IMU 200

# IMU 200

## Quadrupole mass spectrometer for $UF_6$ analysis


The *IMU 200* is a high performance solution for determination of isotope ratios and impurities in uranium hexafluoride.

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## Technical data

**Mass range**
1 - 512 amu

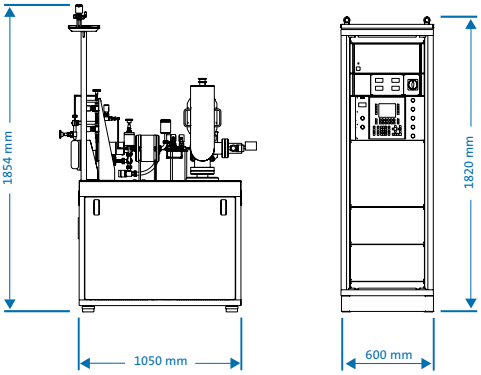
**Detector**
90° off axis SEM

**Special ion source**
molecular beam inlet
liquid nitrogen trap

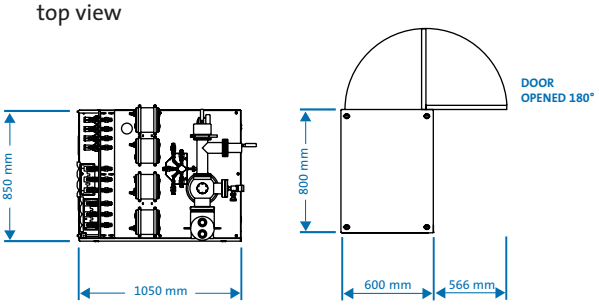
**Weight**
approx. 700 kg

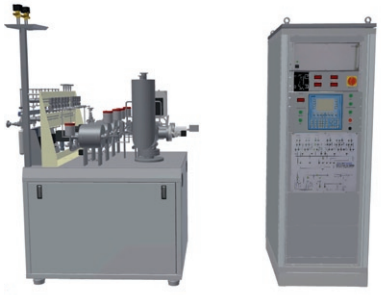
**Dimensions (mm)**

front view



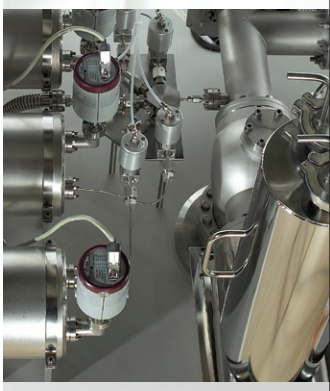

top view



## Computer controlled quadrupole mass spectrometer for isotope ratio and impurity analysis of uranium hexafluorid

- routine monitoring of enriched and depleted uranium for the production of nuclear fuel
- determination of isotope ratios of $UF_6$ in Feed, Product and Tail, also for minor isotopes
- offline analysis of isotope ratios
- manual sample measurement in batch mode
- automated measuring cycles for calibration against certified standards
- small sample consumption and high uptime
- $LN_2$ cooling of the ion source for best analytical results
- $LN_2$ sample trapping for secure operation
- vacuum control and $LN_2$ monitoring system for the operation with highest reliability and safety
- user-specific configuration of the system (on request)



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