Application Report
Flow Sensors

Laboratory exhaust air

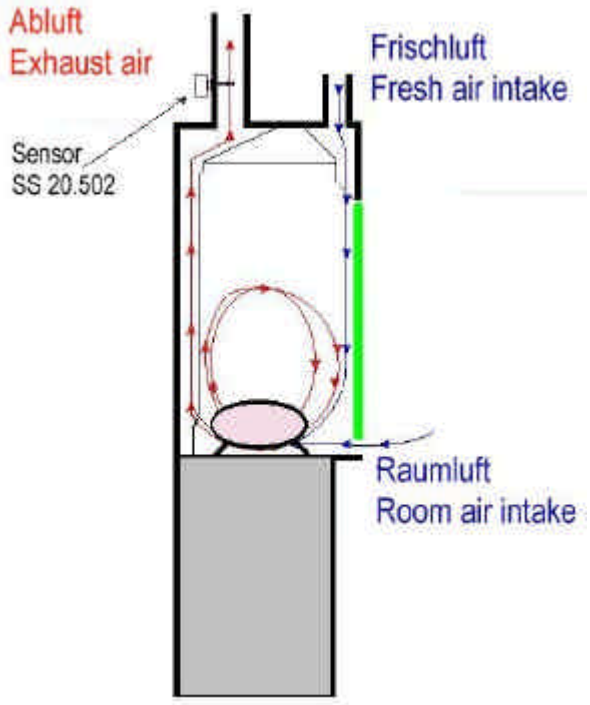
Description of the application:

The work with dangerous material in laboratories take place in closed lab cabinets in order to protect the workers.

The air will be sucked off the lab cabinet permanently to prevent harmful substances from seeping into the working area. The quantity of the sucked off air will be adjusted to avoid energy waste and draught.

To avoid dangerous situations when exhaust air is too low, the exhaust air flow is monitored permanently with **SCHMIDT** Flow Sensors.

.



Function of the Sensor:

Measuring of the volume flow or air velocity of the contaminated air sucked off.
(measuring range from 0,1 to 1 m/s)

Sensor type used:

SS 20.502
0..1 m/s 160 mm
0..20 mA

Location of the Sensor:

direct in the exhaust air duct

Reason to choose a SCHMIDT Sensor:

- ☑ measure smallest air velocities
- ☑ Sensor resistant against chemicals
- ☑ Precise measurement with high repeatability
- ☑ Linear output signal
- ☑ Built-in signal converter

Branch:

Plant construction / laboratory technologie

SCHMIDT Technology GmbH ᛪ **78112 St. Georgen** ᛪ **Germany** ᛪ **Tel. 07724 / 8990** ᛪ **Fax 07724 / 899101**