## Simplewell昇微

Simplewell Technology Co., Ltd

Address: No.221, Shuixin Road, Dalang Town, Dongguan City

Tel: 0769-88887909 Fax: 0769-88885229

Website: www.simplewell.com.cn

Email: sales01@simplewell.com.cn



◆Temperature indicator

Temperature range: 20°C ~ 30°C high temperature cleaning (70°C)

Temperature deviation ±0.5°C

Temperature fluctuation ±0.3°C

◆ Humidity indicator

Humidity range: 40 ~ 60%R.H. (23°C ~ 25°C)

Humidity deviation ±3% R.H Fluctuation: +2.5% R.H

**♦** Equipment noise

Measured 5m away from the equipment: less than 65 db (except air compressor)

◆ Pressure

 $10\pm5$ pa

◆ Background

TVOC is less than 20μg/m³, single VOC is less than 2μg/m³, formaldehyde is less than 6µg/m³

◆ Ventilation

Adjustment range: 0.2 to 2 times, adjustment accuracy  $\pm 3\%$ , measurement accuracy  $\pm 0.01$ m<sup>3</sup>/h

◆ Recovery rate

Formaldehyde, tetraphenylcycloethylene, dodecane or tetradecane recovery rate is greater than 80%

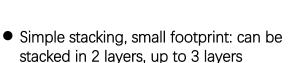
♦ Wind speed  $0.1 \text{m/s} \sim 0.3 \text{ m/s}$ 

## product description





Beijing Building Materials



- Convenient transportation: The front and rear sections of each release cabin can be disassembled and assembled to facilitate transportation via a small freight elevator.
- Meet background requirements: air intake, cabin background meets requirements (clean installation environment: outdoor fresh air ventilation, no objects releasing pollutants nearby)
- Ventilation clean cabin: After the last test, the cabin was contaminated, and the air exchange rate was 2 times/H, and the cleanliness requirements could be met in 12 hours (factory test, the actual situation will change based on the previous sample pollution degree and type of pollutants)



JCminicomput er stacking (50/60-1000)

JC-1000



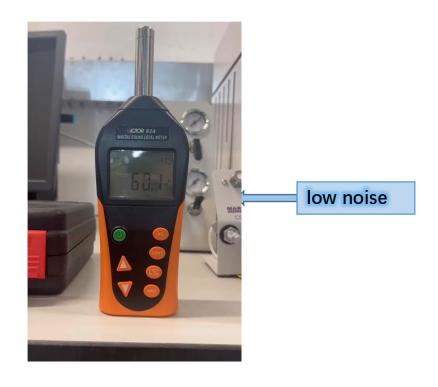


**Qingdao Stander** 

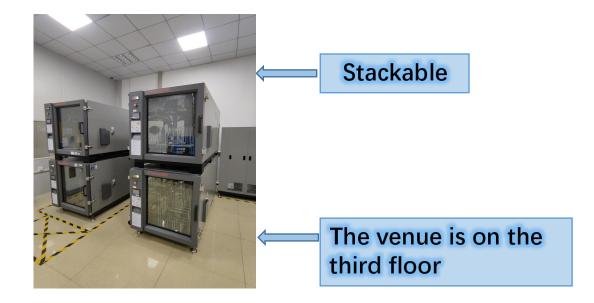
Shanghai IKEA



### **Product features**



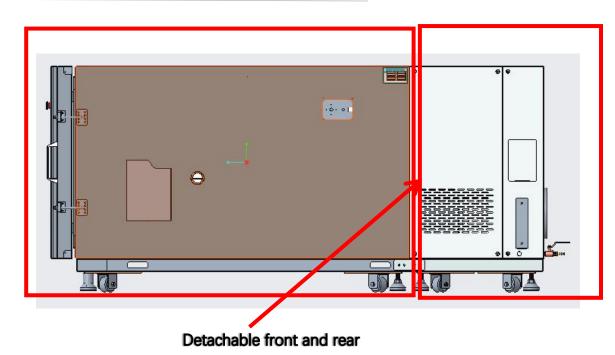
Monolithic, multi-layered on site



Low energy consumption and low heat dissipation enable on-site heat dissipation and reduce costs.

