

# Simplewell 昇微

## Safe drying oven

### Simplewell Technology Co., Ltd

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Features:

1. Adopt special customized controller;
2. Fresh air filter that is easy to replace. (filtration standard up to M6 level);
3. Special air duct design, high temperature uniformity reaches up to 1.4°C or even lower;
4. Drying test of some organic solvents.

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**01**  
Part

# Production description

## 1.1 Production description

### Scope of application:

Herb drying, line aging test, chemical pharmaceuticals, equipment and appliance drying, food drying, quality testing and material screening of aerospace and other products, and drying of some organic solvents



## 1.1 Structure parts



The arc angle of the inner box is formed by turning a special arc mold, and the appearance transition is natural and reliable



Door handle: professional molded plastic handle, good gripping feel, 60° rotation angle, small closing pre-tightening force, and good sealing.



Door hinge: hidden door hinge + door hinge cover, the control line can be led through the door hinge cover

## 1.1 Structure parts



Customized circulation motor: low noise, large air volume



Sample rack (optional 304 material): stainless steel 201 material, adjustable height, and removable.



Special sealing strip: good sealing effect, aging resistance, corrosion resistance, shock absorption, waterproof, sound insulation, heat insulation, and preventing the reaction of some solvents



## 1.1 Structure parts



Balance goblet



Nickel-chromium alloy heating wire,  
stainless steel tube armored molded  
fin heating tube

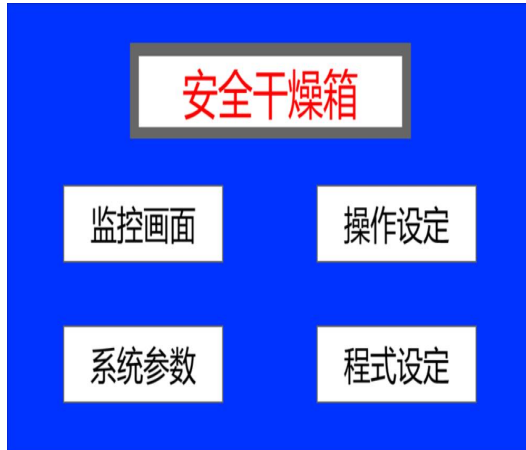


Filter: The filtration standard  
is up to M6 level, which can  
be replaced quickly and  
easily, and is more efficient.

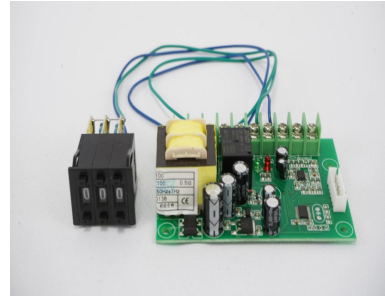


Insulation: airtel-coated aluminum foil  
structure, material insulation coefficient: less  
than 0.0212kcal/m·hr

## 1.2 Control system



Controller: Newly developed integrated full touch screen control, simple and convenient operation, beautiful interface.



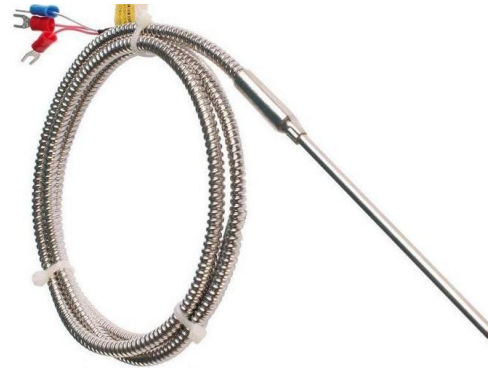
Overtemperature protection



Breaker (Scheider)



The power cord adopts the national standard three-pin plug, which is easy to install and connect.



Overtemperature protection  
sensor



Flame retardant wire



Switching power supply  
(Taiwan Meanwell)



### 1.3 Standards compliant

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- ▶ GBGB/T 30435-2013 Electric gravity convection and forced ventilation ovens
- ▶ DIN12880-2007-05 Electrical laboratory devices - Heating ovens and incubators
- ▶ GB/T2423.2-2008 Environmental testing for electric and electronic products.Part 2:Test methods. Tests B:Dry heat
- ▶ JJF1101-2019 Calibration Specification for Environmental Testing Equipment for Temperature and Humidity Parameters

1.4 Process advantage

1. Pipeline welding process: high-quality copper tube nitrogen shielded welding method is adopted, which avoids the damage to the compressor caused by the oxide impurities on the inner wall of the copper tube entering the refrigeration system caused by the traditional welding method.



