

# HovaCAR

Activated carbon filter test system



Evaporative control systems in vehicles serve to reduce and control emissions of hydrocarbons that would otherwise pollute the atmosphere.

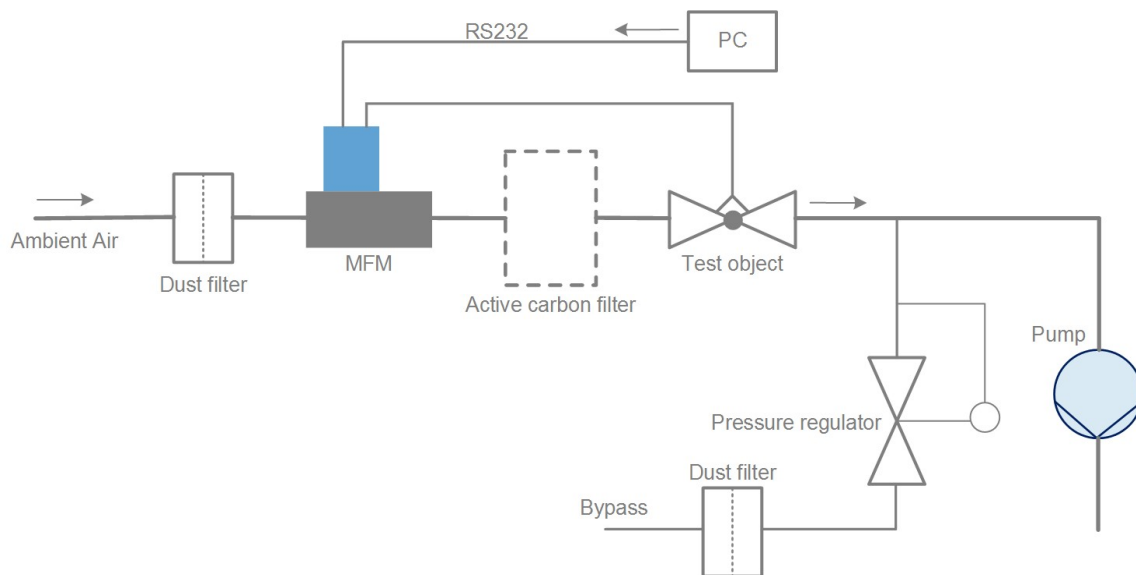
### Technical Advantages

- ✓ Generation of a dynamic suction profile
- ✓ Transfer of suction profile
- ✓ Editing of suction profile
- ✓ High dynamic performance
- ✓ Flow range up to 60 l/min
- ✓ Recording and setting of vacuum pressure
- ✓ Simultaneous recording of differential pressure and temperature
- ✓ Customized recording of parameters
- ✓ Compact set-up

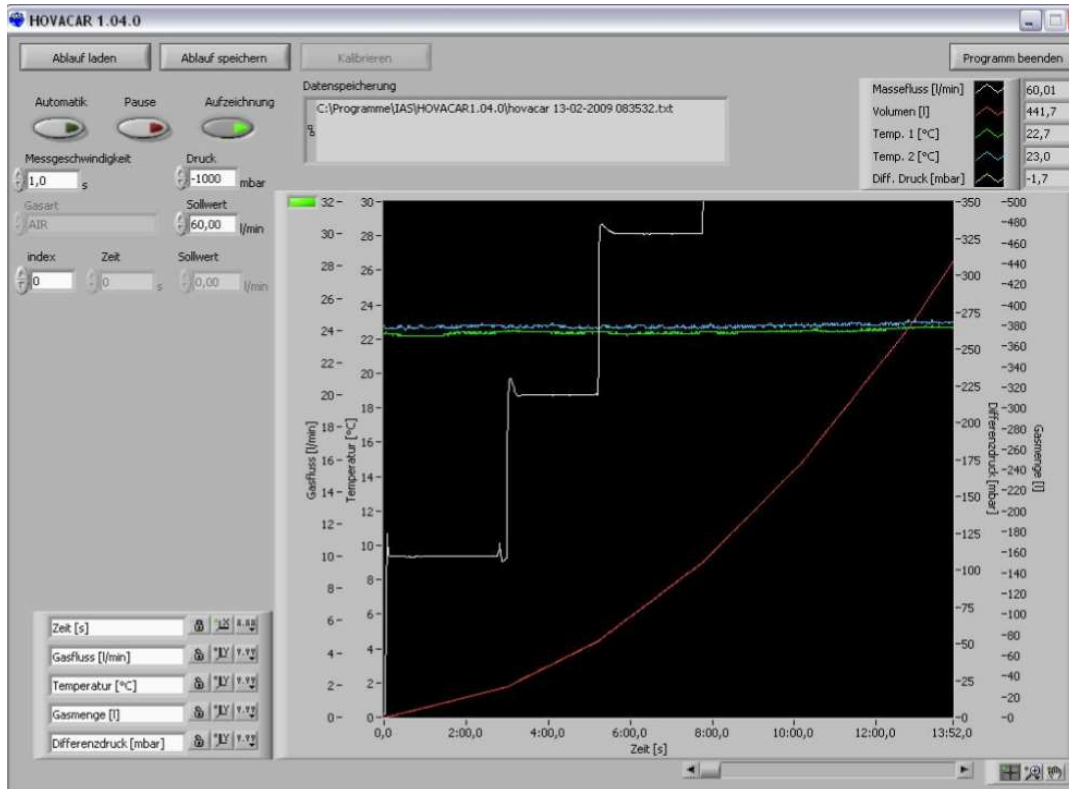
### What is HovaCAR?

HovaCAR takes records of the regeneration suction profile. Moreover it generates a suction profile for defined flushing according to recorded suction curves.

For this purpose ambient air is pulled through the ACF by a gas pump and regulated by a mass flow controller. Through a bypass and a pressure regulator, ambient air is fed into the ACF in order to keep the vacuum constant and adjustable. A temporal recorded profile of the gas flow may be simulated using the control software. The differential pressure and temperature may be recorded simultaneous.



HovaCAR



User Interface viewCAR

## Operation

The software may be operated either in record or in operation mode. In both modes, the following settings and functions may be selected:

1. Adjustment of the flow rate within seconds
2. Data saving: To each temporal value, the measured flow through and integral gas volume as well as vacuum pressure and temperature is assigned
3. The appropriate gas may be chosen from the internal gas library, e.g. air with different moisture content. A calibration menu helps to the creation of the gas library.
4. Generation of a trend diagram for the graphical presentation of the temporal development of set point and actual value.

## Specification

### Adjustable parameter

Process run time	variable
Gas flow	max. 60 Liter/min (other flow rates on request)
Data acquisition rate	1 /sec

### Dynamic behavior

Warming-up time	30 min
Gas connection	12 mm press fitting and quick connect

### Supply

Air	dry (< 40 % r.H.), dust free
Voltage	110 or 230 V, AC, or 12 V DC with ACDC-converter
Power	max. 120 W

### Portable case

Dimensions	approx. 535 x 210 x 500 mm (wxhxd)
Weight	approx. 18 kg
Ambient temperature	5 °C – 40 °C
Ambient humidity	< 40 % r.H., avoid condensation!



Vacuum Pump