

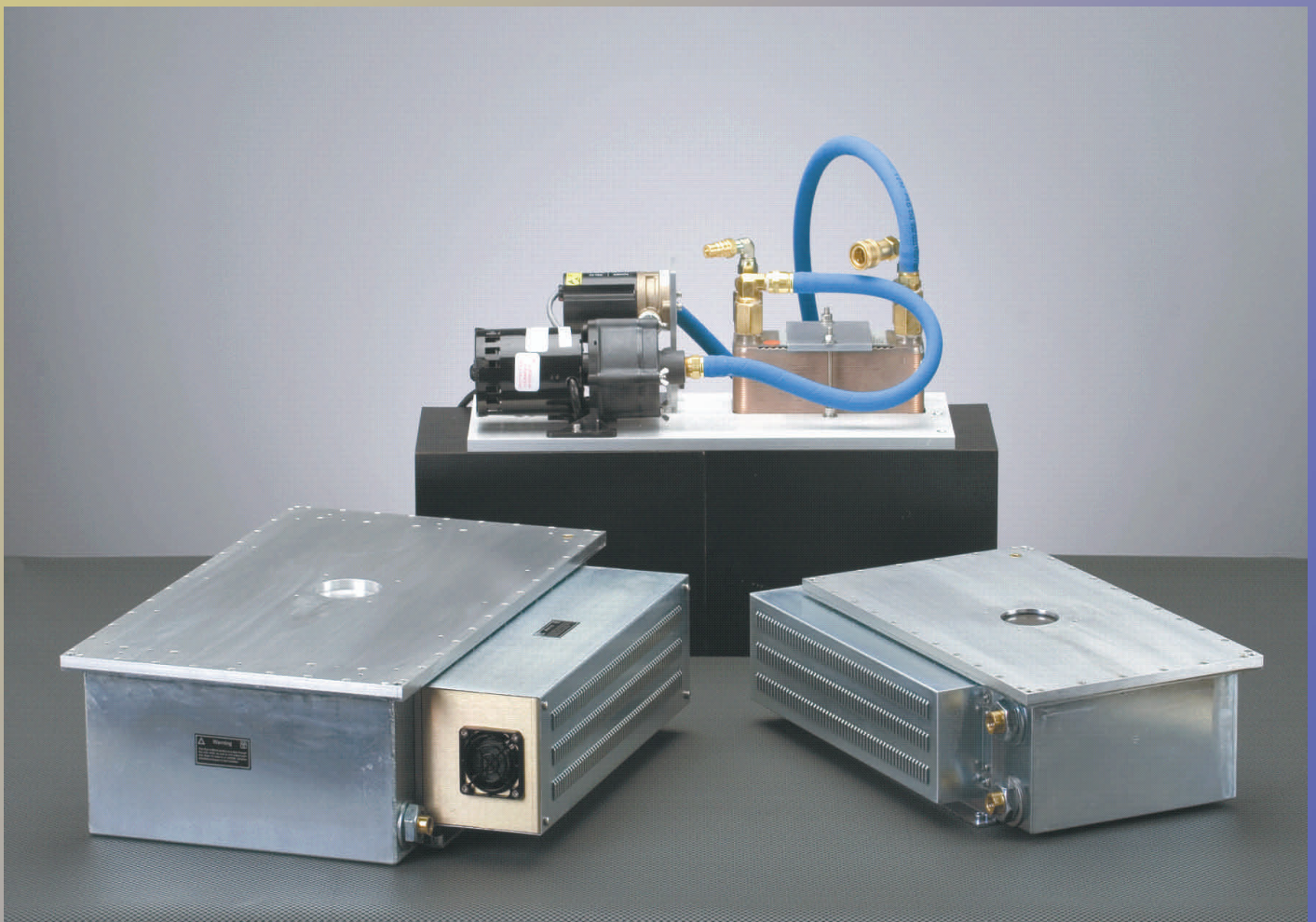


# Source-Ray, Inc.

X-Ray Source Assemblies—High Power Family

## 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. Various models can be UL and FDA certified at customer request.





# Specifications

## (High Power Family)

Model Number	SB-160-2K	SB-200-4K	SB-250-3K
Modality Served	Industrial	Industrial	Industrial
Applications	Inspection	Inspection	Inspection
Power Supply	HF Inverter	HF Inverter	HF Inverter
Input Power	115 VAC	115 / 230 VAC	115 / 230 VAC
Duty Cycle	CW	CW	CW
KVp Range	60 - 160	100 -200	100 -250
MA Range	0.2 - 2.0 mA	0.2 - 4.0 mA	0.2 - 3.0 mA
Line Reg. (kVp)	0.10%	0.10%	0.10%
Load Reg. (kVp)	0.10%	0.10%	0.10%
Line Reg. (mA)	0.50%	0.50%	0.50%
Load Reg. (mA)	1.00%	1.00%	1.00%
Ripple	< 1%	< 1%	< 1%
Rise Time (kVp)	< 1.0 Sec	< 1.0 Sec	< 5.0 Sec
Set-ability	0.50%	0.50%	0.50%
Cooling	Water	Oil to Water	Oil to Water
Liquid Chiller	Required	Required	Required
Heat Exchanger	N/A	Required	Required
Temp. Stability	0.01%	0.01%	0.01%
Operating Temp.	10 - 35° C	10 - 35° C	10 - 35° C
Storage Temp.	0 - 45° C	0 - 45° C	0 - 45° C
X-Ray Tube	Glass	Glass	Glass
Min. Focal Spot	600 microns	1.5 mm	1.5 mm
Window Material	AL	AL	AL
Size (approx.)	18.75 x 11.75 x 5.375	22.5 x 17.75 x 6.5	22.5 x 17.75 x 6.5
Weight (approx.)	50 Lbs.	80 Lbs.	80 Lbs.
Optional Equip.	See below	See below	See below
Warranty	1 Year, Prorated X-Ray Tube	1 Year, Prorated X-Ray Tube	1 Year, Prorated X-Ray Tube

**Specifications Subject To Change Without Notice**

**Optional Equipment:** Reference Individual Brochures for Specifications

**Heat Exchanger:** Model HE-1000

**Digital Interface:** Model DI-RS232

**Human Machine Interface:** Model PI-3.8A

**Analog Interface:** Model XRC-500