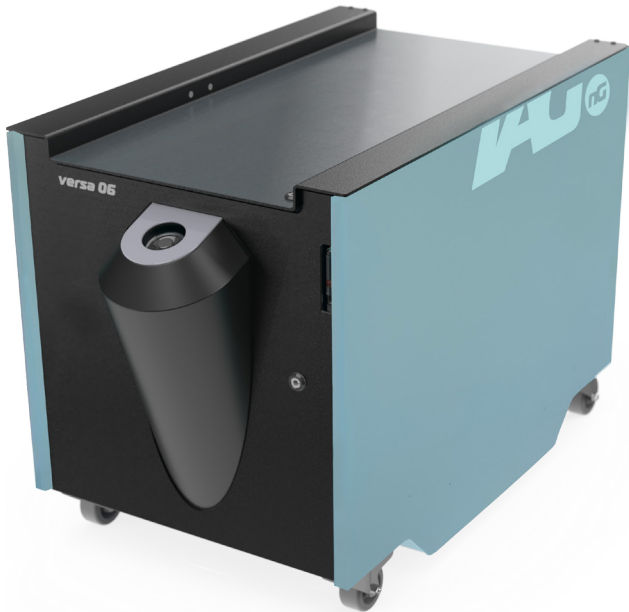


versa06 Compact

FTIR ANALYZING SYSTEM



Easy Charging for
Automatic LN2 Refill

mks inside



The new versa06 Compact offers precisely what its name suggests:

All the proven capabilities of the original versa06, but in a sleek and more compact design.

The new Versa06 Compact is - as the name reveals - a new version of the proven Versa06 with the same footprint, but a height of only 730mm rather than 1240mm.

The idea was to create a FTIR only system and to dispense the possibility of an integration of additional analysers later on.

This concentration on the FTIR results in a very sleek design which is a lot more compact in dimensions and a new milestone in service friendliness.

The Versa06 Compact is designed as a low-pressure system, which means it does not require a heated sample gas pump.

The most common options of the standard Versa06, like automatic liquid nitrogen refill and software adjustable sample gas flow are also available on the Versa06 Compact.

Calibration:

The systems comes with the latest IAG-ng low pressure calibrations as standard.

All IAG-ng customers have unlimited and free of charge access to the latest version of calibrations and methods.

The calibrations are stored on the system and will be checked annually.

On request we will gladly submit a current gas list.

Gas Feed:

Optimised gas flow within the device plays a central role in the detection of components that are hard to measure.

Optimized gas flow without any cold spots as well as closed loop control for pressure and temperature in the gas cell are the base for the precision of the system. The measuring rate of 5Hz combined with corresponding high flow ensures high dynamic measurements.

Communication and Operation:

Standard communication is via the AK interface.

The system is equipped with an operation interface which provides all required channels (monitor, keyboard, mouse) on a single CAT5 port.

Scope of delivery also includes a receiver which splits the signal on separate ports on the operators side. Monitor, keyboard and mouse can be connected to the receiver on standard connections (HDMI, USB). Monitor, keyboard and mouse can be ordered optional.

Furthermore the system offers a standardised maintenance interface which allows to connect a computer with installed IAG-ng operation software via remote desktop.

Safety:

Reliable use of the FTIR technology requires new overall concepts of FTIR analyzing systems. The **IAG nG versa06** includes a safety system which protects the device from damage in case of an interruption of the voltage or purge air supplies by full automatic purging.

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Sampling:

The versa06 Compact has no internal filter and has therefore to be used in conjunction with a VFS-LP.

This prefilter incorporates a backflushable IAG nG filter chamber and all the functions of a standard VFS.

It can be equipped with up to 6 gas inlets, has an exhaust gas pressure regulator for up to 6 bar inlet pressure and fulfills all requirements to comply with EPA regulations.

On top of that it is equipped with a FTIR safety purge function and, optional, with a sample gas flow control valve..



Service:

We take care of our customers with individually tailored maintenance solutions. Our offering ranges from full service contracts covering all running costs to servicing by the user who, thanks to the IAG nG modular system, can carry out all maintenance work himself quickly and easily. Capable care and optimum support are 'givens' for our customers.

Detectable Components Overview:

1,3 Butadiene	C4H6	Nitric oxide	NO
Acetaldehyde	MECHO	Nitrogen dioxide	NO2
Acetylene	C2H2	Octane	NC8
Butane	C4H10	Propylene	C3H6
Toluene	C7H8	Sulfur dioxide	SO2
Methane	CH4	Propane	C3H8
Carbon monoxide	CO	Diesel	HCD
Carbon dioxide	CO2	Sulfuric acid	H2SO4
Carbonylsulfide	COS	Sulfur trioxide	SO3
Ethane	C2H6	Urea by-product	CH4N2O
Ethylene	C2H4	NonMethanHC	NMHC
Formaldehyde	CH2O	Sulfur Hexafluoride	SF6
Formic acid	CH2O2	Benzene	C6H6
Water	H2O%	Ethanol	C2H6O
Isocyanic acid	HNCO	MTBE	C5H12O
HNO2	HNO2	Pentane	C5H12
MeOH	CH4O	Cyclohexane	C6H12
Nitrous oxide	N2O		
Ammonia	NH3		

Advantages

- + Precise Closed Loop Gas Cell Pressure Control
- + Short Gas Lines
- + High Dynamic
- + Automatic LN2 Refill
- + Easy Operation and Maintenance
- + Precise Measurement
- + 5 Hz Sampling Rate
- + Flexible Setup
- + Low Operating Costs
- + Fixed Calibration
- + Automatic Leak Check
- + Software integration of prefilters

Options

- Software adjustable sample flow
- Automatic liquid nitrogen refill
- Cooler for high ambient temperature
- Quick connect heated line
- Internal ceramic coating
- EPA 1065 routines
- 2% calibration of main species

Technical Data

Dimensions:	1240 x 610 x 750 mm
Sampling Rate:	1 Hz / 5 Hz
Sample Flow:	8-10 l/Min
Sample Flow 5Hz:	20-25 l/Min
Sample Flow Adjustable:	2-15 l/Min
Sample Flow 5Hz Adjustable:	5-25 l/Min
Purge Gas:	Nitrogen 5.0 or Purified Air
Detector:	MCT
Gas Cell:	5.11 m Path Length, 200 ml
Spectral Resolution:	0,5 cm ⁻¹
Gas Cell Temperature:	190 °C
Compressed Air Supply:	5 bar, Dry and Oil-Free
Power Supply:	400 V / 16 A CEE