

RE-301 Rotary Evaporator

Has the function of dry burning resistant protection
Corrosion resistance and long service life

RE-301 旋转蒸发仪

拥有防干烧保护功能
回收率高,耐腐蚀,使用寿命长



☎ whatsapp: +86-13783661974

☎ : +86-371-67447888

☎ : +86-371-67447999

🌐 : www.rotovap.cn

@ : rotovap@lanphan.com

PRODUCT DESCRIPTION

产品描述

RE-301 rotary evaporator's maximum capacity is 3000ml, rotate speed is 10-120r.p.m, motor power is 40W. RE-301 rotary evaporator is the basic rotary evaporator series product of Henan Lanphan at present, it has manual up and down handle. The independent developed and elaborate designed machinery and glass components can accurately set the location of glass component. The digital display rotate speed and heating kettle's temperature helps you optimally control all distillation process. New type fixation system greatly simplified the operation process of changing evaporating flask.

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-301旋转蒸发仪最大容量3000ml, 转速10-120r.p.m, 电机功率40W。RE301旋转蒸发仪是兰帆现有旋转蒸发仪产品系列的基础, 它拥有手动升降把手, 自主研发的机械和玻璃组件设计精巧, 可以精确设定玻璃组件的位置。数字显示转数和加热锅温度可以帮助您优化控制所有蒸馏过程。新型固定机制简化了蒸发瓶的更换操作流程

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	RE-301
Glass Material 玻璃材质	GG-17
Support Material 支架材质	Stainless steel 不锈钢
Shell Material 锅壳材质	Antisepis Plastic Spraying 290*296*240mm 喷塑防腐 290*296*240mm
Inner Container Material 锅胆材质	Stainless Steel 255*170mm 不锈钢 255*170mm
Baseboard Size 底板尺寸	350*330mm
Volume of Ritary Bottle 旋转瓶容积	3L ϕ 50 Flange apertur 3L ϕ 50法兰口
Volume of Recycling Bottle 收集瓶容积	2L 35 # Ground apertur 35 # 球磨口
Vacuum Degree 真空度	0.098Mpa
Rotating Power 旋转功率	40W
Rotating Speed 旋转速度	0-120rpm
Heating Power 加热功率	2KW
Temperature Control Range of Bath Kettle 浴锅控温范围	0-400°C
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*330*970
Package Size(mm) 包装尺寸 (mm)	1000*460*450 0.21m ³
Package Weight(KG) 包装重量(kg)	38

PRODUCT DETAILS

细节优点



Water Bath

浴锅

Its bath kettle's temperature control range is between 0-399°C, can be used as water bath kettle and oil bath kettle, temperature fluctuation is only $\pm 0.1^\circ\text{C}$, more stable evaporation, no spark control, much safe

旋转蒸发器的浴锅室温-399°C宽范围温控, 可作为水浴锅和油浴锅两用, 温度波动仅 $\pm 0.1^\circ\text{C}$, 蒸发更稳定, 不容易冲料, 无火花控制, 安全



Condenser Tube

冷凝管

Vertical type condenser has strong maneuverability, can equip cold trap and do low boiling point evaporation

旋蒸立式冷凝器机动性强, 可配置冷阱可做低沸点蒸发收集



Motor

电机

Silence design, optimal experiment environment

静音设计, 优化实验环境



Monito

显示屏

Digital display rotate speed and heating kettle's temperature helps you observe parameter at a glance

数字显示转速和加热锅温度, 各项参数一目了然

MATCHING PRODUCTS

配套产品



RE-301 Rotary Evaporator
RE-301 旋转蒸发仪



DLSB-5/10 cooling pump
DLSB-5/10制冷泵



SHZ-D III Vacuum Pump
SHZ-D III 真空泵

SERIES PRODUCTS

系列产品



RE-52A



RE-2010



RE-2000E



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 03716 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.: IT0524LP16011804 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 03716 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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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: 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-1003, 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-301
Package Size(mm) 包装尺寸(毫米)	1000*460*450 0.21m ³
Weight(kg) 重量(kg)	38



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:What's the difference between vertical and inclined condenser

Answer:They have no difference essentially. Vertical condenser is gradually popular because of its small space usage and convenience for transportation and use. Most high-capacity instruments use vertical condenser

3. ASK:What is the basis for the design of the main lifting and water bath lifting?

Answer:It's mainly from the consideration of convenience, safe and economical.Generally, small-size rotary evaporators below 5L use main engine rising and falling and evaporators which are above 5L use water bath kettle rising and falling.

4. 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

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：立式冷凝器和斜式冷凝器有何区别？

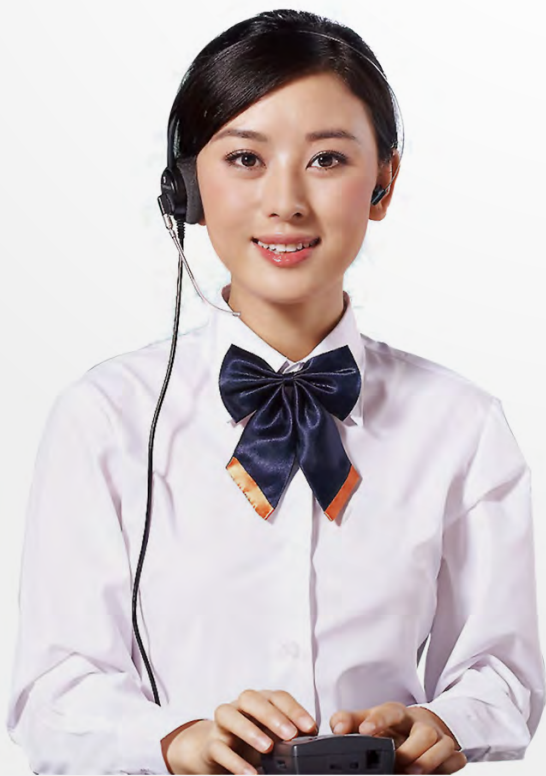
答：本质上无明显区别。立式冷凝器由于占用空间小，渐渐受到欢迎。大容量蒸发器一般采用立式冷凝器。

3、问：主机升降和水浴锅升降设计的依据是什么？

答：以方便、安全和经济为原则，国际上一般小型机器（5L以下）升降主机，5L以上升降水浴锅。

4、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。



PLEASE CONTACT US

Henan Lanphan Industry Co., Ltd

☎ whatsapp:+86-13783661974

☎ :+86-371-67447888

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