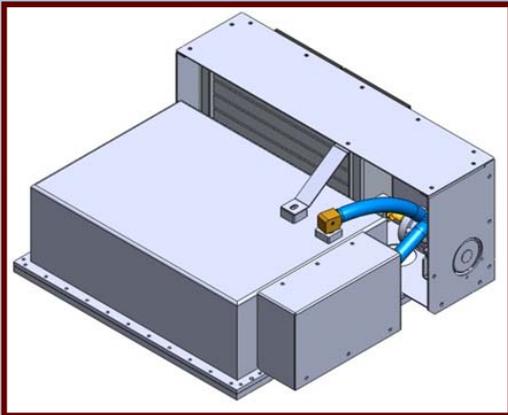




Integrated X-Ray Sources

SourceBlock™ (High Power Family)



SourceBlock™ by Source-Ray, Inc. is a modern technology that integrates an X-ray tube and a high voltage generator into one physical package. SourceBlock is appropriate for all medical and industrial x-ray applications, including EDS. It is also well suited for NDT or x-ray analysis (including food inspection) or analytical x-ray (XRD, XRF techniques). All models are rated for continuous operations and utilize liquid or oil to liquid cooling. All units can be configured for digital (RS-232), or analog interfaces.

Specifications

(High Power Family)

Model Number	XRS-150-5K-BW-HE	SB-160-2K	SB-150-4K-BW	SB-200-4K	SB-250-3K
Modality Served	Laboratory	Industrial	Industrial	Industrial	Industrial
Applications	Irradiation	Inspection	Irradiation	Inspection	Inspection
Power Supply	HF Inverter, PFC	HF Inverter	HF Inverter	HF Inverter	HF Inverter
Input Power	100—230 VAC	115 VAC	115 / 230 VAC	115 / 230 VAC	115 / 230 VAC
Duty Cycle	100%	100%	100%	CW	CW
kVp Range	20 - 150	60 - 160	60 - 150	100 –200	100 –250
mA Range	0.1- 5.0 mA	0.2 - 2.0 mA	0.2 - 4.0 mA	0.2 - 4.0 mA	0.2 - 3.0 mA
Line Reg. (kVp)	0.10%	0.10%	0.10%	0.10%	0.10%
Load Reg. (kVp)	0.10%	0.10%	0.10%	0.10%	0.10%
Line Reg. (mA)	0.50%	0.50%	0.50%	0.50%	0.50%
Load Reg. (mA)	1.00%	1.00%	1.00%	1.00%	1.00%
Ripple	< 1%	< 1%	< 1%	< 1%	< 1%
Rise Time (kVp)	< 1.0 Sec	< 1.0 Sec	< 1.0 Sec	< 1.0 Sec	< 5.0 Sec
Set-ability	0.50%	0.50%	0.50%	0.50%	0.50%
Cooling	Heat Exchanger	Water	Water	Water	Water
Liquid Chiller	N/A	Required	Required	Required	Required
Temp. Stability	0.1%	0.1%	0.1%	0.1%	0.1%
Operating Temp.	10 - 35° C				
Storage Temp.	0 - 45° C				
X-Ray Tube	Beryllium	Glass	Beryllium	Glass	Glass
Min. Focal Spot	1.0 x 1.4 mm	0.8 x 0.8 mm	1.0 x 1.4 mm	1.0 x 1.5 mm	1.0 x 1.5 mm
Window Material	Be	AL	Be	AL	AL
Size (approx.)	18.25 x 18.0 x 8.0	18.0" x 12.2" x 5.3"	25.0" x 18.5" x 6.5"	25.0" x 18.5" x 6.5"	25.0" x 18.5" x 6.5"
Weight (approx.)	115 Lbs.	55 Lbs.	115 Lbs.	115 Lbs.	115 Lbs.
Optional Equip.	None	See below	See below	See below	See below
Warranty	1 Year, X-Ray Tube Prorated				

Optional Equipment: Reference Individual Manuals for Detailed Specifications (Specifications Subject To Change Without Notice)

- ◆ Digital Interface: Model DI-RS232
- ◆ Human Machine Interface: Model PI-3.8A