



AMC Solutions

Comprehensively Measure Gas-Phase Contaminants
in Real Time at Part-Per-Trillion Concentrations



TOFWERK AMC Solutions provide fast, sensitive detection of airborne molecular contaminants (AMCs) through cutting-edge chemical ionization mass spectrometry.

Offering market-leading sensitivity and simplified mass spectra, TOFWERK AMC Solutions are ideal for semiconductor applications. They feature comprehensive compound coverage, fast, real-time sampling with up to six positive and negative reagent ions, pptV detection limits, and high-resolution compound identification. Additional features include rapid polarity switching, ultra-soft ionization, a compact design for versatile deployment, and a multi-port valve option.

TOFWERK AMC Solutions: the power of multiple analyzers for unprecedented flexibility in one compact, robust instrument.

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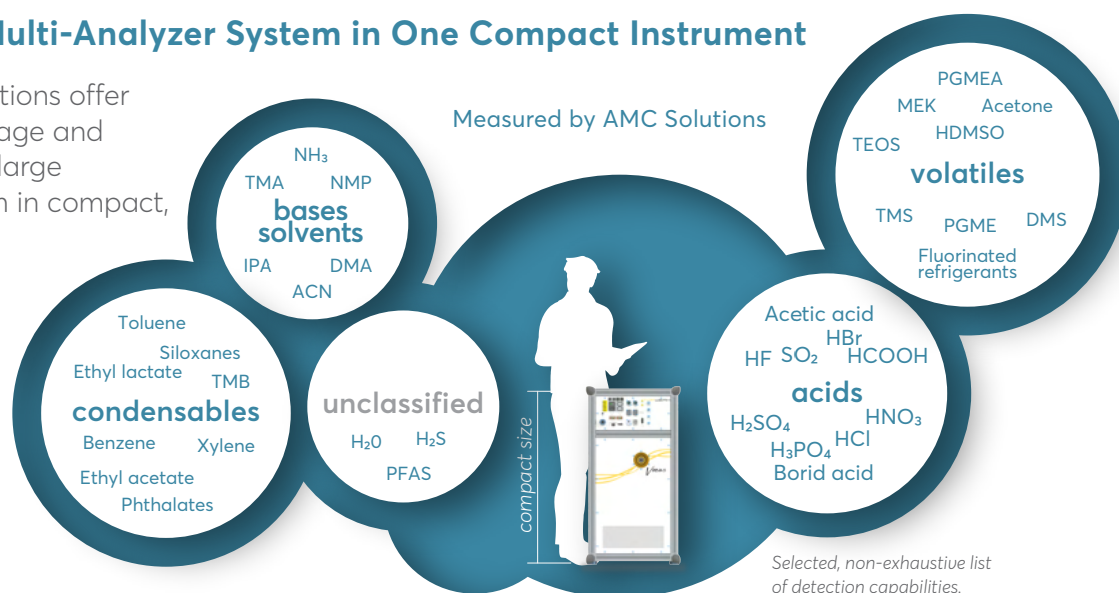
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Learn More

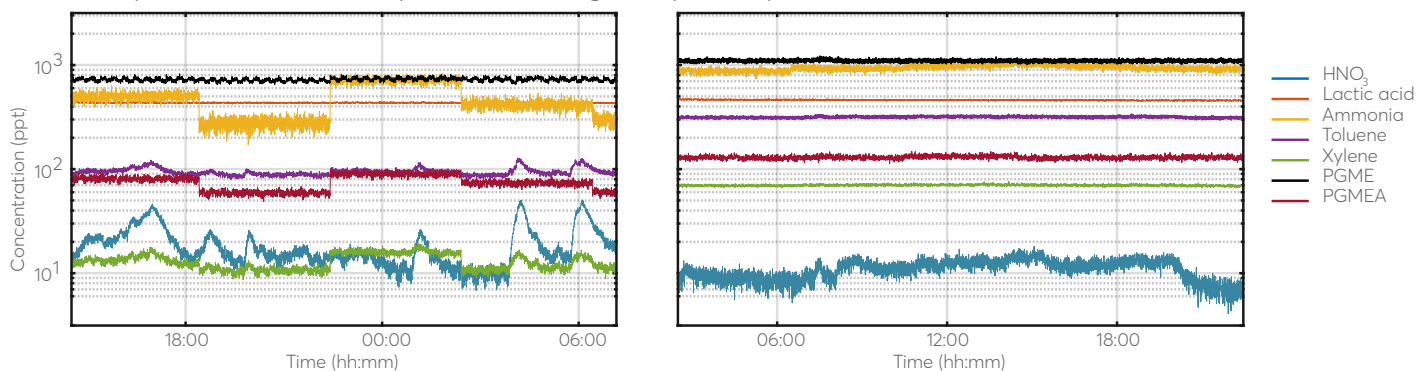
The Power of a Multi-Analyzer System in One Compact Instrument

TOFWERK AMC Solutions offer the compound coverage and resolving power of a large multi-analyzer system in compact, flexible packaging.



Sample Timeseries

The two panels below show highly sensitive, real-time, and simple separation of a broad range of AMCs by the AMC Monitor in a semiconductor fab environment. The panel on the left shows the measurement of transients from fab processes, while the panel on the right depicts a period of more stable ambient conditions.



Systems Specifications

Model*	AMC Monitor	AMC Analyzer
Reagent Ion Switching	Typical configuration: 4 reagent ions in 2 seconds	
Concentration Range	ppqv - 500 ppbv	
Resolution Sensitivity	>1000 M/ΔM 1-50 pptv	>4500 0.1-10 pptv
Dimension Weight Power	480 x 615 x 850 mm 140 kg <1100 W (600 W typical)	480 x 615 x 1335 mm 170 kg <1100 W (600 W typical)

*All instruments are CE certified.

Limit of Detection in pptv (LOD)*	Xylene	TMB	HCOOH	NH ₃	PGME	PGMEA	HNO ₃	TEOS
	6	5	6	50	5	7	10	5

*Representative LODs evaluated using 3 standard deviations with an integration time of 1 minute for selected compounds.

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