3. Pipeline protection measures: The pipeline of the refrigeration system adopts the method of adding anti-vibration hose and C-shaped elbow to avoid copper pipes and cracks caused by vibration and temperature changes.



5. When the equipment is running, detect the circuit temperature of the power distribution cabinet.

2. Damping measures: Install damping springs and anti-vibration soft rubber pads at the bottom of the compressor and pipeline to reduce vibration.

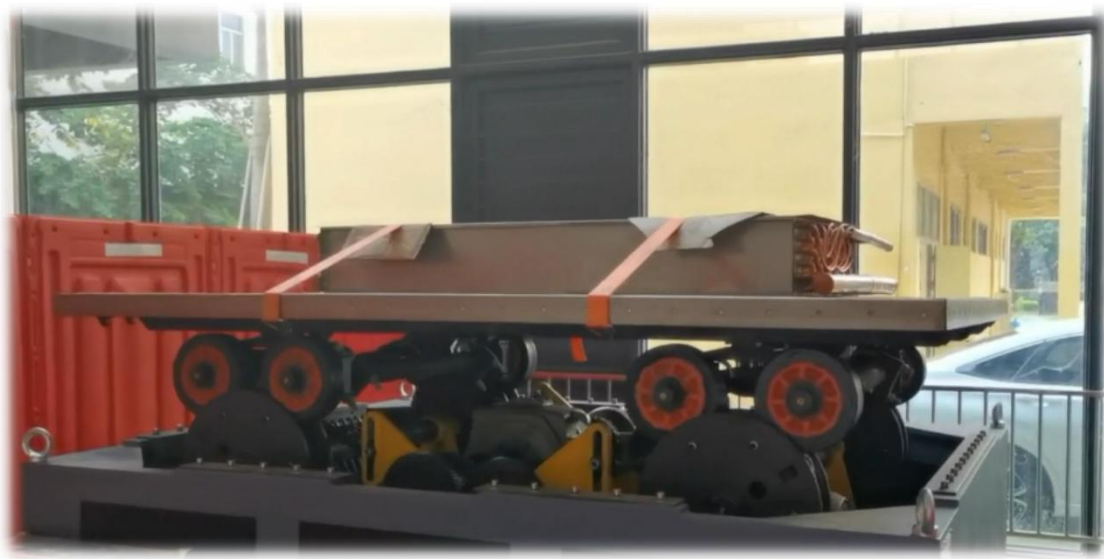


4. Noise control: The condenser adopts the German Marl low-speed high-air volume condensing fan, and installs wave-shaped sound-absorbing sponge around the refrigeration unit to achieve lower noise.



## 1.5 Manufacturing process

Vibration test of key components  
simulated road conditions



Parts such as evaporator, motor and water tank are  
subjected to vibration tests before installation

Vibration test of the whole machine  
simulating bumpy road conditions



Vibration test for small equipment  
before shipment




## 1.6 Manufacturing process

东莞市升微机电设备有限公司										REV:00			
Simpleview 临海均胜电子-WT5000-40灯筒锡点													
序号	品名	图号	数量	是否 合格	确认 人	日期	是否 确认	确认人	日期	是否 合格	确认人	日期	是否 合格
1	照明灯内框	302	1	不拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
2	塑料灯罩	303	各1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
3	灌压口外壳	304	1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
4	灌压口内板	305	1	不拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
5	灌压口导风条	306-1	12	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
6		306-2	10	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
7	玻璃外框	307-1	1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
8		307-2	4	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
9	玻璃内框	308	1	不拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
10	屏条盒子	309	1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
11	屏条盒子固定板	310	2	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
12	铝槽封板	312-1	4	不拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
13		312-2	4	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
14	传感器罩子	315	1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
15	回风档板	401	3	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
16	回风档板2	402	3	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
17	回风档板骨架模1	403	1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
18	回风档板骨架模2	404	1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
19	回风档板骨架模3	405	1	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
20	回风档板骨架架1	406	2	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓
21	回风档板骨架架2	407	2	拆	✓	2018.11.27	✓	李国海	11.25	✓	张桂生	11.27	✓

