TECHNICAL DATA

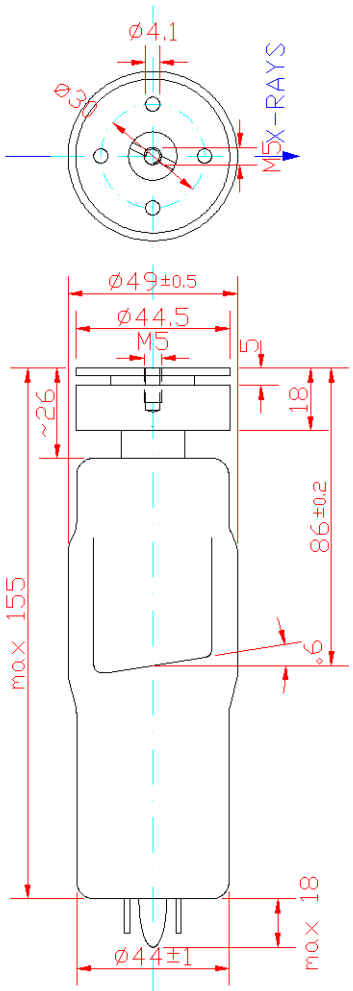
Voltage		
nominal	125	*kV*
maximum for test	140	
Inverse voltage		
nominal	125	*kV*
maximum for test	140	
Focal spot (IEC 60336:2005)	0.6	*mm*
Filament characteristics	3.0 ÷ 6.0	*V*
	3.0 ÷ 4.0	*A*
Filament frequency limit	20	*kHz*
Anode material	Tungsten	
Target angle	9	*°*
Anode heat storage capacity	60000	*J*
Maximum anode cooling rate	600	*W*
Nominal anode input power at 1.0 s (DC)	2020	*W*
Inherent filtration	0.5 mm Al (±0.05 at 75 kV)	
Maximum diameter	49	*mm*
Overall length	173	*mm*

WORKING CONDITIONS

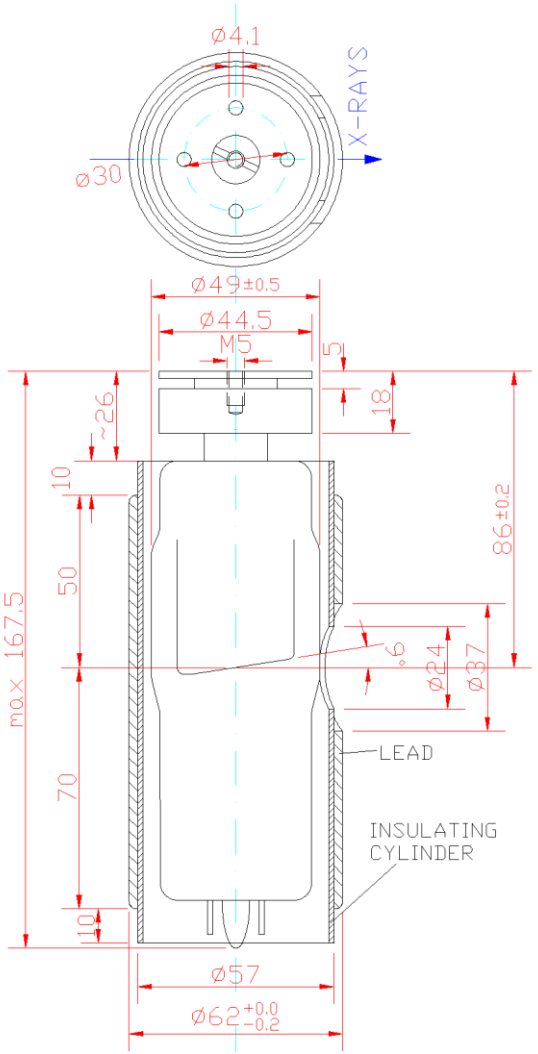
Approx Weight	660 g (1230 g with lead shield)
X-ray coverage	Ø285 mm at 1000 mm SID
Cooling method	Oil immersed (60°C max) convection cooling
Tube holding	Holding the screw of the anode shank, or holding the glass at anode and cathode side with insultaing material
Operating limits (dielectric oil)	
Oil temperature	15 ÷ 60 °C
Oil pressure	70 ÷ 140 kPa
Shipping and storage limits	
Temperature	-40 ÷ 70 °C
Humidity (no condensation)	10 ÷ 90 %
Atmospheric pressure	50 ÷ 110 kPa
Seasoning / Schedule	The tube needs seasoning if not used for 3 months or at the first usage. For conditioning procedure start at the lowest kV, at max 3 mA, esposures of 30 sec. Rise kV till maximum at step of maximum 10 kV. If arch happens restart from previous kV step.

