

**WanSen X-RAY TUBE****XD10-1.2-100****Stationary Anode X-Ray Tube**

- ◆ Designed for DC applications with high input power
- ◆ This X-ray tube has a 1.2 focal point.  
The maximum tube voltage that can be used is 100kV.
- ◆ Mounted in the same housing as the high voltage transformer.
- ◆ WanSen product versions comply with IEC standards.





## Absolute maximum and minimum ratings

(At any time, these values must not be exceeded.)

Maximum Tube Voltage.....	100kV
Minimum Tube Voltage .....	80 kV
Maximum Tube Current .....	40mA
Maximum Filament Current	
Focus .....	3.0A
Filament Voltage (At maximum filament current)	
Focus .....	2.8± 0.3V
Thermal Characteristics:	
Anode Heat Storage Capacity .....	14KJ (19KHU)
Maximum Anode Heat Dissipation Rate .....	190W

## Environmental Limits

Operating Limits (in dielectric oil)

Oil Temperature .....	10 ~ 60 °C
Oil pressure .....	70 ~ 106 kPa

Shipping and Storage Limits:

Temperature .....	-40 ~ 70 °C
Humidity .....	10 ~ 90 %
	(No condensation)

Atmospheric Pressure .....

50 ~ 106 kPa

## Cautions

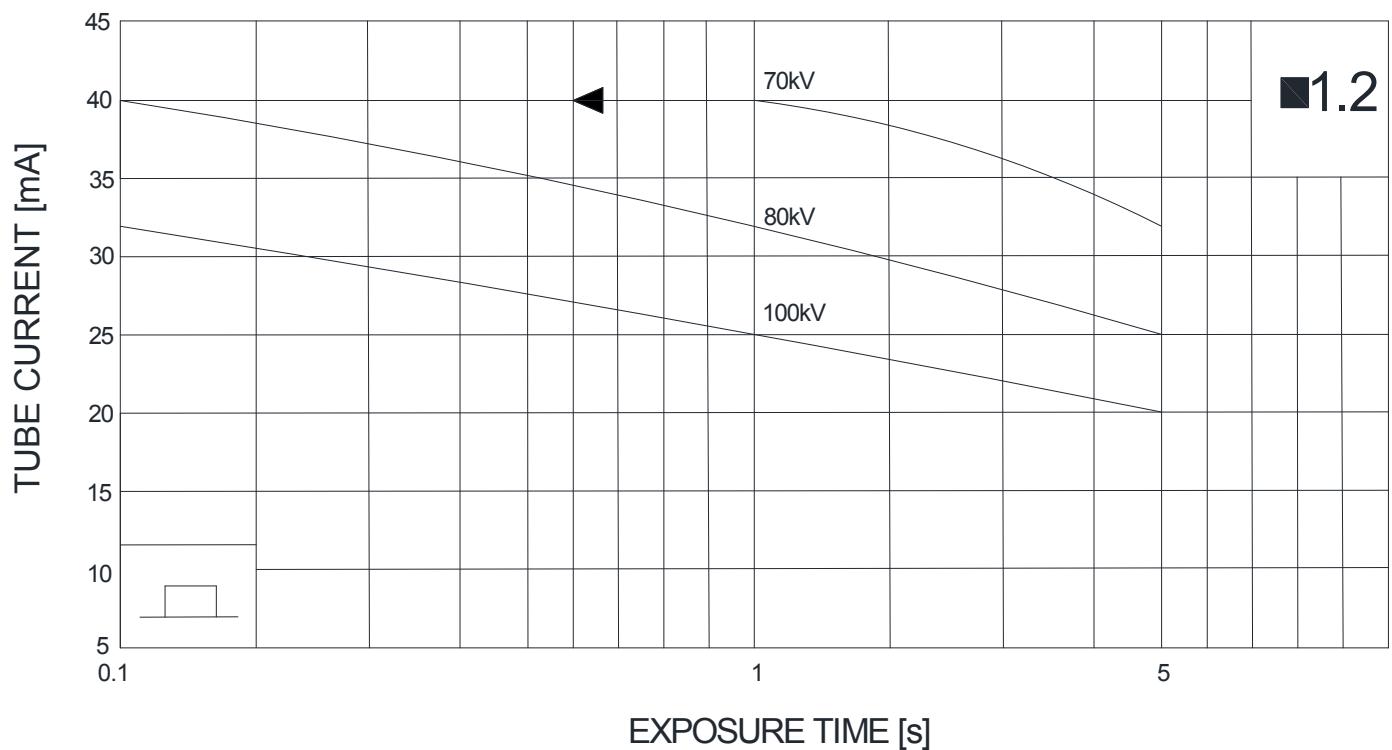
### Read through this page before using the tube.

