

# R-1020 Rotary Evaporator

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

## R-1020 旋转蒸发器

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-1020 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.

R-1020 rotary evaporator is a newly designed rotary evaporator of our company, this series has 5L, 6L, 10L, 20L, 50L for selection.

R-1020 has new breakthroughs based on RE-1002 rotary evaporator:

1. Equip PTFE valve between condenser and receiving flask, easy operation and good sealing.
2. Check valve control, continuous charging, available for vacuum switch in working condition. The check valve also could be replaced with hand-operated valve to convenient for operation, better sealing performance.
3. The discharging valve is made from teflon, consider of thermal expansion, other valves use glass valve element.
4. The water bath is electric lifting, lifting part use deceleration reinforcement motor, lifting process is more stable.
5. Use thicken rotary bottleneck to enhance loading bearing strength.
6. Use thicken rotary axis to enhance evaporation efficiency.
7. If the rotary evaporator sudden power lost during operation, when reconnect the power, it will automatic stop heating.

R-1020旋转蒸发仪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。R-1010是我公司新款旋转蒸发仪，有10L, 20L, 50L三款可供选择。

R-1020旋转蒸发仪在继承RE-1002优良性能的基础上，有了新的突破，主要表现在：

1. 真空压力表显示实时真空，油性表具有防震特性。
2. 止回阀控制，可连续放料，机器在工作状态下可进行真空切换。
3. 所有阀门采用最新式一体手轮阀，密封性好，操作更为简单方便。
4. 浴锅电动升降，升降部分采用减速增力电机，升降过程中更平稳。
5. 超温安全保护功能，当实际温度超过设定温度5C°时，机器加热就会自动断电。
6. 机器工作途中如果突然断电，再次接通电源时，机器会自动停止加热

# DETAILS DRAWING

## 零件详图



# PRODUCT PARAMETER

## 产品参数

Type 型号	R-1020	
Optimum Ambient Temperature(°C) 最佳环境温度(°C)	5~35	
Power(V/Hz) 电源(V/Hz)	(220V/50Hz,220V/60Hz) Single Phase (380V/50Hz,220V/60Hz) Three Phase	(220V/50Hz,220V/60Hz) 单相 (380V/50Hz,220V/60Hz)三相
Main Engine Speed Regulation 主机调速	Digital DC electronic speed regulation 数字直流电子调速	
Main Engine Roaty Speed(rpm) 主机转速(rpm)	5-120	
Rotary Motor Power(w) 旋转电机功率(W)	60	
Temperature Control(°C) 温度控制(°C)	Digital display temperature control,0-400°C 数显控温,0-400°C	
Heating Temperature(°C) 加热温度(°C)	RT-250°C 室温-250°C	
Max vacuum degree(Pa) 最大真空度(Pa)	399.9(under 3 mmHg) 399.9 (3mmHg 以下)	
Rotary Flask(L) 旋转瓶(L)	20L $\phi$ 125 flange port 20L $\phi$ 法兰口	
Receiving Flask(L) 回收瓶(L)	10	
Condenser Tube 冷凝管	Main condenser+subordinate condenser,three backflow condenser 主冷+副冷,高效三回流冷凝管	
Evaporative Capacity(L/h) 蒸发能力(L/h)	water $\geq$ 5 水 $\geq$ 5	ethyl alcohol $\geq$ 14.3 酒精 $\geq$ 14.3
Water Bath Material 水浴锅材质	Stainless Steel 304 (Covered with Silicone Rubber Case) 不锈钢 304 (外包硅胶套)	
Water Bath Size(mm) 水浴锅尺寸(mm)	$\phi$ 450*250	
Lifting Function 升降功能	Electric Lifting 电动升降	
Lifting Motor(W) 升降电机(W)	40	
Lifting Distance(mm) 升降行程(mm)	0~180	
Total Power(KW) 整机功率(KW)	5.1	
Overall Dimension(mm) 整机尺寸(mm)	1250*600*2100	



## PRODUCT DETAILS

### 细节优点



## Vacuum Meter

### 真空计

Special designed vacuum meter, high precision and good quality.

特殊订制真空表，精度高，产品质量有保证。



## Condenser Tube

### 冷凝管

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

凝器采用主冷凝+副凝结构，内部采用特制的双回流蛇形冷凝盘管，增加冷却面积，提高冷却效率。



## LCD

### 液晶显示

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

大屏液晶数显，温度转速双数显，操作简单便捷。



## Flange connection

### 连接法兰

Flange connection make it easy to dismount, high fastening strength.

各部件之间采用特制的法兰连接，拆装方便，紧固强度高。

# MATCHING PRODUCTS

## 配套产品



R-1020 Rotary Evaporator  
R-1020 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



R-1050



RE-2002



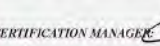







RE-5003








# 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-italia.com</small>		<small>Cap. Soc. i.v. € 10.200,00 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-5000, 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>			
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 <b>CERTIFICATION EUROPE HONG KONG</b>	
<b>Certificate of Registration</b> Certificate NO: 10134302E	
This is to Certify that the Environmental Management System of <b>Henan Lanphan Industry Co., Ltd.</b> 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:	
 <b>ISO14001:2015</b> 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 CERTIFICATION EUROPE(HONGKONG)LIMITED    WWW.CCE-HK.COM	

 <b>CERTIFICATION EUROPE HONG KONG</b>	
<b>Certificate of Registration</b> Certificate NO: 10134302Q	
This is to Certify that the Quality Management System of <b>Henan Lanphan Industry Co., Ltd.</b> 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:	
<b>ISO9001:2015</b> 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-1020
Package Size(mm) 包装尺寸(毫米)	1250*600*2100
Weight(kg) 重量(kg)	114



### 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？

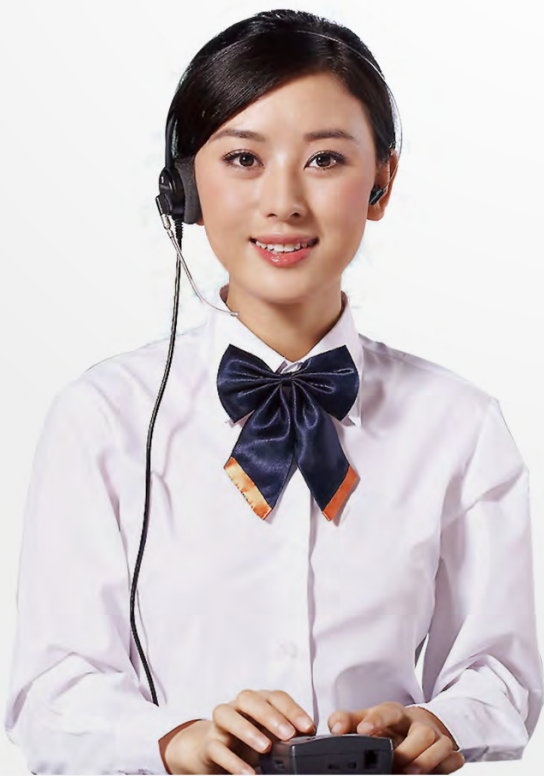
答：就同一规格机器而言，主要有：蒸汽温度、真空度和冷却水温。受某些物料不耐热性的制约，工作时不可能无限提高蒸汽温度，故高真空度和低冷却水温是提高效率的两大主要因素（可选用低温泵，降低水温）。

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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