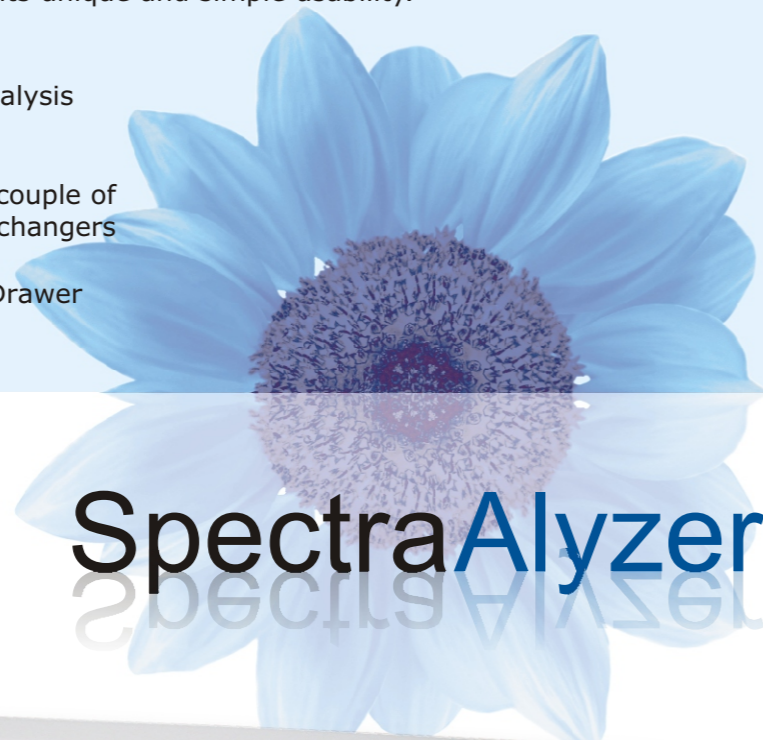


FluiDrive

The SpectraAlyzer with Liquid Drawer and FluiDrive is the perfect tool for high precision liquid NearInfraRed (NIR) analysis of low to medium viscosity liquid samples like wine, spirits, edible oils, and many more. The FluiDrive is an optional compact device that can be placed directly underneath any SpectraAlyzer and contains pump units for the sample loop and heat transfer liquid loop for thermostating the liquid cell. The FluiDrive mainly serves as a thermostating device for the sample liquid and the liquid cell utilising a high power peltier device in combination with an intelligent microcontroller. The FluiDrive is directly interfaced to the SpectraAlyzer and can be controlled by the embedded SpectraAlyzer software with its unique and simple usability.

- for temperature controlled liquid analysis (e.g. wine, spirits, oil)
- precise temperature control with a couple of high capacity peltier driven heat exchangers
- for use in combination with Liquid Drawer
- compact and easy to clean
- simply retrofits any SpectraAlyzer



Features

The FluiDrive as an "intelligent" accessory for the SpectraAlyzer is equipped with one speed controlled peristaltic pump delivering the sample fluid and one centrifugal pump delivering the heat-transfer medium to the liquid cell inside the Liquid Drawer. The body of the liquid cell itself is designed to be thermostated by connecting a heat-transfer medium. A PT 100 sensor connected to the FluiDrive constantly monitors the temperature inside the sample chamber of the liquid cell. Both sample and heat-transfer medium are set to their required temperatures by flowing through individual heat exchangers that are peltier heated/cooled.

In order to maximise the thermal stability of the system, the heat-transfer medium is held in an isolated internal reservoir that also makes up for any loss of media over the time.

The integrated micro controller monitors pump speeds, temperatures and interfaces to the SpectraAlyzer embedded software that facilitates the interactive control of all FluiDrive functions.

All liquid port connections are durable and self closing when connector plugs are pulled out. Furthermore all liquid ports are marked with a printed coding to prevent the user from setting up wrong liquid connections.

Maintenance and cleaning is a simple task due to the easy accessible drawer of the FluiDrive.



Technical Data

Power supply 60 W, 90-240 V

Synchronisation to SpectraAlyzer before and during NIR measurement

Mode of operation indicated by front LEDs:

Status display:

- green - Temperature set and ready for analysis
- red - Error
- yellow - Power indicator

temperature control: 5-60 °C ± 0.1 °C (sample loop, heat-transfer medium loop)

the same environmental conditions as specified for the SpectraAlyzer apply

Order No.:
10225

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