

OPC- 3024i

Oil Particle Counter



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

The OPC - 3024i liquid particle counter is an upgraded version. This liquid particle counter is calibrated and supports multiple detection standards, including ISO 4406 and NAS 1638. It uses IPA(isopropyl alcohol) EL grade as the test medium. IPA (isopropyl alcohol) EL grade is a highpurity (over 99.9%) solvent specifically formulated for cleaning sensitive electronic components, making it ideal for precision cleaning applications. Its key features include ultra-low moisture content, rapid evaporation, and excellent ability to dissolve oil, grease, and fingerprints without leaving any residue or causing electrical short circuits. Users can also set their own detection standards. 24 detection channels provide users with multiple options. It delivers fast, accurate, reliable, and repeatable test results, along with comprehensive contamination monitoring and analysis reports, suitable for particle contamination detection in hydraulic oil, lubricating oil, fuel oil, insulating oil, and turbine oil. It can be widely used in aerospace, power generation, petroleum, chemical industry, transportation, ports, metallurgy, machinery, and automotive manufacturing.

Features :

- Adopting the counting principle of photoresist (shading) method formulated by the International Hydraulic Standard Committee
- High-precision laser sensor with wide testing range, stable performance, low noise and high resolution.
- Adopt high pressure syringe pump sampling mode, can set the sampling volume, stable sampling speed, high sampling accuracy.
- Positive and negative pressure combination of sampling system, can realize the sample degassing, suitable for different viscosity of the inspection products testing.
- Built-in pressure sensor, you can set the pressure value, and automatically determine the air pressure in the chamber to ensure safety.
- Fast Drying: Evaporates quickly without leaving residue, which is essential for cleaning delicate components.
- Non-Conductive: Safe for use on electronic assemblies with no risk of short-circuiting.
- Effective Cleaning: Efficiently dissolves oils, fingerprints, and other contaminants from electronic and precision components.
- Built-in air purification system to ensure that the test is not contaminated
- Built-in multiple calibration curves, compatible with all common domestic and international standards for calibration.

- Supports customized standard testing and grade determination
- Up to 64 testing channels can be set up at the same time according to customers' needs.
- Built-in data analysis system, a test can give all the standards of the test data and contamination levels.
- Built-in viscosity, moisture and temperature sensor module,in the accurate testing of particle distribution at the same time to provide viscosity, moisture content saturation and ppm values and temperature reference values (optional)
- Any particle size can be set,with 9999 built-in particle sizes for easy particle size analysis.
- A variety of sampling containers such as standard sampling bottles or sampling cups can be used to meet the testing requirements of different industries
- Full-featured automatic color touch screen operation, support for English interface, easy to operate
- Single-channel and multi-channel calibration can be carried out to realize the automatic calibration function.
- With RS232 interface,can be connected to a computer or laboratory platform for data processing.
- With massive data storage, printing function, can store 1000 groups of data and support U disk storage data.

Application Scenarios:



Technical Parameter:

Light source	Semiconductor laser
Particle size range	0.8μm~600μm (calibrated according to 1~100um or 4~70u m(c))
Detection channels	8~64 channels optional, arbitrary setting of particle size
Sensitivity	0.8μm (ISO4402) or 3μm(c) (ISO11171)
Resolution	<10% (ISO11171)
Repeatability	RSD<2%
Sample detection viscosity	≤650cSt (viscosity is too large can be combined with heating or dilution method detection)
Sampling volume	0.2~1000mL, interval 0.1mL
Sampling accuracy	better than ± 0.5%
Sampling speed	5 ~80mL/min
Pneumatic chamber	Positive and negative air pressure chamber device, to realize sample degassing and high viscosity sample detection
Maximum vacuum of air pressure chamber	-0.08Mpa
Maximum positive pressure of air pressure chamber	0.8 Mpa
Maximum particle concentration	12000~40000 particles/mL
Power supply	110~245V AC, 50Hz, 70W
Overall Dimension	340mm*410mm*650mm
Net weight	25kg

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments/Renting Services Modules like pumps,detector etc. on Rent.



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LCMS



Automated Prep-Flash Chromatography system



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Optima Gas Chromatograph



Flash Chromatograph



DAC Column



GCMS 3068



UHPLC



HPTLC



Ion Chromatograph



Production HPLC



HPLC



Column



DLS



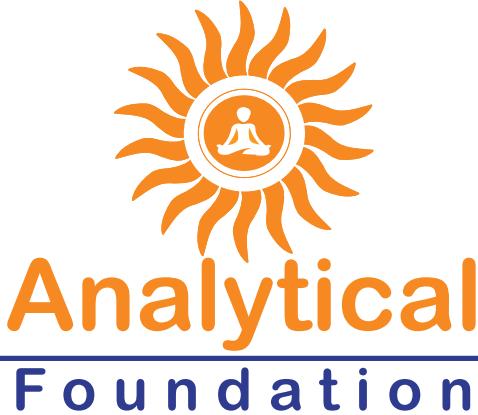
Water purification system

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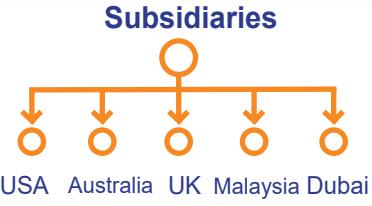
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