

QFID-100HR

QUMA

The analyser with many advantages:

- Fast
- High precision
- Easy to handle
- Without sample preparation
- Easy to calibrate by yourself anytime!

Short description:

The QFID® - 100 HR measures automatically samples of all kinds. He includes both, a headspacesampler and a gas chromatograph. Fast, reliable and with a very high precision the samples will be analysed. The instrument can separate 18 most important solvents (the analyse of different solvents is possible). A complete analyse of a 20ml HSS-vial requires approx. 10 minutes. The results will be printed out in mg/m³, for example. The instrument is easy to handle because of the autosampler. This operation requires no qualified personnel.



The analyses consists of 3 steps:

1. Cut out a defined quantity of the sample (e.g. 50 cm²); and put it into the HSS vial of 20 ml and close it..
2. Put sample in Tray
3. Announce sample in Software and start the analyse

System description:

The QFID® -100 HR integrates a headspacesampler and an EPC gas chromatograph. The headspacesampler works automatically in the system, which leads to a high reproducibility. This system is precise pressure controlled.

The EPC gas chromatograph increases the carrier gas pressure dependent of the retention time.

A special chromatographic column separates all solvents in a special analyse oven.

The oven can be controlled heated between room temperature and 200°C. Only by controlling pressure and temperature, a stabile retention time is possible. The sample, which is separated into the different solvents, gets after the oven to the Flame Ionisation Detector (FID). The FID amplifier sends analogue signals to the PC, where you can see the result.

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For the analyses, those are the most important components. Analyses of other different components are possible, but is here not further described

- Petrol
- Acetone
- Ethylacetate
- IPAC
- MEK
- Methanol
- Iso-Propanol
- Ethanol
- n Propylacetate
- MIBK
- Toluene
- n-Propanol
- n Butylacetate
- iso-Butanol
- 1-MP-2 (Dowanol PM)
- N-Butanol
- 1-EP
- 1MPRAC
- Ethylglycol
- Ethylglycolacetate
- Methoxybutanol
- Butylglycol

The QFID® - 100HR consists of the following elements:

- Operation with only one push of a button
- All regulators are behind a transparent closed cover (work requires no specialists)
- FID- detector with own temperature control
- Heating system for the HSS sample vials, up to 200°C for 16 different samples
- An automatically gas sampling valve with heated transfer line
- Easy interchangeable sample loop
- Column with pressure-programming at carrier gas
- Microprocessor for all time controlling with display and keyboard

We offer you a complete system with those components:

- QFID® - 100 HR with auto sampler
- Integrator on a PC
- Air preparation with filter
- All spare parts for the first 1000 analyses with septa
- Hand crimper tool
- Injection needle
- Installation, instruction and system check

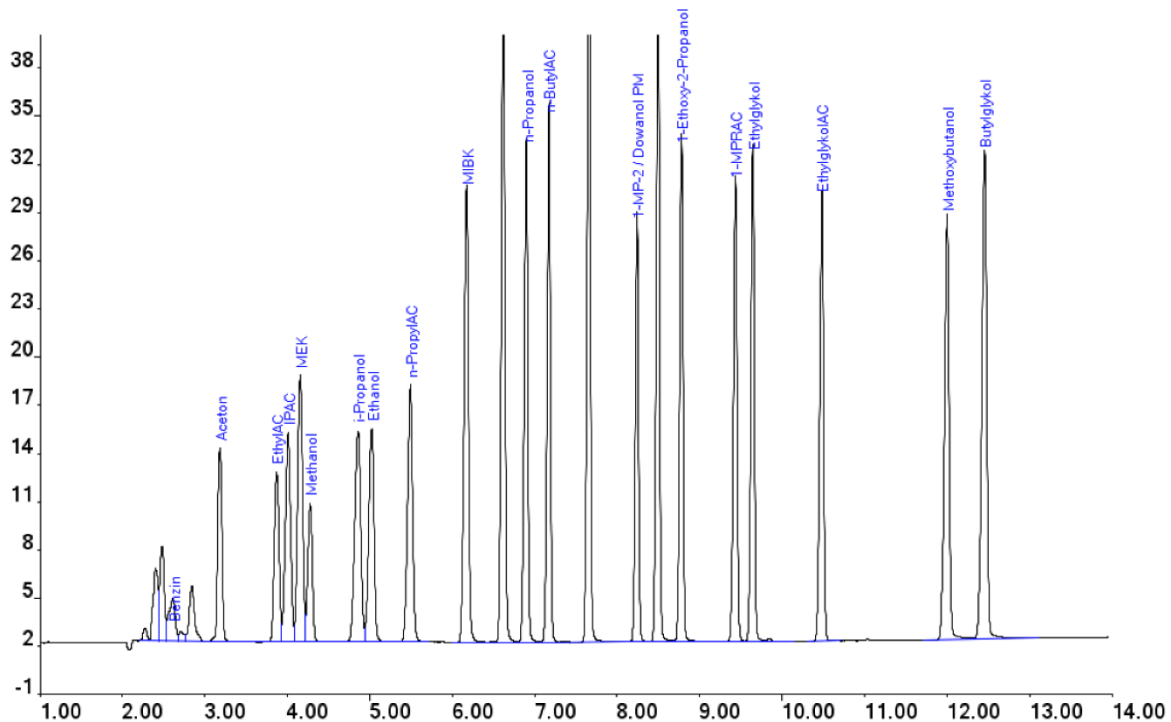
Order no.: Q600.550

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Requirements to work with the QFID® - 100HR:

- One meter place on a table
- Pressed Air minimum 2 bar max. 8 bar
with output fitting diameter for 3mm (1/8"; 1/16") tube
(we need approx. 300 ml/min and we install an air cleaning system by installation)
- Nitrogen 10 m³ in quality 99.996% with pressure reducer and
with output fitting diameter for 3mm (1/8"; 1/16") tube;
3-4 bar (we need approx. 30ml/min) max input pressure 5 bar
- Hydrogen 10 m³ in quality 99.9% with pressure reducer and
with output fitting diameter for 3mm (1/8"; 1/16") tube;
3-4 bar (we need approx. 30ml/min) max input pressure 5 bar
- Power supply: 230 V ±10%; 50Hz ± 3%; 600VA
- Temperature: 4°C - 25°C
- Humidity: 30% rH - 90 % rH



A calibration run with 22 different solvents (here named in German language).

A list of all calibration standards is available on our website (downloads)

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