

# ERESCO 65 MF4-W

## Portable X-ray Unit 300 kV Directional Radiating Tube Head, water-cooled

The ERESKO 65 MF4-W 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 65 to identify the superior penetration performance of its

portable X-ray unit line. This means the ERESKO 65 MF4-W is capable of penetrating 65 mm (2.56") 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 water-cooled 300 KV/ 900 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, Be-window, 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 40° x 60° emergent beam
- Additional water-cooling for environments with limited heat-dissipation capabilities
- 100% duty cycle at 30° Celsius (86° F)
- Built-in fail-safe warning lamp
- CE certification according to EMC and Low Voltage Directives
- French Standard NFC 74 100 compliant
- 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"



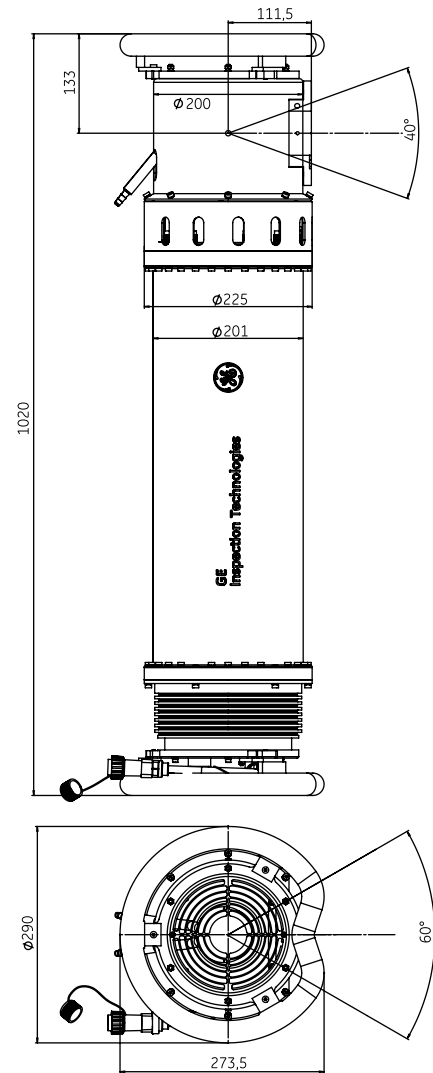
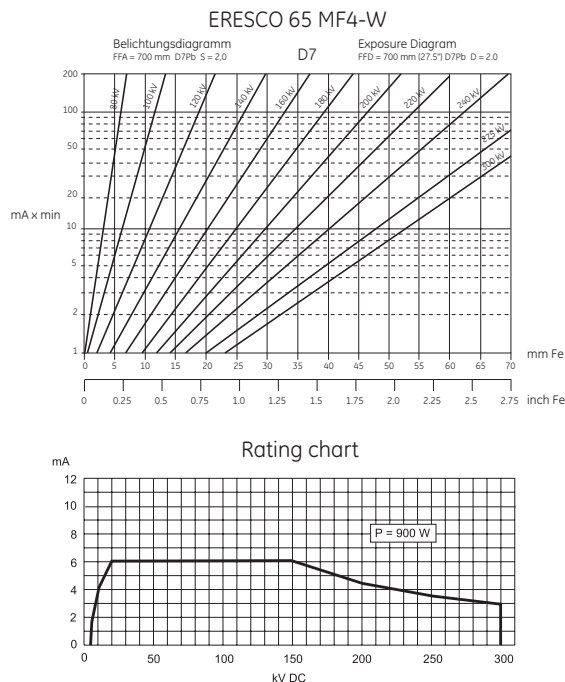
GE imagination at work

# Technical Data

X-ray tube type	300 kV metal-ceramic with Tungsten (W) anode
kV range	5 - 300 kV (acc. to rating chart)
Target angle	20°
Inherent filtration	0.8 mm ± 0.1 mm, Be
Emergent beam	40° × 60°, elliptical
Focal spot size (EN 12 543)	3.0 mm (~1.5 IEC 336)
Tube current	0.5 - 6 mA (3.0 mA /300 kV)
Anode temperature, max.	100 °C
Current and voltage stability	± 1%
Continuous rating	900 W
Duty cycle ( $\delta_{amb} = 30^\circ \text{C}$ )	100 % (up to 60 min continuous operation)
Power input, max.	2.0 kVA
Weight	40 kg (88.2 lbs) 37.5 kg (82.7 lbs) (without rings)
Tube head diameter	290 mm (11.42") 225 mm (7.87") (without rings)
Protection class	IP65
Min. cooling water flow rate	2.5 l/min
Max. cooling water pressure	10 bar
Cooling water specification	Drinking water
Connector for water hoses	diameter 11 mm (7/16")
Water filter necessary	No
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



drawings not true to scale



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GEIT-30187EN (12/08)

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