

ERESCO 280 MF4-R

Portable X-ray Unit 280 kV Directional Radiating Tube Head, air cooled

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 280 kV/340 W end-grounded X-ray tube is thermally protected for extended life.

The high voltage generator produces high-stability direct voltage at higher efficiency than conventional line frequency equipment.

The unit is designed for radioscopic applications respectively for applications with CR / Film where geometric enlargement is required.

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 10 kV to 280 kV enables flexible use
- Large 30° x 60° 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
- French Standard NFC 74 100 compliant
- Water / dust resistant in accordance with protection class IP65
- Produced under ISO 9001 certified quality management system
- Also available as water-cooled version ERESO 280 MF4-RW

Standard Delivery Scope

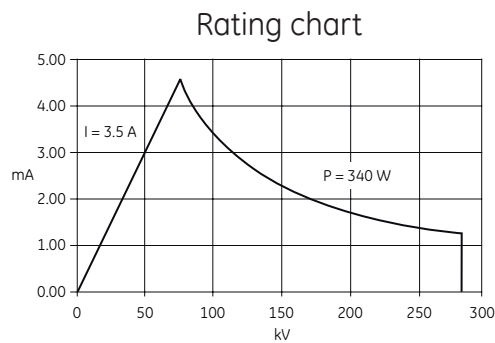
See product info "ERESCO MF4 Control"



GE imagination at work

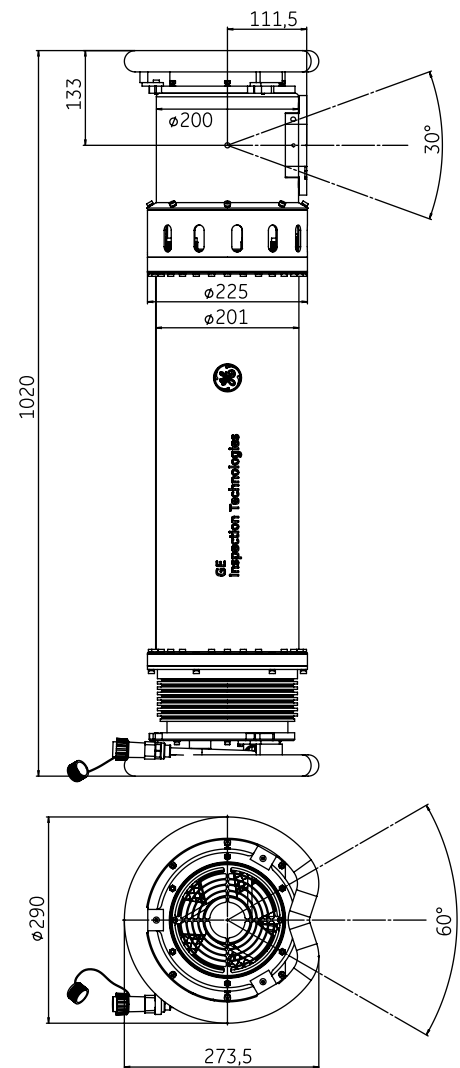
Technical Data

X-ray tube type	280 kV metal-ceramic with Tungsten (W) anode
kV range	10 - 280 kV (acc. to rating chart)
Target angle	15°
Inherent filtration	0.8 mm ± 0.1 mm, Be
Emergent beam	30° × 60°, elliptical
Focal spot size (EN 12 543)	0.5 mm
Tube current	0.5 - 4.5 mA (1.2 mA /280 kV)
Anode temperature, max.	100 °C
Current and voltage stability	± 1%
Continuous rating	340 W
Power input, max.	1.2 kVA
Weight	40.0 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
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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