

# SD-5L Short-range distillation

High borosilicate material and fine workmanship

High evaporation efficiency and high recovery

## SD-5L 短程蒸馏

高硼硅材质      做工细致  
蒸发效率高      回收率高

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# PRODUCT DESCRIPTION

## 产品描述

The pressure difference between the boiling film and condensing surface is the driven force of stem flow, and the minimum pressure will cause the flowing of steam. Under the 1mbar, the operation requires the boiling surface and condensing surface have the shortest distance. The evaporator manufactured based on the principle is called short-path distillation. The short-path distillation (molecular distillation) is equipped with a inside condenser which is opposite to the heating surface, and make the operation pressure reduce to under 0.001mbar. Its relative low boiling temperature is very suitable to the material with heat sensitive and high boiling point.

Basic constitution: the column cylinder equipped with outside heating mantle, rotor and inside condenser. The fixing frame of rotor is precisely equipped with scratch film and anti-splash device. The inside condenser is placed in the center of evaporator, and the rotor should rotor between column cylinder and condenser.

Distillation process: The material should add from the top of evaporator and continuously spread to the heating surface through the material covered on rotor. Then, the scratch film is capable of scratching the material into a thin and flowing liquid film. During this process, the light molecular exceeded the heating surface form the condense liquid on inside condenser without any collision. Then, the molecular flows along the condenser tube, and discharge through the discharge tube on the bottom of evaporator. The residue liquid (heavy molecule) is collected on the circular channel under the heating zone, and flows through the discharge tube on one side.

沸腾薄膜和冷凝表面之间的压力差是液体流动的驱动力，最小压力将导致蒸汽流动。在1mbar下，操作需要沸腾表面和冷凝表面具有最短距离。基于该原理制造的蒸发器称为短程蒸馏。短程蒸馏（分子蒸馏）配备有与加热表面相对的内部冷凝器，并使操作压力降至0.001mbar以下。其相对较低的沸点温度非常适合具有热敏性和高沸点的材料。

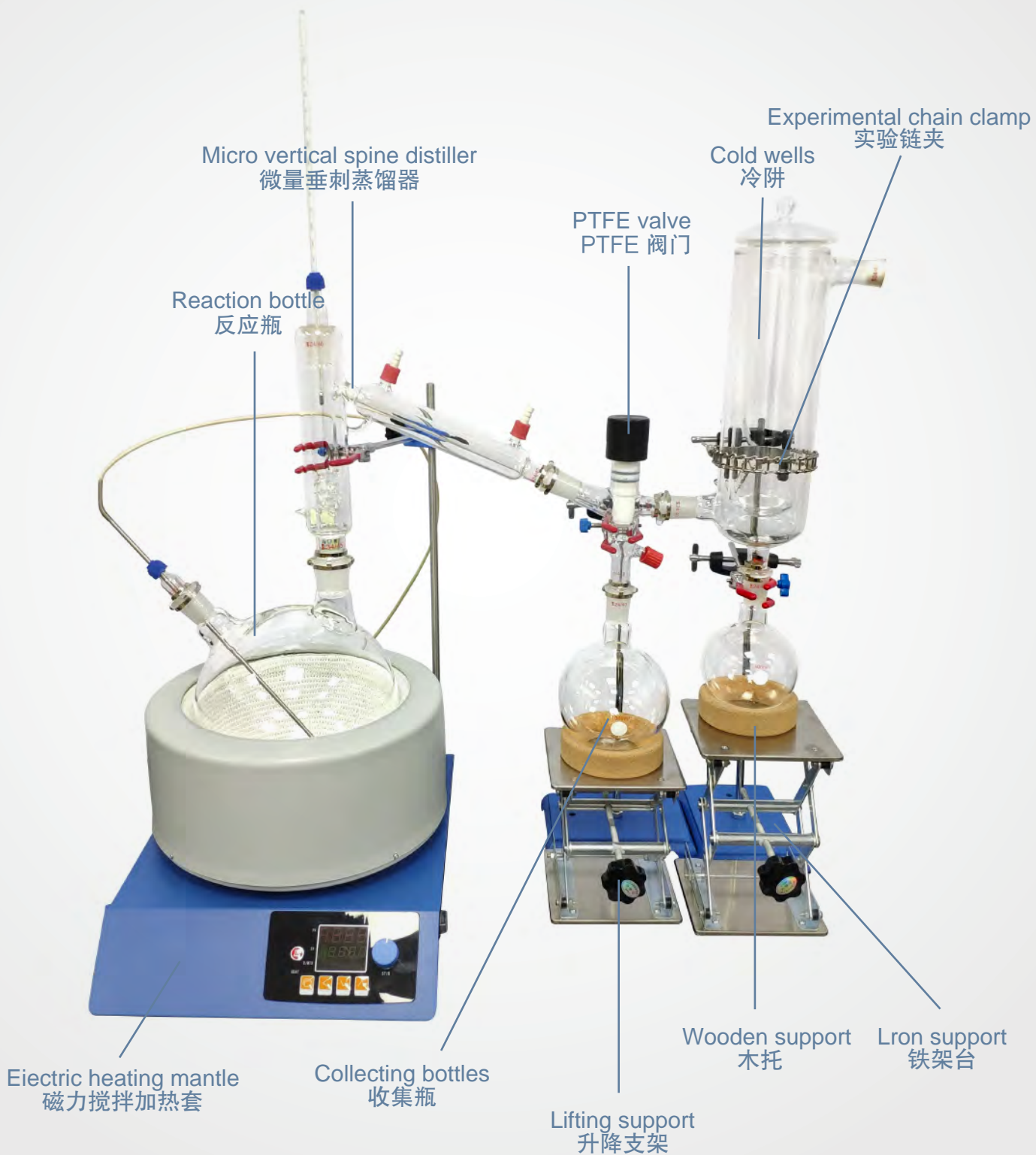
基本构成：柱缸配有外加热罩，转子和内冷凝器。转子固定架精确配有刮膜和防溅装置。内部冷凝器放置在蒸发器的中心，转子应在柱筒和冷凝器之间转子。

