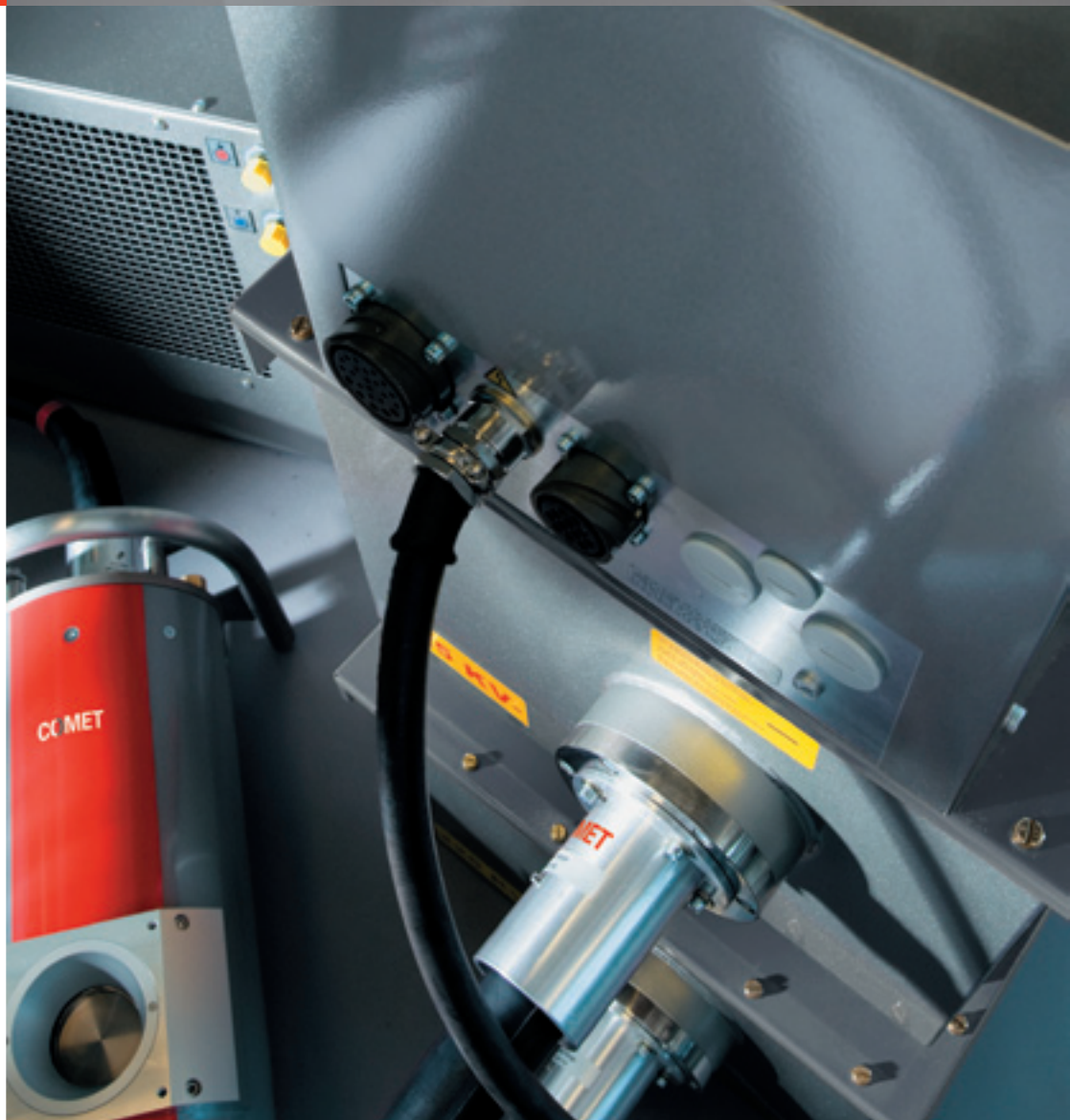
