

# R-1050 Rotary Evaporator

Electronic stepless speed regulation, operate stably  
Corrosion resistance and long service life

## R-1050旋转蒸发仪

电子无级调速，运行平稳  
回收率高，耐腐蚀，使用寿命长



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# PRODUCT DESCRIPTION

## 产品描述

R-1050 rotary evaporator adopts stepless speed function to make rotary flask rotates in constant speed, the material formed a large area of thin film, then the constant temperature water bath begin to uniform heat the rotary flask and the material is evaporated in high speed under vacuum condition, the solvent steam is refrigerated by efficient glass condenser and received to receiving flask.

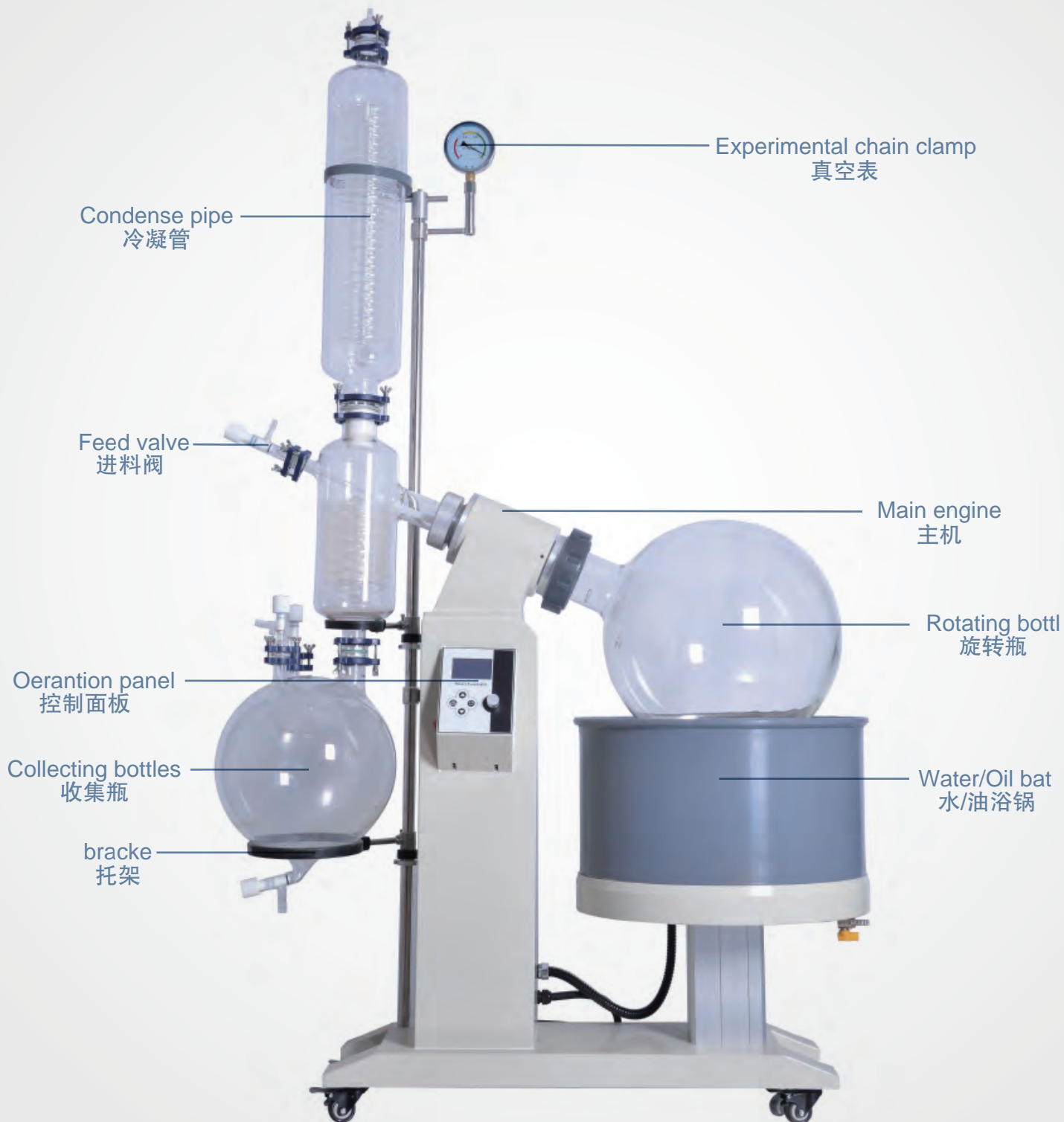
Rotary evaporator is also known as rotovap or rotavap, it is a common used lab instrument in chemical laboratory, mainly used for the continuous distillation of large amount easily volatilized solvents under negative pressure. Especially for the concentration of extract liquor and distillation of receive liquid when chromatograph. Because evaporator is vacuumized, to be distilled solvent' s boiling point depressed. In general, ingredient which is distilled form sample is the target ingredient in chemical research, such as extracting some natural ingredient from organic synthesis sample. Rotary evaporator mostly is used for isolating low-boiling ingredient, such as hexane, ethyl acetate, that presenting liquid state under room temperature and normal pressure. Besides, it can dislodge some ingredient in sample by standard operation.

