UNITY-xr

Modular thermal desorption

The MARKES UNITY-xr is a single-tube thermal desorber with electrically cooled focusing and sample re-collection. The modular platform can be expanded for automated tube analysis, canister samples or online air sampling.



UNITY-xr

KEY FEATURES

- Thermal desorption of individual sorbent or sample tubes
- Electrically cooled focusing trap down to -30 °C, without liquid cryogen
- Inert flow path for compounds from C2 to C44, depending on the method and sorbent
- Quantitative re-collection of split flows for repeat analysis
- Leak testing and electronic carrier-gas pressure control
- Expandable with ULTRA-xr for up to 100 tubes, Air Server-xr for online samples or CIA Advantage-xr for canisters
- Multi-Gas version: helium, nitrogen or hydrogen; the carrier gas and analytical system must be matched to the application.

TECHNICAL DATA

Base configuration	Single tube
Focusing trap	Down to -30 °C, electrical
Analyte range	C2 to C44, method-dependent
Expansion	Tubes, canisters, online

APPLICATIONS AND CONFIGURATION

Method development, research, and environmental, material and flavour analysis with modest sample throughput.

Usable as a single-tube system; additional samplers are optional upgrades. Air Server-xr adds direct air and gas sampling. The version for helium, nitrogen or hydrogen is selected to suit the GC or GC/MS system.

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