



S2 PICOFOX

Improved configurations

The S2 PICOFOX is now equipped with the most modern X-ray technology, which leads to significantly lower element detection limits. Based on the technical improvements, the configurations of the S2 PICOFOX have been revised and a new labelling of the system packages has been introduced.

S2 PICOFOX 200

The S2 PICOFOX 200 (formerly "Academia") now includes a 30 mm² XFlash[®] detector, which enhances the sensitivity of the system by a factor of two or more. Featuring a three times larger active area, this detector is more robust for measurements of inhomogeneous sample layers and provides higher precision.

The system still comes with a single sample changer and is sufficient for laboratories with a low number of samples and for teaching purposes.

S2 PICOFOX 400

The S2 PICOFOX 400 (formerly "High Efficiency Automatic") also uses a 30 mm² XFlash[®] detector. The power of the micro-focus X-ray tube has been increased from 30 W to 50 W resulting in a 60% higher sample excitation and therefore an increase of the count rate by a factor of 1.6.

The S2 PICOFOX 400 with an autosampler for up to 25 sample discs is the best choice for laboratories with up to 50 samples per day and ambitious detection limits.

S2 PICOFOX 800

The new S2 PICOFOX 800 is equipped with a large area XFlash[®] detector of 60 mm² size. This newly designed detector provides highest count rates in combination with a low background. In addition, the system contains the nitrogen purge system for the removal of the argon peak. The S2 PICOFOX 800 is suitable for applications with the most challenging detection limits.

The S2 PICOFOX is available with a X-ray tube with Mo target only. The most suitable element range for this excitation comprises the elements from Ca to Y and Cs to U. The advantage of the restriction to one tube is the compact and portable design of the spectrometer, which makes it suitable for onsite analysis in the field and at remote locations.

A broader range of X-ray tubes and configurations is available with the advanced benchtop TXRF spectrometer S4 TStar (www.s4tstar.com).

S2 PICOFOX System Configurations

SAP Mat. No.	System Configuration	S2 PICOFOX 200	S2 PICOFOX 400	S2 PICOFOX 800
	Basic System			
PFOX_A011	Benchtop housing with single sample changer, Control unit with electronics and HV generator	✓		
PFOX_A012	Benchtop housing with automatic sample changer, Control unit with electronics and HV generator		✓	✓
	Excitation			
PFOX_A031	Air-cooled fine-focus X-ray tube, Mo target, 50 W + Multilayer monochromator 17.5 keV, flat	✓		
PFOX_A035	Air-cooled micro-focus X-ray tube, Mo target, 50 W + Multilayer monochromator 17.5 keV, curved		✓	✓
	Detector			
PFOX_A042	XFlash® Silicon Drift Detector, liquid nitrogen-free, <149 eV, 30 mm ²	✓	✓	
PFOX_A045	XFlash® Silicon Drift Detector, liquid nitrogen-free, <149 eV, 60 mm ²			✓
	Extensions			
PFOX_D20	Gas purge system for nitrogen		optional	✓
	Computer			
PFOX_C20	Configured notebook, international package	✓	✓	✓
	Software			
PFOX_E01	Measurement software Spectra	✓	✓	✓
PFOX_E02	Super Bayes quantification routine	✓	✓	✓
PFOX_E03	Measurement job editor for autosampler		✓	✓
	Sample tools			
PFOX_D10	Quartz discs (set of 25 units)	✓	✓	✓
PFOX_D11	Washing cassette	✓	✓	✓
PFOX_D12	100 disposable sample discs, 30 mm diameter	✓	✓	✓
PFOX_D13	Tool for sample centering	✓	✓	✓
PFOX_D14	Sample cassette for 25 discs		✓	✓
PFOX_D18	Sample container for 1 disc (set of 25 units)	✓	✓	✓
	Documentation			
	S2 PICOFOX User manual	✓	✓	✓
	Spectra User manual	✓	✓	✓
	S2 PICOFOX Quick reference guide	✓	✓	✓

● **Bruker Nano GmbH**
 Berlin · Germany
 Phone +49 (30) 670990-0
 Fax +49 (30) 670990-30
 info.bna@bruker.com

www.bruker.com

Bruker AXS Inc.
 Madison, WI · USA
 Phone +1 (608) 276-3000
 Fax +1 (608) 276-3006
 info.baxs@bruker.com



www.s2picofox.com