R-1050 旋转蒸发器是用无级调速使玻璃旋转瓶恒速旋转，物料在瓶壁形成大面积均匀薄膜，再由智能恒温水浴锅对旋转瓶进行均匀加热，在真空条件下高速蒸发，溶媒蒸气经高效玻璃冷凝器冷却，回收于收集瓶。

旋转蒸发仪又称旋转蒸发器或旋蒸，是一种化学实验室常用的实验仪器，主要用于在负压条件下连续蒸馏大量易挥发性溶剂。尤其对萃取液的浓缩和色谱分离时的接收液的蒸馏，可以分离和纯化反应产物。由于蒸发仪被抽真空，待蒸馏的溶剂沸点降低。通常情况下，从样品中蒸馏出来的成分是化学研究中目的成分，例如有机合成样品中提取某种天然成分。旋转蒸发仪多数情况下使用来分离低沸点的成分，例如己烷、乙酸乙酯，这些成分在室温和常压状态下呈液态。另外，通过规范的操作，也可以达到去除样品所含的某种成分。

# DETAILS DRAWING

## 零件详图



# PRODUCT PARAMETER

## 产品参数

Type 型号	R-1050	
Glass Material 最佳环境温度(°C)	5~35	
Support Material 电源(V/Hz)	single phase (220V/50Hz, 220V/60Hz) three phase (220V/50Hz, 380V/60Hz)	(220V/50Hz, 220V/60Hz)单相 (380V/50Hz,220V/60Hz)三相
Main Engine Speed Regulation 主机调速	Digital Display DC stepless speed regulation 数字直流电子调速	
Main Engine Rotary Speed 旋转速度	5-120rpm	
Rotary Motor Power(W) 旋转功率(W)	100W	
Temperature Control (°C) 浴锅控温范围(°C)	Digital display temperature control,0-400°C 数字控温, 0-400°C	
Heating Temperatur(°C) 加热温度(°C)	Room temperature -250 °C 室温-250°C	
Max vacuum degree(Pa) 最大真空度	399.9Pa (under3mmHg) 399.9Pa (低于 3mmHg)	
Rotary Flask(L) 旋转瓶(L)	50L $\phi$ 125 flange port	
Receiving Flask(L) 收集瓶(L)	20L	
Condenser Tube 冷凝管	Main condenser+subordinate condenser,three backflow condenser 立式、主冷+副冷, 高效三层蛇形盘管	
Evaporative Capacity(L/h) 蒸发能力(L/h)	water $\geq$ 9 ethyl alcohol $\geq$ 24.5 水 $\geq$ 9 乙醇 $\geq$ 19	
Water Bath Material 水浴锅材质	Stainless Steel (Covered wirh Silicone Rubber Case) 不锈钢 304(硅胶外套)	
Water Bath Siz (mm) 水浴锅尺寸(mm)	$\phi$ 550*320	
Lifting Function 升降功能	Electric Lifting 电动升降	
Lifting power(W) 升降电机(W)	60	
Up and Down distanc(mm) 升降行程(mm)	0-180	
Total Power(Kw) 整机功率(kw)	8.3	
Packing Dimension (mm) 外形尺寸(mm)	1320*770*2340	

## PRODUCT DETAILS

### 细节优点



## Water Bath

### 浴锅

Intelligent digital display lifting water and oil universal bath, stainless steel one-time forming liner without welding, annular heating tube heating evenly, heating rate is fast

智能数显升降型水油通用浴锅，不锈钢一次成型内胆无焊接，环形加热管加热均匀，升温速率快



## Condenser Tube

### 冷凝管

Main condenser and auxiliary condenser structure, double backflow snake-like condenser increased cooling area and promote cooling efficiency

主冷凝器和辅助冷凝器结构，双回流蛇形冷凝器增加冷却面积，提高冷却效率



## Motor

### 电机

DC speed regulator, wide speed regulation range, fast dynamic response, smooth velocity change, large low speed torque.

