LANPHAN
Henan Lanphan Industry Co.,Ltd.

RE-52A Rotary Evaporato

Digital display of parameters makes it clear at a glanc

Corrosion resistance and long service life

RE-52A旋转蒸发仪

数字显示各项参数一目了然

回收率高，耐腐蚀，使用寿命长

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:www.rotovap.cn

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PRODUCT DESCRIPTION

产品描述

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 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 indoor temperature and normal pressure. Besides, it can dislodge some ingredient in sample by standard operation.

RE-52A rotary evaporator' s maximum capacity is 2000ml, rotate speed is 0-120r.p.m, motor power is 25W. RE-52A rotary evaporator use micro-motor to change speed, use lead screw up and down, hand wheel rotating makes main engine up and down. Rotary evaporator can rotate to form thin film and efficiently evaporation under thermostat heating and negative pressure, then cooling recycle the solvent, it is especially suitable for heat reactive material' s crystallization, separation and solvent recovery.

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。

RE-52A旋转蒸发仪最大容量2000ml，转速5-120r.p.m，电机功率25W。RE-52A旋转蒸发仪采用微电机变速，可通过手动或电动的方式，实现主机的上升或下降。旋转蒸发仪能在恒温加热、负压条件下旋转形成薄膜，高效蒸发，然后在冷却回收溶媒，特别适合对热敏感物料结晶、分离、溶媒回收等作业。

DETAILS DRAWING
零件详图

PRODUCT PARAMETER
产品参数

Type 型号	RE-52A
Glass Material 玻璃材质	GG-17
Support Material 支架材质	Antisepis Plastic Spraying 喷塑防腐
Shell Material 锅壳材质	Antisepis Plastic Spraying 250*365*150mm 喷塑防腐 250*365*150mm
Inner Container Material 锅胆材质	Stainless Steel 240*120mm 不锈钢 240*120mm
Rotating Flask Volume(L) 旋转瓶容积	1L 24#Standard Aperture 1L 24#标口
Receiving Flask Volume(L) 收集瓶容积	0.5L 24#Standard Aperture 0.5L 24#标口
Vacuum Degree 真空度	0.098Mpa
Rotating Power 旋转功率	30W Brushless Electric Machine 30W 无刷电机
Rotating Speed 旋转速度	0-120rpm
Heating Power 加热功率	1KW
Temperature Control Range of Bath Kettle 浴锅控温范围	0-99°C
TemperatureAccuracy 控温精度	±1°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)	700*440*1005
Package Size(mm) 包装尺寸(mm)	590*460*460 0.12m^3
Package Weight(KG) 包装重量(kg)	21

PRODUCT DETAILS
细节优点

Water Bath
浴锅

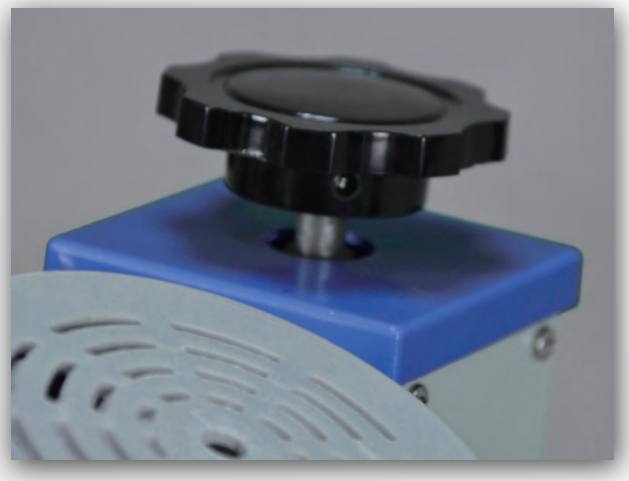
Intelligent digital display lifting water and oil universal bath, stainless steel one-time forming liner without welding, annular heating tube heating evenly, heating rate is fas

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

borosilicate glass one - time forming high efficiency serpentine condensing tube,good condensing effect and high recovery

高硼硅玻璃一次成型高效蛇形冷凝管，冷凝效果好，回收率高



Manual lifting
手动升降

Use lead screw up and down, hand wheel rotating makes main engine up and down

采用丝杠升降，把立柱顶上手轮转动即可实现主机的上升或下降

Monito
控制面板

The digital display of rotor speed and the temperature of the heating pot makes the parameters information clear at a glance. The main engine can be raised or lowered by manual

数字显示转速和加热锅温度，各项参数一目了然，可手动实现主机的升降

MATCHING PRODUCTS
配套产品

RE-52ARotary Evaporator
RE-52A旋转蒸发仪

DLSB-5/10 cooling pump
DLSB-5/10制冷泵

SHZ-DⅢ Vacuum Pump
SHZ-DⅢ 真空泵

SERIES PRODUCTS
系列产品

RE-100Pro

RE-2010

RE-2000E

R-1050

RE-2002

RE-5003

QUALITY CERTIFICATION
品质认证

ISET s.r.l.

