

# Large Capacity Rotary Evaporator RE-LA Series

5 ~ 50Liters/ Electric Lift/ Teflon + FV rubber, fluorinated rubber double seal/ TOP1 Quality



Labfreez™ Large capacity vacuum rotary evaporator, large diameter rotary evaporator flask, evaporation area, the vacuum water bath, while rotating edge heating, evaporation of the solution diffusion efficiency can be used for biological, pharmaceutical, chemical, food and other small scale areas, Chinese and production. Products with recycled water multi-use vacuum pumps, diaphragm pumps, low temperature cycle (vacuum) pumps, circulating cooler, constant temperature circulator, low temperature cooling liquid circulating pump and other devices supporting component systems.

## Features:

- Teflon (PTFE) and fluorine rubber dual rotating seal, patented technology to ensure high vacuum.
- the introduction of foreign advanced frequency control system, temperature control system, accurate and reliable.
- a vacuum switching valve, without affecting the system vacuum distillation of the situation and the solution can be continuously collected.
- water bath electric lift and manual lift support, easy to use.
- PTEE discharge valve, corrosion resistance, pollution-free.



## Explosion-proof motors:

1. According to the mixing material viscosity, Adjust motor power
2. Explosion-proof grade dIIBT4
3. Motor power has 180W, 90W, 370W
4. run without sparks



#### Explosion-proof control section:

1. Using high-quality steel welding
2. High-voltage electrostatic spray
3. Bus and outlet increased safety structure
4. Control since the development of design
5. Over voltage, under voltage, over current protection
6. Overload, overheat protection
7. Explosion-proof grade dIIBT4
8. Speed digital display
9. Temperature digital display, online testing
10. Promise speed
11. Explosion-proof flexible connecting pipe with fire-resistant, corrosion-resistant erosion, water, anti-aging
12. Temperature PID control, room temperature to 99 degrees
13. Can be made to room temperature to 180 degrees high temperature bath



**Explosion-proof electric heating tube is a tubular heater that consumes electrical energy converted into heat to heat the object to be heated.**

1. Cold-welded stainless steel
2. High-voltage electrostatic spray
3. Bus and outlet increased safety structure
4. Explosion-proof grade dIIBT4
5. Corrosion, water, oil, anti-aging
6. Voltage 220V, 380V
7. Power 3KW, 4.5KW, 6KW, 8KW
8. Stainless steel SUS304
9. Good thermal conductivity
10. Insulation is good, leakage current is small
11. Long life

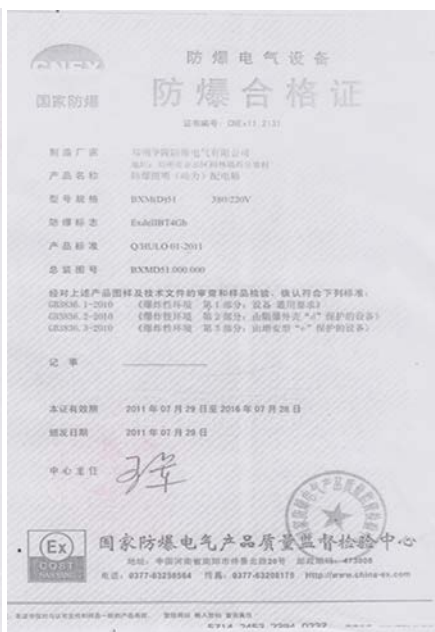


#### Explosion-proof standard GB3836

1. Explosion-proof mark dIIBT4, on behalf of: Explosion-proof electrical products for the type of explosion-proof, is the use of Class IIB place (Class) Do not, the ignition temperature of explosive gases T4 group.
  - Flameproof d GB3836.2 isolated ignition source exists
2. Explosion-proof electrical equipment, in accordance with the maximum test safety clearance (MESG) or minimum ignition current (MICR) to distinguish, Class II electrical equipment is divided into: IIA, IIB, IIC three categories.