直流调速，调速范围宽，动态响应快，速度变化平稳，低速扭矩大



## Monitor

### 显示器

LCD screen display both temperature and rotating speed, operation is simple and convenient

液晶屏显示温度和转速，操作简单方便

# MATCHING PRODUCTS

## 配套产品



R-1050 Rotary Evaporator

R-1050 旋转蒸发仪



DLSB cooling pump  
DLSB 制冷泵



SHZ-95B Vacuum Pump  
SHZ-95B 真空泵



Rotary Vane Vacuum Pump  
旋片式真空泵



YH Diaphragm Vacuum Pump  
YH隔膜真空泵

# SERIES PRODUCTS

系列产品



RE-52A



RE-100Pro



RE-301



RE-2002







RE-3002








RE-5003

# QUALITY CERTIFICATION

## 品质认证

 <b>ISET S.r.l.</b> <small>Sede Legale e Uffice: Via Cassanese di Magenta S1 40024 Magenta (MI) Tel. n° 02 337 750 369 Fax n° 02 337 750 369 www.i-set.com</small>		<small>C.A.P. 20136/01 02 337 750 369 Cod. Fisc. n° P. IVA 02 337 750 369 Rag. Imprese REA MN 0221098</small>	
<b>CERTIFICATE OF COMPLIANCE</b> Certificado de Conformidade - Сертификат соответствия - Konformitätserklärung			
<b>D) APPLICANT:</b> Henan Lanphan Trade Co., Ltd. Room 801, Building B, North Jianshe Road, West Qinling Haod Road, Zhongyuan District, Zhengzhou City, China  <b>MANUFACTURER:</b> Henan Lanphan Industry Co., Ltd. North Jianshe Road, West Qinling Road, Zhongyuan District, Zhengzhou City, China		<b>3) CERTIFICATE NO.:</b> IT0524LP16011804  <b>TEST REPORT(S) NO.:</b> DL-2018010006E DL-2018010009S DL Certification&Testing Co., Ltd.	
<b>3) WITH REFERENCE TO EC DIRECTIVE APPLIED:</b> Low Voltage Directive 2014/35/EU Electromagnetic Compatibility 2014/30/EU  <b>HARMONIZED STANDARDS APPLIED:</b> EN 61326-1:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61010-1:2010		<b>4) CERTIFICATION ISET MARK:</b> 	
<b>5) PRODUCT CHARACTERISTICS:</b> Circulating Water Vacuum Pump <b>TRADE MARK:</b>  <b>MODEL(S):</b> SHZ-85B SHZ-D111, SHZ-CA, SHZ-CB, SHZ-C, SHZ-CD, SHZ-2000			
<b>REMARK:</b> The verification has been carried out on a voluntary basis. We attest that a TCF is in place. The product(s) satisfies the requirements of the Certification Mark of ISET, in reference to the above list standard(s). The above compliance mark can be fixed on the product(s) according to the ISET regulation about its release. This verification doesn't imply assessment of the production and the product(s). <i>Notice of the CE marking: The label of the CE marking: Not less than 5mm height. Before putting the product(s) into market, CE marking and EC declaration are duties of the manufacturer. The manufacturer is responsible to start the CE marking certification procedure and to perform the activities according to all the relative directives(s).</i>			
<b>6) DATE OF ISSUE:</b> 16/01/2018 <b>CERTIFICATION MANAGER:</b> 		<b>DATE OF EXPIRE:</b> 15/01/2021 	

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<b>5) PRODUCT CHARACTERISTICS:</b> Rotary Evaporator <b>TRADE MARK:</b>  <b>MODEL(S):</b> RE-501, RE-201D, RE-52A, RE-52C, RE-2010, RE-2000A, RE-2000B, RE-2000E, RE-301, RE-3000A, RE-3000B, RE-3000E, RE-3000, RE-1002, RE-2002, RE-3002, RE-5003, RE-1001L, R-1003, R-1010, R-1020, R-1050			
<b>REMARK:</b> The verification has been carried out on a voluntary basis. We attest that a TCF is in place. The product(s) satisfies the requirements of the Certification Mark of ISET, in reference to the above list standard(s). The above compliance mark can be fixed on the product(s) according to the ISET regulation about its release. This verification doesn't imply assessment of the production and the product(s). <i>Notice of the CE marking: The label of the CE marking: Not less than 5mm height. Before putting the product(s) into market, CE marking and EC declaration are duties of the manufacturer. The manufacturer is responsible to start the CE marking certification procedure and to perform the activities according to all the relative directives(s).</i>			
<b>6) DATE OF ISSUE:</b> 16/01/2018 <b>CERTIFICATION MANAGER:</b> 		<b>DATE OF EXPIRE:</b> 15/01/2021 	



## CERTIFICATE OF REGISTRATION

Certificate NO: 10134302E

This is to Certify that the Environmental Management System of

**Henan Lanphan Industry Co., Ltd.**  
 Room 801, Block B, North of Jianshe Road, West of Qinling Road, Zhongyuan District, Zhengzhou City, He'nan Province, China

Has been audited to the following Environmental Management System standard:

### ISO14001:2015

This system is valid for the

Sales of Valves, pipe fittings, rubber products, plastic products, metal products, glassware, water treatment equipment, stainless steel products, children's toys, needles textiles, mechanical and electrical products, amusement equipment, building materials, machinery equipment, hardware tools; Design and construction of anti-corrosion insulation engineering, municipal engineering, highway engineering; Construction labor subcontracting; Electromechanical equipment installation engineering; Installation of water and electricity; Integrated wiring system engineering; Installation and maintenance of computer; Technical development, technology transfer and technical consultation of computer software; Technical development of photoelectric integration; Property services; Cleaning services involved in environmental management activities

Date of issue: Jan. 09, 2018      Date of expiry: Jan. 08, 2021

This certificate will not remain valid only if the certified organization accepts at least one surveillance audit annually within the validity period of the certificate in which the surveillance audit conforming mark is in the designated position on the certificate.






