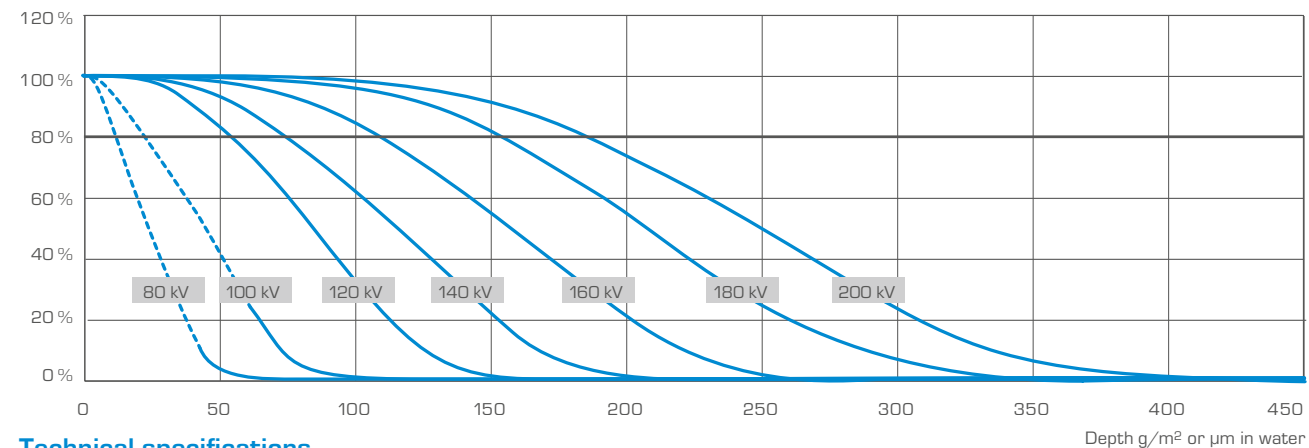


## Electron penetration

Dose % of surface dose



## Technical specifications

Type	EBA-120/270 EBA-120/400	EBA-200/270 EBA-200/400	EBA-300/270 EBA-300/400 under development
<b>Electrical data</b>			
Voltage range	80 kV to 120 kV	80 kV to 200 kV	120 kV to 300 kV
Maximum power	2.7 kW [.../270 version] 4.0 kW [.../400 version]	3.7 kW [.../270 version] 5.5 kW [.../400 version]	
<b>Dimensions and weight</b>			
Beam length (>90% of average, 10 mm air gap)	255 mm [.../270 version] 380 mm [.../400 version]	255 mm [.../270 version] 380 mm [.../400 version]	255 mm [.../270 version] 380 mm [.../400 version]
Window configuration (needed as a basis for Monte Carlo simulations)	equival. Ti thickness 11 µm electron transparency 66 %	equival. Ti thickness 11 µm electron transparency 66 %	equival. Ti thickness 14 µm electron transparency 66 %
Weight	12.3 kg [.../270 version] 13.2 kg [.../400 version]	12.3 kg [.../270 version] 13.2 kg [.../400 version]	
<b>Performance data</b>			
Surface dose uniformity lengthwise	< ±10%	< ±10%	< ±10%
Surface doses at max. voltage (kGy×m/min/kW)	1,237 [.../270 version] 835 [.../400 version]	484 [.../270 version] 327 [.../400 version]	
<b>Environmental data</b>			
Operating temperature	4 °C to 80 °C	4 °C to 80 °C	4 °C to 80 °C
Storage temperature	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C
<b>Cooling</b>			
Cooling agent	water	water	water
Cooling liquid flow rate	min. 4 l/min	min. 4 l/min	min. 4 l/min
Water inlet temperature range	25 °C to 40 °C	25 °C to 40 °C	25 °C to 40 °C
<b>Miscellaneous data</b>			
Corrosion protection	provided	provided	provided
Lifetime		> 6,000 hours operation (given favorable environmental conditions and less than 10,000 on/off cycles)	

ebeam, a division of the Swiss technology company COMET, is a world leader in the industrial usage of innovative electron technology. ebeam explores,

develops and produces innovative solutions and products for cost-effective and environmentally-friendly processes.

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ebeam Engines

The next generation of  
high-performance lamps

ebeam



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## ebeam Engines

### Small, compact and highly flexible

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Powerful, robust and reliable: with a beam energy of between 80 and 200 kV, the new ebeam engines are ushering in a new dimension in ultra-compact engines which can be built in to take up a minimum of space, providing above-average reliability and service life as well as significantly increased performance.

The new EBA series lamps use the tried and trusted COMET metal ceramic vacuum tube technology, which also enables a high maximum voltage, whilst being equally suitable for demanding situations, such as the sterilization of food packagings.



#### High flexibility

- thanks to two electron window lengths

#### Long service life

- 6,000 hours minimum

#### High efficiency

- thanks to optimized electron optics and window transparency

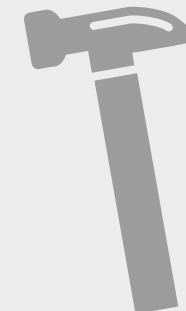


#### Stability

- thanks to good high voltage stability up to 200 kV
- low arcing rate

#### High precision

- thanks to optional sensors for beam monitoring



#### Robust design

- thanks to the proven COMET metal ceramic vacuum tube technology

#### Sustainable corrosion protection

- thanks to its special anti-corrosion coating

In 2009, ebeam received the Swiss Technology Award – the country's most important innovation and technology prize.

