

AUTOTRAC 101 ACCESSORIES



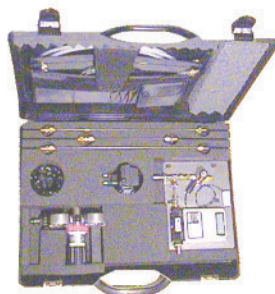
BASIC ACCESSORY KIT

consists of a Carrier gas regulator for P5 (95% Argon, 5% Methane) in ECD quality, 10 m carrier gas tubing to extend the distance between carrier gas bottle and AUTOTRAC.



INJECTION GAS KIT

consists of a SF₆ Gas Regulator (single stage), 300 syringes (50 ml) for sampling (5 boxes with 60 syringes each) incl. caps and labels, 10 spare needles for AUTOTRAC's front port, various fittings and 100m PE-Injection tubing (6 x 1 mm).



FLOW RATE ASSESSOR KIT

consists of an electronic mass flow meter, which can be read by AUTOTRAC (selectable flow ranges available from 0-10, 0-20, 0-50, 0-100, 0-200, 0-500 ml/min; 0-1, 0-2, 0-5, 0-10, 0-20, 0-30, 0-40 l/min based on the medium *air* or *nitrogen*; 2 % accuracy of reading within 20-100% of measurement range; temperature range 15-25°C, pressure range 0,4 - 4 bar), Power Supply, a Solenoid Valve, which can be controlled by AUTOTRAC and a Metering Valve with Vernier Handle, mounted on an aluminum base plate with connection assembly to a tracer gas bottle; 3 Stainless Steel Injection Stingers for Ducts (35, 25 und 13 cm Lengths)

5-PORT AUTOMATIC TRACER GAS INJECTION UNIT

Using the 5-Port Injection Module together with AUTOTRAC one can perform automatic multi-zone measurements in rooms, air ducts or stacks. At the same time sensors can be connected to the injection unit to monitor ambient conditions like wind speed and direction as well as ambient and room temperatures. The injection unit provides a total of 26 analog channels; each channel can be individually configured for thermistors, mass flows or sensors with 0-5V output.

The Injection Unit consists of five electronic mass flow meters (with user-selectable flow rates), 5 Solenoid Valves, 5 Metering Valves for manual adjustment of flow rates and 5 Status Input channels. Each injection channel has its own gas inlet and outlet connectors, i.e. each channel can be operated with another tracer gas concentration and injection flow rate. The status input channels can be connected to flow sensors, which are e.g. placed in air ducts and allow a termination of tracer injection in case the HVAC system is shut down; the status channels are a safety feature.

AUTOTRAC reads the tracer injection flows, stores them and calculates the Air Change Rates and/or volume flows. To make use of the 5-Port Injection Unit AUTOTRAC should be equipped with the 8-Port Automatic Sampling Module.

RUGGED SHIPPING CONTAINER FOR AUTOTRAC

This shipping container is specially designed for AUTOTRAC transport. It contains 2 side compartments to store cables, a pressure regulator and spare parts.

Dimensions: 68 x 57 x 29 cm (W x D x H)

CALIBRATION GAS SF₆ AND PFT IN ULTRAPURE AIR

The calibration gases come in lecture bottles and can be directly mounted into AUTOTRAC 101.

Technical Data:

Content: 900 ml; Dimensions: 78 mm Diameter, 385 mm height incl. valve

Connector: 1/8" Swagelok; Weight: 1.040 gr; pressure: 18 bar

available SF₆ concentrations: 33,0; 102,1; 294,7; 507,0; 848 ppt; 1,561; 4,94; 10,25; 24,03; 45,9; 70,4; 100,3 ppb; 2% certified accuracy, traceable to NIST.

PFT calibration concentrations available for PDCB, PDMCH, PMCH as single component or in a TriGas mixture. Please consult TRACERTECH for available concentrations.

TRACERTECH GMBH

Hardtstr. 19

D-88090 Immenstaad a.B.