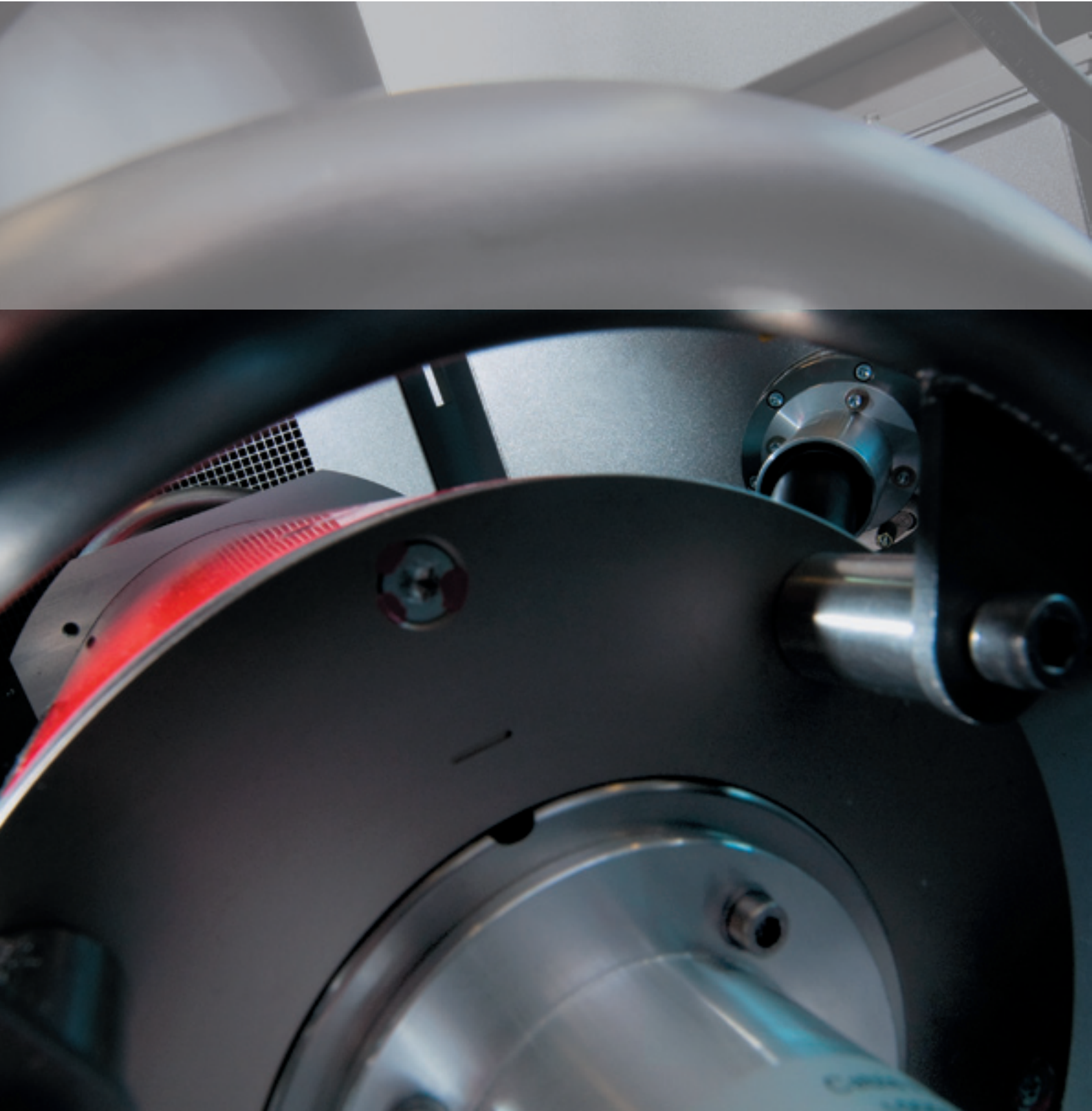


