

ROTARY EVAPORATORS EVAPORATION SOLUTIONS



LabTech

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EVAPORATION SOLUTIONS BY LABTECH

The LabTech evaporation solutions introduce a new concept in routine distillation/evaporation processes: safety, efficiency and durability to support the lab user work!

With an innovative and ergonomic design, the EV series rotary evaporators include color digital display to monitor and control rotation speed and temperature, motorized vertical lift, evaporation flasks, on line sample adding through PTFE valve and can be completed with the LabTech vacuum and cooling accessories to reach top efficiency of process.

The stand alone heating bath guarantees maximum safety in operations and easy maintenance.

- » **Total solution**
- » **Programmable operations**
- » **Anticorrosion sealing system**
- » **Integrated vacuum control**
- » **Maximum safety**
- » **Quite operation**
- » **Excellent price/performance ratio**



Chiller



Rotary evaporator



Vacuum pump

ROTARY EVAPORATOR APPLICATIONS

- **Solvent recycling**
- **Solvent distillation**
- **Powder drying**
- **Chemical synthesis**
- **Extraction**
- **Research**
- **Active agent concentration**
- **Vacuum distillation of sensitive substances**
- **Liquid mixture separation**

OPTIONS FOR A COMPLETE PACKAGE

CHILLERS

The LabTech's state-of-the-art water chillers ensure accurate and constant cooling conditions of instruments even in the harsh laboratory conditions.

H50-500

- » Temp. Control Range: -5° to +35°C
- » Temp. Stability: ±0.3°C (PID/LCD)
- » Refrigeration Capacity: 500W
- » Pump Capacity: 3.5L/min@10psi
- » Dimension: 480Lx250Wx470Hmm

Smart H150-100LT

- » Temp. Control Range: -20° to +35°C
- » Temp. Stability: ±0.1°C (PID/LED)
- » Refrigeration Capacity: 1000W
- » Pump Capacity: 6 L/min@60psi
- » Suitable for cooling of 2 units simultaneously

VACUUM PUMPS

LabTech pumps are specifically designed for laboratory operations to meet the highest standard of precision, reliability and ease of use.

VP18R

- » Pumping speed: 18L/min
- » Vacuum pressure: 20mbar
- » Noise: ≤ 42dB

VP50

- » Pumping speed: 50L/min
- » Vacuum pressure: 150mbar
- » Noise: ≤ 58dB

VP30

- » Pumping speed: 30L/min
- » Vacuum pressure: 250mbar
- » Noise: ≤ 50dB

VACUUM CONTROLLER

Commonly used solvents have different boiling points and vacuum evaporation levels, if the vacuum is not properly controlled, a risk of too rapid or too slow evaporation could occur reducing recovery of vapors. To optimize the whole process, an electronic vacuum controller connected to the pump is recommended. LabTech offers a light, compact and extremely easy to use vacuum controller without any extra cost for accessories.

LV6010

- » Large LCD display
- » Vacuum control range: 0~999mbar
- » Vacuum control precision: ±1mbar
- » Step vacuum control (different vacuum pressure with different holding time)
- » Built-in gas release valve ensures high efficient and stable vacuum control
- » Built-in anticorrosive vacuum sensor with high precision
- » Fully anticorrosion design
- » ON/OFF control of vacuum pump to extend the pump working life
- » Alarm when the vacuum control fails to reach the desired value

THE IDEAL PARTNER FOR LABORATORY EVAPORATIONS



Technology & Design

- » Digital rotation speed control and temperature display ensure accurate and stable unit operations
- » Trouble free operation and long lifetime
- » PTFE seal loop ensures excellent elasticity and resistance at high temperature acid/solvent corrosion
- » Online sample addition by PTFE valve ensures high efficiency and easy operation
- » Automatic lift-up protection in case of electric power failure



Safety & Easy to use

- » Stand alone heating bath guarantees maximum safety and easy maintenance
- » Motorized vertical lift
- » Wide range of evaporation flasks
- » Self calibration function and wide temperature range control from room temperature up to 200°C
- » Automatic stop heating in dry bath condition
- » Innovative design to prevent corrosion and splashing

