

T1944 – Gulmay CP160 System w/Comet MXR160 Tube



Includes:

- Gulmay CP160 Cathode Generator
- Gulmay MP1 Type 2 Control
- Comet MXR160 X-Ray Tube
- 5M HT Cable with Clamps
- I/O box for integration into cabinet/vault
- 240VAC Single Phase Required

NO COOLER is Included!



X-ray Generators and Controllers

CP 160

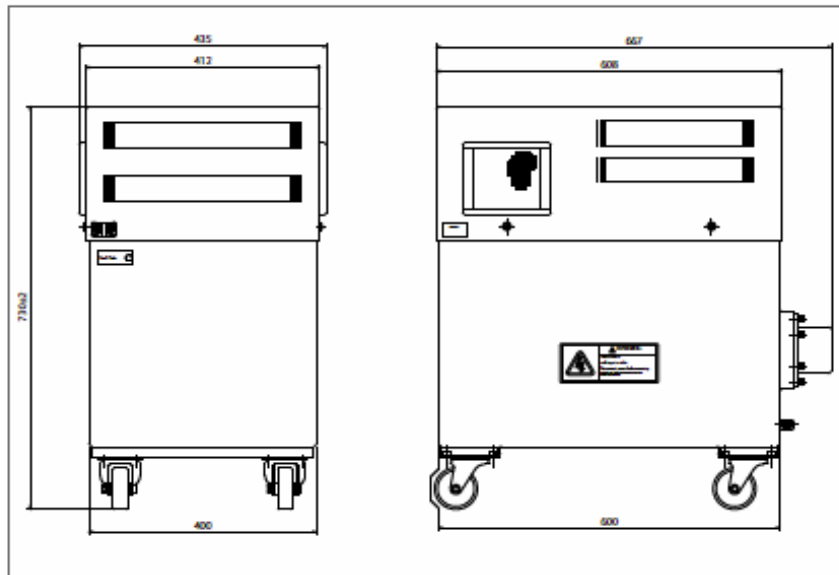
Technical Specification

kV Range	10 – 160	mA Range	0 – 30 within a 3000 W limit
Line Regulation	< 0.2% change for an Input change of +/- 10% In 2 Seconds	Load Regulation	< 0.2% change for a load change from 100uA to 30mA In 5 Seconds
Output Drift	0.1% over 8 Hours after Initial 30 Minute equalisation	Output Risetime	20kV per second.
Output accuracy	+/- 2.5%	Filament Supply	Up to 9V at 4.5A
Output Connector	R24	Environmental Conditions	10 to 35 Deg. C at up to 80% Humidity, non condensing
Input Voltage	220 V AC +/- 10% 47 – 63 Hz	Multiplier Frequency	25 KHz
Size mm (WxLxH)	435 x 667 x 729	Input Current	27A at 220V AC
		Weight (Kg)	220

General Information

The CP Series has continued to evolve over its product life and is available in the range of 100 to 450 kV with both unipolar and bipolar options. CP series generators are available in single or dual focus configurations. The CP series uses 25 kHz for EHT generation and the family of products offers low ripple and low drift.

- All units connect to the x-ray tube with industry standard rubber coned connectors designated R10, R24 or R30.
- All units are capable of operation with external and embedded controllers.
- Oil is used as an insulation medium together with epoxy encapsulated sub assemblies. No vacuum impregnation is required and local servicing is possible.



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THE DIFFERENCE IS IN
THE DESIGN

Specifications subject to change.

The Difference is in the Design



GULMAY

MP1 CONTROLLER

A MICROPROCESSOR BASED
UNIVERSAL CONTROLLER FOR
GULMAY GENERATORS



MULTIPLE MODES

The MP1 has 6 operating modes which are Warm Up, Radiographic, Fluoroscopic, Auto Watt, Manual and Remote Control via RS232.

600 STORED TECHNIQUES

200 inspection techniques in each Radiographic and Fluoroscopic and 100 in each of 2 others.

MULTI-TUBE OPERATION

Unipolar/Bipolar selection is automatic and other combinations can be set by internal switches.

RS232 INTERFACE

Monitoring is available at all times, control is available under a specific front panel programme setting.

EXPANDIBILITY

An uncommitted bus expansion connector and spare I/O port allow for a wide range of possible expansion options.

IN BUILT DIAGNOSTICS

A range of error messages and system status codes provide important diagnostic information regarding tube, cooler, interlock and generator performance. A wide range of features can be locally reconfigured.



The software and data are fully controlled by Gulmay and so any specification amendments to X-Ray tubes are readily incorporated.



MXR-160/22



Product Description

The MXR-160/22 is an unipolar water-cooled tube assembly with integrated radiation protection. It comprises dual focal spot, a tungsten anode and a directional beam. The tube is specifically designed for non-destructive imaging applications.

Product Specifications

Nominal tube voltage	160 kV
Continuous rating	640 W 3000 W
Focal spot acc. EN 12543.....	d = 1.0 mm d = 5.5 mm
Focal spot acc. ASTM E1165-12.....	N/A
Filament current, max.	4.1 A 4.2 A
Filament voltage, typical	3.0 V 5.5 V
Inherent filtration	0.8 ± 0.1 mm Be
Target material	W
Target angle.....	20°
Radiation coverage	40°
Leakage radiation, max. at loading factors in 1m distance	2.5 mSv/h (160 kV; 19 mA)
Weight.....	8 kg
Terminal type	R24
Gapping spring-loaded HV-cable.....	2 rings visible (~7 mm)
Gapping non-spring-loaded HV-cable.....	5.5 - 6 mm
Grease quantity for HV-cable terminal.....	1.2 ml

COMET

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