MXR-320HP/11 FB-90



Product Description

The MXR-320HP/11 FB-90 is a bipolar oil-cooled X-Ray tube assembly with integrated radiation protection. It comprises dual focal spot, a high power tungsten anode and a fan beam. The tube is specifically designed for security applications.

Product Specifications

Nominal tube voltage	320 kV
Continuous rating (non-cyclic)	800 W 1800 W
Recommended cyclic rating ¹⁾	700 W 1500 W
Focal spot acc. EN 12543	d = 0.4 mm²)) d = 1.0 mm
Focal spot acc. ASTM E1165-12	N/A
Filament current, max.	4.1 A 4.2 A
Filament voltage, typical	2.3 V 6.2 V
Inherent filtration	
Target material	W
Target angle	
Radiation coverage	80° x 11°
Leakage radiation, max. at loading factors in 1m distance	5 mSv/h (320 kV; 5.6 mA)
Weight	40 kg
Terminal type	R24
Gapping spring-loaded HV-cable	
Gapping non-spring-loaded HV-cable	5.5 - 6 mm
Grease quantity for HV-cable terminal	1.2 ml

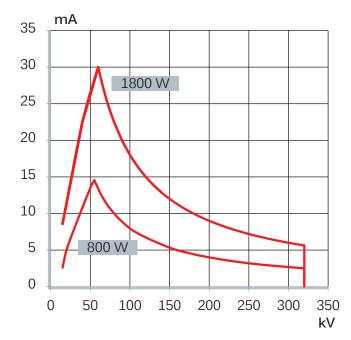
¹⁾ Definition of cyclic rating: **More than 15 ON/OFF cycles per day** or more than 3000 cycles per year.

²⁾ Deviation from EN 12543-2: evaluation of the focal spot based on 25% threshold

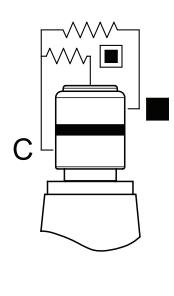


Power rating charts

Power rating at given filament current



Connection of filament (C = Common)

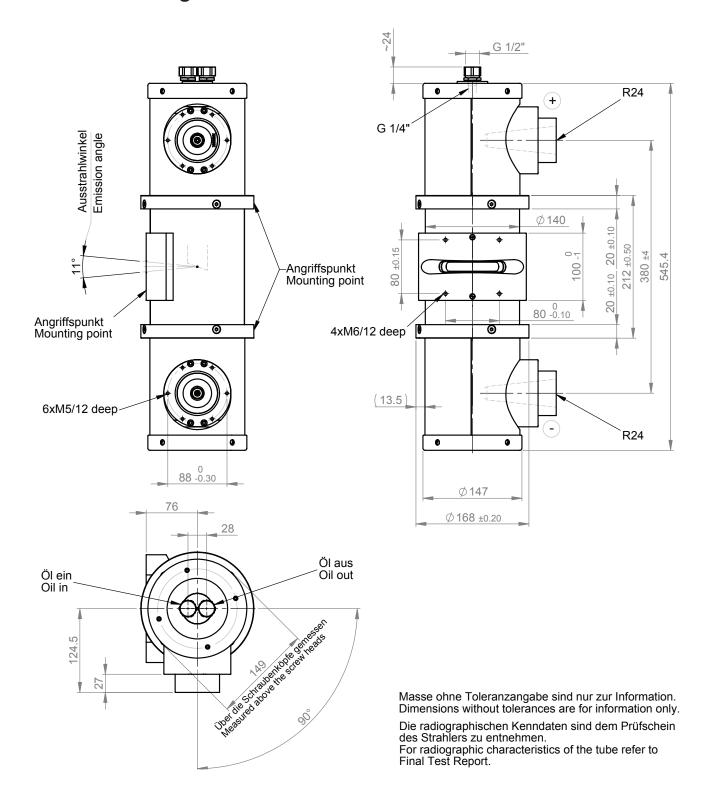


Cooling

Cooling medium	Oi
Cooling medium flow, min	14 l/mir
Cooling medium temperature at inlet, max	50°C
Pressure at cooling medium inlet, max	6 baı
Post-cooling time after switchoff, min	2 mir

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Outline drawing





General information

General

The control of the high voltage and the filament current as well as the design of the cooling system and the radiation protection are within the responsibility of the original equipment manufacturer (OEM). For detailed instructions refer to our "X-Ray Tube Manual". Provisions in the generator must assure that the X-Ray tube will be protected against overcurrent, overvoltage and lack of cooling. Otherwise the tube and/or the radiation protection may be damaged and become a hazard.

Cooling

The customer is in charge that the cooling circuit is properly connected to the cooling system. Prior to operating the tube, the coolant must be turned on. Make sure that the coolant flow meets the required cooling conditions. When the tube is switched off, the coolant flow must continue for at least 2 minutes in order to protect the anode and the lead protection from overheating.

Connection of the X-ray tube

High-voltage cables must be installed by trained personnel only. Please proceed with the installation as follows: Cleaning, gapping & greasing (see values page 1), assembly and maintaining. Detailed instructions can be found in our "X-RayTube Manual"

Radiation protection

When installing an X-ray tube assembly into a X-ray equipment and/or operating an X-ray equipment, the responsibility for radiation protection is with the user. Compliance with local regulatory requirements and limit values must be assured. After each tube exchange, repair, modification or upgrade of the unit a radiation protection integrity should be performed. Do not modify the tube assembly itself!

Return of Goods to COMET

Prior to shipment to COMET a Field Failure Report (FFR) will be required. The completed FFR has to be be added to the shipping documents. The FFR can be downloaded from: www.comet-xray.com/Service