

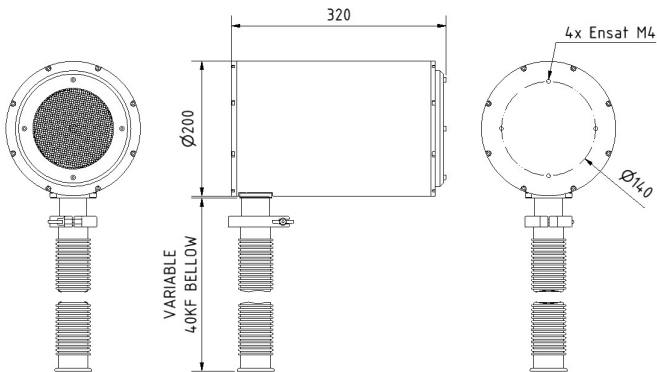
COPRA Plasma Technology

COPRA IS500-400-300-200

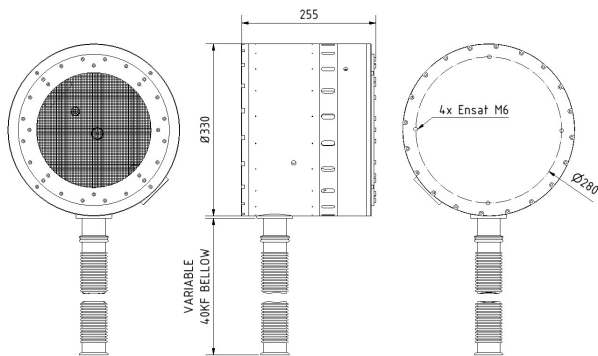
Built In Sources

COPRA IS500-400-300-200

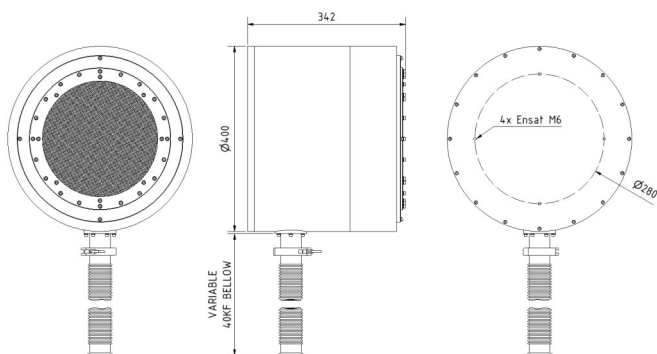
IS200 for Calotte Sizes up to 760mm



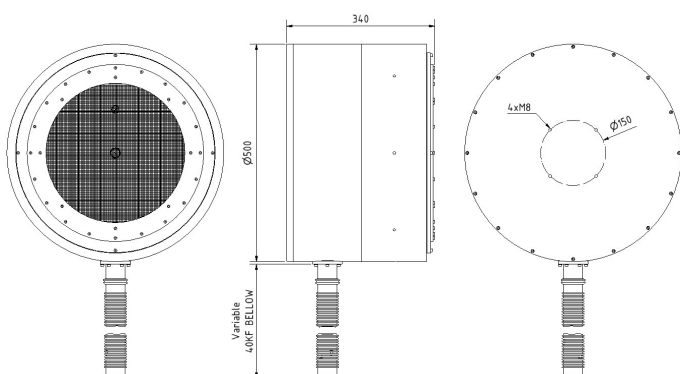
IS300 for Calotte Sizes up to 900mm



IS400 for Calotte Sizes up to 1500mm



IS500 for Calotte Sizes up to 1800mm



Installation Sketch IS300

Regular Spare Parts

- 1.) Tungsten Grid (completely mounted)
- 2.) Tungsten Grid (only Grid)
- 3.) Glass Liner
- 4.) Al₂O₃ Liner (only for IS200)