ISTITUTO SERVIZI EUROPEI TECNOLOGICI

CERTIFICATE OF COMPLIANCE

Certificado de Conformidade - Сертификат соответствия - Konformitätserklärung

1) 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

2) CERTIFICATE NO.:
IT0524LP16011804

TEST REPORT(S) NO.:
DL-20180100008E
DL-20180100009S
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-CA, SHZ-CB, SHZ-C, SHZ-CD, SHZ-2000

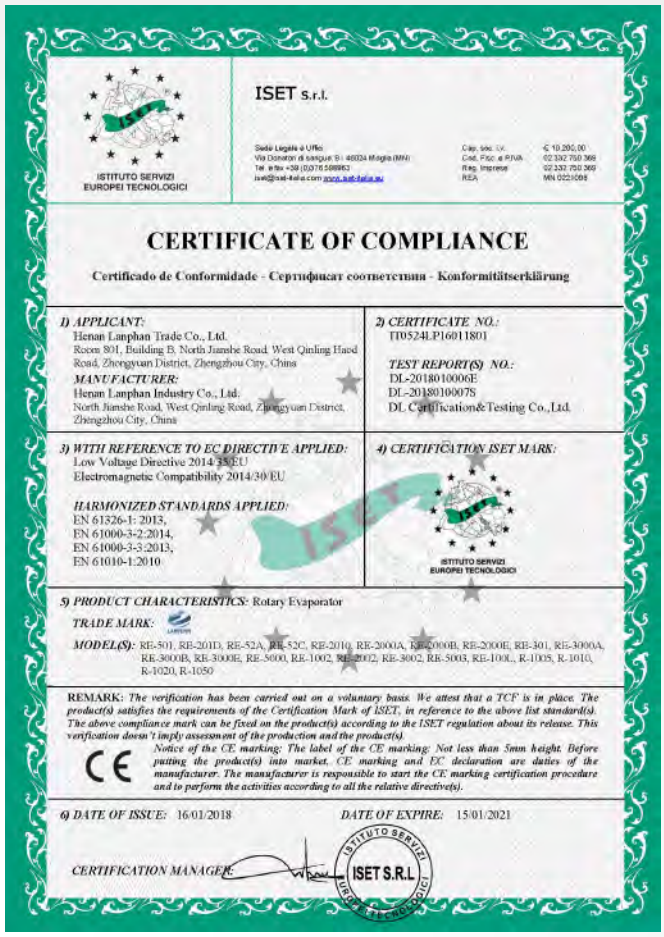
REMARK: The verification has been carried out on a voluntary basis. We attest that a TCF is in place. The product(s) satisfies the requirements of the Certification Mark of ISET, in reference to the above list standard(s). The above compliance mark can be fixed on the product(s) according to the ISET regulation about its release. This verification doesn't imply assessment of the production and the product(s).

CE *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.



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MANUFACTURER:
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North Jianshe Road, West Qinling Road, Zhongyuan District, Zhengzhou City, China

2) CERTIFICATE NO.:
IT0524LP16011801

TEST REPORT(S) NO.:
DL-20180100006E
DL-20180100007S
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: 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-5000, RE-1002, RE-2002, RE-3002, RE-5003, RE-100L, R-1005, 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 product(s).

