

# ROTARY EVAPORATOR EVAPORATION SOLUTIONS

Distributed by:  
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**LabTech**

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## EVAPORATION SOLUTIONS BY LABTECH

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

With an innovative and ergonomic design, 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 LabTech vacuum and cooling accessories to reach top efficiency of process.

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
- » High quality/price ratio

## 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

### CHILLER

LabTech's state-of-the-art water chillers ensure accurate and constant cooling conditions of your instrumentation in the harsh laboratory environment.

#### **H50-500**

- » Temp. Control Range: -5° to +35°C
- » Temp. Stability:  $\pm 0.3^{\circ}\text{C}$  (PID/LCD)
- » Refrigeration Capacity: 500W@25°C
- » Pump Capacity: 3.5L/min@10psi
- » Dimension: 480Lx250Wx470Hmm

#### **Smart H150-100LT**

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

### VACUUM PUMP

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:  $\leq 42\text{dB}$

#### **VP50**

- » Pumping speed: 50L/min
- » Vacuum pressure: 150mbar
- » Noise:  $\leq 58\text{dB}$

#### **VP30**

- » Pumping speed: 30L/min
- » Vacuum pressure: 250mbar
- » Noise:  $\leq 50\text{dB}$

### 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.

- » Large LCD display
- » Vacuum control range: 0~999mbar
- » Vacuum control precision:  $\pm 1\text{mbar}$
- » 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
- » Control ON/OFF of vacuum pump to extend the pump working life
- » Alarm when the vacuum control fail to reach to 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 grants 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 antisplashing

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# TECHNICAL SPECIFICATIONS

|                                       |  | EV311H  | EV311 | EV311 PLUS    | EV311 ADVANCED | EV311 VAC   |
|---------------------------------------|--|---|-------|---------------|----------------|-------------|
| Main Unit                             | Evaporation volume                             | 50-4000 ml  |       |               |                |             |
|                                       | Rotation speed                                 | 20-280 rpm  |       |               |                |             |
|                                       | Rotation speed control                         | Adjustable control knob                               |       |               |                |             |
|                                       | Rotation speed display                         | LED   |       | LCD           |                |             |
|                                       | Head tilt angle                                | 0-60°   |       |               |                |             |
|                                       | Rotation motor power                           | 40 Watts  |       |               |                |             |
|                                       | Lift up and down                               | Manual  | Motor |               |                |             |
|                                       | Motorized lift stroke                          | 160 mm  |       |               |                |             |
| Heating Bath                          | Model  | HB-03   |       | HB03PLUS      |                |             |
|                                       | Temperature range                              | Ambient to 200°                                       |       |               |                |             |
|                                       | Bath material                                  | Stainless steel                                       |       | Teflon coated |                |             |
|                                       | Temperature control                            | PID LED   |       | PID (LCD)     |                |             |
|                                       | Temperature accuracy                           | ±1°C (Water) ±2°C (Oil)                               |       |               |                |             |
|                                       | Heating power                                  | 1300 Watts  |       |               |                |             |
|                                       | Bath diameter                                  | 250 mm  |       |               |                |             |
|                                       | Bath volume                                    | 5 Lt  |       |               |                |             |
| Advanced Functions                    | Timer  | -   |       |               | Yes            |             |
|                                       | Clockwise/coun-ter-clockwise rotation          | -   |       |               | Yes            |             |
|                                       | Timer for clockwise/counter-clockwise rotation | -   |       |               | Yes            |             |
|                                       | Programmable Speed Control                     | -   |       |               | Yes            |             |
|                                       | Lift up when timer end                         | -   |       |               | Yes            |             |
|                                       | Built-in programmable vacuum control           | -   |       |               |                | Yes         |
|                                       | Control on/off of vacuum pump                  | -   |       |               |                | Yes         |
| Condenser                             |  | Vertical or Diagonal with 1300 cm² condensing surface |       |               |                |             |
| L×W×H mm (lift stroke 160mm included) |  | 380×340×692   |       |               |                | 380×340×797 |
| 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

WWW.LABTECHSRL.COM

The solution to your laboratory needs. LabTech is a young 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 with 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, laboratory information management system and laboratory design and engineering. With knowledgeable scientists and experienced engineers, our R&D team has developed and released a series of new lab equipments and instruments. With all these accomplishments and our never stopping efforts on research and development, we are proud of being one of few providers able to produce the most advanced sample preparation products.

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