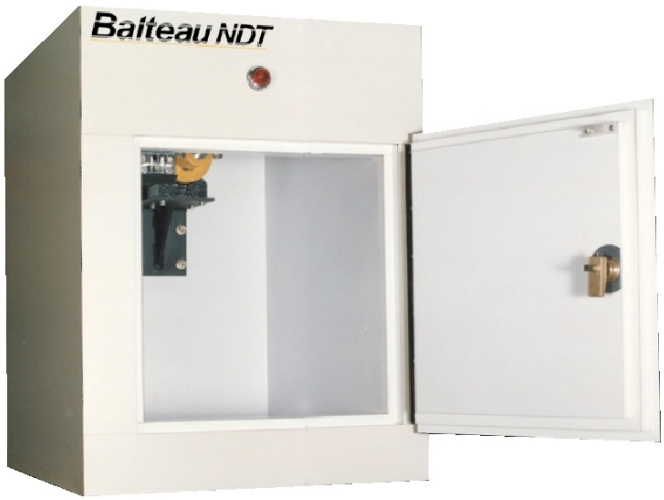
X-ray irradiation system

This small cabinet is designed mainly to be used in laboratories. Its main purpose is for irradiation of small samples. It is usually delivered with a 100 kV tube but higher energies are available.

This cabinet is made of steel structure covered with leaded panels and is equipped with a heavy duty door providing a very strong behaviour.

This enclosure complies with the most severe international regulations on radiation hazards, including NFC 74100 and DIN 54113. The X-ray leakage is reduced to 0,5 µSv/h @ 10 cm from the surface for the proposed X-ray source (public persons).



Specifications

Shielded cabinet		
Approximate external size: § Length § Depth § Height	 mm mm mm	 600 600 750
Manual front loading door aperture	mm	500 x 500
Unloaded weight	kg	300+100 (approx.)

Electrical		
Power supply	V	110/220 - 240
Frequency	Hz	50/60

X-ray generator XSD 160
160 kV very powerful constant potential X-ray generator. DC voltage continuously adjustable from 10 to 100 kV. Standard HV connector.

Directional X-ray tubehead TSD 100/0	
Metal ceramic X-ray tube	
Spot size (IEC336)	0,6 x 0,6
Nominal (at max 100 kV) mA	6
Beam angle	40°

Directional X-ray tubehead TSD 100/1	
Metal ceramic X-ray tube	
Spot size (IEC336)	1,5 x 1,5
Nominal (at max 100 kV) mA	10
Beam angle	40°

LS1 control unit
Microprocessor based
Internal memory
Large colour screen
Intelligent and users-friendly software

Cables and pipes		
Power and supply cable	m	10
Control, power and security interconnection cables	m	20
100 kV HV cable + earthing cable	m	5
Water pipes	m	5

Misc.
Support for the X-ray tube
Security switch on the door
Labyrinth for cables
Flashing red light during exposure

Producer

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