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 <b>步入车现场安装确认表</b>		接收工单负责人: <b>王立勇</b>			
工厂名称: <b>上海外高桥</b> 日期: <b>2019.07.12</b>		第一工步	第二工步	第三工步	日期
序号	内容	是否完成	执行人	审核人	日期
1	设备运输通道大门是否符合设备安装要求	0	王立勇	0	3.6.27
2	设备的放置场地是否符合设备安装要求	0	王立勇	0	3.6.27
3	设备运输楼梯是否符合设备安装要求	0	王立勇	0	3.6.27
4	设备的安装场地环境是否符合设备安装要求	0	王立勇	0	3.6.27
5	广州机租安装位置是否符合设备安装要求	0	王立勇	0	3.6.27
6	电、水、气路是否符合设备安装要求	0	王立勇	0	3.6.27
7	现场环境空气是否干净并流通	0	王立勇	0	3.6.27
8	现场环境能否满足叉车、货叉取样条件	0	王立勇	0	3.6.27
9	吊钩使用由我司 (T) 负责还是由客户 (Y) 负责	0	王立勇	0	3.6.27
10	是否已阅读“操作书、合同、管理评审表”	0	王立勇	0	3.6.27
11	安装件的材质是否齐全, 有无划伤, 凹印、凸印	0	王立勇	0	3.6.27

第 3 页 共 4 页

序号	要求	备 注	备 考	备 考	备 考	备 考	备 考	备 考
1	是否已阅读“规格书、合同、管理计划书”	0	合格	0	合格	0	合格	0
2	是否制订“电源规格书、配线书、有源、无源项目清单”	0	合格	0	合格	0	合格	0
3	是否按照工程流程执行各项作业、记录、制程管制文件、是否遵守制程管制系统、电器物料规格品质检查、不良、报废、代片尺寸管理	0	合格	0	合格	0	合格	0
4	电源设计书能说明供电安全	0	合格	0	合格	0	合格	0
5	电路设计书能表示出供电安全	0	合格	0	合格	0	合格	0
6	普通电源系统应用接线、线径是否满足高温高湿不可拆卸条件、不随温度、湿度、电压波动而失效	0	合格	0	合格	0	合格	0
7	连接板电源接口是否有保护	0	合格	0	合格	0	合格	0
8	连接板接口金属插针、是否由绝缘材料、是否有保护	0	合格	0	合格	0	合格	0
9	是否由绝缘材料与金属插针、是否由塑料、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
10	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
11	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
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13	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
14	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
15	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
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17	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
18	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
19	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0
20	是否由塑料制成、是否由塑料制成、是否由塑料制成	0	合格	0	合格	0	合格	0

## 步入室确认表目录

客户: 达安环境

订单号: E600210124

产品名称:

产品型号: AGM-15-A-40

接收工序负责人:

序号	目录	确认	确认人	日期
1	钣金底座确认表	0	张树斌	11.23
2	钣金机架焊接确认表	0	张树斌	11.23
3	电控柜电源确认表	0	张树斌	11.24
4	电控柜整机接线确认表	0	张树斌	11.25
5	冷风柜电压确认表	0	张树斌	11.27
6	冷风配管及焊接确认表	0	张树斌	11.27
7	冷风装配确认表	0	张树斌	11.27
8	步入室调试报告			
9	包装确认表	0	张树斌	11.28
10	外购库/房确认表	0	张树斌	11.27
11	风道确认表	0	张树斌	11.26
12	水箱组件确认表			
13	水箱水路安装确认表			
14	电控柜箱总确认表	0	张树斌	11.28
15	电控柜箱总确认表	0	张树斌	11.29

