

DAAMS equipment for defence applications

Markes International's 'xr' series of thermal desorption systems for 4½" Depot Area Air Monitoring System (DAAMS) tubes offer outstanding productivity, data quality and sample integrity for homeland-security applications.

New options for DAAMS laboratories

The launch of two 'xr DAAMS' systems allows analysts monitoring chemical agents using 4½" sorbent tubes to benefit from the outstanding performance of Markes' field-proven TD technology.

Superior productivity and data quality

The highest possible productivity is achieved through cryogen-free, unattended operation for up to 100 DAAMS tubes, enhanced by sample overlap mode.

Exceptional data quality over a wide analyte range is ensured by a short, ultra-inert flow path, advanced water management options, and automated internal standard addition.

Integrity and chain of custody

Sample integrity is safeguarded by patented diffusion-locking tube caps, stringent leak testing and automated re-collection, while barcodes and electronic tube tracking ensure chain of custody.

Systems for every laboratory



- **TD100-xr™ DAAMS** accommodates 4½" tubes, making it the ideal option for dedicated DAAMS laboratories.



- **UNITY-ULTRA-xr™ DAAMS** accommodates 4½" tubes, but with the option to add autosamplers for industry-standard 3½" tubes, canisters or on-line sampling to the same platform, for greater flexibility.



Product highlights

- Unattended analysis of up to 100 DAAMS tubes
- Compatible with highly reactive chemical agents
- Cryogen-free operation
- Quantitative re-collection of split flows

Upgrades are available if you already own a Markes' UNITY-xr™ or UNITY™ 2 – please contact your sales rep.

An end to 'one-shot' analysis

Like all Markes' instruments, the TD100-xr DAAMS and UNITY-ULTRA-xr DAAMS feature re-collection of both inlet and outlet splits (see schematic).

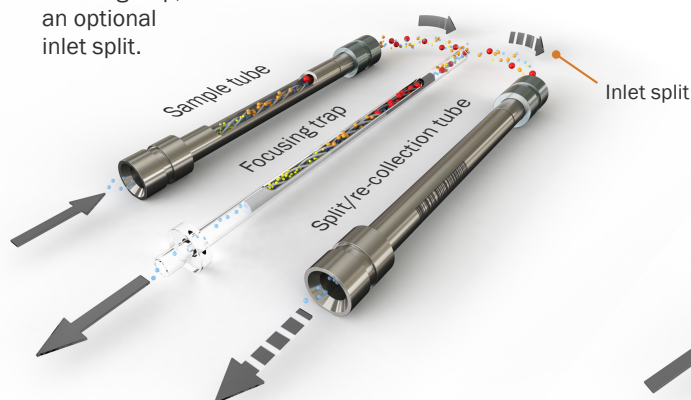
This allows you to reliably repeat sample analyses, and so overcome the 'one-shot' limitation of less advanced systems.

It also means that you can:

- Easily confirm and validate data and analytical procedures
- Eliminate the risk of losing valuable samples
- Archive a portion of each sample for confirmatory analysis.

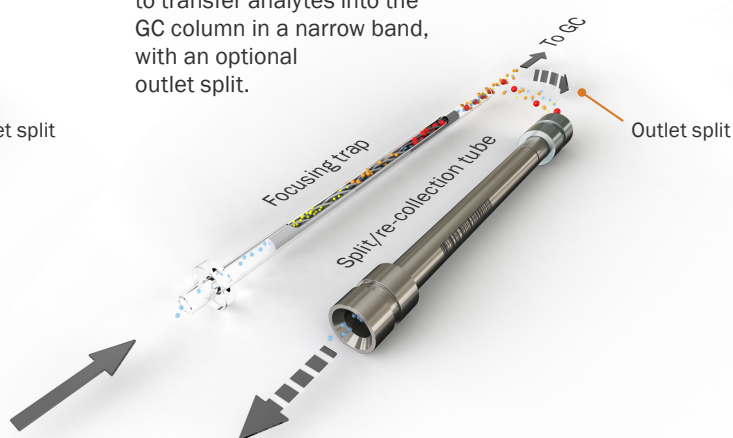
1 Tube desorption and inlet split

Analytes from the sample tube are swept onto an electrically-cooled focusing trap, with an optional inlet split.



2 Trap desorption and outlet split

The focusing trap is heated rapidly to transfer analytes into the GC column in a narrow band, with an optional outlet split.



Quality-assured DAAMS tubes

We also offer a range of empty and sorbent-packed 4½" × 6 mm o.d. DAAMS tubes, for use with your Markes instrument or other TD systems.



Description	Part number
4½" DAAMS tube, glass, empty, pk 10	C0-LXXX-0000
4½" DAAMS tube, glass, packed with Tenax® TA, pk 10	C1-LXXX-7001
4½" DAAMS tube, glass, packed with HayeSep® D, pk 10	C1-LXXX-7003
4½" DAAMS tube, inert-coated, empty, pk 10	C0-VXXX-0000
4½" DAAMS tube, inert-coated, packed with Tenax TA, pk 10	C1-VXXX-7010



**Order your
DAAMS system
today**

Please contact your regional distributor or one of our offices (details below).

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