DIMENSIONS

STANDARD



LEAD SHIELD



GENERAL INFORMATIONS

When mounting tube inserts adopt proper caution, in order to avoid glass bulb breaking and fragments projection. Please use protective gloves and glasses.
Tube insert connected to H.V. supply is a radiation source: be sure to take all necessary safety cautions

- Wash thoroughly with alcohol the external surface of tube insert (care of fire risk). Avoid contact of dirty surfaces with cleaned tube insert.
- Clamp system inside housing or self-contained units must not mechanically stress the tube.
- After installation, check the right working of the tube (no fluctuation of tube current nor crackling)
- Comply with insert thermal parameters, planning and programming the exposure parameters and cooling pauses. Housing or self-contained units must be provided with an adequate thermic protection.
- Voltages indicated in charts are valid for transformer supplied with ground center.
- Tube inserts contain environment polluting materials, particularly lead liner tubes. Please apply to qualified operator for waste disposal, according to local regulation requirements.

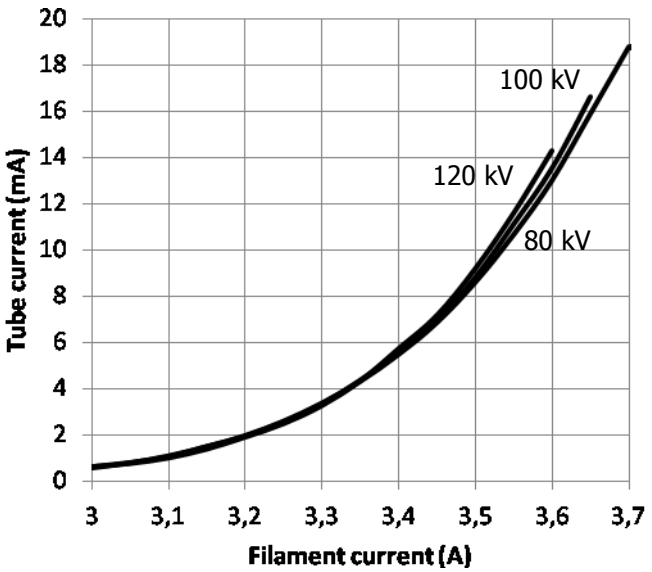
INCIDENT REPORT ACCORDING TO 93/42/EEC MEDICAL DEVICES DIRECTIVE

In order to comply with CE marking requirements, end users have to report to local Competent Authority all the informations about possible incidents involving the device, regarding any deterioration in its characteristics and performances, as well as any inaccuracies in this documentation, which might lead to or might have led to the death of patient / user or a deterioration in his state of health. This information must be promptly reported also to C.E.I. in order to start manufacturer reporting, as per above mentioned directive.

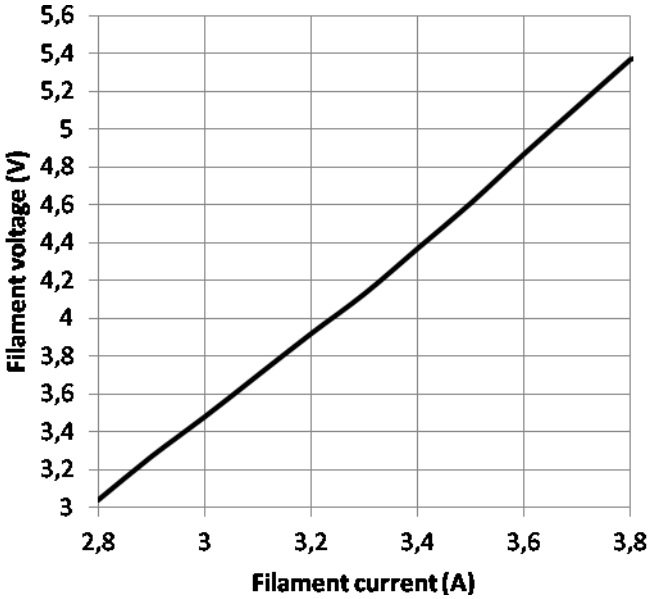
CE 0051

this mark assures device conformity to EC Directive 93/42 on Medical Devices Safety.