Since X-ray tube will emit X-rays when it is energized with high voltage, special knowledge is required to handle it. The items below show general cautions for the tube handling.

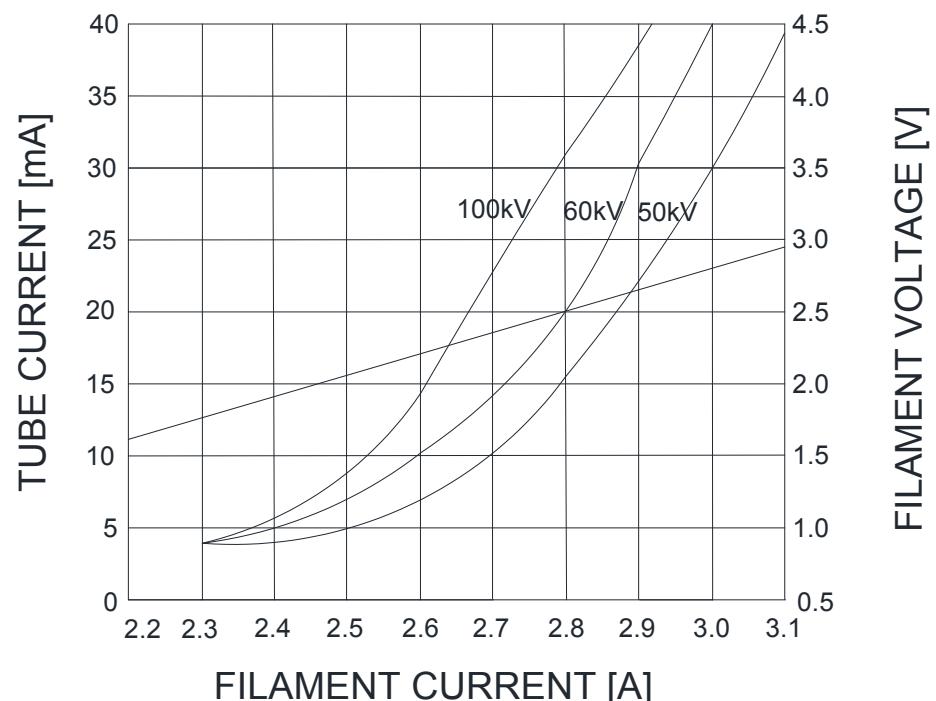
1. The tube shall be handled or operated only by qualified personnel.  
Only a specialist with knowledge of X-ray tube should assemble, maintain and remove the tube.
2. The tube envelope is made of glass. In transporting and handling, sufficient care should be taken not to give strong impact or vibration to the tube.
3. Radiation protection of the tube unit assembled with this tube must be sufficiently taken. And the leakage technique factor of the tube unit must not exceed maximum anode cooling rate of this tube.
4. Regulations and standards require the minimum source-skin distance (SSD) and the minimum filtration of the useful beam.  
Use the tube after fulfilling them.
5. The tube might be broken due to only one overload operation.  
Provide proper overload protection circuit.  
Operate the tube by selecting a proper input condition according to the conditions for operation and tube characteristics charts.
6. When any abnormalities are found in using this tube, immediately switch off the power supply and contact WanSen Service sector.
7. The charts of this specification are indicating standard values.  
For usage not described here or for any unclear items, contact WanSen Service sector.

