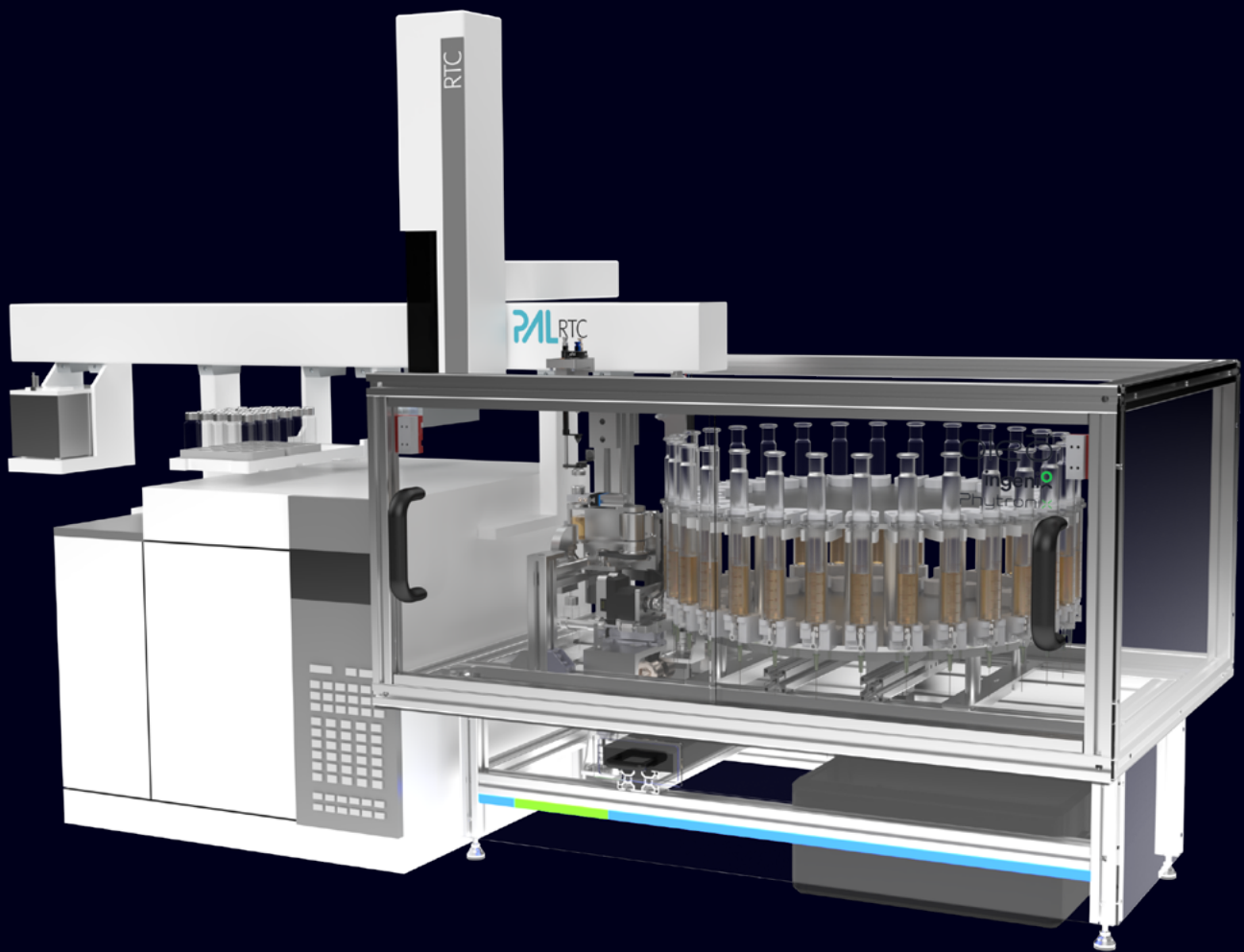


oleo

Automated GC sample prep of dissolved gas-in-oil



Phytronix

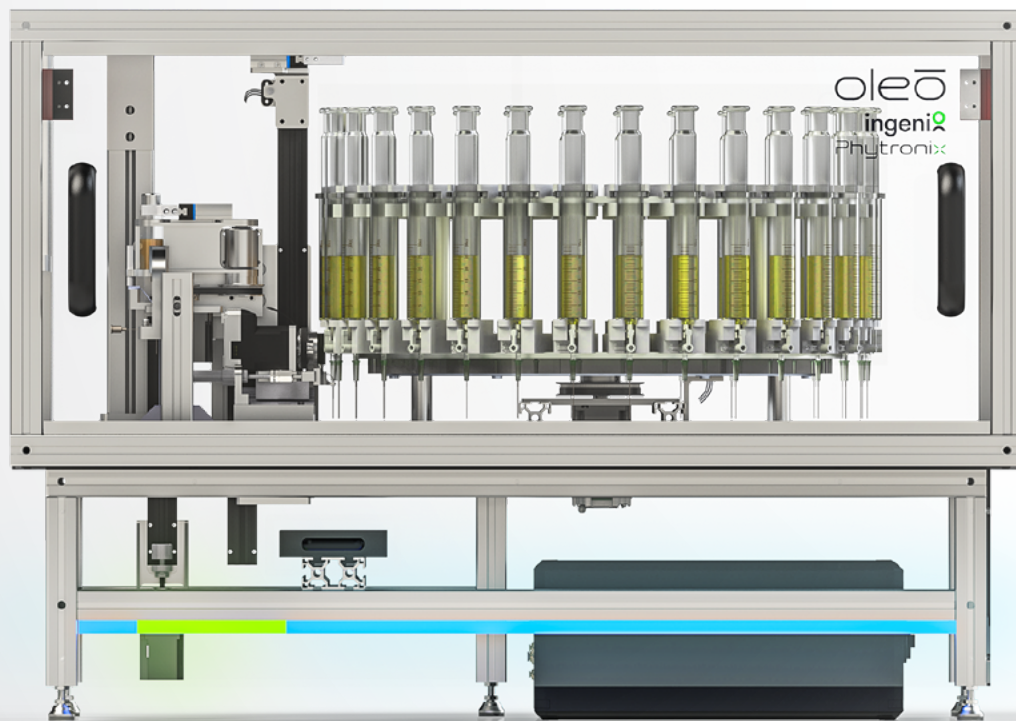
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oleo

Automated GC sample prep of dissolved gas-in-oil

Dissolved gas-in-oil analysis is performed on oil used as an insulator in electrical apparatus. Due to arcing and other reactions, different gases can form, and can thus impair the insulating property of the oil. Critical failure of a transformer may result in up to 20 000 gallons of spilled oil in the environment, and can also cause fires which must be contained and smothered quickly.

The total volume of combustible gases and the rate of their generation may predict the severity of the impending failure of a transformer. Since insulation oil must be tested at least once every 3 years, and more frequently when an incipient fault is detected, a robotic platform was designed to automate this process. In combination with a PAL RTC and a GC-MS system, Oleo allows the automated analysis of 30 samples of oil by headspace, to quantify permanent gases, methane, ethane, ethylene, etc.



Features

- 30 glass syringe carousel
- Helium gas vial purging system
- Adjustable purging time and pressure
- Customizable sample transfer volume
- Adjustable injection volume
- Gas purged injection needle
- Heated injection syringe from 40 to 450°C
- 6-position Agitator
- Agitator temperature range from 30 to 200°C
- Agitation speed 250 to 750 rpm
- Led status bar
- Designed to be interfaced with existing GC, GC-MS, GC-MS/MS
- Easily integrated in existing CDS such as Xcalibur™, ChemStation, MassHunter, MassLynx™ etc.
- Fully controlled via Chronos

Electrical/Gas Specifications

- 120 V~, 60 Hz, 1 A
- RSI: 100-240 V~, 50-60 Hz, 3 A, 200 W (max)
- **Compressed air supply:** 20 - 100 psi
- **Helium supply:** 20 - 110 psi





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