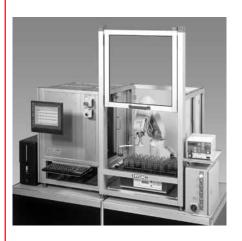
GYDAD INTERNATIONAL



Description

The Automated Laboratory Particle Counter ALPC 9000 is a fully automatic laboratory particle measurement system for hydraulic and lubrication oils.

Very short measuring times permit analysis of up to 500 samples per day.

Different versions of the ALPC offer either automatic sample feed by means of 5-axis robotic arm (batch processing) or manual sample feed of individual sample bottles.

Applications

Laboratories

Advantages

- Automatic and monitored processing of measurement and rinsing cycles.
- Rapid sample analysis due to very short cycle times for measurement and rinsing.
- Excellent repeatability of the measurement results by means of replicated testing.
- Only small sample quantities are required (≈ 50 ml).
- User-friendly operation and graphical evaluation of the results through the use of ALPC Desk software.
- Calibrated to ISO11171 and ISO4402: consequently analysis according to NAS 1638 is also possible.
- "All-in-one" system including PC, keyboard and monitor. Robotic arm available as an option.
- Bar code scanner compatible.

Automated Laboratory Particle Counter

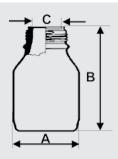
ALPC 9000 Series

Technical specifications

Continuous display and error indication on the PC		
ISO 0/0/0 23/21/18		
Particle size		
5, 10, 15, 20, 25, 50, 75, 100 μm 4, 6, 10, 14, 18, 21, 38, 50 μm _(c)		
10 25 ml (min. sample bottle volume: 50 ml)		
30 ml/min		
≈ 75 seconds (excluding sample feed)		
Hydraulic and lubrication fluids based on mineral oil		
See Page 2 "Services required on site"		
≈ 50 ml / sample bottle		
1 320 mm² / s		
0 50 °C, 32 122 °F		
6.5 8 bar, 100 l/min		
2000 W max. (230 V, max. 8.7 A)		
10 45 °C, 50 113 °F Depending on rinsing fluid. Higher temperatures possible on request.		
0 70 °C, 32 158 °F		
Max. 90%, non-condensing		
ALPC 9000 -1: ≈ 100 kg ALPC 9000 -2: ≈ 160 kg		

Equipment

	ALPC 9000-1	ALPC 9000-2
Automatic measurement	~	~
Automatic rinsing	~	~
PC/Monitor/Keyboard	~	~
Individual sample bottle feed	~	~
Multiple sample feed of up to 50 samples on pallet		~
Sample bottle shaker		~
5-axis robotic arm		~
ALPC Desk software	~	~
Degassing function incorporated into robotic arm		~
Prepared for upgrade to ALPC 9000-2	~	
Bar code scanner compatible	~	~



Sample bottle dimensions (other dimensions on request)

Α	В	С	ALPC 9000-1	ALPC 9000-2
< 52 mm	60 90 mm	25 35 mm		~
< 75 mm	60 90 mm	25 35 mm	~	

 $A > \frac{B}{2}$

Services required on site *

- Supply voltage

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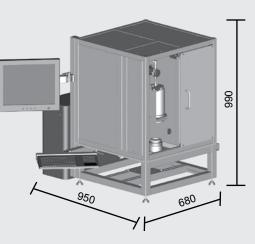
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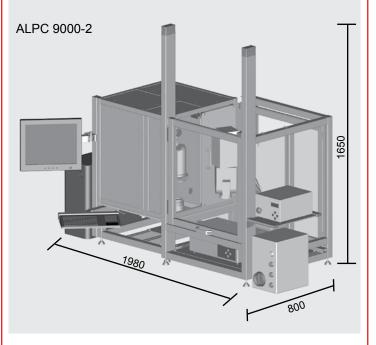
- Dry, clean compressed air (see Page 1)
- Rinsing fluid: Mineral oil based fluids with flash point ≥ 56 °C (preferably kerosene). Cleanliness must be significantly better (by a factor of 2-3) than the expected sample cleanliness
- Reservoir for rinsing and waste fluids (min. 2 x 10 l)

* not supplied

Dimensions (all dimensions approximate in mm)

ALPC 9000-1





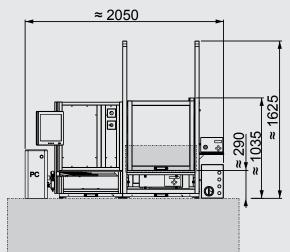
PC Software ALPC Desk

User-friendly processing and display of the measured data using ALPC Desk software

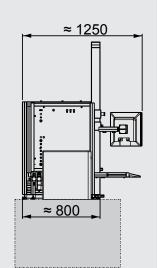


Dimensions (all dimensions approximate in mm)

ALPC

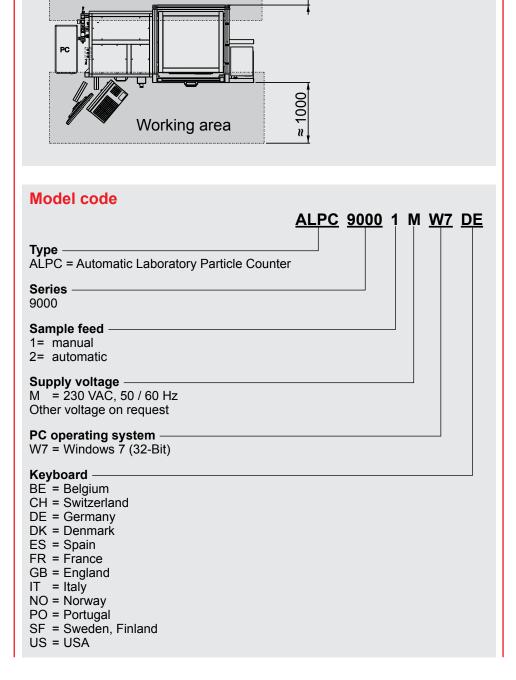


Service area



Items supplied

- ALPC 9000-1 / 9000-2
- ALPC 9000-2 only: sample bottle shaker, robotic arm with transparent Makrolon[®] safety enclosure
- PC, 19" TFT monitor, keyboard with touchpad
- Software ALPC Desk installed on PC and on CD-ROM
- Calibration certificate
- Operating manual
- Service documentation installed on PC and on CD-ROM



≈ 500

NOTE

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

HYDAC FILTER SYSTEMS GMBH Industriegebiet D-66280 Sulzbach / Saar Tel.:+49 (0) 6897/509-01 Fax:+49 (0) 6897/509-846 Internet: www.hydac.com E-Mail: filtersystems@hydac.com