

Microanalytics Model 3200

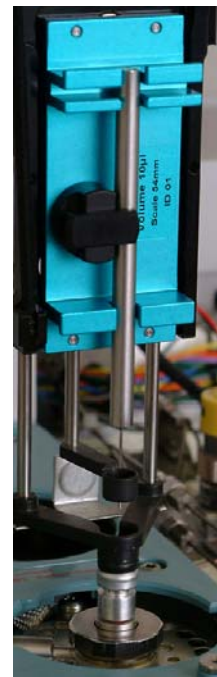
Thermal Desorption Inlet for Agilent 6890 GC

For a wide variety of samples, trapping onto a suitable absorbent and subsequent thermal desorption offers the best sample introduction technique to deal with these type of matrices. With suitable care, this technique introduces a representative headspace sample which most closely matches the original sample composition.

The Model 3200 is based upon a design refined over 15 years by Microanalytics. The original design required manual switching of carrier flows, which was cumbersome and inexact. The introduction of the superior robotics capabilities of the LEAP/CTC robotic autosampler allowed for the complete automation of the purge/desorb/inject cycles.

The 316SS desorption tubes are double passivated with a proprietary process that results in a virtually unbreakable design with better-than-glass inertness. A simple adapter ring and standard 2cc autosampler vial caps allows the PAL robotics to magnetically transfer and move the desorption tubes.

One of the most revolutionary aspects of the Model 3200 design is the ability to desorb the sample directly into the head of the analytical column, without the use of transfer lines or cryo-coolants. A proprietary flow switching system optimizes the injection transfer, resulting in sharp, well-shaped early eluting compounds without cryotrapping, or expensive whole-oven cryo-cooling. The use of the industry standard G1552A split/splitless inlet eliminates the costly PTV type inlet commonly used on other thermal desorption systems.



Model 3200 Features and Benefits

Sample types associated with odor, aroma or malodor analysis frequently present a difficult chromatographic challenge due to the sheer complexity of the sample. Materials such as tobacco, chocolate, coffee and others may have over 1000 components in the headspace alone. The analytical challenges are compounded by the widely varying concentration of these components, and the fact that many of them have little to no impact on the overall aroma/flavor profile of the material. Headspace trapping and subsequent thermal desorption offers a powerful analytical tool for these types of samples.

The Model 3200 was specifically designed with the following features:

- *Automated purge/desorption/injection processes.*
- *Load up to 78 samples at a time in a standard VT-78 tray for analysis.*
- *Direct desorption into the column, no cryocoolant or expensive PTV inlet necessary.*
- *Adaptable to a standard Agilent Technologies split/splitless inlet (G1552A).*
- *Quickly change from thermal desorption mode to standard liquid injection mode in under an hour.*
- *Eliminates costly breakage with the use of robust stainless steel construction (inlet and sample tubes).*
- *Proprietary passivation techniques offers better than glass inertness and prevents sample degradation.*
- *Pre-purge mode removes residual oxygen from tube before desorption.*
- *Robotically controlled with the industry standard CTC/LEAP Technologies CombiPAL or DI.PAL autosamplers.*



Microanalytics[™]

Gas Chromatography Systems and Services

A **MOCON**® Company

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STANDARD CONFIGURATIONS

M3200-S **Model 3200 Thermal Desorption Add-on System for Single Column GC and GC/MS Systems**

Requirements: Agilent Model 6890 GC with G1552A Split/splitless inlet with EPC
Any detector or MSD
0.32mm or greater ID column (flow rate 2.0 cc/min or greater)
LEAP Technologies CombiPAL or DI.PAL robotics autosampler
Cycle Composer™ software
One tray holder
VT78 tray

Includes: Inlet Interface for S/S Inlet
Pneumatics module for carrier gas routing
Inlet backflush adapter and oven mounting kit
Solenoid interface module for CombiPAL or DI.PAL autosampler
Sampling kit with desorption tubes, caps and adapters
Desorption tube capper and decapper
All necessary cabling

M3200-MD **Model 3200 Thermal Desorption Add-on System for Microanalytics Model 2100 Multidimensional GC/MS-Olfactory Systems**

Special system for Microanalytics Model 2100 AromaTrax™ systems

Requirements: All of the above

Includes: MultiTrax Version 7.00 Multidimensional controller software upgrade for thermal desorption automation.

M3200-C **Model 3200 Thermal Desorption System - Complete Sample Introduction System**

This complete system allows the user to utilize almost every sample introduction option available, including automated liquid injection, SPME immersion, SPME headspace, direct heated headspace, and thermal desorption in one easy-use system. Includes the Model 3200S or MD system (as required) and the LEAP Technologies CombiPAL robotics autosampler and SPME fiber kit. This kit also includes Cycle Composer™ software and all necessary macros and methods.

Call or email (sales@mdgc.com) for pricing, delivery and availability. Explore more of the aspects of the Model 3200 at www.texas2step.info.

AVAILABLE OPTIONS

Model 3200—Configuration and Sampling Options

M3300-S **Model 3300 Remote Sampling System for Model 3200 Thermal Desorber**

The Model 3200 system may also be configured as a remote, automated sampling system. This allows the robotics to sample from a headspace stream at timed intervals and capture the samples onto a variety of substrates in pre-packed desorption tubes. The system automatically seals and stores the tubes for transport to the laboratory and subsequent analysis by a Model 3200 system. Call or email for details.

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