Bipolar Metal Ceramic Tubes

Industrial X-Ray

Overview







About Bipolar Metal Ceramic X-Ray Tubes

The COMET Bipolar Metal Ceramic tubes are designed for use in demanding industrial applications like Security and Non-Destructive Testing.

The tube assembly consists of a Bipolar X-Ray tube and tube housing with two integrated high voltage receptacle sockets. The X-Ray proof housing has an integrated cooling system and is equipped with oil hose connections.

The main advantages are high power, small dimensions, low weight and rugged mechanical design.

“One Stop Shop” for Industrial X-Ray Sources:

COMET’s XRS Modules

COMET is pleased to offer all of the necessary components for a customized X-Ray Source: The new XRS modules each contain a COMET X-Ray tube, high voltage generator with cables and coolers designed for easy integration that will optimize system performance. All XRS modules are factory prepared and tested for hassle free installation and operation.

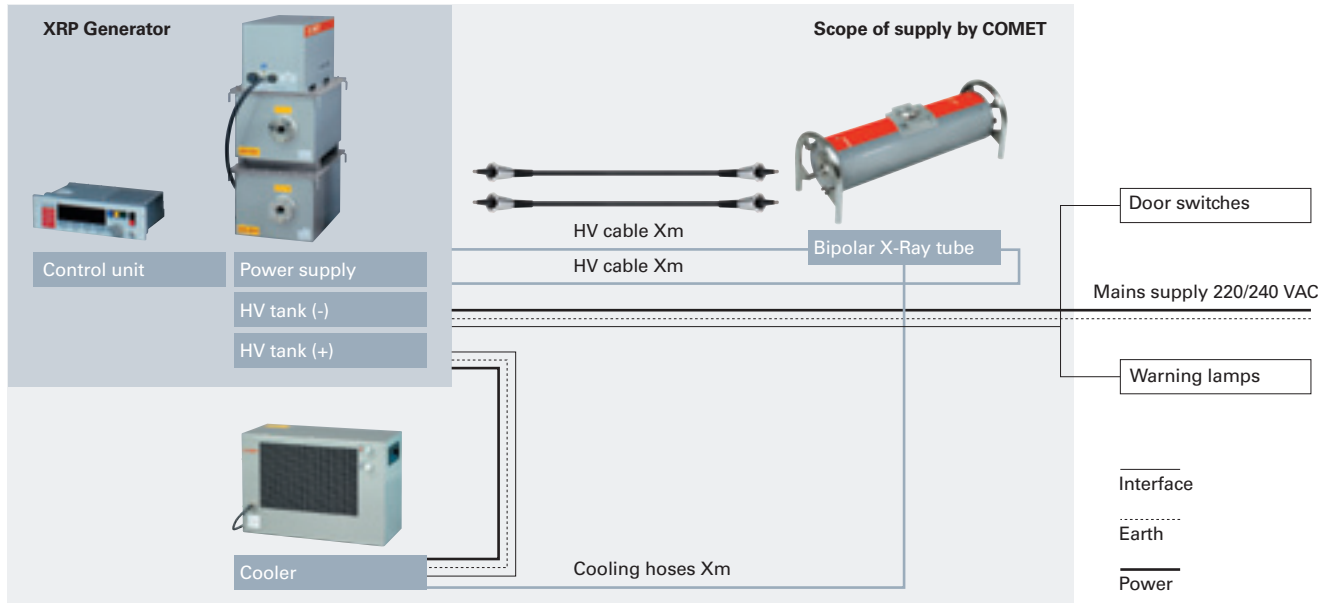
This novel solution demonstrates COMET’s continuous commitment and investment in delivering real added value to our worldwide customer base.

About the Business Unit Industrial X-Ray

COMET Industrial X-Ray is an experienced supplier of components and modules for industrial X-Ray applications and is proud of its reputation as the preferred engineering partner in terms of innovation potential, know how, flexibility and speed. Our product range features X-Ray tubes and sources with small focal spot resolution ($< 1 \mu\text{m}$) up to 6 kW in output for more power demanding requirements: from the smallest footprint for use in portable units to 800 kV fixed gantry systems that are suitable for cargo screening.

Bipolar X-Ray Source

Diagram of a Bipolar X-Ray Source XRS and its environment.