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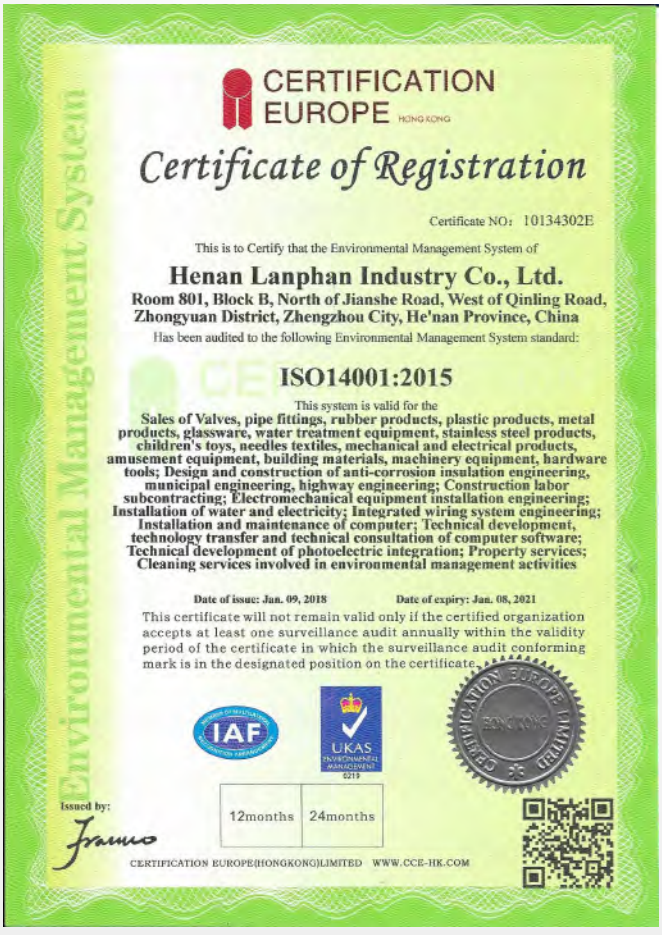

Environmental Management System

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.

IAF UKAS ENVIRONMENTAL MANAGEMENT 0219

CERTIFICATION EUROPE HONG KONG LIMITED

Issued by:

12months | 24months

CERTIFICATION EUROPE(HONGKONG)LIMITED WWW.CCE-HK.COM

Quality Management System

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**

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IAF UKAS QUALITY MANAGEMENT 0219

CERTIFICATION EUROPE HONG KONG LIMITED

Issued by:

12months | 24months

CERTIFICATION EUROPE(HONGKONG)LIMITED WWW.CCE-HK.COM

CUSTOMERS FROM VARIOUS COUNTRIES
各国客户

FACTORY SITUATION
工厂情况

TRANSPORT
快递物流

Type 型号	RE-52A
Package Size 包装尺寸(毫米)	590*460*440 0.12m³
Weight 重量(kg)	21

PACKAGING:

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

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.

打包:

1.纸箱+木箱。
2.可以提供定制包装。

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合适的一个。
3.您可以选择使用自己的运输代理商。

FAQ
常见问题解答

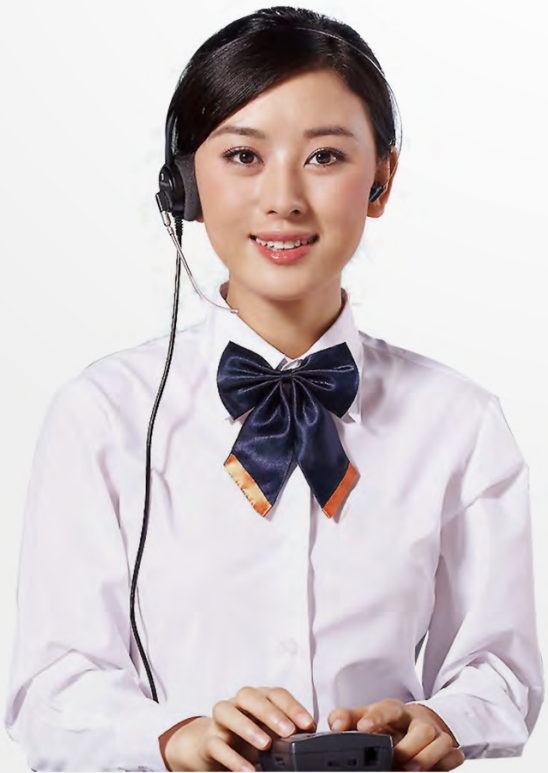
1. ASK:What factor decides the working efficiency of Rotary Evaporator
Answer:For same type equipment, mainly includes: steam temperature, vacuum degree and cooling water temperature. Restricted by some material's thermolability, the steam temperature may have certain limitation when working,so high 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二大主要因素（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

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