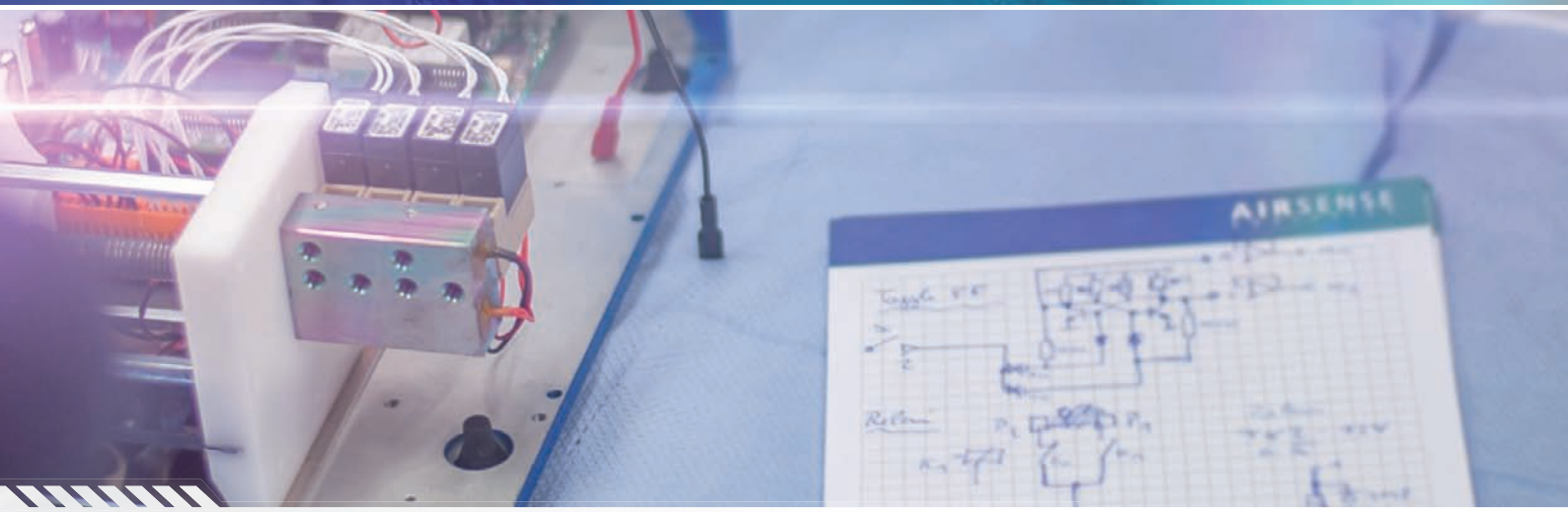
AIRSENSE
ANALYTICS



EDU3

Enrichment & Desorption Unit

Trap & Thermal Desorption for the air analysis

EDU3 is a fully-automated enrichment and thermal desorption unit, which is used for air analysis or for sample preparation. **EDU3** allows it to concentrate substances or perform a selection from certain substances for subsequent analysis.

The stand-alone instrument moves through the cycles themselves. With the software side access to the analysis parameters, the selectivity and sensitivity can be influenced. Also, by the selection of the adsorbent, the collection and desorption to the problem and the target substance to be adjusted. Thus, enrichment factor between 10 and 1000 are achieved.

Due to the internal flow path system, the device can be easily connected to different collection systems and detectors. So online-collection systems or the combination with headspace sampler are possible. Similarly, special versions are combined with laboratory GCs, Micro-GCs and mass spectrometers available.

Applications

- Detection of odorants in natural gas
- Proof of solvents in the workplace
- Investigation of pharmaceutical aerosols

Advantages

- Increased selectivity
- Better detection limits
- Portable instrument
- Auto cycles
  easy replacement of the adsorbent tube with bayonet lock
- Works with computer or standalone mode

Made in Germany
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EDU3
Enrichment & Desorption Unit

Technical Data

Product Description

Inlet **Sampler**	made of stainless steel and Teflon®, heated up to 150°C, special fluidic and electrical connector
Inlet **Detector**	made of stainless steel, heated up to 150°C, special fluidic and electrical connector; different types of installation of detectors
Sample flow	adjustable, 50ml/min to 500ml/min
Flow system	internal pump for sampling; internal multiport valve, heated
Temperature adjustable	**sampling:** typical 30°C **desorption:** up to 250°C **cleaning:** up to 280°C
Adsorbent	different adsorbent materials available, depending on the application
Tube holder	holder for one adsorbent tube
Measurement time	**typical:** 10 minutes for full cycle
Cycle operation	single or continuous cycle
Display	text display
Dimension	255 x 190 x 92 mm
weight	2.3 kg

Environment Requirements

Temperature	**typical:** 0°C to 45°C
Humidity (relative)	5 % to 95 %, non-condensing

Power Requirements

Main power	**Power supply:** 110 to 230VAC; max 80W or 12VDC (optional)

Communications

Computer interface	USB port or serial RS-232 (optional)
Electrical interface	TTL & Relays or connection to analytical equipment or other peripherals

System Requirements

Operating system	Windows XP, Vista, Windows 7
Software	**TTD-Terminal for the full cycle:** collecting, post sampling, desorption, injection, cleaning and cooling

Options	Safety Class	Warranty
Headspace-Autosampler	Compliant to EN292 part 1 & 2, EN294, EN61010-1, EN1050, EN60204-1, EN55011 G1 CB, EN50270, EN61326	12 months

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