Ordering No.	Focal spots (EN 12543)	Terminal type	Ordering No. flange	CABLE		COOLER	
				Type	Ordering No.	Type	Ordering No.
915334.51	d=1.9mm/d=3.6mm	R24	100001711	N3/160-R24SL-R24SL-Xm	XRC-4501-OW	10008643	10008643
915358.51	d=3.0mm/d=5.5mm	R24	100001711	N3/160-R24SL-R24SL-Xm	XRC-4501-OA	10008642	10008642
915368.51	d=0.4mm/d=1.0mm	R24	100001711	N3/160-R24SL-R24SL-Xm	XRC-4501-OW	10008643	10008643
915334.58	d=1.9mm/d=3.6mm	R24	100001711	N3/160-R24SL-R24SL-Xm	XRC-4501-OA	10008642	10008642
915366.55	d=2.5mm/d=5.5mm	R28	100001710	P3/250-R28SL-R28SL-Xm	XRC-4501-OA	10008642	10008642
915366.51	d=2.5mm/d=5.5mm	R28	100001710	P3/250-R28SL-R28SL-Xm	XRC-4501-OW	10008643	10008643
915344.59	d=2.5mm/d=5.5mm	R28	100001710	P3/250-R28SL-R28SL-Xm	XRC-4501-OW	10008643	10008643
915369.51	d=0.4mm/d=1.0mm	R28	100001710	P3/250-R28SL-R28SL-Xm	XRC-4501-OA	10008642	10008642



Ordering No.
Ordering No. with 90° housing
Nominal tube voltage
Continuous rating
Focal spot acc. EN 12543
Filament current, max.
Filament voltage, typical
Inherent filtration
Target material
Target angle
Radiation coverage
Leakage radiation, max.
Cooling medium
Cooling medium flow, min.
Temperature at inlet, max.
Weight
Terminal type

MXR-320/23

915334.51
915334.56
320 kV
640 W / 1600 W
d = 1.9 mm / d = 3.6 mm
4.9 A / 4.6 A
3.0 V / 6.8 V
3 mm Be
W
20°
40°
5 mSv/h
Oil
14 l/min
50° C
40 kg
R24

MXR-320/26

915358.51
915358.56
320 kV
1500 W / 4200 W
d = 3.0 mm / d = 5.5 mm
4.9 A / 4.6 A
2.6 V / 6.4 V
3 mm Be
W
20°
40°
5 mSv/h
Oil
14 l/min
50° C
40 kg
R24

MXR-320/23AX

915334.58
—
320 kV
640 W / 1600 W
d = 1.9 mm / d = 3.6 mm
4.9 A / 4.6 A
3.0 V / 6.8 V
3 mm Be
W
20°
40°
5 mSv/h
Oil
14 l/min
50° C
40 kg
R24

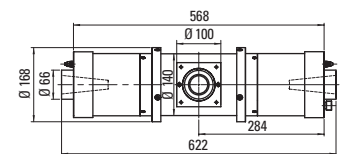
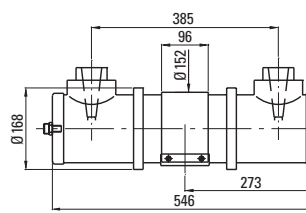
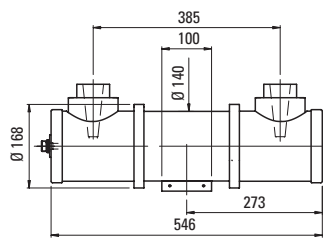
Mounting flange
Locking device

