

RE-5003 Rotary Evaporator

Using PTFE and rubber composite seal with high recovery
Corrosion resistance and long service life

RE-5003 旋转蒸发器

采用聚四氟乙烯和橡胶复合密封
回收率高,耐腐蚀,使用寿命长



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PRODUCT DESCRIPTION

产品描述

RE-5003 rotary evaporator' s rotary bottle maximum capacity is 50L, receiving bottle' s maximum capacity is 30L, rotate speed is 0-90r.p.m, motor power is 250W. RE-5003 rotary evaporator(evaporating bottle volume>10L) is equipped with double condenser(main and vice condenser), which has better condensation effect and higher recovery rate. Because this rotary evaporator works under vacuum condition, and contact segment all adopt high temperature resistance material-high borosilicate glass and PTFE material, it is especially suitable for heat reactive material and material which is corrosive to stainless steel' s concentration, crystallization, separation and solvent recovery.

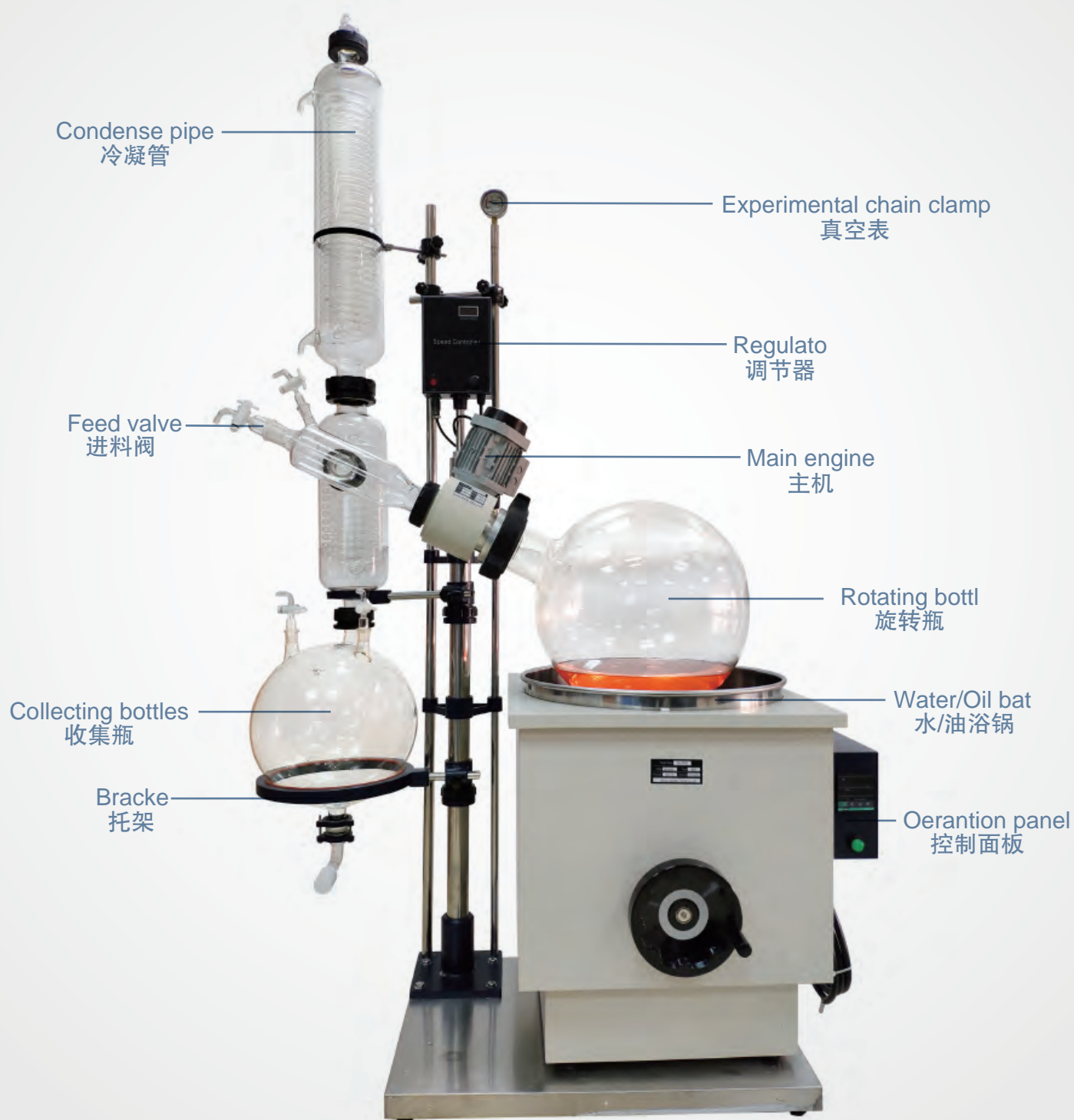
The rotary evaporator has advantages of large contact area, high evaporation efficient, easy to handle, low noise, good sealing performance, complete in specifications and can manage easily foam material. It already has various specification products: 2L, 3L, 5L, 10L, 20L, 30L, 50L, 100L and so on, and the 100L rotary evaporator is an exclusive research and developed large-size rotary evaporator of our company, designed for the purpose of mass production need.