TECHNICAL SPECIFICATIONS

		EV311H	EV311	EV311 PLUS	EV311 ADVANCED	EV311 VC
Main Unit	Evaporation volume	50-4000 mL				
	Max. Rotation speed	20-300 rpm				
	Rotation speed control	Adjustable control knob				
	Rotation speed display	LED		LCD		
	Head tilt angle	0-60°				
	Rotation motor power	40 W				
	Lift up and down	Manual	Motor			
	Lift stroke	160 mm				
Heating Bath	Model	HB-03		HB-03PLUS		
	Temperature range	Ambient to 210°C				
	Bath material	Stainless steel		Teflon coated		
	Temperature control	PID (LCD)	PID LED	PID (LCD)		
	Temperature accuracy	±1°C (Water) ±2°C (Oil)				
	Heating power	1300 W				
	Bath diameter	250 mm				
	Bath volume	5 L				
Advanced Functions	Timer	-			Yes	
	Clockwise/counter-clockwise rotation	-			Yes	
	Timer for clockwise/counter-clockwise rotation	-			Yes	
	Programmable Speed Control	-			Yes	
	Lift up when timer ends	-			Yes	
	Built-in programmable vacuum control	-				Yes
	Control on/off of vacuum pump	-				Yes
Condenser	Vertical or Diagonal with 1200 cm ² (1500 cm ² option) condensing surface					
LxWxH mm (lift stroke 160mm included)	380x340x692				380x340x797	
Weight	23 Kg					

Every LabTech rotary evaporator comes with 1L evaporating flask, 1L receiving flask and vertical condenser as standard. Other glassware assembly configurations including different flasks, diagonal and dry ice condenser are available upon request.

LabTech

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LabTech, your reliable laboratory solution provider.

LabTech is a leading manufacturing company with skill and passion devoted to provide advanced laboratory solutions to the analytical community. We are located in Sorisole, northern Italy, with facilities in USA and China. Incorporated with global branches, LabTech is organized into R&D, production, marketing & sales and customer support. Major LabTech products include organic/inorganic sample preparation systems, laboratory cooling/heating/temperature control equipments, analytical instruments and gas generators. With knowledgeable scientists and experienced engineers, our R&D team has developed and released a series of new lab equipments and instruments dedicated to the modern analytical laboratories. With all of these accomplishments and our endless research and development efforts, we are proud to be your professional partner.