10001711
940303

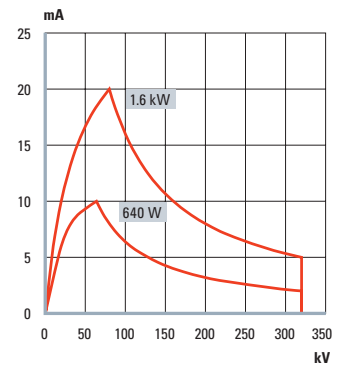
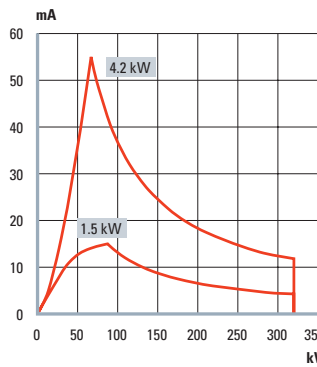
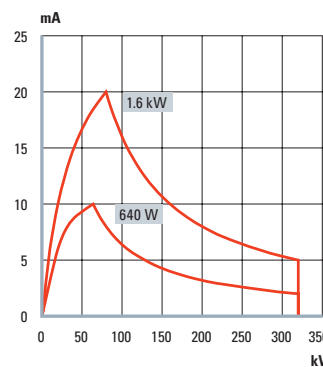
10001711
940303

10001711
940303

Outline drawing



Tube diagram





MXR-320/26AX

915358.58
—
320 kV
1500 W / 4200 W
d = 3.0 mm / d = 5.5 mm
4.9 A / 4.6 A
2.6 V / 6.4 V
3 mm Be
W
20°
40°
5 mSv/h
Oil
14 l/min
50° C
40 kg
R24

10001710

940303



MXR-320HP/11

915368.51
—
320 kV
800 W / 1800 W
d = 0.4 mm* / d = 1.0 mm
4.1 A / 4.6 A
2.3 V / 6.8 V
3 mm Be
W
11°
40° x 30°
5 mSv/h
Oil
14 l/min
50° C
40 kg
R24

10001711

940303

*Threshold: 25 %



MXR-320HP/11AX

915368.58
—
320 kV
800 W / 1800 W
d = 0.4 mm* / d = 1.0 mm
4.1 A / 4.6 A
2.3 V / 6.8 V
3 mm Be
W
11°
40° x 30°
5 mSv/h
Oil
14 l/min
50° C
40 kg
R24

10001711

940303

*Threshold: 25 %

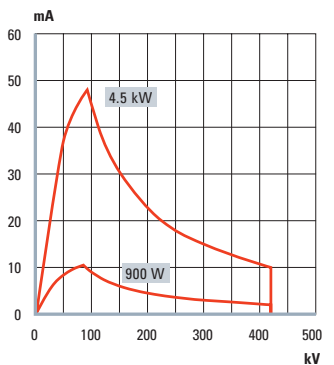
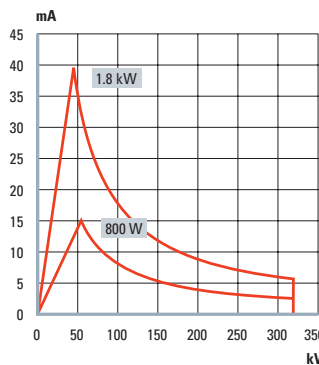
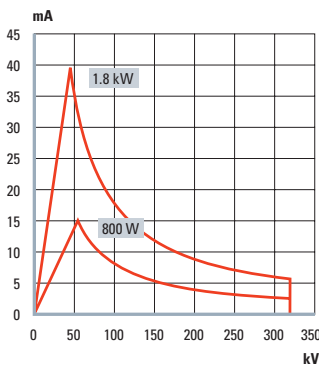
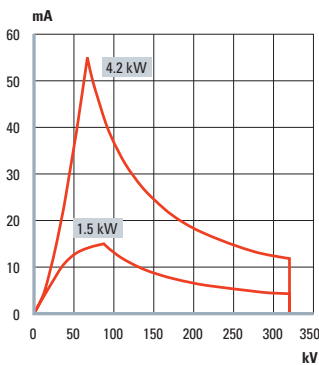
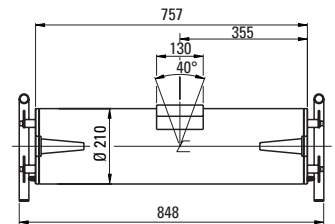
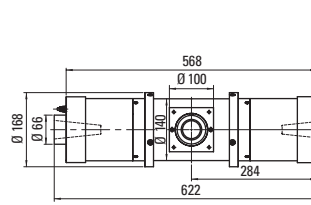
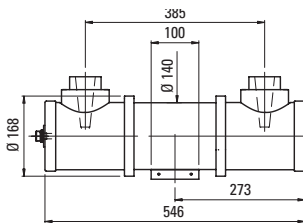
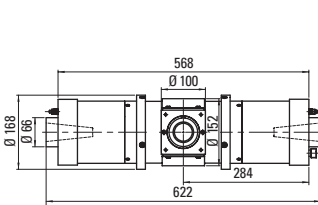


