



Diagnostic X-Ray Generators

Fluoroscopy • Radiography • Tomography • Digital Radiography







pellman Innovative X-ray Generator Solutions.

EDITOR HFe Series

HIGH FREQUENCY X-RAY GENERATORS

Quality & Reliability: Stable and proven design. Over5 year's of production and design validation. Thousands installed worldwide

Serviceability:

Modular design repairable to circuit board or component level minimizing service cost and down time

Capability:

Global resources for efficient production and worldwide sales and service support

Subsystems solutions: Generator plus HV cables, X-ray tubes, detectors and mechanical assemblies

As the world's leading independent manufacturer of X-ray generators and Monoblock® X-ray sources, Spellman High Voltage is proud to offer the Editor HFe Series of high frequency diagnostic X-ray generators.

The Editor HFe X-ray generator series ranges from 40 to 80 kW. These generators are compatible with most X-ray tubes, image intensifiers, flat panel detectors, and have a flexible digital and DR interface. With its' modular construction and flexible design the HFe series can be easily installed, maintained and integrated. Full featured Radiographic or R/F control consoles are available as well as anatomic programming and integrated DAP. The HFe series is also offered with dual X-ray tube control and high speed starters.

Radiographic and Fluoroscopic Generators Editor HFe 401-HFe 801

Radiographic Mode

The Editor HFe Series combines conventional radiographic control and anatomic programming with the latest in automatic exposure control technology and a variety of detector interfaces for the latest in radiographic applications.

- Automatic Exposure Control
- Programmed Organ Library
- Multiple Language Organ Program
- APR Techniques

Fluoroscopic Mode*

The Editor HFe Series includes enhanced fluoroscopic control in addition to a digital interface which allows for smooth integration with new dynamic detectors and imaging software.

- Pulsed Fluoroscopy
- High Level Fluoroscopy
- Automatic Brightness Stabilization
- Collimator Control

Output Frequency 100kHz

Output Power 40, 50, 65, and 80kW

Output Voltage 40-150kV

Output Current

Radiographic: 10-800mA Fluoroscopic: 0.5 to 5mA

High Level

Fluoroscopic: 1-20mA

Pulsed

Fluoroscopic: 10-150mA

Interface RS-232

Typical Applications

Fluoroscopy

Digital Subtraction Angiography

Digital Spot Film Serial Radiography

Digital Radiography

Available Options

High Speed Starter Dual X-ray Tube Control* Automatic Exposure Control Control Consoles Collimator Power Supply Bucky Power Supply and Interface

* only available in standard cabinet



the HFe Series line-up, the HFe 801 offers the upgrades and options needed to meet the requirements of any radiology department or diagnostic imaging center.

Standard cabinet

EDITOR HFe Series Control Consoles

Radiographic or Fluoroscopic with TV control

0-Point Mode:

Organ selection with or without falling load

■ 1-Point Mode:

Tube voltage can be freely selected with falling load and automatic exposure control

2-Point Mode:

Tube voltage and mA can be freely selected, with or without automatic exposure control

3-Point Mode:

Tube voltage, mA, and exposure time can be freely selected, with or without automatic exposure control

Pre-programmed organ parameters save time and reduce number of repeats

The Editor control consoles offer an intuitive approach to the selection of X-ray techniques and imaging control.



Editor HFe 401-HFe 801 Radiographic Generators



Optional compact upright cabinet available for 40, 50 and 65kW Radiographic applications



An example of our commitment to advanced system integration is clearly illustrated by our bucky table specific horizontal HFe generator. Output Frequency 100kHz

Output Power 40, 50, 65 and 80kW*

Output Voltage 40-150kV

Output Current

Radiographic: 10-800mA Interface RS-232

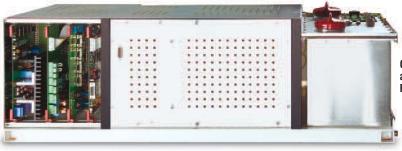
Typical Applications

Serial Radiography Digital Radiography Tomosynthesis

Available Options

High Speed Starter
Automatic Exposure Control
Control Consoles
Collimator Power Supply
DR Interface Box
Bucky Power Supply and Interface

* only available in standard and under table cabinet



Optional under table cabinet available for 40, 50, 65 and 80kW Radiographic applications



Compatible Components

The Spellman HFe Series of X-ray generators have been developed to be compatible with most X-ray tubes, image intensifiers, flat panel detectors, AEC sensors and buckys.

System Integration

In a continuing effort to provide innovative solutions for our customers, Spellman can also provide fully integrated X-ray subsystems including X-ray buckys, tables and stands for OEMs.