蒸馏过程：材料应从蒸发器顶部加入，并通过转子上覆盖的材料连续扩散到加热表面。然后，刮膜能够将材料刮擦成薄且流动的液膜。在此过程中，轻分子超过加热表面，在冷凝器内部形成冷凝液而没有任何碰撞。然后，分子沿着冷凝管流动，并通过蒸发器底部的排放管排出。

残留液（重分子）被收集在加热区下方的圆形通道上，并在一侧流过放电管。

# DETAILS DRAWING

## 零件详图



# DETAILS DRAWING

## 零件详图

Type 型号	SD-2	SD-5	SD-10	SD-20
Material 材质	G3.3			
Heating Capacity (ml) 加热容量(ml)	2000	5000	10000	20000
Heating temperature (°C) 加热温度(°C)	(room temperature-250) 温室-250			
Accuracy (°C) 精度(°C)	±1			
Vacuum Degree (Mpa) 真空度(Mpa)	0.098			
Working temperature (°C) 工作温(°C)	5-40			
Voltage 电压(V/Hz)	220V/50Hz OR (或)110V/60Hz			380V/50Hz
Package Size 包装尺寸(毫米)	450*450*600	580*580*735	850*850*600	
Weight 重量(kg)	18	24	30	

## PRODUCT DETAILS

### 细节优点



### Product Details

#### 双口反应瓶

Adopt two ports reaction bottle, with a special feeding port, convenient for feeding  
采用双口反应瓶, 设有专门加料口, 方便加料



### Distiller

#### 微量垂刺蒸馏器

Micro vertical spine distiller, vertical spine structure, used for fractionation function; Vacuum sandwich is used to weaken the influence of wind and greenhouse to maintain the appropriate temperature gradient in the column

微量垂刺蒸馏器, 垂刺结构, 用于分馏功能; 采用真空夹层, 削弱风与温室的影响保持柱内适宜的温度梯度

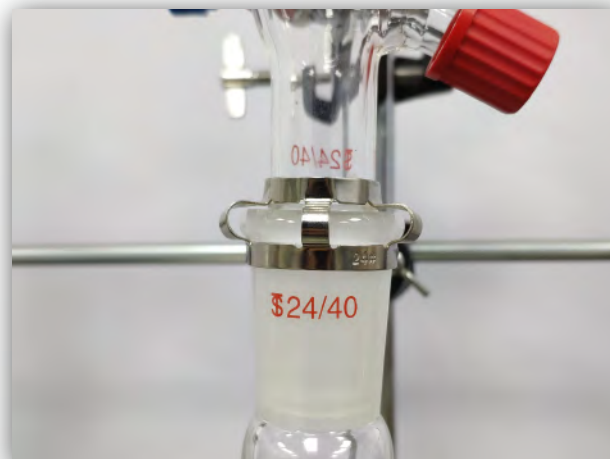


### Vacuum Valve

#### 真空阀

Materials can be extracted continuously during the experiment without pressure relief

