## SV 150/30/50C-100
### X-ray Tube Assembly

### Data Sheet

### Technical Data

<table>
<thead>
<tr>
<th>Nominal voltage</th>
<th>150 kV</th>
<th>IEC 60613 (2010)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage Fluoroscopy</td>
<td>110 kV</td>
<td></td>
</tr>
<tr>
<td>Nominal focal spot values</td>
<td>0.6</td>
<td>1.0</td>
</tr>
<tr>
<td>Nominal anode input power (150 Hz / 180 Hz)</td>
<td>30 kW</td>
<td>50 kW</td>
</tr>
<tr>
<td>Nominal radiographic anode input power</td>
<td>34 kW</td>
<td>55 kW</td>
</tr>
<tr>
<td>Filament Heating</td>
<td>maximum current</td>
<td>5.1 A</td>
</tr>
<tr>
<td></td>
<td>maximum voltage</td>
<td>10.2 V</td>
</tr>
<tr>
<td>Anode Angle</td>
<td>16°</td>
<td></td>
</tr>
<tr>
<td>Anode heat storage capacity</td>
<td>450 kJ = 600 kHU</td>
<td>IEC 60613 (1989)</td>
</tr>
<tr>
<td>Anode drive frequencies for</td>
<td>exposure fluoro</td>
<td>150 / 180 Hz (50 ± 5 Hz)</td>
</tr>
<tr>
<td>Heat storage capacity of assembly</td>
<td>1.800 MJ = 2.430 MHU</td>
<td>IEC 60613</td>
</tr>
<tr>
<td>Nominal continuous input power (without / with fan)</td>
<td>300 W / 450 W</td>
<td>IEC 60613 (2010) (at ambient temperature &lt; 25°C)</td>
</tr>
<tr>
<td>Radiation Leakage</td>
<td>≤ 0.8 mGy/h</td>
<td>IEC 60601-1-3 (at 150 kV, 450 W, 1 m distance)</td>
</tr>
<tr>
<td>Inherent filtration</td>
<td>permanent filtration: 1.5 mm Al / 75 kV</td>
<td>IEC 60522, IEC 60601-1-3 (at 75 kV)</td>
</tr>
<tr>
<td></td>
<td>additional filtration: 2 x 0.5 mm (= 1 mm) Al</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>~ 27 kg</td>
<td></td>
</tr>
</tbody>
</table>

### Description

This compact X-ray tube assembly was developed for use in radiography and fluoroscopy systems.

With its small focal spots and large field of view it allows for superior image quality in undertable fluoroscopy applications.

### Features and customer benefits

- 600 kHU anode heat storage capacity for efficient X-ray examinations
- Focal spots of IEC 0.6 and IEC 1.0 allow excellent image quality
- Large field of view thanks to 16° anode angle
- High long-term dose yield
- Excellent quality and reliability
SV 150/30/50C-100
X-ray Tube Assembly

Heating and cooling curves

Anode

According to IEC 60613 (1989)

X-ray tube assembly (without fan)

According to IEC 60613 (1989)

Rating charts

Focal spot IEC 0.6

Anode drive 60 Hz
Thermal anode reference power 300 W

Focal spot IEC 1.0

Anode drive 60 Hz
Thermal anode reference power 300 W
Creating values is our passion. 
Efficiency is our nature. 
Partnership is our way.

**Dimensional drawings**

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>+ 2.0 / - 0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Focus position</td>
</tr>
<tr>
<td>Ref.</td>
<td>Reference axis</td>
</tr>
</tbody>
</table>

Dimensions are given in mm

Trunnion rings, high-voltage cables, stator cables with shielding and safety switch cables are optionally available.

**Types and material numbers**

<table>
<thead>
<tr>
<th>3-phase drive</th>
<th>1-phase drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designation</td>
<td>SV 150/30/50 C-100</td>
</tr>
<tr>
<td>Mat.-No.</td>
<td>4802729</td>
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<tr>
<td>SV 150/30/50 C-100 L</td>
<td>4803255</td>
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</tbody>
</table>
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