/> Yes <input type="radio"/> No Regular maintenance acc. to manual? <input type="radio"/> Yes <input type="radio"/> No Periodic pressure vessel inspection? <input type="radio"/> Yes <input type="radio"/> No Quartz vessel and lid: seal surface o.k.? <input type="radio"/> Yes <input type="radio"/> No Corrosion has been observed at <input type="radio"/> pres.vessel bottom <input type="radio"/> heating core <input type="radio"/> pres.vessel walls <input type="radio"/> safety disk <input type="radio"/> pres.vessel lid <input type="radio"/> heating block <input type="radio"/> <input type="radio"/> Leaks have been found at: Leak rate: ... bar / ... hour(s) Last replacements: seal ring (before ... runs) filter (... runs) safety disk (... runs)				
Application (where the malfunction occurred) Sample (weight, constituents, particle size, water content, etc.): Vessel size: <input type="radio"/> 15mL <input type="radio"/> 30mL <input type="radio"/> 50mL <input type="radio"/> 70mL <input type="radio"/> 90mL <input type="radio"/> 20mL GK Reagents / Concentration (%) / Quantity (mL): Reaction behaviour of the sample: Type of heating block: <input type="radio"/> standard <input type="radio"/> type "C" or "D" (open frame) Losses (spillage) of acid? <input type="radio"/> Yes, approx. µL per vessel <input type="radio"/> No First test with this sample? <input type="radio"/> Yes <input type="radio"/> No, done times before Same result in all vessels? <input type="radio"/> Yes <input type="radio"/> No (describe differences): Analyzed elements: Method of analysis: Other main applications:		Program: ←	Step	Pr (min)	PL (°C)	Pd (min)
Additional information is attached <input type="radio"/> Yes (... pages) <input type="radio"/> No		System will be returned to Paar <input type="radio"/> Yes <input type="radio"/> No		Repair cost estimate required <input type="radio"/> Yes <input type="radio"/> No		
Date:		Name (print):		Signature:		