MXR-421/26

915366.55
—
420 kV
900 W / 4500 W
d = 2.5 mm / d = 5.5 mm
4.9 A / 4.6 A
3.0 V / 6.8 V
3 mm + 2 mm Be
W
30°
40°
10 mSv/h
Oil
14 l/min
50° C
95 kg
R28

10001710

—



**MXR-451/26**

915366.51

-

450 kV

900 W / 4500 W

d = 2.5 mm / d = 5.5 mm

4.9 A / 4.6 A

3.0 V / 6.8 V

3 mm + 2 mm Be

W

30°

40°

10 mSv/h

Oil

14 l/min

50° C

95 kg

R28

10001710

-

**MXR-451HP/11**

915369.51

-

450 kV

700 W / 1500 W

d = 0.4 mm* / d = 1.0 mm

4.1 A / 4.6 A

2.3 V / 6.8 V

3 mm + 2 mm Be

W

11°

40° x 30°

5 mSv/h

Oil

14 l/min

50° C

95 kg

R28

10001710

-

*Threshold: 25 %

**MXR-452/FB**

915344.59

-

450 kV

900 W / 4500 W

d = 2.5 mm / d = 5.5 mm

4.9 A / 4.6 A

3.0 V / 6.8 V

2.3 mm Fe + 1.0 mm Cu

W

30°

90° x 20°

10 mSv/h

Oil

14 l/min

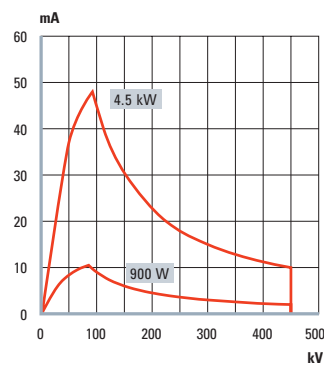
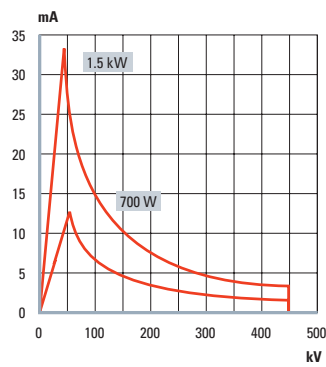
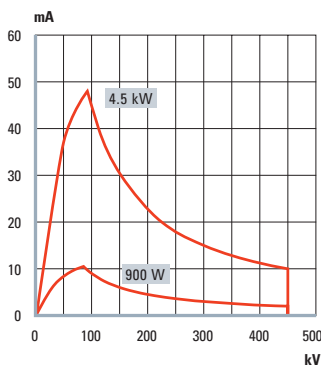
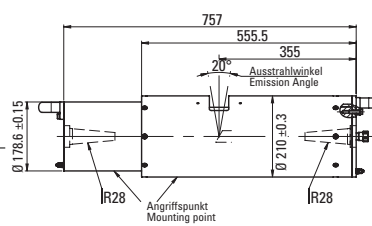
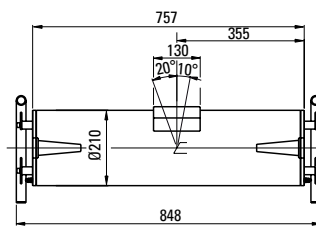
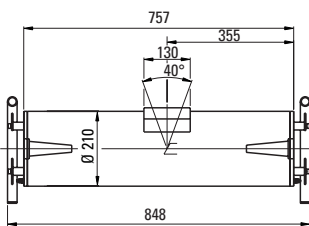
50° C

