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
- automated exposure time calculation
- easy handling through low weight
- intuitive menu-driven control

YXLON. The reason why
**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 P₁₀₀₀₀**
at P₁₀₀₀₀:
100% up to 30 °C
30 minutes on up to 30 °C

**Operating temperature**
–20 °C to +50 °C

**Anode cooling**
air

**Penetration (10 min.)**
Film C5, density 2.0, Pb 0.02 mm, FFD=700 mm
50 mm Fe

**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

**Protection class**
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

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**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
- 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