

RE-3000E Rotary Evaporator

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

RE-3000E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

RE-3000E rotary evaporator is a newly designed new generation smart rotary evaporator, digital display of temperature, control part use high-performance single chip as main control chip, adopt special control program according to controlled member, beauty in appearance and stable in property. Besides, it has reserved updating connector, which can update software to meet client requirements.

Rotary evaporator, also called rotavap or rotovap, is a commonly used lab instrument in chemistry laboratory, mainly used in continuous distillation of a large amount of volatile solvent 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 from 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 indoor temperature and normal pressure. Besides, it can dislodge some ingredient in sample by standard operation.

RE—3000E旋转蒸发仪是最新研发的新一代智能型旋转蒸发器，温度转速双数显，控制部分采用高性能单片机作为主控芯片，根据制定控制对象，采用专用控制程序，整机美观大方、性能稳定，并且本装置预留升级接口，针对不同的客户需求，通过升级软件即可达到用户要求。

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



Condense pipe
冷凝管

Feed valve
进料阀

Collecting bottles
收集瓶

Operation panel
控制面板

Main engine
主机

Rotating bottle
旋转瓶

Water/Oil bath
水/油浴锅



PRODUCT PARAMETER

产品参数

Type 型号	RE-3000A	RE-3000B	RE-3000E
Glass Material 玻璃材质	GG-17		
Support Material 支架材质	Aluminum allo 铝合金		
Inner Container Material 锅壳材质	Aluminum allo+Teflon recombination,full-closed heating 250*130mm 铝合金+特氟隆复合锅,全封闭加热 250*130mm		
Volume of Ritary Bottle 旋转瓶容积	3L ϕ 50 flange port 3L ϕ 50 法兰口		
Volume of Recycling Bottle 收集瓶容积	2L 35#Standard Aperture 2L 35#球磨口		
Rotating Speed 旋转速度	0-180rpm		
Rotating Power 旋转功率	40W		40W Brushless Electric Machie(无刷电机)
Heating Power 加热功率	1.5KW		
Temperature Control Range of Bath Kettle 浴锅控温范围	0-99℃		
TemperatureAccuracy 控温精度	$\pm 1^{\circ}\text{C}$		
Up and Down distanc 升降行程	120mm		
Voltage/Frequency(V/Hz) 电压/频率 (V/Hz)	220V/50Hz		
Shape Size(mm) 外形尺寸 (mm)	660*420*830		
Package Size(mm) 包装尺寸 (mm)	630*560*540 0.19m ³		
Package Weight(KG) 包装重量(kg)	30		

PRODUCT DETAILS

细节优点



Water Bath

浴锅

Water bath kettle use Teflon material, full sealed heater, excellent heat protection and energy-saving effect

水浴锅采用特氟龙材质,全密封加热器,保温节能效果优异



Condenser Tube

冷凝管

High efficient double condenser to ensure high recovery rate

采用主副高效双冷凝器,确保高回收率



Double seal

双层密封

Teflon and fluororubber are double sealed to maintain high vacuum

特氟龙 (Teflon) 和氟橡胶进行双层密封,保持高真空度



Monitor

显示屏

Digital display of temperature, electronic stepless speed regulation, operate stably; Humanized operation system, seesaw type button is easy to handle and fast

温度数显,电子无级调速,运行平稳,人性化操作系统,运用跷板式按键,操作方便,响应速度快

MATCHING PRODUCTS

配套产品



RE-3000E Rotary Evaporator
RE-3000EV 旋转蒸发仪



DLSB cooling pump
DLSB 制冷泵



SHZ-D III Vacuum Pump
SHZ-D III 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

 ISET S.r.l. <small>Sede Legale e Uffici: Via Donato di Sanguis S: 40024 Magenta (MI) Tel. +39 0376 589863 jset@set-italia.com www.set-italia.com</small> <small>Cap. Soc. i.v. Cod. Fisc. e P.IVA Reg. Imprese REA</small> <small>€ 10.200,00 02 232 750 369 02 232 750 369 MN 0221089</small>	
CERTIFICATE OF COMPLIANCE Certificado de Conformidade - Сертификат соответствия - Konformitätserklärung	
D) APPLICANT: Henan Lanphan Trade Co., Ltd. Room 801, Building B, North Jianshe Road, West Qinling Haod Road, Zhongyuan District, Zhengzhou City, China MANUFACTURER: Henan Lanphan Industry Co., Ltd. North Jianshe Road, West Qinling Road, Zhongyuan District, Zhengzhou City, China	3) CERTIFICATE NO.: IT0524LP16011801 TEST REPORT(S) NO.: DL-2018010006E DL-2018010009S DL Certification & Testing Co., Ltd.
3) WITH REFERENCE TO EC DIRECTIVE APPLIED: Low Voltage Directive 2014/35/EU Electromagnetic Compatibility 2014/30/EU HARMONIZED STANDARDS APPLIED: EN 61326-1:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61010-1:2010	4) CERTIFICATION ISET MARK: 
5) PRODUCT CHARACTERISTICS: Circulating Water Vacuum Pump TRADE MARK:  MODEL(S): SHZ-95B, SHZ-D111, SHZ-GA, SHZ-CB, SHZ-C, SHZ-CD, SHZ-2000	
REMARK: 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 products. 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 directive(s). 	
6) DATE OF ISSUE: 16/01/2018 DATE OF EXPIRE: 15/01/2021 CERTIFICATION MANAGER:  	

 ISET S.r.l. <small>Sede Legale e Uffici: Via Donato di Sanguis S: 40024 Magenta (MI) Tel. +39 0376 589863 jset@set-italia.com www.set-italia.com</small> <small>Cap. Soc. i.v. Cod. Fisc. e P.IVA Reg. Imprese REA</small> <small>€ 10.200,00 02 232 750 369 02 232 750 369 MN 0221089</small>	
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5) PRODUCT CHARACTERISTICS: Rotary Evaporator TRADE MARK:  MODEL(S): 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-500X, RE-1002, RE-1002E, RE-3002, RE-5003, RE-100X, R-1003, R-1010, R-1020, R-1050	
REMARK: 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 products. 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 directive(s). 	
6) DATE OF ISSUE: 16/01/2018 DATE OF EXPIRE: 15/01/2021 CERTIFICATION MANAGER:  	

 CERTIFICATION EUROPE HONG KONG 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 CERTIFICATION EUROPE(HONGKONG)LIMITED WWW.CCE-HK.COM	
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 CERTIFICATION EUROPE HONG KONG 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 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	
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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	RE-3000E
Package Size(mm) 包装尺寸(毫米)	630*560*540 0.19m ³
Weight(kg) 重量(kg)	30



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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