

ERESCO 52 MF4-CL

Portable X-ray Unit, Panoramic Tube Head 300 kV, air cooled

The ERESKO 52 MF4-CL is a 300 kV constant potential portable X-ray tube head using state of the art switching technology with high radiation output allowing shortest exposure times thereby increasing productivity.

GE Sensing & Inspection Technologies uses the number 52 to identify the superior penetration performance of its portable X-ray unit line. This means the ERESKO 52

MF4-CL is capable of penetrating 52 mm (2.01") Fe with a 2.0 density after a ten-minute exposure using AGFA STRUCTURIX D7 film @ 700 mm (27.5") FFD.

The X-ray tube head consists of a sturdy metal-ceramic X-ray tube and high voltage generator integrated into a rugged compact housing. The air-cooled 300 KV/600 W end-grounded X-ray tube is thermally protected for extended life.

The high voltage generator generates high-stability constant potential voltage at higher efficiency than conventional line frequency equipment.

The performance of the X-ray tube and the high voltage generator is continuously monitored for protection and operational safety. An on-board real time clock facilitates fully automatic warm-up routines for optimized and time-saving tube conditioning. The flexible connecting cable is heavy-duty and light weight.

Additional Features

- Rugged construction with proven reliability
- Gas insulated high voltage section reduces size & weight
- End-grounded, metal-ceramic X-ray tube
- DC voltage operation
- Modern power electronics provides high stability
- On-board real time clock supports fully automatic warm-up
- Extended operating range from 5 kV to 300 kV enables flexible use
- Large 38° x 360° emergent beam
- Optimized air-flow cooling for efficient heat dissipation
- 100% duty cycle at 30° Celsius (86° F)
- Built-in fail-safe warning lamp
- CE certification according to EMC and Low Voltage Directives
- Water / dust resistant in accordance with protection class IP65
- Produced under ISO 9001 certified quality management system

Standard Delivery Scope

See product info "ERESCO MF4 Control"



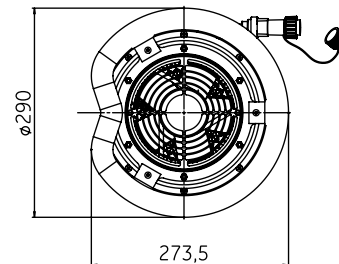
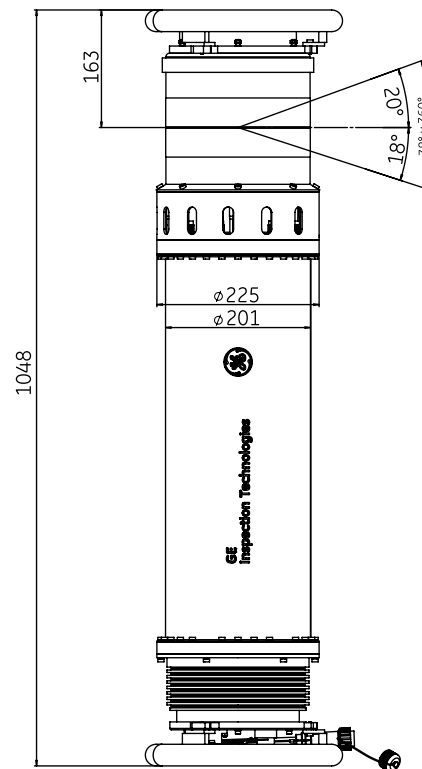
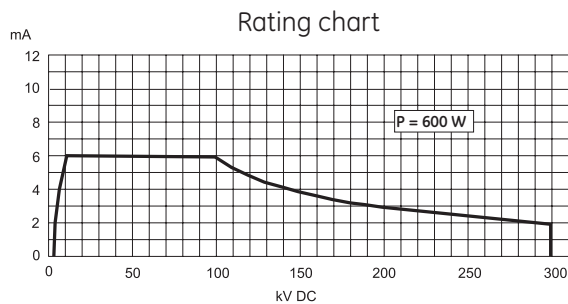
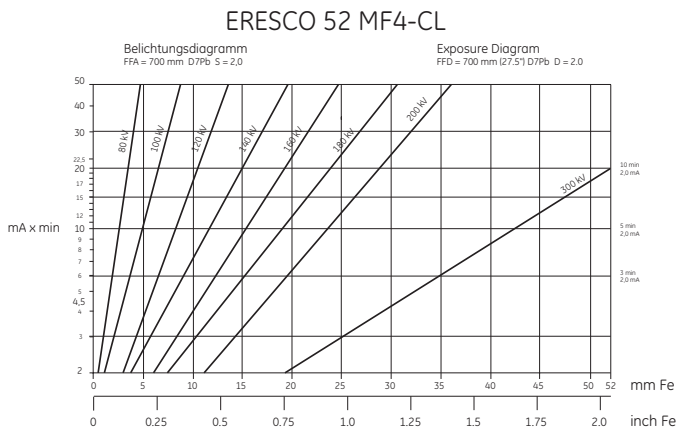
GE imagination at work

Technical Data

X-ray tube type	300 kV metal-ceramic with Tungsten (W) cone anode
kV range	5 - 300 kV (acc. to rating chart)
Target angle	22°
Inherent filtration	0.4 mm Fe/Ni/Co + 3 mm Al
Emergent beam	38° x 360°
Focal spot size (EN 12 543)	0.5 x 5.5 mm
Tube current	0.5 - 6 mA (2.0 mA /300 kV)
Anode temperature, max.	100°C
Current and voltage stability	± 1%
Continuous rating	600 W
Duty cycle ($\delta_{amb} = 30^\circ \text{C}$)	100 %
Power input, max.	1.4 kVA
Weight	36 kg (79.34 lbs)
Protection class	IP65
Tube head diameter	225 mm (7.87") (without rings)
Operating Temperature	-20°C to +50°C
Storage Temperature	-30°C to +80°C

Options

- Carrying cradle
- Diaphragm / collimator attachments
- Laser centering device
- Telescope centering device
- Transport and positioning cart
- Fail-safe flashing warning lamp
- Stands and mounting kits
- Aluminium transport box
- Crawler Integration Kit



drawings not true to scale



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