

20L AND 50L PILOT-SCALE LARGE ROTARY EVAPORATOR



LabTech

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FROM LAB TO PILOT SCALE

Intelligent vacuum, precise control.
Reliable for pharmaceutical & chemical pilot production.
Durable design for continuous operation.
Speeds process validation, ready for industrial-scale.



LabTech proudly presents the **all-new EV Series Pilot-Scale Large Rotary Evaporator**, featuring exceptional precision for large-volume distillation.

Designed with the commitment to deliver high-quality, safe and reliable products for laboratories worldwide, it finds broad and in-depth applications across pharmaceuticals, chemicals, biotechnology and other industries.

Product Features

- The vertical triple-coil condenser has a large condensation area, ensuring high sample recovery.
 - The online feeding function is ideal for large-volume distillation.
 - The unique sealing system provides long-lasting corrosion resistance and airtight performance.
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- The large colour touchscreen offers multi-parameter digital display.
 - The built-in vacuum controller supports up to 100-step distillation programs.
 - Multiple safety protection mechanisms are included.
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- The intelligent PID microchip temperature control system ensures precise heating.
 - It is compatible with both water and oil baths, supporting concentration of high-boiling substances.
 - The bath has a high-safety-level design with a floating switch to detect low water levels and prevent dry heating.
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APPLICATIONS & INDUSTRIES



Food & Beverage

Production of flavors and seasonings, concentration of fruit juices and tea beverages.



Pharmaceutical

Separation, purification and concentration of synthetic drug compounds.



Natural Products

Extraction of natural products from plants, animals or microorganisms.



Fine Chemicals

Synthesis of small-batch, multi-variety chemical products.



Petroleum Processing

Separation and purification of various organic compounds like diesel, gasoline and lubricating oils.

TECHNICAL SPECIFICATIONS

	EV20	EV50
Rotation Speed (rpm)	Max. 150	Max. 120
Lifting Method	Motorized	
Lifting Stroke (mm)	200	
Heating Bath Temp. Range (°C)	Room Temperature – 180	
Heating Bath Material	Stainless Steel with PTFE Coating	
Temp. Control Method	PID	
Temp. Control Accuracy (°C)	±1 (Water)	±2 (Oil)
Heating Power (W)	4000	6000
Evaporation Capacity (L)	10 / 20	50
Condenser Area (m ²)	1.5	2.25
Evaporation Rate (H ₂ O) (L/h)	5.8	8.5
Safety Protection	Dry-Run Protection Lifting Overload Protection Over-Temperature Protection Motor Overcurrent Protection Residual Current (Leakage) Protection	
Dimensions (L×W×H, mm)	1100×550×1900	1260×630×2140
Power Supply	220V±10%, 50/60Hz, 25A	220V±10%, 50/60Hz, 32A
Ordering information	LEV0020	LEV0050

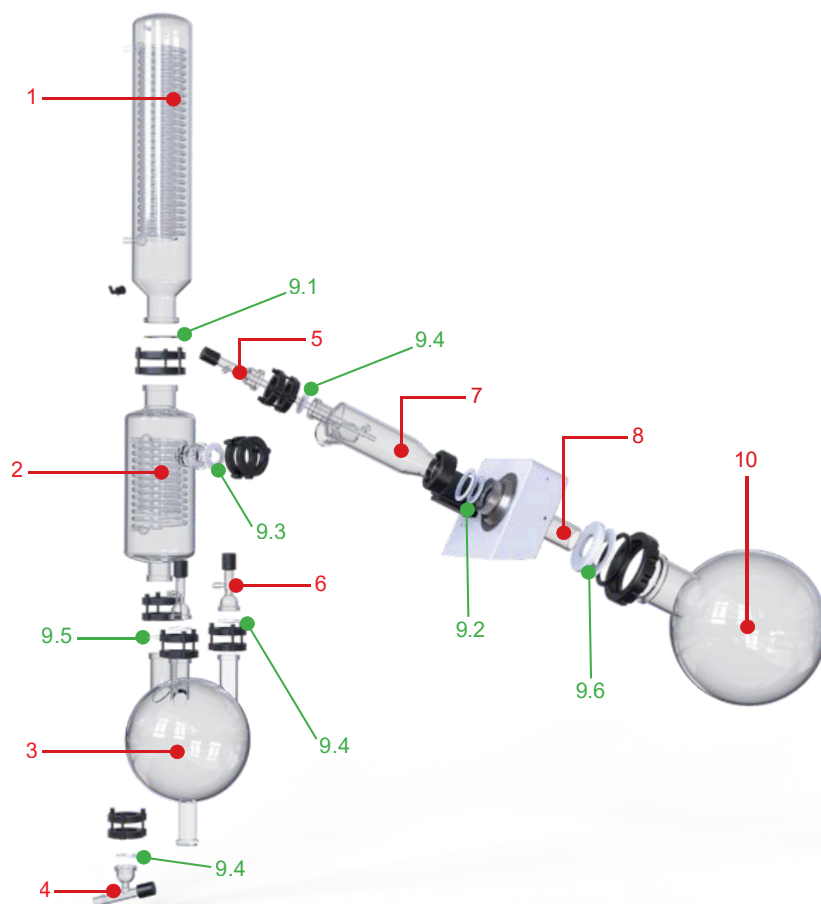


EV20
Large-Scale Rotary Evaporator



EV50
Large-Scale Rotary Evaporator

ACCESSORIES



CONDENSER (1&2)

