

Y.XPO 225 Portable Constant Potential X-Ray System



The Y.XPO 225 portable X-ray system is a compact, low weight, high power constant potential X-ray system. Using newest technology like e.g. glass fibre reinforced plastic well known from the space industry for the tank unit, the Y.XPO is extremely well designed for rough in-field inspection, but can equally well be used for applications in exposure rooms and in real-time systems.

A significant increase in power compared to conventional portable X-ray equipment leads to reduced exposure time and thus to reduced costs. At the same time, the high frequency technology features a highly stable X-ray emission.

Y.XPO 225 combines power and speed with ease of use. The control unit is menu driven. A calculator for exposure times has been integrated, and exposure diagrams can be displayed. An integrated laser pointer in the tube head assures accurate alignment.

YXLON. The reason why.

- cost reduction through short exposure time
- designed for rough field inspection
- easy handling through low weight
- intuitive menu-driven control

High voltage

- Adjustment range	25 - 225 kV
- Adjustment increments	1 kV / step
- Accuracy	± 1%

Tube current

- Adjustment range	0.5 - 10 mA
- Adjustment increments	0.1 mA/step
- Accuracy	± 1%

Max. power

1,200 W

Focal spot size

- Acc. EN12543	3.0 mm
- Acc. IEC 336	1.5

Beam angle

40° x 60°

Inherent filtration

0.8 mm ± 0.1 mm Be

Additional filters

4 mm Al

Duty cycle at P_{1000W}

100% up to 30 °C

at P_{max}

30 minutes on up to 30 °C

Operating temperature

-20 °C to +50 °C

Anode cooling

air

Penetration (10 min.)

50 mm Fe

(Film C5, density 2.0,
Pb 0.02 mm, FFD=700 mm)

Leakage radiation

max. 5 mSv/h

Main supply (single phase)

- Voltage	165 to 260 VAC and 85 to 130 VAC
- Current	max. 16 A
- Frequency	50/60 Hz; 400 Hz

Protectionclass

IP65

Operation

Constant potential with Isowatt-feature – Fully automated monitoring of power limits and tube head specifications

Exposure timer

1 second steps up to 59 minutes and 59 seconds

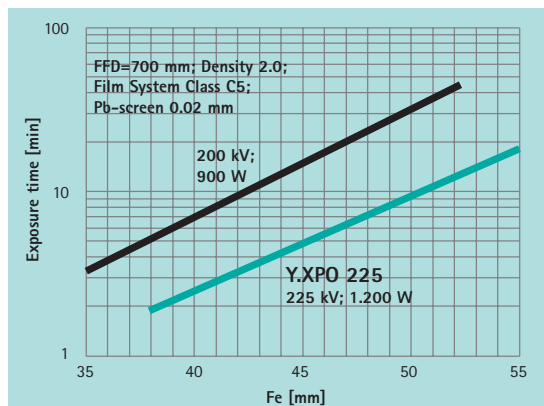
Order no.

9421 615 53000

Y.XPO 225-D02 Tube head

Dimensions incl. hand rings 808 mm x 295 mm
(Length x Diameter)

Weight incl. hand rings 28 kg



Comparison of exposure data:

Y.XPO 225 to conventional 200 kV portable unit with 900 W

Y.XPO C01 Control unit

Dimensions

(W x H x D)

380 mm x 165 mm x

320 mm

Weight

11 kg

Operating features

- Constant potential with Isowatt-feature – Fully automated monitoring of power limits and tube head specifications
- Automatic tube head identification and calculation of optimal warm up cycle
- Menu-driven in English, German, French, Spanish, Danish
- Programs for X-ray parameters
- Excellent display clarity due to LCD-display with white back light
- Display of exposure diagrams
- Exposure time calculator
- Integrated laser pointer for precise aligning
- RS232 Standard interface for fully automatic systems remote control by PC
- Safety interlocks for external devices
- Temperature control prevents overheating

Accessories

- Tube stands
- Flight cases
- Lead diaphragms
- Safety connector box
- External warning lamps
- Mobile AC generator
- Further accessories on request