3. According to the difference of ignition temperature of explosive gas mixture, the group is divided into six kinds of T1, T2, T3, T4, T5 and T6. The ignition temperature is expressed in t (°C).
4. T4 is:  $135^{\circ}\text{C} < t \leq 200^{\circ}\text{C}$ ; T1 is:  $450^{\circ}\text{C} < t$ ; T6 is:  $85^{\circ}\text{C} < t \leq 100^{\circ}\text{C}$

## Certificate of Explosion-proof



## Spare Parts



Main Condenser



Auxiliary condenser



Three-way bottle



Rotary Bottle



Receive Bottle

### **Rotary bottle:**

Large diameter, diameter 100mm

Easy to take and wash

Rotary bottle capacity of 1L, 5L, 10L, 20L, 50L

Bottle collection:

4, the volume has 1L, 3L, 5L, 10L, 20L

### **High borosilicate glass:**

(Also known as hard glass, GG17, borosilicate glass 3.3) is a special glass material with low expansion rate, high and low temperature resistance, high strength, high hardness, high light transmittance and high chemical stability. Has a very low coefficient of thermal expansion, temperature resistance of 200 degrees Celsius. Silicon content of more than 80% strain temperature of 520 °C annealing temperature of 560 °C. The thermal expansion coefficient (20-300 °C)  $3.3 \times 10^{-6} K^{-1}$ , based on silicon oxide (NA<sub>2</sub>O), Boron oxide (B<sub>2</sub>O<sub>3</sub>), silica (SiO<sub>2</sub>) as a basic ingredient of a glass. Anti-acid and alkali, anti-corrosion. Has good thermal stability, impact resistance, chemical stability, and electrical properties and so on.



Flange seal

### **Flange seal, automatic switching valve:**

Imported PTFE materials

Corrosion-resistant, pollution-free

Maintenance, easy to clean

High vacuum



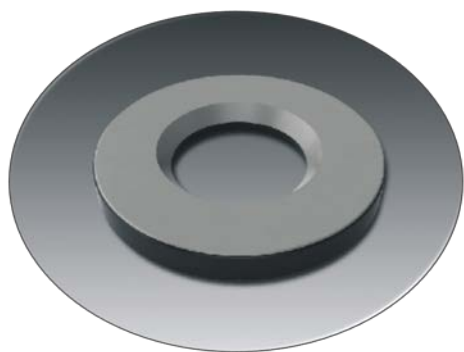
Automatic switching valve

### **Vacuum automatically switch**

Feeding does not affect vacuum production

Will not reduce the degree of vacuum

Continuous production



**Teflon seal ring (main)**



**Teflon seal ring (auxiliary)**

### **National patent products**

PTFE (polytetrafluoroethylene) and fluorine rubber double rotary seal, patented technology.

Ensure high vacuum, durability, acid and alkali resistance, anti-organic solvents

High temperature, wear-resistant, high strength, long service life



### **Discharge valve:**

Feeding operation is simple

Imported PTFE materials

Corrosion-resistant, pollution-free

Maintenance, easy to clean

High vacuum

long life



### **Rotary shaft, Bath:**

Rotary axis CNC machining and high concentric bottle rotation

Bath for the production of professional manufacturers, wall thickness 0.8-1mm, sheet polishing, cleaning convenient.

SUS304, GB grade 06Cr18Ni9 is a chromium-nickel stainless steel with good corrosion resistance, heat resistance, low temperature strength and mechanical properties.



#### High-precision vacuum gauge:

Pointer display, accuracy of 0.002  
Display range 0 to -0.1Mpa  
Equipped with tee adapter  
Metal surface treatment corrosion



#### Aluminum flange complete:

Surface chemical nickel treatment  
Connect the glass flange mouth  
easy and convenient  
SUS hexagonal screw



#### Suction, Feed port:

Connect pipeline with glass  
vacuum and circulating  
water pipe connection  
Ensure vacuum or pipeline  
sealing performance

#### Specifications:

Model	RE-LA-5	RE-LA-10	RE-LA-20	RE-LA-50
Capacity of Rotary Bottle	5L	10L	20L	50L
Flanged diameter	Φ50mm	Φ95mm	Φ95mm	Φ125mm
Capacity of Collecting bottle	3L	5L	10L	20L
Rotary control	LCD display, frequency conversion stepless			
Rotary speed	20 ~ 140r/min	20 ~ 130r/min	20 ~ 130r/min	20 ~ 110r/min
Power of rotary motor(W)	250W	250W	250W	250W
Condensing tube	Vertical double serpentine tube	Vertical, main + auxiliary cooling and highly efficient three circulating		
Water Bath	SS304 Stainless steel water bath with coating layer			
Temp. Range	LCD Digital display, RT~99°C			
Vacuum degree	399.9Pa (below 3mmHg)			
Evaporating capability	Water≥2L/h Alcohol≥5.4L/h	Water≥3.2L/h Alcohol≥8.6L/h	Water≥5L/h Alcohol≥14.3L/h	Water≥9L/h Alcohol≥24.5L/h
Elevating mode	Electric	Electric	Electric	Electric & Manual
Elevating stroke	0~150mm	0~160mm	0~190mm	0~180mm
Power supply	220-240V/50Hz/60Hz		380V/50Hz/60Hz	