## Maximum Rating Charts

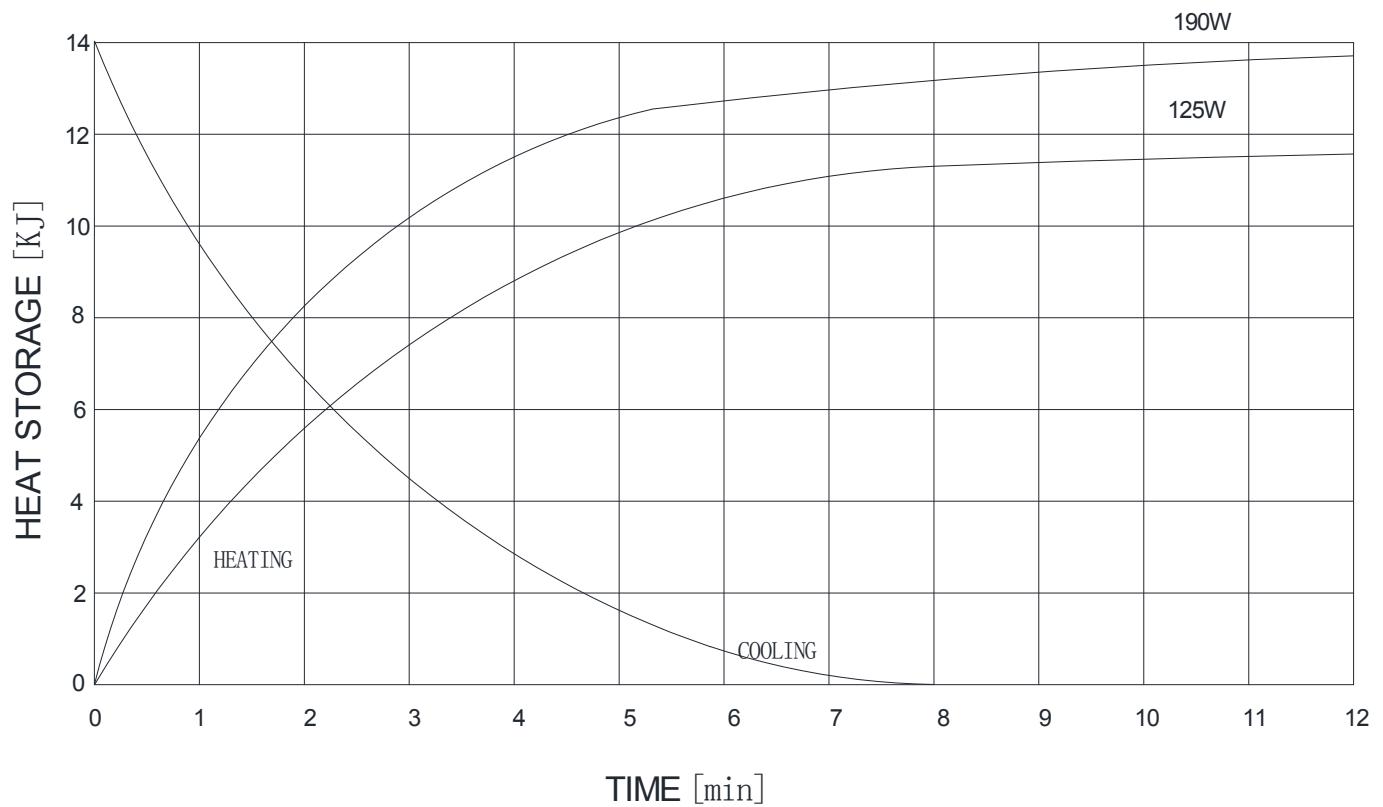
(Absolute maximum rating charts)



## Emission & Filament Characteristics



## Anode Thermal Characteristics



## X-Ray Tube Dimensions -XD10-1.2-100

Unit: mm