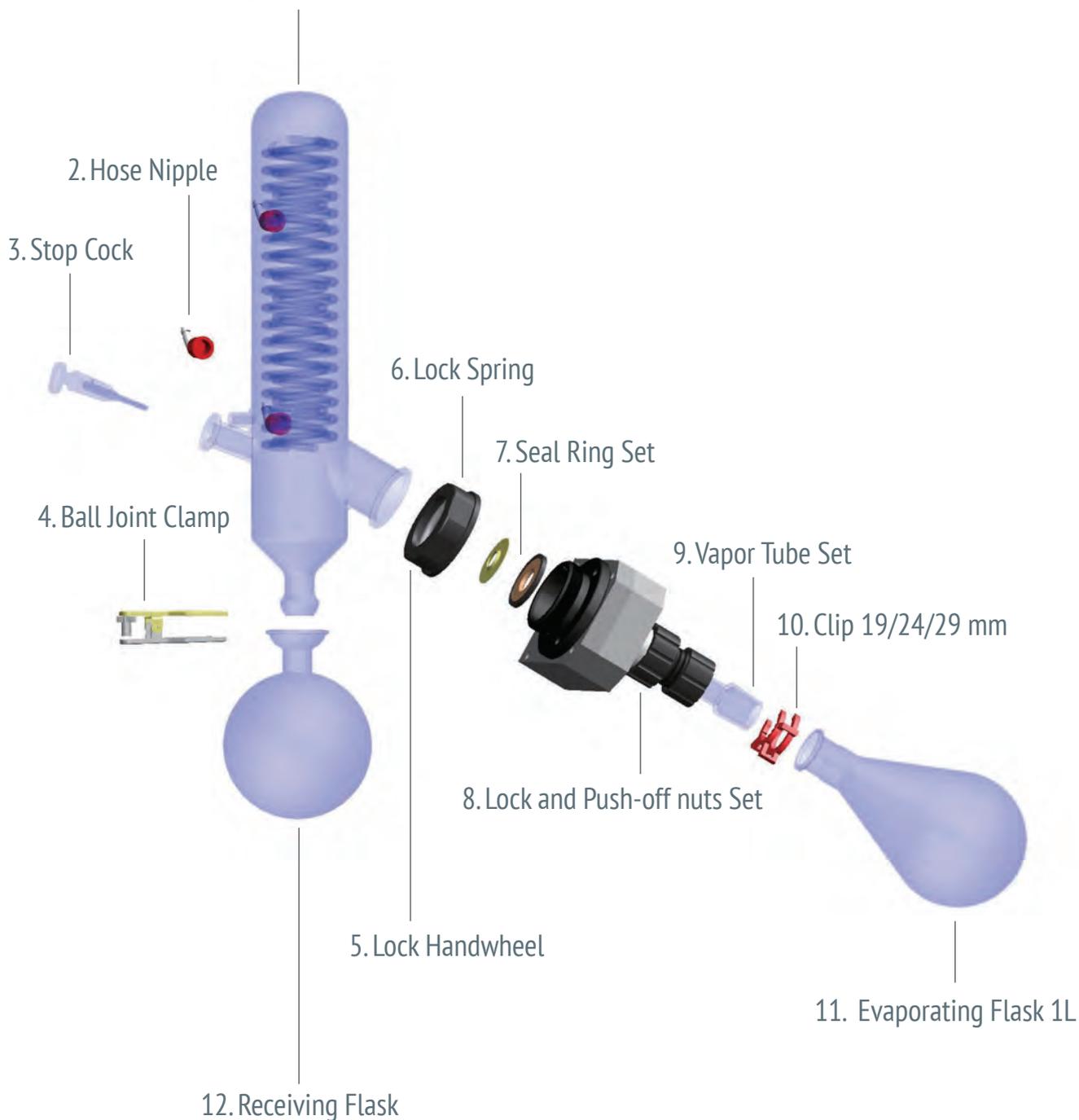


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ROTARY EVAPORATOR ACCESSORIES

1. Vertical Condenser / Diagonal Condenser / Dry Ice Condenser



ROTARY EVAPORATORS ACCESSORIES

Item	Part number	Description
1	50103-V	Vertical Condenser
1	50103-L	Diagonal Condenser
1	50103-I	Dry Ice Condenser
2	50103-NC	Hose Nipple
3	50103-A	Stop Cock
4	50103-CS	Ball Joint Clamp
5	50103-SR3	Lock Handwheel
6	50103-SR9	Lock Spring

Item	Part number	Description
7	50103-SR1	Seal Ring Set
8	50103-NS	Lock and Push-off nuts Set
9	50103-GA	Vapor Tube
10	50103-C1	Clip 19 mm
10	50103-C2	Clip 24 mm
10	50103-C3	Clip 29 mm
11	50103-1000	Evaporating Flask 1L
12	50103-C1	Receiving Flask 1L

Plastic coating for glassware is available upon request

Evaporation Flask

P/N	Volume	Joint Size
50103-0050	50 mL	29/32
50103-0100	100 mL	29/32
50103-0250	250 mL	29/32
50103-0500	500 mL	29/32
50103-1000	1000 mL	29/32
50103-2000	2000 mL	29/32
50103-3000	3000 mL	29/32
50103-0100	100 mL	24/29
50103-0250	250 mL	24/29



Trap Ball

P/N	Volume	Joint Size
50103-0001	100 mL	29/32 24/29



Heart-shaped Flask

P/N	Volume	Joint Size
50102-0050J	50 mL	24/29
50102-0100J	100 mL	24/29
50101-0050J	50 mL	19/16



Receiving Flask

P/N	Volume	Joint Size
50103-C0	500 mL	35/20
50103-C1	1000 mL	35/20
50103-C2	2000 mL	35/20



Adaptor

P/N	Joint Size	Joint Size
50103-29-24	29/32	24/29
50103-29-19	29/32	19/26
50103-24-19	24/29	19/26



Spider with 5 flasks

P/N	Volume	Joint Size
50104-29-24	50 mL 5 pcs	29/32 24/29

