

DIRECTIONAL UNITS

SITEX & SITEXS



PORTABLE X-RAY GENERATOR

Increase the reliability of on-site X-ray techniques while decreasing their costs

OUR CHALLENGE...

« To increase the reliability of on-site X-ray techniques while decreasing their costs »

To successfully meet this challenge, ICM's engineers have worked at improving upon what we consider to be largely tried and tested

general reliability and the need to X-ray tube.

reliability of the SITEX and SITEXS generators, we are confident that you their outstanding performance levels. These performance levels will enable favorable overall operating costs available to the market.



A SIMPLE & EFFECTIVE PRINCIPLE

All SITEX and SITEXS units contain a rod anode. This is the focal spot that is outside the SF_s-insulated high-voltage generator. As maximum advantages are derived from this ideal configuration, for one and the same thickness, the volume of lead required for standard radiation protection is considerably reduced.

Consequently, the reduced weight that is achieved makes it possible for further investments to be made in the quality and general improvement of the level of performance (robustness, cooling, accessories etc).

We can confirm that SITEX and SITEXS are among the lightest portable X-ray generators available to the market.

MEASUREMENT & CONTROL

Representing another first in a portable, the SITEX and SITEXS have a facility to ensure the direct and true measurement of the high voltage. This essential information enables the control system to guarantee the stability and reproducibility of the radiological parameters based on true high-voltage values rather than merely estimating an HV value based on dose output.

PERFORMANCE

A high-efficiency heat exchanger has been developed in collaboration with the Institute of Thermo-mechanics at the University of Liege. This results in the possibility of a 100% working cycle under completely safe conditions, whilst simultaneously reducing the anode temperature by 50%.

DETAILS THAT SIMPLY IMPROVE EVERYTHING

The SITEX directional generators are equipped with an internal 'carousel'. This contains a lead cap and 4 diaphragms that are calibrated for the films that are used the most. Ensuring protection from accidental on-site losses and weighing in total a mere 1.0 kg, this very practical device replaces approximately 20 kg of fragile and space-consuming accessories. The carousel fitted on the SITEXS provides the same features and is equipped with a laser pointer. To ensure ease of handling, direct access has been arranged on the moving part.

SITEXS, THE 'EXTRA-SMALL'...

These 'XS' X-ray generators are in fact reduced versions of the corresponding SITEX units available in 200, 225 and 250 kV versions and provide considerably more compactness.



SITEX & SITEXS directional technical specifications :

Total weight without guard rings	Overall dimensions	Microcontroller HT measurement circuit (kV and mA)	Max. leakage dose at 1m according to DIN at full output	Number of telescopic centring device (FFD=700mm)	Position of interconnection socket	Guard rings	(FFD=700mm/Film D7pb/D=1.5/T=20 min)	Penetration into steel at max power	Weatherproof level	Cooling fan supply voltage	SF6 insulation pressure at 20°C	Storage temperature range	Operating temperature range	Working cycle at 40°C ambient temp.	Carrousel of internal diaphragms with lead cap	Inherent filtration	Dimension of optical focal spot	Maximum useful angle of X-ray beam	Radiation geometry	Tube current selection step	Tube current range at full output	Tube current range	Output voltage selection step	Output voltage range	SITEX&XS DIRECTIONAL
kg	mm		mSv/h	,	choice			mm Fe	•	VDC	kg/cm²	°C	°C	%	٠	mm	mm	(°)	,	mA	mA	mA	₹	Ŕ	UNITS
9.5	Ø250 x 573	yes	2.5	,	Radial	yes		24	IP65	24	5.0	-40 to +80	-25 to +70	50*	no	Equiv. 3.5 (Al)	0.8 × 0.8	60 × 40	Directional	0.1	2	1 to 3	1	60 to 180	D1802
28	Ø346 x 771	yes	2.5	- 1	Axial/Radial	yes		41	IP65	24	5.0	-40 to +80	-25 to +70	100	yes (4+1)	2.5 (Al) + 0.4 (Ni)	2.5 × 2.5	60 x 40	Directional	0.1	8	1 to 8	1	70 to 200	D2008
28	Ø346 x 771	yes	10	1	Axial/Radial	yes		49	IP65	24	5.0	-40 to +80	-25 to +70	100	yes (4 + 1)	2.5 (Al) + 0.4 (Ni)	2.5 x 2.5	60 × 40	Directional	0.1	œ	1 to 8	1	70 to 225	D2258
28	Ø346 x 771	yes	10	1	Axial/Radial	yes		54	IP65	24	5.0	-40 to +80	-25 to +70	100	yes (4 + 1)	2.5 (Al) + 0.	2.5 × 2.5	60×40	Directional	0.1	6	1 to 6	1	70 to 250	D2506
31	Ø346 x 831	yes	10	٦	Axial/Radial	yes		70	IP65	24	5.0	-40 to +80	-25 to +70	100	yes (4 + 1)	4 (Ni) 2.5 (Al) + 0.4 (Ni)	2.5 x 2.5	60 × 40	Directional	0.1	6	1 to 6	1	90 to 300	D3006
31	Ø346 x 831	yes	10	٦	Axial/Radial	yes		76	IP65	24	5.0	-40 to +80	-25 to +70	100	yes (4 + 1)	2.5 (Al) + 0.4 (Ni)	2.5 x 2.5	60 x 40	Directional	0.1	6	1to6	٦	90 to 320	D3206
46	Ø400 x 930	yes	10	٦	Axial/Radial	yes		82	IP65	24	5.0	-40 to +80	-25 to +70	60	yes (4 + 1)	2.5 (Al) + 0.4 (Ni)	2.6 × 2.6	60 x 40	Directional	0.1	U	1 to 5	1	120 to 360	D3605
19	Ø305 x 718	yes	2.5	1 (laser)	Axial/Radial	yes		37	IP65	24	5.0	-40 to +80	-25 to +70	100	yes	0.4 (Ni)	2.5 × 2.5	60 x 40	Directional	0.1	4	1 to 4	1	70 to 200	XS-D2004
19	Ø305 x 718	yes	10	1 (laser)	Axial/Radial	yes		44	IP65	24	5.0	-40 to +80	-25 to +70	100	yes	0.4 (Ni)	2.5×2.5	60 × 40	Directional	0.1	4	1 to 4	1	70 to 225	XS-D2254
19	Ø305 x 718	yes	10	1 (laser)	Axial/Radial	yes		51	IP65	24	5.0	-40 to +80	-25 to +70	100	yes	0.4 (Ni)	2.5 × 2.5	60 x 40	Directional	0.1	4	1 to 4	1	70 to 250	XS-D2504

^{*:} Maximum continuous exposure time: 5 min.

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