

STATIONARY X-RAY SYSTEMS



1.1 450KV components

C X-RAY SYSTEM

Our unipolar and bipolar systems work with a power up to 4.5 kW, due to high reproducibility and high dose rate the System can be used for X-ray film technique and fluoroscopy as well as for tomography and dosimetry applications. In view of the wide voltage range up to 450 KV extends the application field of the study of light metals thin and low density materials to thick-walled high-density materials such as 115 mm iron.



1.2 X-ray generators 450KV

C CONTROLLER MP 1

The MP1 controller is a microprocessor- based controller designed for use with CTS-high voltage generators. In the MP1 controller can programmed exposure times and a choice of over 110 X-ray tubes are factory programmed. These can be selected by the input field. A large, bright LED display gives a clear indication of kV, mA, time and system Status of the plant in both light and dark ambient environments.



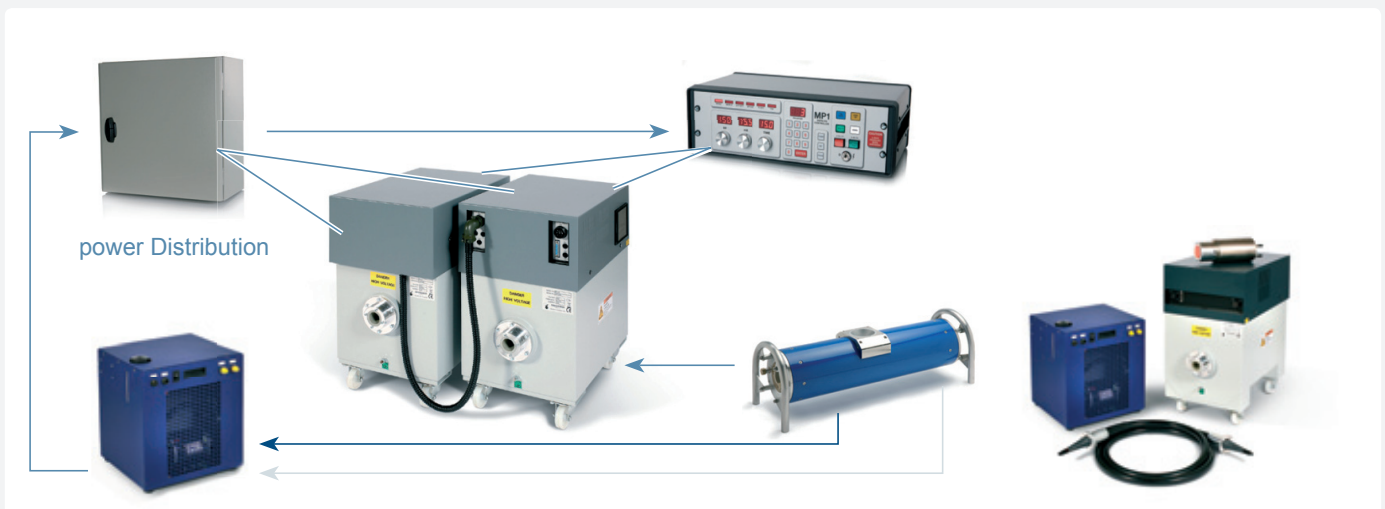
1.3 Controlunit

TECHNICAL SPECIFICATION

	CTS (100 kV – 225 kV)	CTS (320 kV – 450 kV)
Max. Power	3200 W	4200/4500 W
kV Range	10–225 kV	20–450 kV
mA Range	0–75 (100 kV)/0–30 (225 kV)	0–30/0–20
mA Reproducibility	Better than 2µA	Better than 2µA
Drive Frequency	25 KHz	25 KHz
Rise Time (per second)	20 kV/per second	40 kV (4,5 KW)
Input Voltage	220 V ± 10 % 47–63 Hz	220 V ± 10 % 47–63 Hz
Input Current	27A at 220 V	27A at 220 V
Dimensions Cathode mm (WxHxD)	435x729x667 / 435x780x818	406x72x667 / 435x780x813
Dimensions Anode mm (WxHxD)		435x729x638 / 528x780x818
Weight (kg)	220/240	380 combined/430 combined
Storage Temperature	-40 °C to +70 °C	-40 °C to +70 °C
Operational Temperature	0 °C to 40 °C	0 °C to 40 °C
Relative Humidity	95 %	95 %
Duty Cycle	100 %	100 %

FEATURES & BENEFITS

- » Warm-up, error and operator activity logging allows for efficient system diagnosis.
- » kV and mA waveforms prior to an error occurrence are stored graphically in the log to aid system fault diagnosis.
- » Optimal tube conditioning via fully automated warm-up routines safeguard operation and maximise tube lifespan.
- » Special start options for dose control systems.



1.4 System structure of a 450kV system and components of a 160kV system