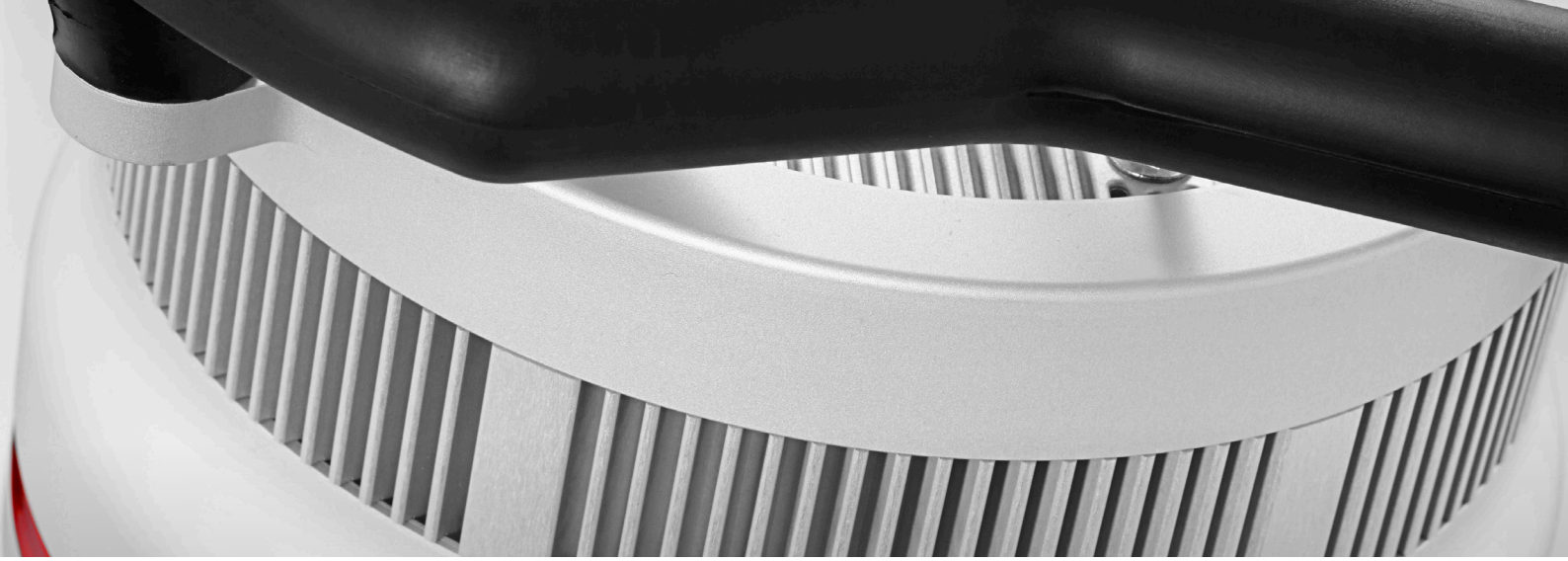

X-ray systems

EVO water cooled

Built to last
It's robust and reliable

Designed and built in Denmark; the EVO systems are comprised of the best components and assembled with the utmost care - making them reliable, long lasting and a sound investment. They are fitted with a high quality metal ceramic X-ray tube and the robust composite casing now protects all vital parts even better. The systems meet the IP65 standard, making them fully operational in dusty and wet conditions.

Smarter workflow
It's light-weight and easy to handle

All directional EVO tube heads are available in a hybrid cooled version, based on a water-cooled anode combined with an air cooled cathode end. The EVO series directional tube heads are available in 160-300 kV versions, all available with 1.0 mm small focal spot and the 225-300 kV variants also with 3.0 mm focal spot, in order to cover a broad range of applications.

High performance
Due to its technical capabilities

The hybrid cooling concept features 24/7 continuous exposure at up to 750-1200 W X-ray output power, in ambient temperatures up to +30°C - making the EVO water-cooled series a perfect choice for integration into product lines with 24/7 operation, in confined spaces without free airflow for cooling, or in extreme climatic conditions where long term exposures are required.

comet x-ray

Specifications EVO	160DW	200DW	225DW	225DSW	300DW	300DSW	300DW/1200
Weight	24 kg	25 kg	28 kg	28 kg	31 kg	31 kg	37 kg
Height	611 mm	635 mm	708 mm	708 mm	774 mm	774 mm	910 mm
Focal spot size EN 12543	1.0 mm	1.0 mm	3.0 mm	1.0 mm	3.0 mm	1.0 mm	3.0 mm
High voltage adjustment	20 - 160 kV	30 - 200 kV	40 - 225 kV	20 - 225 kV	50 - 300 kV	50 - 300 kV	60 - 300 kV
mA adjustment	0.5 - 7.0 mA	0.5 - 6.0 mA	0.5 - 5.5 mA	0.5 - 5.5 mA	0.5 - 4.5 mA	0.5 - 4.5 mA	0.5 - 6.5 mA
Max. X-ray power	750 W	750 W	900 W	900 W	900 W	900 W	1200 W
Beam angle	40° x 60°	40° x 60°	40° x 60°	30° x 60°	40° x 60°	30° x 60°	40° x 60°
Leakage radiation max.	2.0 mSv/h	2.0 mSv/h	5.0 mSv/h	5.0 mSv/h	5.0 mSv/h	5.0 mSv/h	5.0 mSv/h
Environment	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Temperature range	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Cont. exposure 30°C, max. kV / max. mA	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous*
Required cooling flow	> 2.5 l/min	> 2.5 l/min	> 2.5 l/min	> 2.5 l/min	> 2.5 l/min	> 2.5 l/min	> 2.5 l/min
Max inlet temperature	+40°C	+40°C	+40°C	+40°C	+40°C	+40°C	+40°C

* One hour exposure at 40°C, 300 kV / 4.0 mA. Max. inlet temperature +30°C

Exposure calculator

The advanced built-in exposure calculator in the CONTROL EVO ensures fast exposure calculations, as well as uniform results and optimised exposure times. It accommodates the use of a wide range of films, materials and settings.

Power supply

The AC-mains voltage range spans from 85 to 264 VAC and from 45 to 65 Hz, supporting global operation. The improved power factor correction module ensures stable operation, where AC-mains are unstable.

Options

A water cooler with flow and temperature switch which can be monitored by CONTROL EVO and an optional cooling module for the cathode end is available. The CONTROL EVO is also available in a water-cooled version, perfect for integration in systems without free airflow.

Certificates

CE (Low voltage 2014/35/EU, EMC 2014/30/EU and RoHS 2011/65/EU).

COMET Technologies Denmark A/S
Helgeshøj Alle 38, 2630 Taastrup, Denmark
T +45 72 40 77 00
VAT DK 18 21 52 33
Web: xray.comet.tech
Mail: mail.xray.dk@comet.tech

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