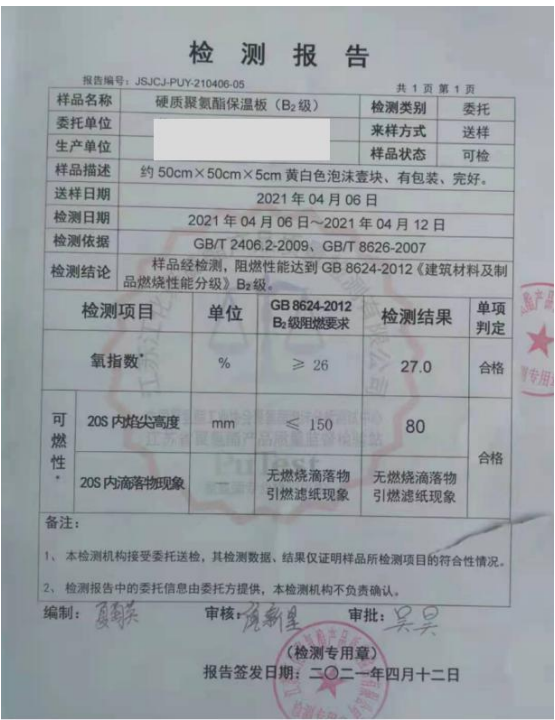
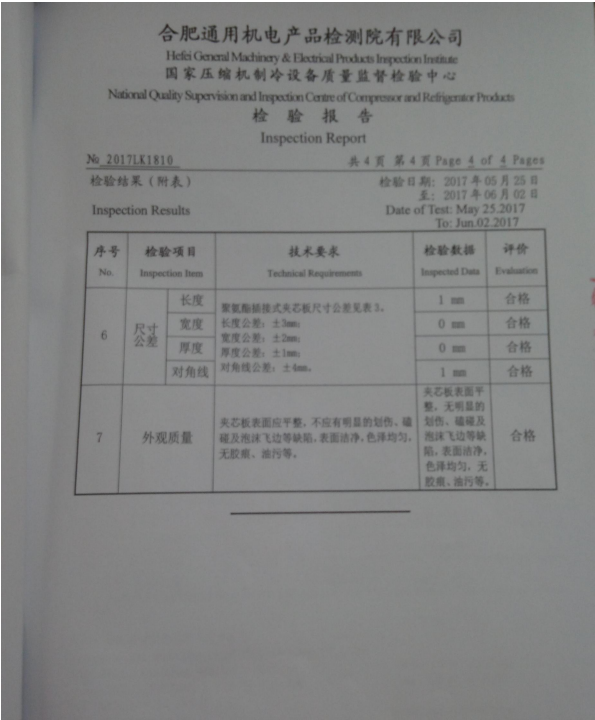
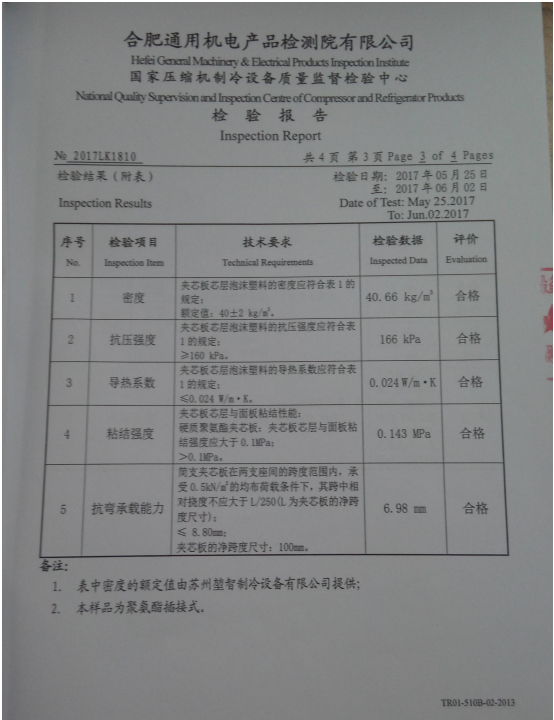
注: 1. 第一“确认”栏为操作者, 填写日期并签字, 第二栏为小时内完成规定动作后打确认。

2. “确认”栏填写方法: 含整型 0, 不含整型 X, 返工含整型在 X 外面打圈

[illegible]

Confirmation of the production process: After the production of the equipment begins, the person in charge of each link will carefully fill in the confirmation form to correct the problems in the production process in a timely manner. At the same time, trace the source, optimize the production process, improve production efficiency, and ensure the quality of each equipment produced

1.7 Manufacturing process and requirements



Flame-retardant storage board

The picture shows the performance test report of the storage board in terms of flame retardancy, compressive strength, and bending bearing capacity



1.8 Manufacturing process



Adopt flame retardant wires, the picture shows the wire flame retardant certification

**02**  
Part

# Features

## 2.1 Product innovation features

1. Fresh air monitoring system with automatic heating shut-off function
2. Replaceable fresh air filter.
3. The temperature deviation is small and the uniformity is good. (Jacket structure)

# Simplewell 东莞市升微机电设备科技有限公司

## 测 试 结 果

各温度测量点实测情况

测量点	A	B	C	D	E	F	G	H	I	均匀度
平均值	59.00	58.00	59.00	59.00	59.00	59.00	58.90	59.00	58.90	1

设备（温度）设定值：60℃， 温度显示值：60℃

各温度测量点实测情况

测量点	A	B	C	D	E	F	G	H	I	均匀度
平均值	100.00	99.00	99.70	100.00	99.90	99.70	99.70	99.70	99.90	1

设备（温度）设定值：100℃， 温度显示值：100℃

各温度测量点实测情况

测量点	A	B	C	D	E	F	G	H	I	均匀度
平均值	150.50	150.60	149.50	149.90	150.30	150.50	150.40	149.80	150.50	1.1

设备（温度）设定值：150℃， 温度显示值：150℃.

