TECHNICAL DATA SHEET

ALab™ OS-Pro Series LCD Digital Overhead Stirrer

LCD digital overhead stirrer · 20, 40 or 70 L · up to 2200 rpm · up to 300 N·cm · RS232



ALab™ OS-Pro Series LCD Digital Overhead Stirrer

The ALab™ OS-Pro Series LCD Digital Overhead Stirrer; image shown for reference.

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SECTION I

Product Overview

The ALab™ OS-Pro Series LCD Digital Overhead Stirrer is available as the OS20-Pro, OS40-Pro and OS70-Pro, for a max. stirring quantity of 20, 40 or 70 L (water). All three have a brushless DC motor, an LCD display of set and actual speed, torque and overload protection, an RS232 data interface and a self-locking chuck for shafts of Ø0.5–10 mm.

Overhead stirrers are used for mixing medium and high viscosity samples in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis and the petrochemical industry. The OS-Pro series holds a constant speed when the viscosity of the sample changes; the OS70-Pro adds a timer of 0–99 h 59 min.

SECTION II

Core Advantages

- **Motor** — brushless DC, maintenance free
- **Display** — LCD speed and torque; time on OS70-Pro
- **Chuck** — self-locking, silicone cover
- **Speed** — constant despite viscosity change
- **Safety** — spillage and overload protection
- **Shaft** — through-top design

SECTION III

Specifications

Technical data — OS20-Pro · OS40-Pro · OS70-Pro

Specifications	
Brand	ALab™ by ACS Material
Models	OS20-Pro, OS40-Pro, OS70-Pro
ACS Cat. No.	Parent ALOSPROG; ALOS2O00, ALOS4O00, ALOS7O00
Motor type	Brushless DC motor
Speed display	LCD
Torque display	LCD
Overload protection display	LCD
Voltage, frequency	100–240 V, 50/60 Hz
Chuck clamp range	Ø0.5–10 mm
Dimensions (W × H × D)	83 × 220 × 186 mm
Protection class	IP21
Permissible ambient temperature and humidity	5–40°C, 80% RH
Data interface	RS232

Model comparison

Parameter	OS20-Pro	OS40-Pro	OS70-Pro
Max. stirring quantity (H_2O)	20 L	40 L	70 L
Speed range	50–2200 rpm	50–2200 rpm	50–1100 rpm
Speed display accuracy	±3 rpm	±3 rpm	±10 rpm
Time setting range	—	—	0–99 h 59 min
Max. torque	40 N·cm	60 N·cm	300 N·cm
Max. viscosity	10000 mPa·s	50000 mPa·s	100000 mPa·s
Motor input / output power	60 W / 50 W	120 W / 100 W	180 W / 160 W
Power	70 W	130 W	200 W
Weight	2.8 kg	2.8 kg	3.2 kg
ACS Cat. No.	ALOS2O00	ALOS4O00	ALOS7O00

— = no timer listed for this model.

Accessories

Cat. No.	Accessory	Description
18900743	Set of overhead stirrer tools	One vertical rod and six stirring blades (propeller, paddle, centrifugal, flat-blade, radial-flow and anchor stirrer), with a disassembling tool.
18900605	Universal plate stand	Cast iron plate stand; W × D × H 20 × 31 × 78 cm.
18900497	Grand plate stand	Cast iron plate stand for the OS70-Pro; W × D × H 33.5 × 46.3 × 78 cm.
18205388	Universal H-shaped stand	H-shaped stand for the OS70-Pro; W × D × H 26.5 to 49.6 × 50.5 × 78 cm, adjustable width 265 to 496 mm.

Stirring tools (shaft Ø8 mm)

Cat. No.	Stirring tool	Shaft length	Stirrer Ø	Material
18900071	Propeller stirrer	40 cm	5 cm	316L stainless steel
18900072	Straight stirrer	40 cm	6 cm	316L stainless steel
18900073	Paddle stirrer	40 cm	6.8 cm	316L stainless steel
18900074	Centrifugal stirrer	40 cm	9 cm	316L stainless steel
18900075	Propeller stirrer	35 cm	6.5 cm	PTFE coated
18900076	Straight stirrer	35 cm	7 cm	PTFE coated
18900077	Paddle stirrer	35 cm	6.8 cm	PTFE coated
18900078	Centrifugal stirrer	35 cm	8.5 cm	PTFE coated
18900478	Grand propeller stirrer	60 cm	10 cm	316L stainless steel
18900499	Grand paddle stirrer	60 cm	10 cm	316L stainless steel
18900498	Grand anchor stirrer	60 cm	10 cm	316L stainless steel
18900500	Grand dissolving stirrer	60 cm	10 cm	316L stainless steel
18900625	Flat-blade stirrer	40 cm	6 cm	316L stainless steel
18900627	Anchor stirrer	40 cm	6 cm	316L stainless steel
18900626	Radial-flow stirrer	40 cm	5 cm	316L stainless steel
18900628	Spiral stirrer	40 cm	5 cm	316L stainless steel

Recommended use of each stirring tool: see the product page.

Optional accessories

— plate stands 18900605, 18900497 (OS70-Pro) and 18205388 (OS70-Pro), tool set 18900743 and the stirring tools listed above.

SECTION IV

Applications

Chemical synthesis, pharmaceutical synthesis, physical and chemical analysis and the petrochemical industry; mixing of medium and high viscosity samples.

Choose the model by stirring quantity, viscosity and torque, then the plate stand and the stirring tool for the vessel and sample. Specifications are per the tables above.

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