TECHNICAL DATA SHEET

ALab™ OS-S Series LED Digital Overhead Stirrer

LED digital overhead stirrer · 20 or 40 L · 50–2200 rpm · 40 or 60 N·cm



ALab™ OS-S Series LED Digital Overhead Stirrer

The ALab™ OS-S Series LED Digital Overhead Stirrer; image shown for reference.

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SECTION I

Product Overview

The ALab™ OS-S Series LED Digital Overhead Stirrer is available as the OS20-S and the OS40-S, for a max. stirring quantity of 20 or 40 L (water). Both have a brushless DC motor, a speed range of 50–2200 rpm, an LED screen for the actual speed and a 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. Safety circuits stop the stirrer in anti-stall or overload conditions.

SECTION II

Core Advantages

- **Motor** — brushless DC, maintenance free
- **Display** — LED actual speed
- **Chuck** — Ø0.5–10 mm
- **Speed** — 50–2200 rpm
- **Safety** — safe stop on stall or overload
- **Accessories** — plate stand, tools

SECTION III

Specifications

Technical data — OS20-S · OS40-S

Specifications	
Brand	ALab™ by ACS Material
Models	OS20-S, OS40-S
ACS Cat. No.	Parent ALOSSERG; ALOS2S00, ALOS4S00
Motor type	Brushless DC motor
Speed display	LED
Overload protection display	LED
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

Model comparison

Parameter	OS20-S	OS40-S
Max. stirring quantity (H_2O)	20 L	40 L
Speed range	50–2200 rpm	50–2200 rpm
Max. torque	40 N·cm	60 N·cm
Max. viscosity	10000 mPa·s	50000 mPa·s
Motor input power	60 W	120 W
Motor output power	50 W	100 W
Power	70 W	130 W
Weight	2.8 kg	2.8 kg
ACS Cat. No.	ALOS2S00	ALOS4S00

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.

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

— universal plate stand 18900605, 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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