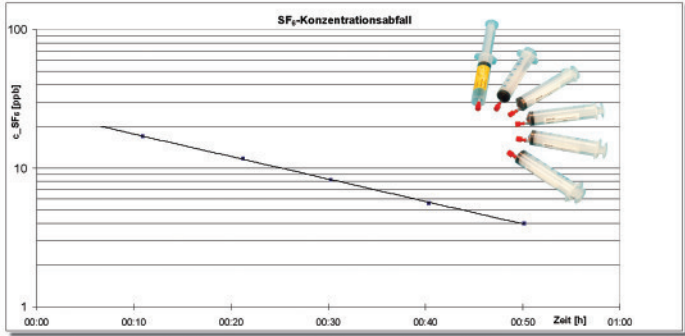
Tel.: +49-(0)7545-9411-0; FAX -29

Email: service@tracertech.de

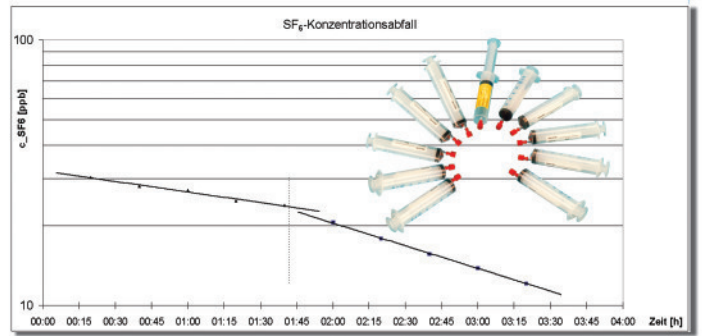
www.tracertech.de

Technical specification subject to change

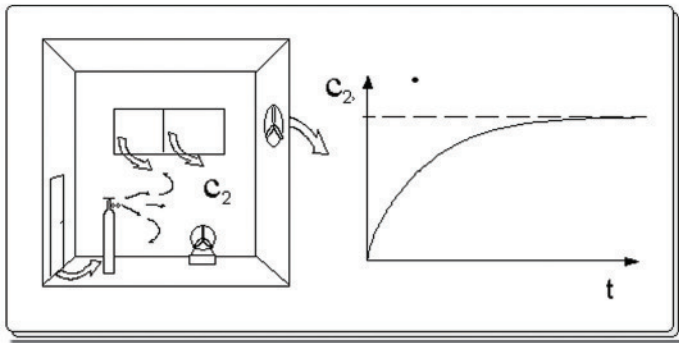
TRACER GAS TECHNIQUES



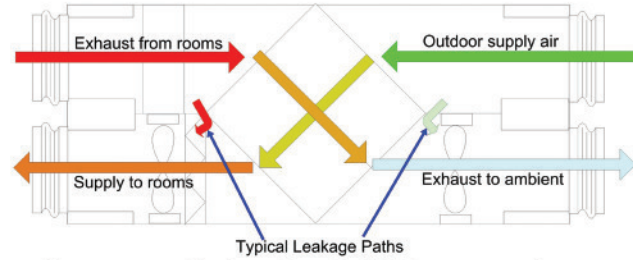
Air Exchange Rate Measurement (Decay-Method) in rooms, apartments, or dwellings; injection and sampling using syringes (Basic ACR Kit)



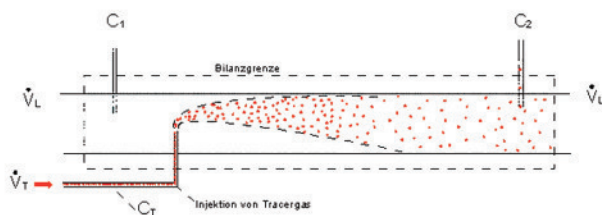
Measurement of two ACRs at varying ventilation conditions (Combi-ACR-Kit)



Measurement of the flow performance of a mounted exhaust fan (Step-up method)

