Portable Metal Ceramic Tubes









About Portable Metal Ceramic Tubes

COMET's Portable Metal Ceramic tubes are designed for use in highly demanding field-tests applications such as pipe inspection, welding inspection, and aerospace testing. Because of their high reliability and stability, our tubes are also used in other X-Ray applications like Thickness Gauging and Non Destructive Testing.

The tube consists of a ceramic isolator and a metal envelope with air cooled anode especially designed to be continuously operated at max voltage and power.

Because of the metal ceramic design the tube's main advantages are:

- Low weight
- Very rugged mechanical design
- Small dimensions
- No oil insulation necessary
- No choke effect due to space charges
- Integrated heat sink (on request)

For special applications or for special demands for focal spot size, power and/or packaging, COMET is prepared to provide customized solutions.

"One Stop Shop" for Industrial X-Ray Sources:

COMET's XRS Subsystems COMET is pleased to offer all of the necessary components for a customized X-Ray Source: The new XRS subsystems 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 subsystems 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 μm) 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.







MIR-300E

MIR-225E

Ordering No.
Nominal tube voltage
Continuous rating
Focal spot acc. EN 12543
Filament current, max.
Filament voltage, typical
Inherent filtration
Target material
Target angle
Radiation coverage
Cooling medium
Anode temperature, max.
Weight

WIII-223L
915329.01
225 kV
900 W
d = 3.0 mm
3.8 A
5.0 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
2.6 ka

915329.11
270 kV
900 W
d = 3.0 mm
3.8 A
5.0 V
0.8 mm Be
W
20°
60° x 40°

MIR-270E

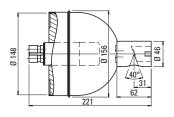
Air

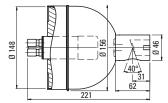
100° C

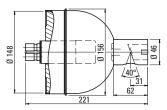
2.6 kg

915329.21 300 kV 900 W d = 3.0 mm 3.8 A 5.0 V 0.8 mm Be W 20° 60° x 40° Air 100° C 2.6 kg

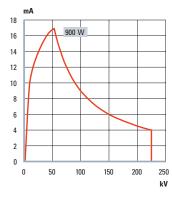
Outline drawing

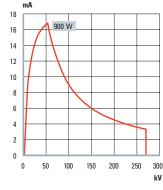


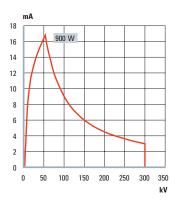




Tube diagram















IR.		

915328.11
160 kV
900 W
d = 3.0 mm
3.8 A
4.6 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
1.9 kg

MIR-200E

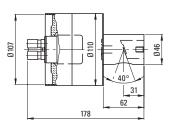
915328.01
200 kV
900 W
d = 3.0 mm
3.8 A
4.6 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
1.9 kg

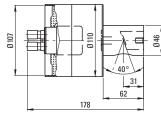
MIR-201E

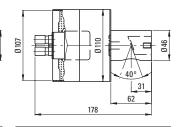
915352.01
200 kV
600 W
d = 1.0 mm
4.1 A
3.0 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
1.9 kg

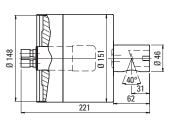
MIR-301E

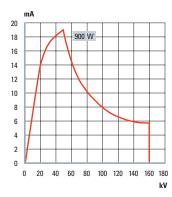
915338.01
300 kV
900 W
d = 3.0 mm
3.8 A
4.6 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
3.7 kg

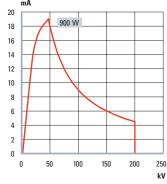


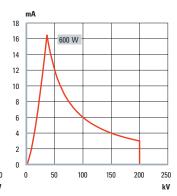


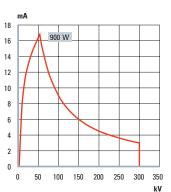
















MIRP-200E

3.0 kg

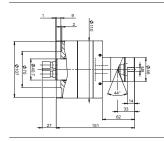
Ordering No.
Nominal tube voltage
Continuous rating
Focal spot acc. EN 12543
Former focal spot design.
Filament current, max.
Filament voltage, typical
Inherent filtration
Target material
Target angle
Radiation coverage
Cooling medium
Anode temperature, max.
Weight

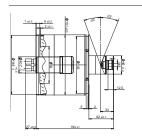
WIINF-200E
915333.01
200 kV
600 W
I = 0.4 mm / w = 4.0 mm
0.4 x 4.0
4.2 A
2.3 V
0.4 mm Fe/Ni/Co
W
22°
360° x 40°
Air
120° C

MIRP-301E

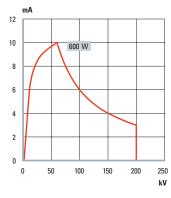
915354.01
300 kV
600 W
I = 0.5 mm / w = 5.5 mm
0.4 x 4.0
4.2 A
2.3 V
0.4 mm Fe/Ni/Co
W
22°
360° x 40°
Air
120° C
3.2 kg

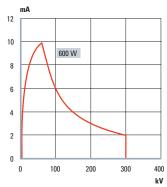
Outline drawing





Tube diagram











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