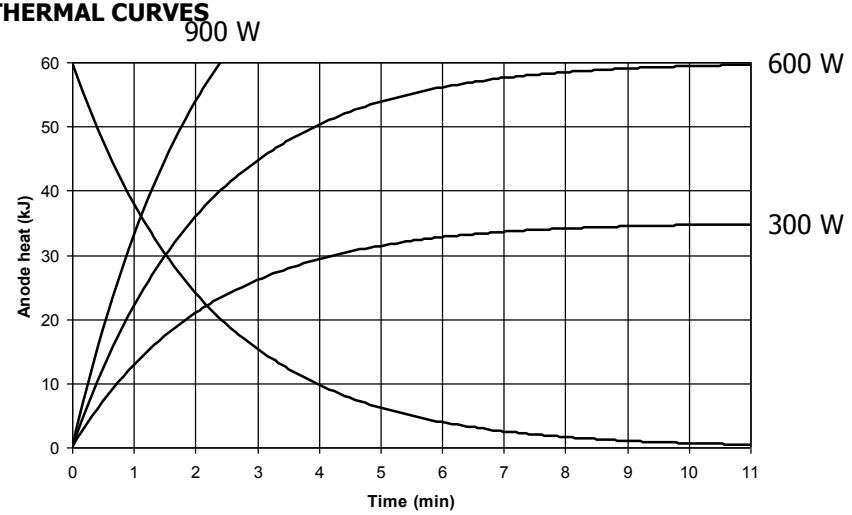
EMISSION CURVES DC



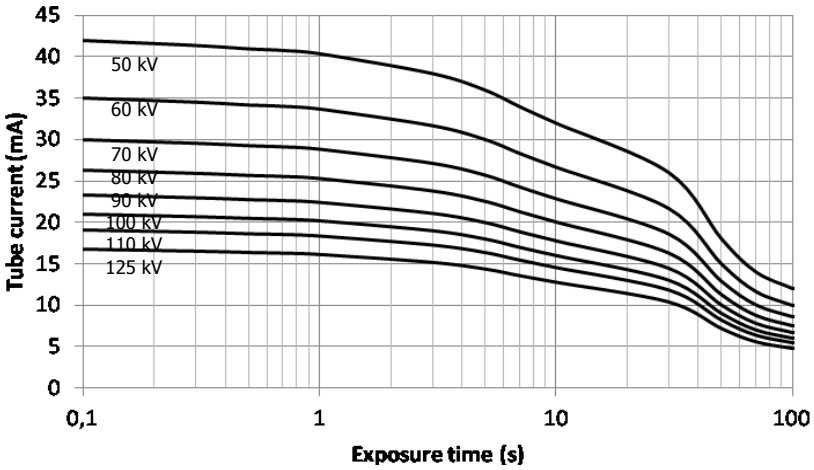
FILAMENT CHARACTERISTICS



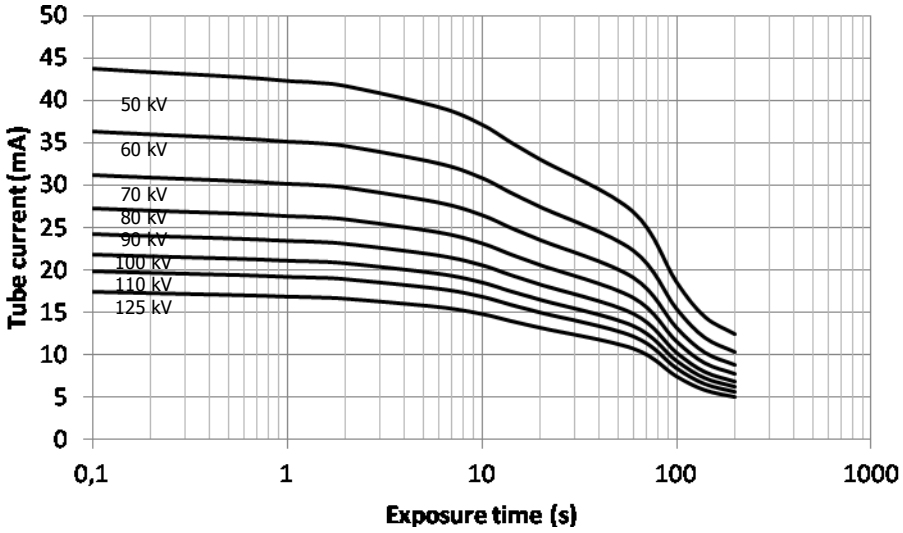
THERMAL CURVES



RATING CHARTS DC



RATING CHARTS DC 25 fps - 50% DUTY CYCLE



RATING CHARTS DC 12.5 fps - 50% DUTY CYCLE