

# ***RF-SERIES***

## HIGH FREQUENCY X-RAY GENERATOR

The RF Series X-ray generators are the standard for a wide range of radiography and fluoroscopy systems. The modular design of the RF family incorporates high versatility and excellent adaptation to all requirements of radiography and fluoroscopy applications. The generators for standard X-ray tube assemblies are available with a nominal power from 30 kW to 80 kW. The generator can be controlled via several interfaces (Ethernet, Can, RS 422, Parallel). The integrated processor system provides excellent accuracy and reproducibility of the radiographic data by performing all control and regulating functions.

### Key Highlights

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High Frequency Technology

Fast Regulation of High Voltage and Tube Current

Highly Accurate Radiographic Parameters

Digital Display of All Selected Data

Short Exposure Times

Optional Energy Storage Unit (ESU)

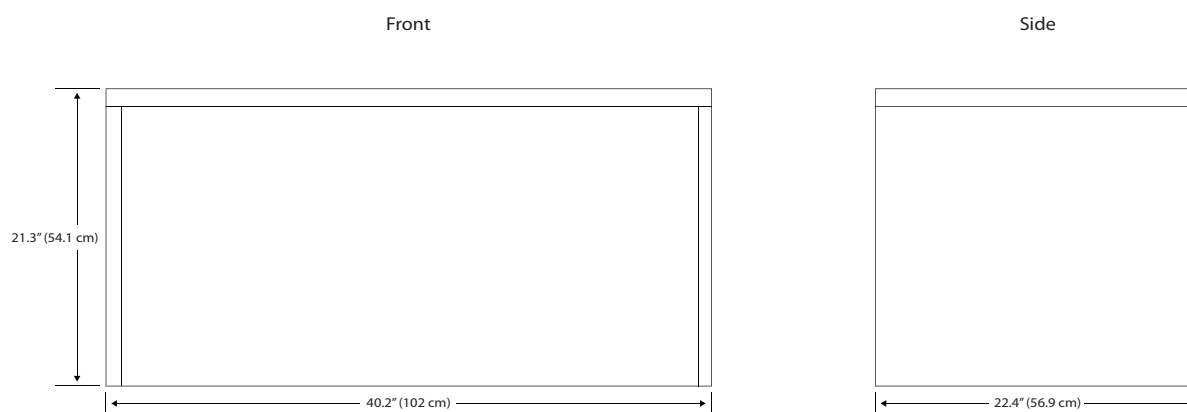


# Technical Specifications

\* All specifications subject to change without notice

		Polydoros RF 80				Polydoros RF ESU	
		30 kW	55 kW	65 kW	80 kW	30 kW ESU	55 kW ESU
Power rating	60 kV 100 kV 125 kV 150 kV	1 mA to 500 mA 1 mA to 300 mA 1 mA to 241 mA 1 mA to 200 mA	1 mA to 640 mA 1 mA to 550 mA 1 mA to 443 mA 1 mA to 366 mA	1 mA to 1000 mA 1 mA to 650 mA 1 mA to 524 mA 1 mA to 433 mA	1 mA to 1000 mA 1 mA to 800 mA 1 mA to 645 mA 1 mA to 533 mA	1 mA to 500 mA 1 mA to 300 mA 1 mA to 240 mA 1 mA to 173 mA	1 mA to 640 mA 1 mA to 550 mA 1 mA to 324 mA 1 mA to 173 mA
Exposure voltage		From 40 kV to 150 kV					
Fluoroscopy values continuous*		0.2 mA to 25 mA (40 kV), 0.2 mA to 9.09 mA (110 kV), 680 W continuously, 40 kV to 110 kV				0.2 mA to 11.3 mA, 390 W continuously, 40 kV to 90 kV	
Fluoroscopy values pulsed*		1 mA to 85 mA, 1000 W average, 40 kV to 110 kV, up to 30 frames/sec				1 mA to 85 mA, 450 W average, 40 kV to 110 kV, up to 30 frames/sec	
Automatic exposure control*		0-point technique with DR Mode 1-point technique with continuously falling load 2-point technique with constant load 3-point technique with constant load either mAs or mA (only with Touch Control Console)					
Tomography*		5 fixed time values					
Maximum mAs		From 0.5 to 800 mAs graduated either in 33 fixed values of one or in 65 values of 1/2 exposure point				From 0.5 to 500 mAs graduated either in 33 fixed values of one or in 65 values of 1/2 exposure point	
Max. mAs	60 kV 100 kV 125 kV 150 kV	800 mAs 560 mAs 444 mAs 373 mAs				500 mAs 300 mAs 250 mAs 200 mAs	
Exposure time		1-point technique: 1ms to 5s with mAs-post-indication 2-point technique: 1ms to 5s depending on mAs and kV 3-point technique: 20ms to 5s depending on mAs and kV					
Tolerances		kV accuracy: ± 5%; mAs accuracy: ± 10% + 0.2 mAs, according to IEC60601-2-7 / IEC60601-2-54					
Power line connection		380 V +15% -10%, 50/60 Hz ± 3 Hz, 3-phase, PE, 400 V +10% -15%, 50/60 Hz ± 3 Hz, 3-phase, PE, 440 V/480 V ± 10%, 50/60 Hz ± 3Hz, 3-phase, PE with optional line matching transformer				220 V/230 V, (Tolerance 200 V – 253 V), 50/60 Hz ± 3 Hz, 1-phase, N, PE, 240 V, (Tolerance 216 V – 264 V), 50/60 Hz ± 3 Hz, 2-phase, PE	
Line impedance		According to IEC60601-2-7 / IEC60601-2-54				≤ 2 Ohm	
Dimensions		40.2" (102 cm) (l) x 22.4" (56.9 cm) (w) x 21.3" (54.1 cm) (h)					

\* Option



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#9000-RF 02.19