RE-5003旋转蒸发仪旋转瓶最大容量50L, 收集瓶容量20L, 转速0-90r.p.m, 电机功率250W。RE-5003旋转蒸发仪(蒸发瓶容量在10升以上) 配备双冷凝器(主冷、副冷) 冷凝效果更佳, 回收率更高。由于本仪器是在真空条件下工作, 且与物料接触部分全部采用耐高温高硼硅玻璃和聚四氟乙稀材料, 所以本仪器特别适用于对热敏感性物料及对不锈钢等金属材料有腐蚀的物料的浓缩、结晶、分离、溶媒回收。

本仪器接触面积大、蒸发效率高、使用方便、噪音低、密封可靠, 可处理易发泡物料, 且规格齐全, 已形成2L、3L、5L、10L、20L、30L、50L、100L等多种规格产品, 100L旋蒸是本厂独家研发推出的大型旋蒸, 便于客户在实际大规模生产中的需要。

DETAILS DRAWING

零件详图



PRODUCT PARAMETER

产品参数

| | |
|---|---|
| Type 型号 | RE-5003 |
| 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 | Antiseosis Plastic Spraying 710*620*700mm 喷塑防腐 710*620*700mm |
| Inner Container Material 锅胆材质 | Stainless steel 550*320mm 不锈钢 550*320mm |
| Baseborad Size 底板尺寸 | 804*574mm |
| Volume of Ritary Bottle 旋转瓶容积 | 50L ϕ 125 flange port 50L ϕ 125 法兰口 |
| Volume of Recycling Bottle 收集瓶容积 | 20L ϕ 60 flange port 20L ϕ 60 法兰口 |
| Vacuum Degree 真空度 | 0.098Mpa |
| Rotating Power 旋转功率 | 180W 220V/50Hz |
| Rotating Speed 旋转速度 | 0-110rpm |
| Heating Power 加热功率 | 5KW 380V/50Hz |
| 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 | 180mm |
| Shape Size(mm) 外形尺寸 (mm) | 1520*620*2470mm |
| Package Size(mm) 包装尺寸 (mm) | 1450*390*440 1150*840*660 790*730*790 1.34m ³ |
| Package Weight(KG) 包装重量(kg) | 170 |

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

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



Motor

电机

High quality stainless steel motor, frequency control

优质不锈钢机头, 变频调速



Discharging Valve

放料阀

Full PTFE discharge valve, no material completely free of pollution

PTFE组合旋转密封, 有效保持系统的高真空度

MATCHING PRODUCTS

配套产品



RE-5003 Rotary Evaporator
RE-5003 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-2000E



R-1050



RE-3002



RE-2002






QUALITY CERTIFICATION

品质认证

| | |
|---|--|
|  ISET S.r.l. <small>Sede Legale e Uffici: Via Donato di Sanguis 51 40024 Moglia (MO) Tel. +39 0576 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 Qingling Haod Road, Zhongyuan District, Zhengzhou City, China MANUFACTURER: Henan Lanphan Industry Co., Ltd. North Jianshe Road, West Qingling 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:   | |

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|---|--|
|  ISET S.r.l. <small>Sede Legale e Uffici: Via Donato di Sanguis 51 40024 Moglia (MO) Tel. +39 0576 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 | |
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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:   | |

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|  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 Qingling 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 Qingling 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-5003 | | | |
| Package Size(mm) 包装尺寸(毫米) | 1450*390*440 | 1150*840*660 | 790*730*790 | 1.34m ³ |
| Weight(kg) 重量(kg) | 170 | | | |



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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