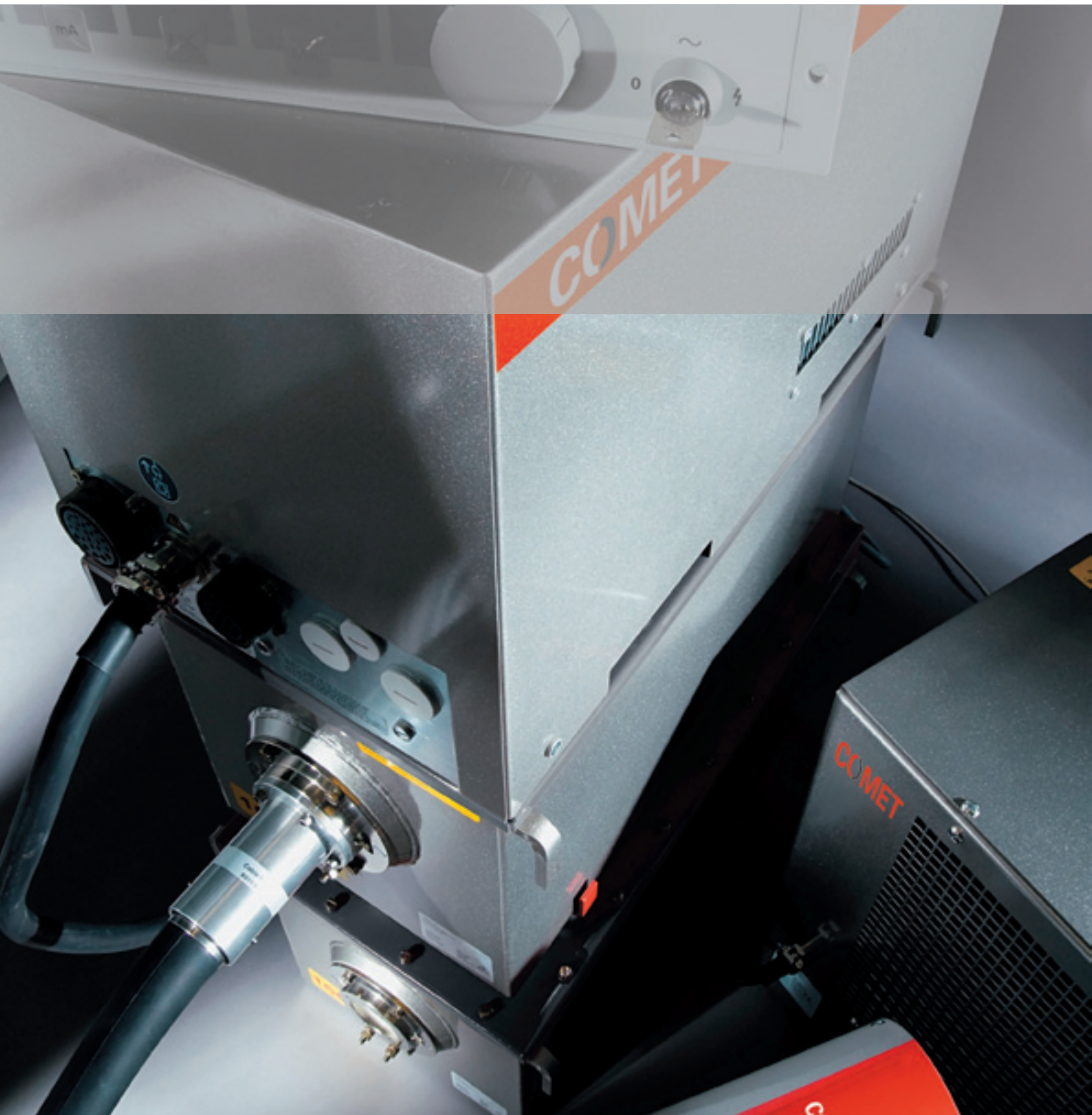
95 kg

R28

10001710

-







12/2010

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Technology with Passion

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