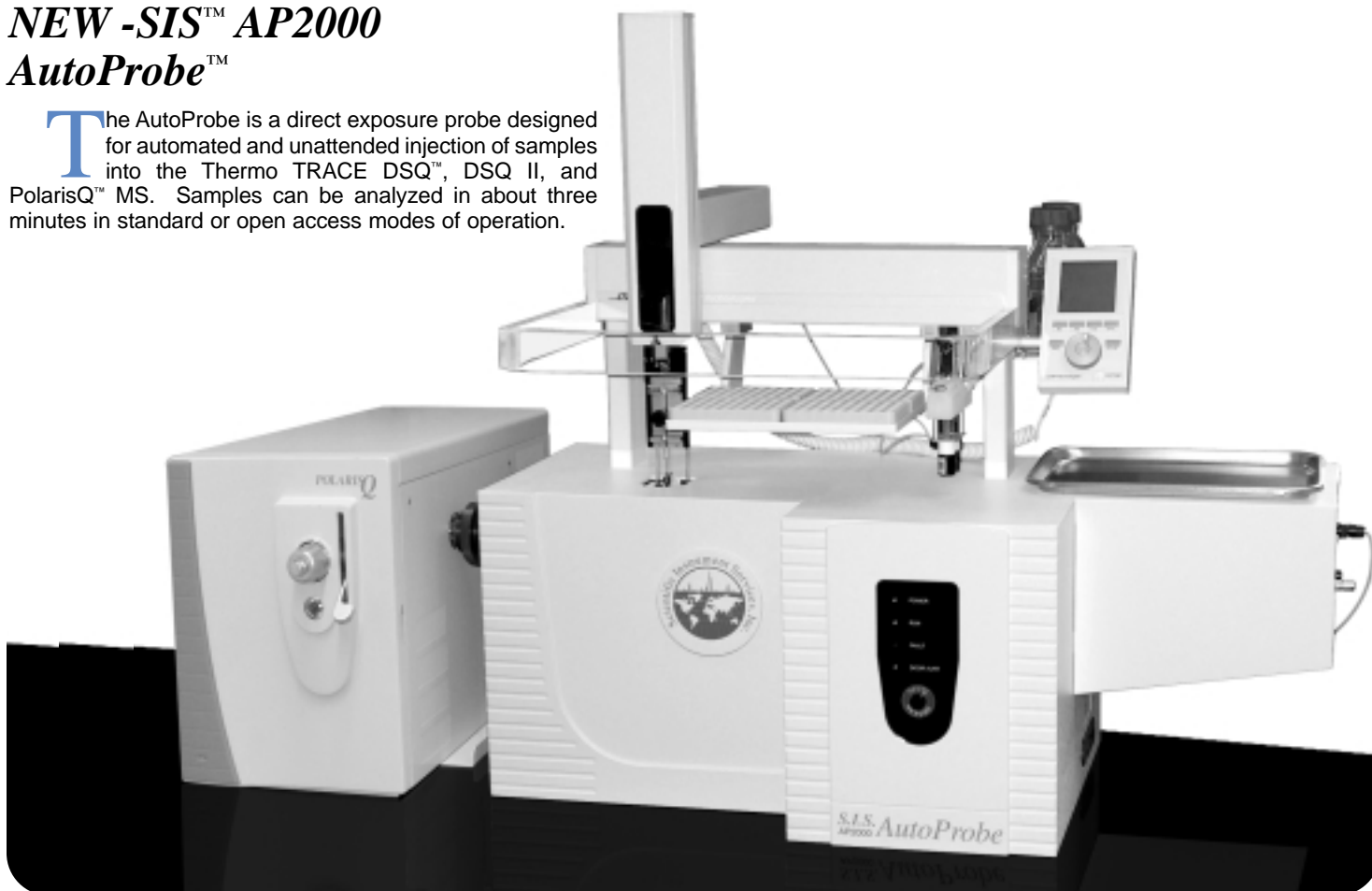


NEW -SIS™ AP2000**AutoProbe™**

The AutoProbe is a direct exposure probe designed for automated and unattended injection of samples into the Thermo TRACE DSQ™, DSQ II, and PolarisQ™ MS. Samples can be analyzed in about three minutes in standard or open access modes of operation.

**Features****Capabilities**

- Automated Direct Exposure Probe (DEP or DCI) for the Thermo TRACE DSQ™, Focus DSQ, DSQ II, and PolarisQ™ MS
- Unattended, quantitative, reproducible analysis of samples (3 to 5 minutes per sample).
- Integrated CTC liquid autosampler (included) for loading samples onto probe tip. Holds four sample trays of +54 samples each.

Software

- Fully integrated with Thermo Xcalibur™ software, - optional support for Open Access™ operation

Maintenance and Robustness

- Plug in replaceable DEP probe filaments (expected life > 500 samples)
- Easily replaceable probe shaft seals (expected life > 500 injections)
- Sequence stops automatically if leaks, broken filaments or other problems occur.
- Vacuum gauge in isolation valve prevents insertion of probe into source if seals are leaking.
- Automatic repositioning of probe without vacuum leaks if a power outage occurs when the probe is in the MS vacuum

The SIS AutoProbe integrates a CTC liquid autosampler with an automated Direct Exposure Probe (DEP) for the automated and unattended injection of dissolved or suspended samples directly into the Thermo TRACE DSQ™ or Polaris Q™ MS source for direct MS analysis. Using this technique, samples can be analyzed in about three minutes without any chromatographic separation. The AutoProbe is fully integrated with the Thermo Xcalibur™ software, including system setup, methods setup, system operation and data storage.

The DEP (or DCI) technique is a quick technique for the analysis of samples that are not volatile enough to be introduced into the mass spectrometer via a GC and therefore must be directly introduced into the mass spectrometer source. The DEP technique is normally used for single component samples since minimal separation of samples is possible with this technique and samples with two or more components are difficult to interpret. Alternatively DEP sample analysis is performed utilizing CI (Chemical Ionization) mass spectrometer techniques, which produce less fragmentation and increase abundance of a molecular ion. Due to the increased abundance of a molecular ion and reduced fragmentation in the CI technique, it is possible to analyze and interpret mixtures of two or more compounds in a sample.

When "Thermo" is indicated, it is intended to imply "Thermo Fisher Scientific Corp."