Issued by:

12months    24months




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## CERTIFICATE OF REGISTRATION

Certificate NO: 10134302Q

This is to Certify that the Quality Management System of

**Henan Lanphan Industry Co., Ltd.**  
 Room 801, Block B, North of Jianshe Road, West of Qinling Road, Zhongyuan District, Zhengzhou City, He'nan Province, China

Has been audited to the following Quality Management System standard:




### ISO9001:2015

This system is valid for the

Sales of Valves, pipe fittings, rubber products, plastic products, metal products, glassware, water treatment equipment, stainless steel products, children's toys, needles textiles, mechanical and electrical products, amusement equipment, building materials, machinery equipment, hardware tools; Design and construction of anti-corrosion insulation engineering, municipal engineering, highway engineering; Construction labor subcontracting; Electromechanical equipment installation engineering; Installation of water and electricity; Integrated wiring system engineering; Installation and maintenance of computer; Technical development, technology transfer and technical consultation of computer software; Technical development of photoelectric integration; Property services; Cleaning services


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## CUSTOMERS FROM VARIOUS COUNTRIES

各国客户



## FACTORY SITUATION

工厂情况



# TRANSPORT

## 快递物流



Type 型号	R-1050
Packing Dimension 外形尺寸	1320*770*2340mm
Weight(kg) 重量(kg)	150



### PACKAGING:

1. Cartons + wooden cases
2. Custom packaging is available.

### 打包:

1. 纸箱+木箱。
2. 可以提供定制包装。

### SHIPMENT:

1. We can deliver the goods to you by international express, such as DHL, UPS, TNT, EMS and so on.
2. You can also choose the right one according to the schedule and budget.
3. You may choose to use your own shipping agent.

### 运输:

1. 我们可以通过国际快递将货物运送给您，如DHL，UPS，TNT，EMS等。
2. 您还可以根据时间表和预算选择一个合适的。
3. 您可以选择使用自己的运输代理商。

## FAQ

### 常见问题解答

1. ASK:What factor decides the working efficiency of Rotary Evaporator

Answer:For same type equipment, mainly includes: steam temperature, vacuum degree and cooling water temperature. Restricted by some material's thermolability, the steam temperature may have certain limitation when working,so high vacuum degree and low cooling water temperature are two main factors for efficiency improving (can select cryopump to lower the temperatur)

2. ASK:How about the anti-explosion ability of R series Rotary Evaporator?

Answer: Our company's Rotary Evaporator adopt alternating current dynamo,stepless speed regulating (or frequency control), no electric brush and no sparkin operation. Water bath kettle which goes with the evaporator adopts nitrogen-sealed relay control, silicon-controlled contactless switch and vacuum switch. Manual control switch adopt twice circuit control which make electric current less than 3mA and has favorable anti-explosion feature

3. ASK:What's the feature of rotary evaporator comparing to other evaporators?

Answer:It has the advantage of small structure, efficient, easy to observe and no metal ion pollution. It is applicable for laboratory, production and valuable material extraction. Its leakproofness ability can compare favorably with foreign equipment while it remain improvement in appearance and humanization design.

1、问：影响旋转蒸发器效率的因素主要有哪些？

答：就同一规格机器而言，主要有：蒸汽温度、真空度和冷却水温。受某些物料不耐热性的制约，工作时不可能无限提高蒸汽温度，故高真空度和低冷却水温是提高效率的三大主要因素（可选用低温泵，降低水温）。

2、问：R系列蒸发器的防爆性如何？

答：我厂生产的旋转蒸发器采用交流电机，无级调速（或变频调速），无电刷，运转中无火花。与之相配的水浴锅控制分别采用充氮密封继电器，可控硅无触点开关，真空开关。手动控制开关采用二次线路控制，控制电流小于3mA，有良好的防爆特性。

3、问：旋转蒸发仪与其他类型蒸发仪相比如何？

答：它的主要优点是结构小巧，紧凑高效，工作直观，无金属离子污染。适用于实验室、生产中试及名贵物料的提取。其密封性能可与国外的机器相媲美，但在外观和人性化设计上还有待改进。



## PLEASE CONTACT US

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