

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.



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EV Series

Pilot-Scale Large Rotary Evaporator

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 color 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, and 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

Model	EV20	EV50
Rotation Speed (rpm)	Max. 150	Max. 120
Lifting Method	Motor	
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 (m²)	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

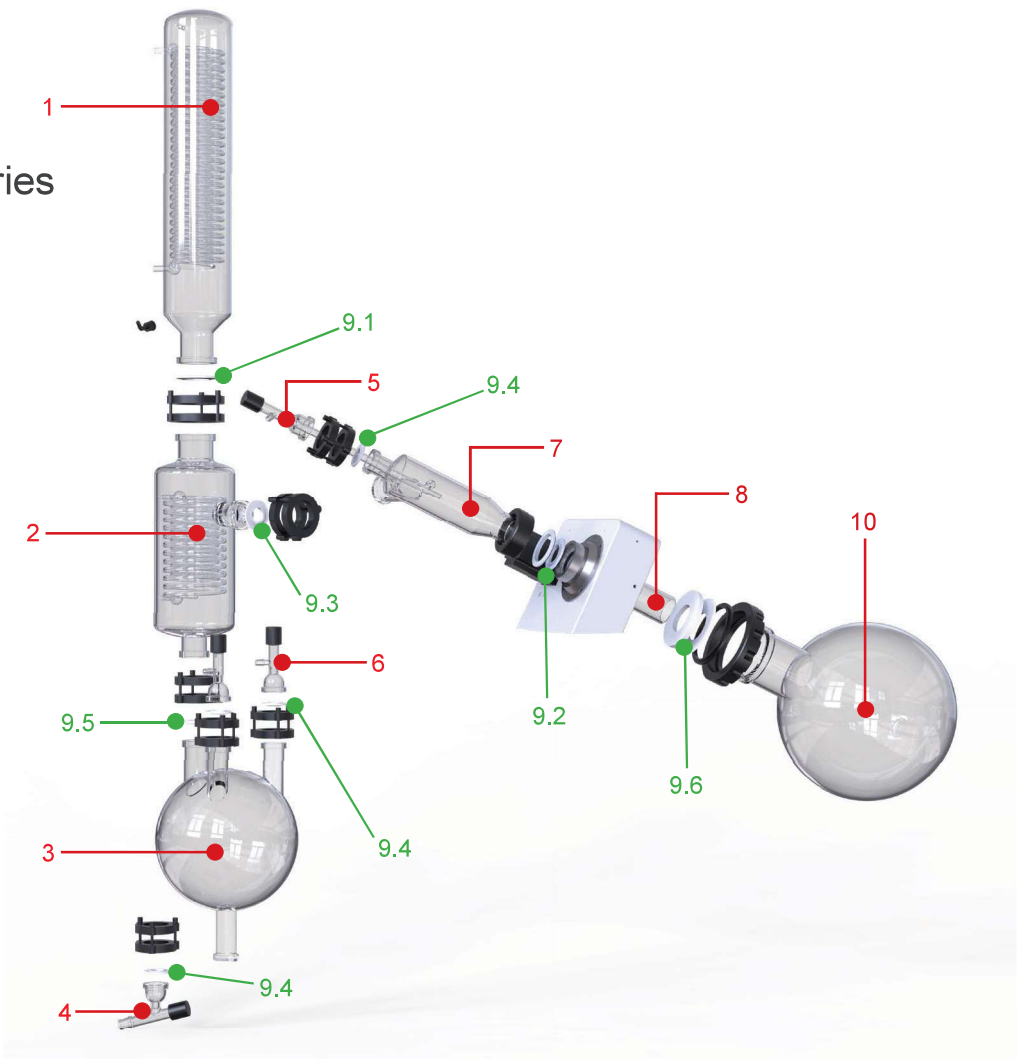


EV20
Large-Scale Rotary Evaporator



EV50
Large-Scale Rotary Evaporator

Accessories



Condenser (1&2)	
S020104-0091	10L Main Condenser (0.6m²)
S020104-0092	10L Auxiliary Condenser (0.3m²)
S020104-0093	20L Main Condenser (1m²)
S020104-0094	20L Auxiliary Condenser (0.5m²)
S020104-0095	50L Main Condenser (1.5m²)
S020104-0096	50L Auxiliary Condenser (0.75m²)

Receiving Flask (3)	
S020104-0102	10L Receiving Flask
S020104-0103	20L Receiving Flask
S020104-0104	50L Receiving Flask

Discharge Valve (4)	
S020104-0110	Discharge Valve for 10L/20L/50L

Feeding Valve (5)	
S020104-0111	Long-Head Feeding Valve for 10L/20L/50L

Vent Valve (6)	
S020104-0112	Vent Valve for 10L/20L/50L

Three-Way Flask (7)	
S020104-0105	Three-Way Flask for 20L
S020104-0106	Three-Way Flask for 50L

Rotary Shaft (8)	
S020104-0107	Rotary Shaft for 20L
S020104-0108	Rotary Shaft for 50L

Fluororubber Sealing Gasket for Flask Neck (9)		
1	S020104-0074	Flask Neck Sealing Gasket (80mm)
2	S020104-0075	Flask Neck Sealing Gasket (70mm)
3	S020104-0076	Flask Neck Sealing Gasket (60mm)
4	S020104-0077	Flask Neck Sealing Gasket (50mm)
5	S020104-0078	Automatic Switching Valve (60mm)
6	S020104-0082	Evaporating Flask Sealing Gasket (Outer Ø125mm, Inner Ø60mm)

Evaporating Flask (10)	
S020104-0098	10L Evaporating Flask
S020104-0099	20L Evaporating Flask
S020104-0100	50L Evaporating Flask

LabTech Water Recirculating Chillers

LabTech specializes in laboratory temperature control equipment, developing and manufacturing innovative water chillers for analytical, medical, and industrial applications. With over 20 years of experience, LabTech ensures reliable quality, complete model 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. LabTech water chillers are widely used with internationally renowned instruments such as AA, ICP, and ICP-MS, and are exported to more than 100 countries worldwide.

Smart H150-2100

- Temp. Control Range: 8~35°C
- Temp. Control Accuracy: $\pm 0.1^{\circ}\text{C}$ (PID / Color Touchscreen)
- Refrigeration Capacity: 2100W@25°C
- Pump Capacity: 13L/min@60psi
- Eco-Friendly Refrigerant

Smart H150-2100LT

- Temp. Control Range: -20~35°C
- Temp. Control Accuracy: $\pm 0.1^{\circ}\text{C}$ (PID / Color Touchscreen)
- Refrigeration Capacity: 2100W@25°C
- Pump Capacity: 13L/min@60psi
- Eco-Friendly Refrigerant

Smart H150-3000

- Temp. Control Range: 8~35°C
- Temp. Control Accuracy: $\pm 0.1^{\circ}\text{C}$ (PID / Color Touchscreen)
- Refrigeration Capacity: 3000W@25°C
- Pump Capacity: 13L/min@60psi
- Eco-Friendly Refrigerant

Performance Advantages

Eco-Friendly

- Featuring advanced international high-efficiency microchannel parallel-flow heat exchange technology, significantly reducing refrigerant usage. Uses a new 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 Temp. 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.