Power	2.3KW	3.8KW	6.3KW	6.3KW
Dimensions(mm)	765L*400W*1070H	920L*550W*1700H	1250L*600W*2100H	1320L*770W*2340H
Weight	35kg	61kg	90kg	140kg

### Ex-proof type

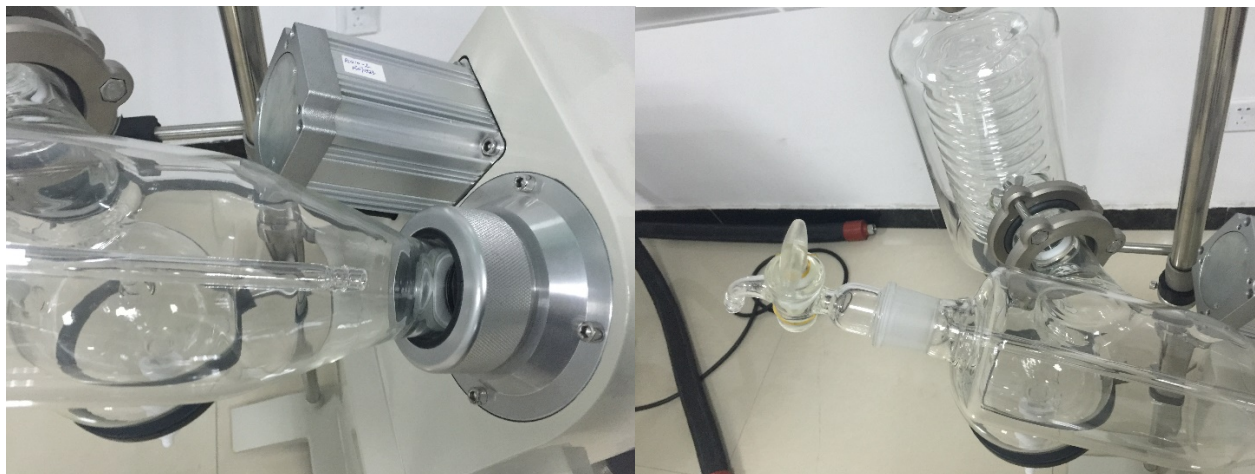
Model	RE-LA-5Ex	RE-LA-10Ex	RE-LA-20Ex	RE-LA-50Ex
Capacity of Rotary Bottle	5L	10L	20L	50L
Flanged diameter	Φ50mm	Φ95mm	Φ125mm	Φ125mm
Capacity of Collecting bottle	3L	5L	10L	20L
Rotary control	Frequency conversion stepless			
Rotary speed	10 ~ 140r/min	10 ~ 130r/min	10 ~ 130r/min	10 ~ 110r/min
Power of rotary motor(W)	40W	90W	180W	370W
Explosion-proof grade	ExdIIBT4	ExdIIBT4	ExdIIBT4	ExdIIBT4
Condensing tube	Vertical double serpentine tube	Vertical, main + auxiliary cooling and highly efficient three circulating		
Water Bath	SS304 Stainless steel water bath with coating layer			
Temp. Range	LCD Digital display, RT~99℃ ±1℃			
Vacuum degree	399.9 Pa (below 3mmHg)			
Vacuum seal	Teflon - fluorinated rubber double seal			
Evaporating capability	Water≥2L/h Alcohol≥5.4L/h	Water≥3.2L/h Alcohol≥8.6L/h	Water≥5L/h Alcohol≥14.3L/h	Water≥9L/h Alcohol≥19L/h
Elevating mode	Manual	Manual	Manual	Manual
Elevating stroke	0~150mm	0~160mm	0~190mm	0~180mm
Power supply	220-240V/50Hz/60Hz		380V/50Hz/60Hz	
Power	3.1KW	3.8KW	6.3KW	8.3KW
Host dimensions(mm)	835L*400W*1090H	920L*550W*1700H	1250L*600W*2100H	1320L*770W*2140H
Control box dimensions (mm)	500L*455W*985H	500L*455W*985H	500L*455W*985H	500W*455D*985H
Weight	118kg	143kg	173kg	200kg

## Typical Application



## Actual product details:





**Factory View**



## Customer Site