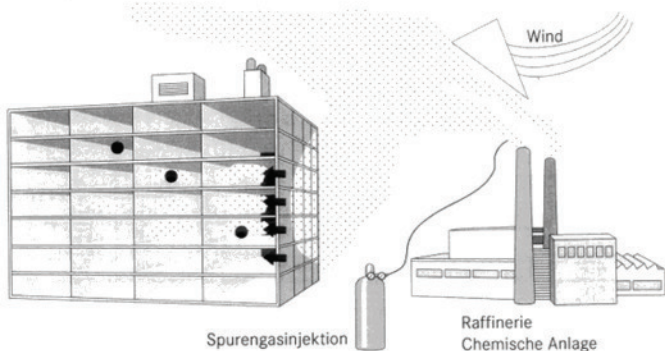


Measurement of leakage flows in HVAC systems and recuperative heat exchangers



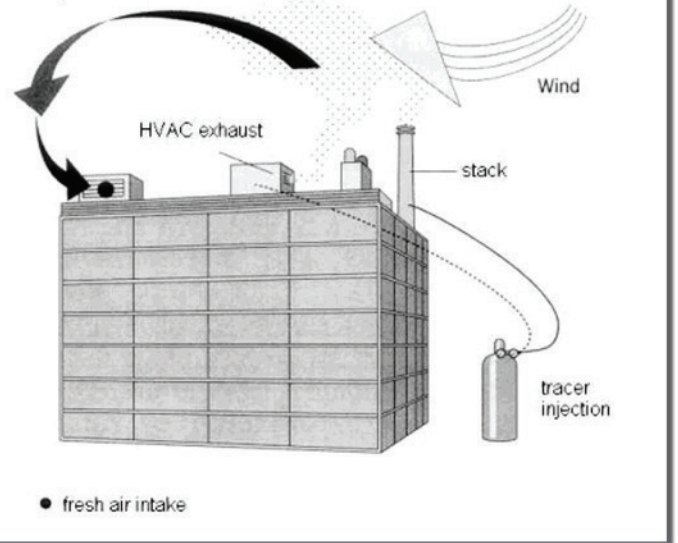
Measurement of volume flows in air ducts, tunnels and stacks

Welcher Raum ist der sicherste bei einer Störfallsituation?
Wie lange ist der Raum bewohnbar?

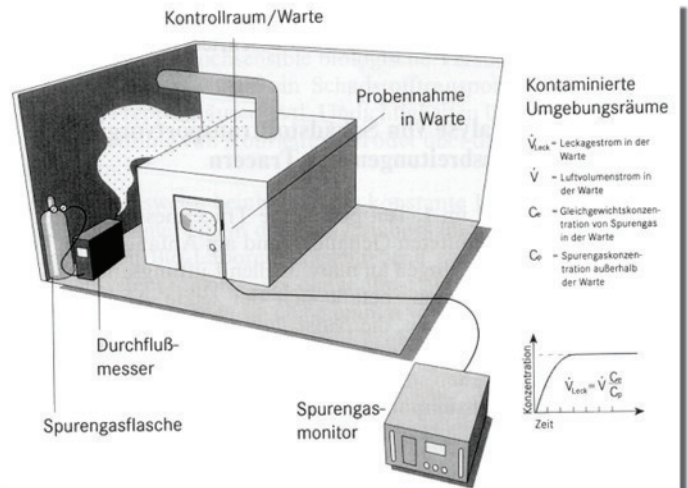


• Probenahme

Measure the dispersal of stack fume gas within the environment and its infiltration into buildings

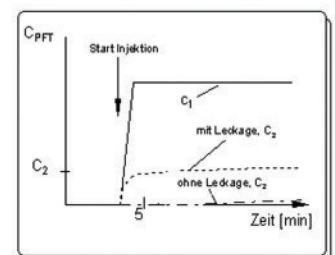
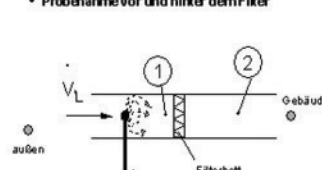


Re-entrainment measurement of stack flue gas or exhaust air from the HVAC system back into the building



Check of the integrity of command control rooms, operation theaters safe havens and shelters, etc..

- Konstante PFT-Injektion im Zuluftkanal
- Probenahme vor und hinter dem Filter



Check of adsorption filters with respect to bypass flows and filter break through in nuclear power plants, NBC-shelters, chemical process facilities, biological laboratories, etc.