

TECHNICAL DATA SHEET

ALab™ RE500-E / RE1000-E / RE2000-E / RE5000-E Pilot Scale Digital Control Rotary Evaporator

Pilot Scale Digital Control Rotary Evaporator • 5 L / 10 L / 20 L / 50 L flasks • 2000–5000W



ALab™ RE500-E / RE1000-E / RE2000-E / RE5000-E Pilot Scale Digital Control Rotary Evaporator

The ALab™ RE-E series (RE500-E / RE1000-E / RE2000-E / RE5000-E). Series image shown for reference.

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SECTION I

Product Overview

The ALab™ RE500-E, RE1000-E, RE2000-E and RE5000-E pilot scale digital control rotary evaporators combine an LCD digital display, PID control and stepless motor lifting with a double-layer anti-backflow condenser and a PTFE sealing system.

Evaporating flask 5L / 10L / 20L / 50L; heating power 2000 / 3000 / 4000 / 5000W; evaporation capacity 2 / 3.8 / 5 / 11 L/h (75% alcohol); ultimate vacuum 9mbar; water bath 20–100°C, oil bath 20–180°C (optional).

SECTION II

Core Advantages

- **Flasks** — 5L to 50L
- **Control** — LCD, PID
- **Feeding** — continuous
- **Heating** — water bath, oil bath optional
- **Lift** — motorized, stepless
- **Collection** — automatic switching valve

SECTION III

Specifications

Technical data — RE500-E • RE1000-E • RE2000-E • RE5000-E

Specifications	
Brand	ALab™ by ACS Material
Model	RE500-E / RE1000-E / RE2000-E / RE5000-E
SKU #	ALREES00
Display	LCD
Ultimate vacuum	9mbar
Timer	Yes
Temperature range	Water bath: 20–100°C; oil bath: 20–180°C (optional)
Temperature control accuracy [°C]	±1
Temperature display	LCD
Lifting mode	Motorized
Time setting range	0–999min
Voltage	220V
Frequency [Hz]	50/60
Motor	Brushless DC motor
Heat bath	Teflon coating
Protection class	IP20
Permissible ambient temperature [°C]	5–40
Permissible ambient humidity	≤80%
Safety features	Motor over current protection, earth leakage protection, dry heating protection, overheat protection function

Specifications by model — RE500-E • RE1000-E • RE2000-E • RE5000-E

Specifications by model				
Parameter	RE500-E	RE1000-E	RE2000-E	RE5000-E
Evaporating flask volume	5L	10L	20L	50L
Speed range	20–180	20–130	20–130	20–130
Display	LCD	LCD	LCD	LCD
Evaporation capacity [Max. L/h] for 75% alcohol	2	3.8	5	11
Ultimate vacuum	9mbar	9mbar	9mbar	9mbar
Timer	Yes	Yes	Yes	Yes

Specifications by model				
Parameter	RE500-E	RE1000-E	RE2000-E	RE5000-E
Temperature range	Water bath: 20–100°C; oil bath: 20–180°C (optional)	Water bath: 20–100°C; oil bath: 20–180°C (optional)	Water bath: 20–100°C; oil bath: 20–180°C (optional)	Water bath: 20–100°C; oil bath: 20–180°C (optional)
Temperature control accuracy [°C]	±1	±1	±1	±1
Heating power [W]	2000	3000	4000	5000
Temperature display	LCD	LCD	LCD	LCD
Lifting mode	Motorized	Motorized	Motorized	Motorized
Lifting stroke [mm]	130	200	180	253
Time setting range	0–999min	0–999min	0–999min	0–999min
Voltage	220V	220V	220V	220V
Frequency [Hz]	50/60	50/60	50/60	50/60
Motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Heat bath	Teflon coating	Teflon coating	Teflon coating	Teflon coating
Protection class	IP20	IP20	IP20	IP20
Dimension [D×W×H]	600×290×720	790×480×1130	900×490×1320	1030×510×1370
Permissible ambient temperature [°C]	5–40	5–40	5–40	5–40
Permissible ambient humidity	≤80%	≤80%	≤80%	≤80%
Safety features	Motor over current protection, earth leakage protection, dry heating protection, overheat protection function	Motor over current protection, earth leakage protection, dry heating protection, overheat protection function	Motor over current protection, earth leakage protection, dry heating protection, overheat protection function	Motor over current protection, earth leakage protection, dry heating protection, overheat protection function

Accessory overview — RE500-E / RE1000-E / RE2000-E / RE5000-E

Accessory overview		
Accessory group	Items listed	Sizes / hosts
Condensers	Main and secondary condenser, cooling surface 0.28 m ² (5L) to 1.75 m ² (50L)	5L / 10L / 20L / 50L
Flasks	Evaporating flask 5L–50L; receiving flask 3L–20L	RE500-E / RE1000-E / RE2000-E / RE5000-E
Glassware parts	Three way bottle; rotation axis	RE500-E; RE1000-E / 2000-E / 5000-E
Valves	Feeding, discharge, non pass, mixing and vent valve	RE500-E; RE1000-E / 2000-E / 5000-E
Clamps	5L locking clamp (30#, 40#); 10L/20L/50L locking clamp (50#, 60#, 80#)	5L; 10L / 20L / 50L
Seals	Vacuum sealing rings; vacuum seal assembly for evaporating flask	5L; RE1000-E / 2000-E / 5000-E
Holders and brackets	Flask holder 90mm / 160mm; evaporation bottle bracket	RE500-E / RE1000-E / RE2000-E / RE5000-E

SECTION IV

Applications

Pilot scale rotary evaporation; the reciprocation rotation function suits samples with solid particles.

Product value: four pilot-scale sizes on one platform with PID control, continuous feeding and collection, heat insulation of the bath and a full range of catalogue accessories.

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