

# CryoFocus 3

*Programmable GC Cryo Trap  
compatible with any GC*



## Low Consumption of Liquid Nitrogen

Due to the unique cooling system, CryoFocus 3 uses very little amount of liquid nitrogen. The cooling gas flows through a heat exchanger, which is immersed in a vessel filled with LN2, and cools the trap inside the GC oven. Since consumption of LN2 is very low, changing the vessel is much less necessary.

When a pressurised vessel is available, also direct cooling with LN2 is possible.

## More flexibility and precision

The CryoFocus 3 widens the range of applications by trapping and refocusing volatile compounds efficiently due to its fast, programmable cooling and heating system.

## Increase of sensitivity and speed

With the CryoFocus 3 cold trap it is easy to analyze volatile and less volatile compounds. Sharp, narrow peaks on the chromatogram are the result of an analysis with the CryoFocus due to the extreme fast heating rate of 50°C/sec.

## User-friendly operation

The CryoFocus 3 is easy to install on any type of GC. The universal installation kit is available. Due to its clear and structured control software and user manual, operation of the system is also very simple.

## Evolution Workstation Software

- Real-time system status and parameter display
- Method definition and development
- Automatically generated optimisation sequences
- Direct control of the instrument
- System run log file
- Password protection with two access levels
- On-line help

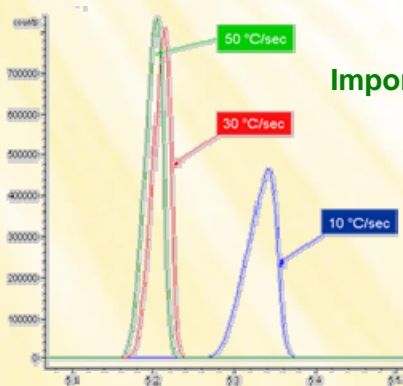
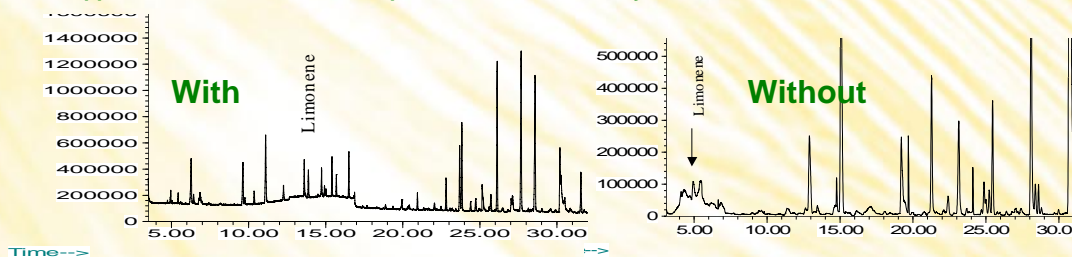
## CryoFocus is available in two different versions:

- Integrated within the OPTIC 3
- Stand alone control unit compatible with any GC

## Specification

<b>Cryogen:</b>	direct or indirect LN2 also CO2 can be used from -70 °C
<b>Consumption cooling gas:</b>	7 to 10 l/min
<b>Cool down time:</b>	2-3 minutes
<b>Temperature range:</b>	-150 °C to 350 °C
<b>Heating ramp rate:</b>	1 to 50 °C/sec
<b>Heating system:</b>	3 V DC, 15 W max
<b>Standby temperature:</b>	-150 °C to 350 °C
<b>Analysis time range:</b>	0 sec to 120 min
<b>Operating modes:</b>	manual or automatic
<b>Dimensions:</b>	
<b>Control box:</b>	L 26 x W 14 x D 24 cm
<b>Trap:</b>	ø 34 mm, 115 mm long
<b>Weight control box:</b>	10.0 kg
<b>Display:</b>	20 characters x 4 line LCD,
<b>Power requirements:</b>	80 VA

### DMI application for Limone in Shampoo with and without CryoFocus:



### Importance of cryotrap ramp rate

a total analytical solution

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