各温度测量点实测情况

测量点	A	B	C	D	E	F	G	H	I	均匀度
平均值	251.20	251.70	251.90	251.00	251.50	252.30	251.90	251.60	251.70	1.3

设备（温度）设定值：250℃， 温度显示值：250℃.

各温度测量点实测情况

测量点	A	B	C	D	E	F	G	H	I	均匀度
平均值	271.00	271.60	271.80	270.80	271.30	272.20	271.80	271.40	271.60	1.4

设备（温度）设定值：270℃， 温度显示值：270℃.

附.校准说明:

a.)本次测试时，箱体处于空载状态;

b.)各测试点位置：各测试点与工作室内壁的距离位于各边长的1/10处；中心点位于箱体几何中心。

**03**  
Part

# Advanced technical indicator

3.1 Advanced related technologies

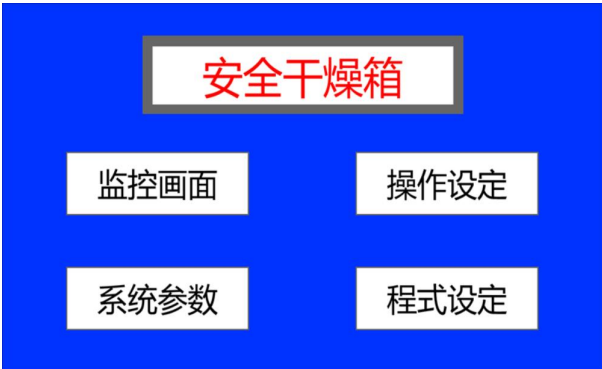
The controller is a custom-made controller for the equipment. The control board is a multi-channel control integrated board with high temperature accuracy. The control screen adopts a 4.3-inch color touch human-computer interaction interface, which is simple and convenient to operate and has a beautiful interface.



Setting interface



Run interface

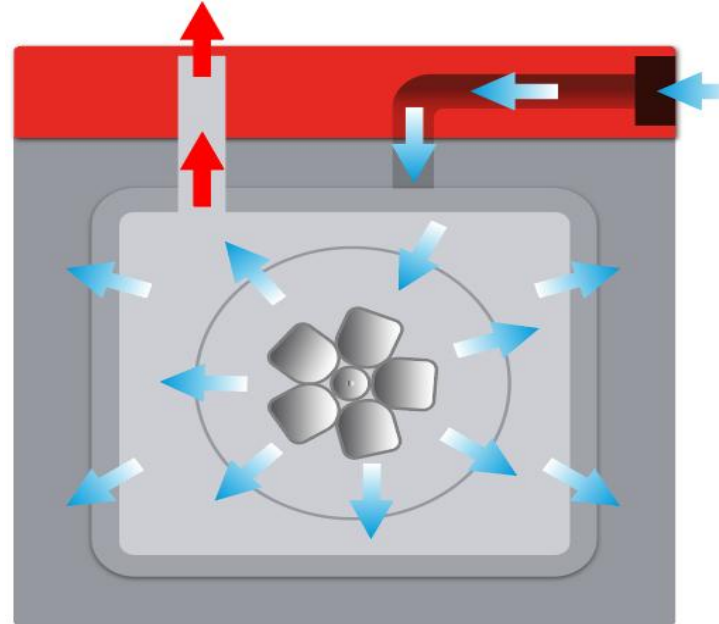


Main interface



### 3.1 Advanced related technologies

The SSD series safety drying oven can perform conventional drying and aging tests up to 300°C, and the temperature uniformity of forced air circulation can reach 1.4°C or even lower. The fresh air is first filtered through the filter on the top side, and then quickly and evenly heated and stirred by the fan and heating pipe behind the jacket in the oven, and then delivered to the fresh air in the cavity, thereby achieving uniform temperature of the fresh air in the entire cavity and making the equipment The test obtains more reliable, accurate and stable results. The exhaust gas of the oven is discharged through the exhaust hole at the top rear.



### 3.1 Advanced related technologies

The SSD series safety drying box ensures higher filtration efficiency through large-area filters on the top and side, which can reliably filter out suspended impurities in the air, which is beneficial to the drying of solvents. The overall filter replacement is very convenient to avoid the entry of residues. The inner chamber ensures consistent fresh air quality. The filtration standard is up to M6 level.



# 04

Part

## Customer promotion

### 4 Customer case



# Simplewell 昇微

## Thanks for watching

### Simplewell Technology Co., Ltd

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**Team**



**Persistence**



**Cooperation**



**Honor**