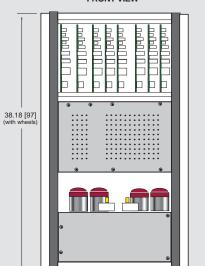


This image shows the integration of our HFe generator with a universal X-ray stand

HFe 401-801 STANDARD CABINET 266lbs (121kg)

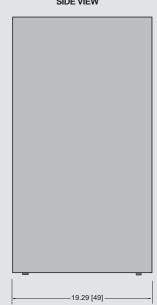
DIMENSIONS: IN. (CM)

FRONT VIEW

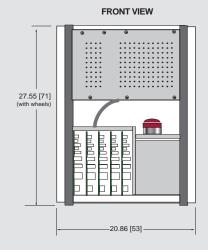


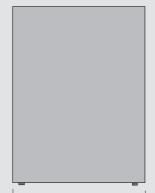
-21.65 [55] -

SIDE VIEW



HFe(V) 401-601COMPACT UPRIGHT CABINET 226lbs (102kg)





-17.71 [45] -

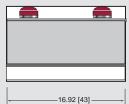
SIDE VIEW

HFe(H) 401-801 UNDER TABLE CABINET 165lbs (75kg)

-35.43 [90]

FRONT VIEW

11.81 [31]



SIDE VIEW



SPECIFICATIONS

MODEL		Editor HFe 401	Editor HFe 501	Editor HFe 601	Editor HFe 801
Power rating		40 kW	50 kW	65 kW	80 kW ¹
mA / kW at	60 kV	500 / 30	630 / 38	800 / 48	800 / 48
	80 kV	500 / 40	630 / 50	800 / 64	800 / 64
	100 kV	400 / 40	500 / 50	650 / 65	800 / 80
	125 kV	320 / 40	400 / 50	520 / 65	640 / 80
	150 kV	266 / 40	330 / 50	430 / 65	530 / 80
Continuous falling load		Yes	Yes	Yes	Yes
Radiographic kV range		40-150 kV	40-150 kV	40-150 kV	40-150 kV
	kV steps or in	1kV 27 steps	1kV 27 steps	1kV 27 steps	1kV 27 steps
Radiographic mA and mAs range:					
	mA in	10-500 mA 18 steps	10-650 mA 19 steps	10-800 mA 20 steps	10-800 mA 20 steps
	ms in	1-6300 ms 38 steps	1-6300 ms 38 steps	1-6300 ms 38 steps	1-6300 ms 38 steps
	mAs in	0.5-600 mAs 32 steps	0.5-600 mAs 32 steps	0.5-600 mAs 32 steps	0.5-600 mAs 32 steps
	mAs (optional) in	0.5-1000 mAs 34 steps	0.5-1000 mAs 34 steps	0.5-1000 mAs 34 steps	0.5-1000 mAs 34 steps
Serial exposure (by external trigger)		50 pulses per second	50 pulses per second	50 pulses per second	50 pulses per second
Output Frequency		100kHz	100kHz	100kHz	100kHz
Fluoroscopic kV range:		40-125 kV	40-125 kV	40-125 kV	40-125 kV
Fluoroscopy mA range:		0.5-5.0 mA	0.5-5.0 mA	0.5-5.0 mA	0.5-5.0 mA
High level fluoro		1-20 mA	1-20 mA	1-20 mA	1-20 mA
Pulsed fluoro ¹		10-150 mA	10-150 mA	10-150 mA	10-150 mA
Max. imaging rate (pulse per sec.) ¹ (Fluoroscopy only available in standard cabinet)		50	50	50	50
Automatic dose regulation ¹		Yes	Yes	Yes	Yes
Dose area product measure systems		Optional	Optional	Optional	Optional
Automatic exposure control ²			·	Optional	·
·		Optional	Optional		Optional
Control Interface		RS-232	RS-232	RS-232	RS-232
Line voltage Optional autotransformer for AC inputs; 208, 440, 480 Vac. Consult factory for details		400-420Vac, 50/60Hz Three Phase + neutral			
Automatic exposure control chamber ²		Optional	Optional	Optional	Optional
Anatomic programming ³		Yes	Yes	Yes	Yes
DR Digital interface ⁴		Yes	Yes	Yes	Yes
External hand switch included		Yes	Yes	Yes	Yes
Regulatory approvals		DIN EN ISO 13485			

Only available in standard cabinet
 Digital or Analog Interface
 Regular 100, Optional 1000
 Consult factory DR Interface Information

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