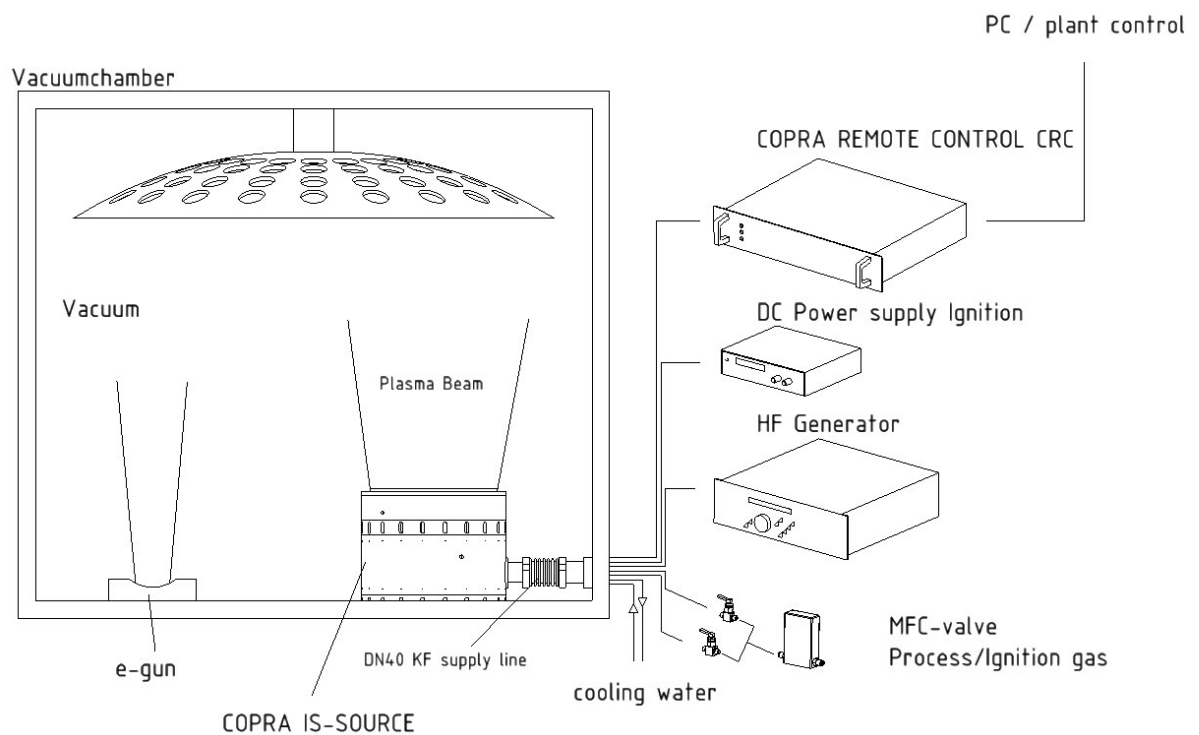
COPRA IS500-400-300-200

Built In Sources

Installation

Installation of the COPRA Plasma Beam Source within a vacuum system requires:

1. RF Generator for the excitation of the plasma
2. COPRA Control Unit
3. High voltage power supply (optional)
4. Cooling water supply
5. Process gas supply



| Technical Data | IS 200 | IS 300 | IS 400 | IS 500 |
|--------------------------------|--|--|--|--|
| Dimensions | ø 200 x 300 | ø 330 x 255 | ø 400 x 342 | ø 500 x 340 |
| Excitation Frequency | 13,56 MHz | 13,56 MHz | 13,56 MHz | 13,56 MHz |
| Impedance Matching | integrated Matchbox - 50 Ohm remotely matched | | | |
| RF-Power | ca.1000 W | 3000 W | 5000 W | 5000 W |
| RF-Connection | N | 7/16 HN | 7/16 HN | 7/16 HN |
| CCU/CRC-Connection | not specified | Sub-D 37 female | Sub-D 37 female | Sub-D 37 female |
| Water Connection | 2x flex tube 6 mm | 2x flex tube 6 mm | 2x flex tube 8 mm | 2x flex tube 8 mm |
| Water Flow | >2 l / min | >2 l /min | >2 l /min | >2 l /min |
| Operation Gas Pressure | 1×10^{-4} bis 5×10^{-2} mbar | 1×10^{-4} bis 5×10^{-2} mbar | 1×10^{-4} bis 5×10^{-2} mbar | 1×10^{-4} bis 5×10^{-2} mbar |
| Process-/Ignition Gas connect. | Swagelok 4 mm | Swagelok 4 mm | Swagelok 4 mm | Swagelok 4 mm |
| Weight | approx.25 kg | approx.35 kg | approx.40 kg | approx.45 kg |
| Calotte-Size | 550-760mm | 760-900mm | 900-1500mm | 1500-1800mm |

COPRA IS500-400-300-200

Built In Sources

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The COPRA technology is patent protected!

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COPRA Plasma Technology



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