





Mercury Analyzers At A Glance

| OVERVIEW | | |
|---|--|--|
| |  QuickTrace M-8000 |  QuickTrace M-7600* |
| Principle Analytical Technique | Chemical reduction with or without Hg pre-concentration followed by cold vapor atomic fluorescence (CVAF) | Chemical reduction followed by cold vapor atomic absorption (CVAA) |
| Sample Matrix | <ul style="list-style-type: none"> • Aqueous samples • When the lowest detection levels are required | <ul style="list-style-type: none"> • Aqueous samples • Hg measured from sub ng/L to high µg/L levels |
| Instrument Detection Limit | Pre-concentration mode ≤ 0.05 ng/L | ≤ 0.5 ng/L |
| Short Term Precision (% RSD @ 95% Confidence, N=5) | Pre-concentration mode @ 5 ng/L ≤ 2.5 | @ 20 ng/L ≤ 1.2 |
| Usable Range | <0.05 ng/L – 400 µg/L | 0.5 ng/L – 700 µg/L |

*The QuickTrace M-7600 is shown with the Teledyne CETAC ASX-280.

KEY CAPABILITIES

| |  QuickTrace M-8000 |  QuickTrace M-7600* |
|--|---|--|
| High Performance Gas/Liquid separator | Y | Y |
| Priority Samples | Y | Y |
| Dual cell detection system for wide dynamic range | N | N |
| Built in high concentration protection system | Y | Y |
| Flow through rinse to minimize carryover even at ultra-trace levels | Y | Y |
| Counter-flow Nafion® membrane dryer to minimize vapor formation in detector cells | Y | Y |
| Can be reconfigured to liquids analysis | NA | NA |
| Can be reconfigured to solids analysis | N | N |
| Ultra-trace analysis mode with gold amalgamation for lower detection levels | Y | N |
| Choice of Autosamplers | Y | Y |
| Manual Operation | Y | Y |

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METHOD SELECTION GUIDE (COMMON METHODOLOGIES)



QuickTrace
M-8000



QuickTrace
M-7600*

| | QuickTrace M-8000 | QuickTrace M-7600* |
|--------------------|-------------------|--------------------|
| (US) EPA 245.1 | | X |
| (US) EPA 245.5 | | X |
| (US) EPA 245.6 | | X |
| (US) EPA 245.7 | X | |
| (US) EPA 7470A | | X |
| (US) EPA 7471B | | X |
| (US) EPA 7473 | | |
| (US) EPA 1631 | X | |
| ASTM D6722 | | |
| ASTM 7623 | | |
| ISO 16772 | X | X |
| EN 13806 | | X |
| EN 16175-2 | X | |
| EN 16175-1 | | X |
| ISO 17852 | X | |
| ISO 12846 | | X |
| EN 17266 | | |
| Methods Not Listed | | |

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