



HMT

Residual gas analysis at high pressure







HPR-30^{ALD}

Vacuum process gas analysis - wide sampling pressure range



Residual gas analysis at high pressure

- ▶ HMT mode for high pressure operation to 5x10⁻³ mbar
- RGA mode for high sensitivity operation to 10⁻¹³ mbar
- 100 amu mass range
- Stability better than +/- 1% over 24 hours
- Fast access mixed mode scanning
- Real-time background subtraction



Analysis of the reaction kinetics of plasma assisted ALD processes

- +ve and -ve ion analysis
- Mass resolved ion energy analysis
- Neutrals and neutral radical analysis
- ▶ Energy resolved mass analysis
- Mass range options to 1000 amu
- ▶ Energy range options to 1000 eV



ALD film analytics

- Composition, contamination, diffusion and interface analysis
- Nanometre depth resolution
- Tool for research and production
- ▶ TPD Tool for temperature programmed desorption



Vacuum process gas analysis – wide sampling pressure range

- Pump-down Profiles
- Vacuum Diagnostics
- ▶ Real-time Precursor Analysis
- Residuals

- Backfill
- Bakeout Endpoint Confirmation
- Leak Checking