EV0020-10-M	10L Main Condenser (0.6m ²)
EV0020-10-A	10L Auxiliary Condenser (0.3m ²)
EV0020-20-M	20L Main Condenser (1m ²)
EV0020-20-A	20L Auxiliary Condenser (0.5m ²)
EV0050-50-M	50L Main Condenser (1.5m ²)
EV0050-50-A	50L Auxiliary Condenser (0.75m ²)

RECEIVING FLASK (3)

EV0020-R10L	10L Receiving Flask
EV0020-R20L	20L Receiving Flask
EV0050-R50L	50L Receiving Flask

DISCHARGE VALVE (4)

EV00-0110	Discharge Valve for 10L/20L/50L
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FEEDING VALVE (5)

EV00-0111	Long-Head Feeding Valve for 10L/20L/50L
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VENT VALVE (6)

EV00-0112	Vent Valve for 10L/20L/50L
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THREE-WAY FLASK (7)

EV0020-0105	Three-Way Flask for 20L
EV0050-0106	Three-Way Flask for 50L

ROTARY SHAFT (8)

EV0020-0107	Rotary Shaft for 20L
EV0050-0108	Rotary Shaft for 50L

FLUORORUBBER SEALING GASKET FOR FLASK NECK (9)

1	EV00-0074(80MM)	Flask Neck Sealing Gasket (80mm)
2	EV00-0074(70MM)	Flask Neck Sealing Gasket (70mm)
3	EV00-0076(60MM)	Flask Neck Sealing Gasket (60mm)
4	EV00-0076(50MM)	Flask Neck Sealing Gasket (50mm)
5	EV00-0078	Automatic Switching Valve (60mm)
6	EV00-0082	Evaporating Flask Sealing Gasket (Outer Ø125mm, Inner Ø60mm)

EVAPORATING FLASK (10)

EV0020-E10L	10L Evaporating Flask
EV0020-E20L	20L Evaporating Flask
EV0050-E50L	50L Evaporating Flask

OPTIONS FOR A COMPLETE PACKAGE

RECIRCULATING WATER CHILLERS

With over 20 years of experience, LabTech ensures reliable quality, complete ranges and global customer trust. Our Chillers provide **precise and stable temperature control, rapid temperature changes** and are designed with eco-friendly materials in line with "Green Lab Conditions" regulations. They are widely used with internationally renowned instruments such as AA, ICP and ICP-MS and are exported to more than 100 countries worldwide.

	H150-2100	H150-2100LT	H150-3000	H150-5000
Temp. Control Range	8~35°C	-20~35°C	8~35°C	8~35°C
Temp. Control Accuracy	±0.1°C	±0.1°C	±0.1°C	±0.2°C
Temperature Control mode	PID/ Color Touchscreen			
Refrigeration Capacity	2100W@25°C	2100W@25°C	3000W@25°C	5000W@25°C
Pump Capacity	13L/min@60psi	13L/min@60psi	13L/min@60psi	13L/min@60psi
Eco-Friendly Refrigerant				
Ordering information	LW2100N	LW2100NLT	LW3000N	LW5000N

Eco-Friendly: Featuring advanced international high-efficiency microchannel heat exchange technology, significantly reducing refrigerant usage. Uses an eco-friendly refrigerant with an ozone depletion potential (ODP) of 0.

Intelligent Control: Equipped with a powerful touchscreen control terminal and high-precision digital pressure and flow displays. Remote real-time monitoring allows users to track the water circulation status at any time.

Precise Temperature Control: Combining internationally leading Hot Gas Bypass refrigeration technology with intelligent PID dynamic temperature control, achieving a temperature control accuracy of $\pm 0.1^{\circ}\text{C}$.

Reliable Quality: core components supplied by top global manufacturers, rigorously tested to ensure LabTech water chillers deliver stable performance and exceptionally long service life.





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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, gas generators, laboratory centrifuges and liquid nitrogen 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 in lab solutions.



LabTech Srl

Via Fatebenefratelli, 1/5 - 24010 Sorisole (BG) - Italy

Tel: +39 035 576614

www.labtechsrl.com - email: marketing@labtechsrl.com