实验过程中不卸压的情况下可以连续放料



### Connector

#### 接口

Glass parts are connected by frosted mouth, easy to operate and good sealing

玻璃部件采用磨砂口连接方式, 操作方便, 密封性好



## MATCHING PRODUCTS

### 配套产品



SD-5L Short-range distillation

SD-5L 短程蒸馏



DLSB-5-10 cooling pump  
DLSB-5-10 制冷泵



2XZ-2 Rotary Vane Vacuum Pump  
2XZ-2 旋片式真空泵

# SERIES PRODUCTS

系列产品



SD-2



SD-5



SD-10














SD-20



# QUALITY CERTIFICATION

## 品质认证

 <b>ISET S.r.l.</b> <small>Sede Legale e Uffici: Via Cassanese di Sesto S. 40024 Maglia (MI) Tel. n° 02 337 750 369 Fax n° 02 337 750 369 www.i-set.com</small>		<small>C.A.P. S.p.A. n°: 02 337 750 369 C.A.P. P.I.A. n°: 02 337 750 369 R.A.G. Imprese REA</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>3) CERTIFICATE NO.:</b> IT0524LP16011804	
<b>MANUFACTURER:</b> Henan Lanphan Industry Co., Ltd. North Jianshe Road, West Qinling Road, Zhongyuan District, Zhengzhou City, China		<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>4) CERTIFICATION ISET MARK:</b> 	
<b>HARMONIZED STANDARDS APPLIED:</b> EN 61326-1:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61010-1:2010		<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 61526-1:2013, 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>DATE OF EXPIRE:</b> 15/01/2021	
<b>CERTIFICATION MANAGER:</b>  			

 <b>ISET S.r.l.</b> <small>Sede Legale e Uffici: Via Cassanese di Sesto S. 40024 Maglia (MI) Tel. n° 02 337 750 369 Fax n° 02 337 750 369 www.i-set.com</small>		<small>C.A.P. S.p.A. n°: 02 337 750 369 C.A.P. P.I.A. n°: 02 337 750 369 R.A.G. Imprese REA</small>	
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<b>HARMONIZED STANDARDS APPLIED:</b> EN 61526-1:2013, 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> Rotary Evaporator <b>TRADE MARK:</b>  <b>MODEL(S):</b> RE-501, RE-201D, RE-52A, RE-52C, RE-201A, RE-2000A, RE-2000B, RE-2000E, RE-501, RE-3000A, RE-3000B, RE-3000E, RE-5000, RE-1002, RE-2002, RE-3002, RE-5000, RE-100L, R-100S, R-101D, R-102D, R-105D			
<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>DATE OF EXPIRE:</b> 15/01/2021	
<b>CERTIFICATION MANAGER:</b>  			


**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




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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


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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	SD-5
Package Size 包装尺寸(毫米)	580*580*735
Weight 重量(kg)	24



### 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 kind of payment term do you accept?

Answer:Normally we accept TT, Paypal, Western Union, Alibaba Escrow, and L/C.The exactly term with be discussed during the deal.

2. ASK:What standard plugs does the device use?

Answer: European standard, American standard, German standard, etc., can be customized according to customer requirements.

3. ASK:What's the voltage of the equipment?

Answer:110V/60HZ、220V/50HZ, can be customized according to customer requirements

1. 问:你们接受什么付款方式?

答:通常我们接受电汇, Paypal, 西联汇款, 阿里巴巴国际版支付宝, 以及信用证。具体的付款方式在交易过程中可再讨论。

2. 问:该设备使用什么标准的插头?

答:欧标、美标、德标等,可根据客户要求订做。

3. 问:该设备的电压是多少?

答:110V/60HZ、220V/50HZ,可根据客户要求订做。

# PLEASE CONTACT US

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