

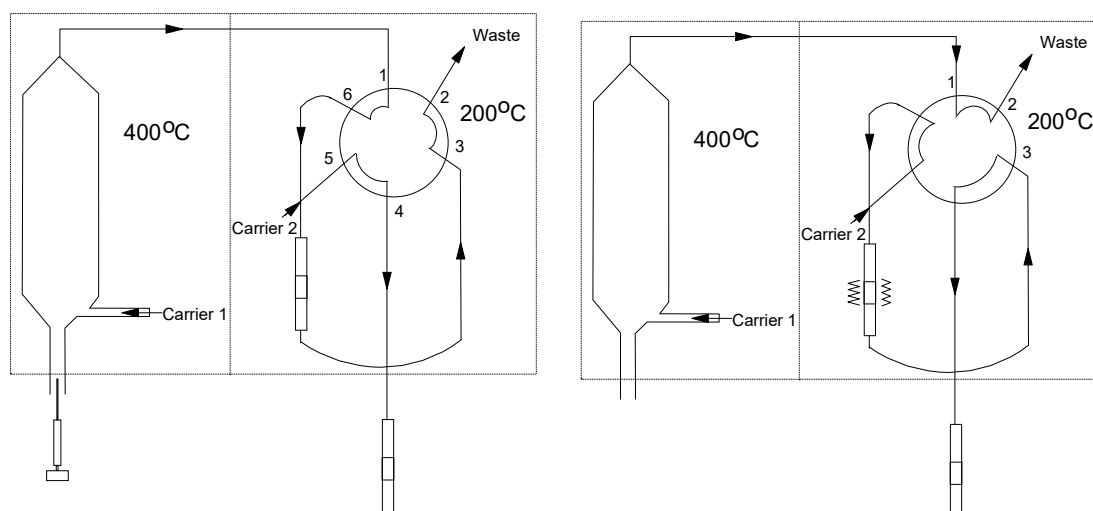
PSA 10.515 Liquid Sampling System for Sir Galahad

Product Specification



Principles of Operation

PSA has developed a novel, yet reliable procedure for determining mercury in liquid hydrocarbons. Hydrocarbon samples are injected into a specially constructed vaporisation chamber held at 400°C. Normally 5-10 minutes is required to vaporise the sample completely. The vapour is continuously swept by argon carrier gas through the heated trap at 200°C, in its vapour phase, away from the trap and directed to a waste collector or fume extractor. The mercury adsorbed on the Amasil™ Trap is then released as elemental mercury by heating to 900°C and swept to second tube which is subsequently analysed by dual amalgamation atomic fluorescence spectrometry (PSA 10.525 Sir Galahad). The sequence of events is shown below:



Sample Types

The PSA 10.515 mercury Preconcentration unit was designed for use with volatile liquid hydrocarbon samples such as naphthas and gas condensates. In order for the system to work correctly the samples should have a boiling point not greater than 250°C and be free from any particulate or solid material.

www.psanalytical.com

PSA

P S Analytical

UK: Tel. +44 (0) 1689 891 211

USA: Tel: +1 954 429 1577

SEA: Tel: +61 (0) 428 226 674

E-mail: psa@psanalytical.com

E-mail: usa@psanalytical.com

E-mail: sea@psanalytical.com

Detection Limits

The detection limit will be dependent mainly on the reproducibility of blank measurements, sample dilutions and the sample volume introduced. The typical sample volume injected is 200 μ l. In principle up to 1000 μ l can be introduced as a maximum volume. In this instance detection limits as low as 0.1 ng g⁻¹ can be obtained.

System Specification

Dimensions:	W= 450mm	D=320mm H=270mm
Packed Weight:	25Kg	
Power Supply:	1000VA	110/230V Switchable

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