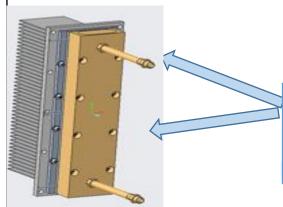
Light weight and small load-bearing requirements, suitable for installation on high floors

# Electronic refrigeration chip temperature control (international patent)

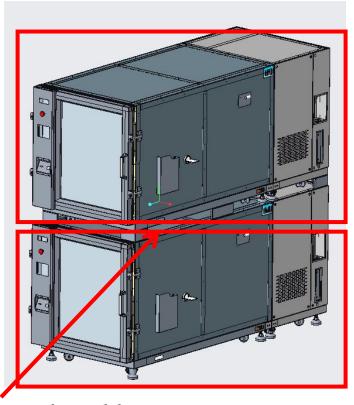




- 1. Prevent condensation
- 2. Multi-unit independent temperature control
- 3. Real-time dew point warning
- 4. Low temperature point abnormality warning, fault standby 5. Refrigeration plate design redundancy



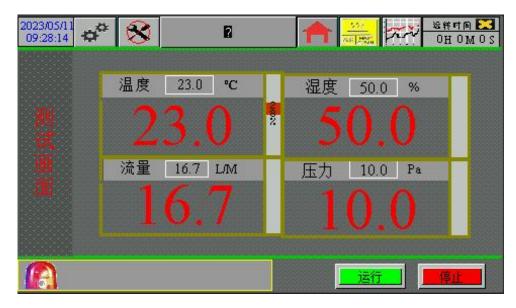
Electronic refrigeration anti-condensation system (Electronic refrigeration piece + temperature sensor))



Superimposed up and down

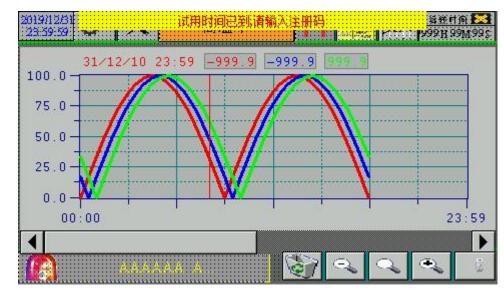
- 1. The front and rear of the structure can be disassembled to facilitate transportation in small spaces.
- 2. The equipment can be stacked up and down to save space.
- 3. The equipment adopts new energy-saving technology to save energy consumption
- 4. Use PTFE sealing structure for better air tightness

### (Simple startup screen)







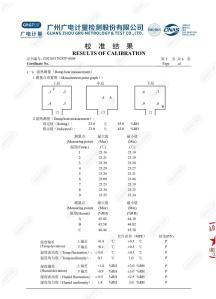


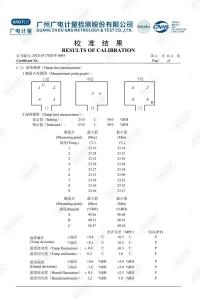
# Qualified measurement results (and recognized by CNAS)

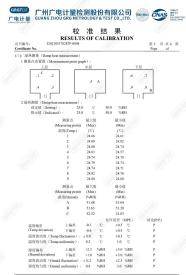
### JC-1000calibration certificate













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## **Excellent background**

### JC-1000 Background test report



### 检测报告

校验码: 601101 报告编号: C202106166583-3

#### 测试流程:



#### 广州广电计量检测股份有限公司

地址:中国广州市黄埔大道百平云幕 163 号 电话: 4006020999 传真: +86-020-38698685 阿拉: http://www.grgtest.com 第 3 页 共 3 页

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### 广州广电计量检测股份有限公司

地址: 中国广州市黄埔大道西平云路 163 号 电话: 4006020999 传真: +86-020-38698685 网址: http://www.grgtest.com

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GRGTEST

### 检测报告

校验码: 601101 报告编号: C202106166583-3

#### 舱内空气背景浓度分析结果报告书

| 采样条件 | 采样日期   |      | 2021-07-01  | 分析日期  | 2021-07-01         |
|------|--------|------|---|-------|--------------------|
|      | 舱室体积   |      | 1m <sup>3</sup>                                       | 采样点位置 | 采样口                |
|      | 环境条件   |      | 温度 25.6℃,湿度 46%RH,大气压 100.5 kPa                       |       |                    |
|      | 舱内条件   |      | 温度 23.0℃,湿度 52.9%RH,气压 14.7 Pa,换气率 1.0h <sup>-1</sup> |       |                    |
|      | DNPH 管 | 捕集速度 | 1000 mL/min   |       |                    |
|      |        | 捕集容量 | 30 L  |       |                    |
| 分析条件 | HPLC   | HPLC | Dionex(Ultimate                                       | 3000) | -                  |
|      |        | 流动相  | 乙腈/水  |       | (A)                |
|      |        | 柱子   | Zorbax SB-C18,4.6mm×250mm, I.D 5μm                    |       |                    |
|      |        | 注入量  | 20 μL   | /3    | \$)                |
| 測试结果 | 检测项目   |      | 采样<br>(μg/  |       | 舱内空气背景值<br>(μg/m³) |
|      | 甲醛     |      | 0.0   | 99    | 3                  |

备注: 甲醛方法检出限= 2μg/m³

#### 检测设备信息:

| ч эе ш пр че ч |                       |              |                         |
|----------------|-----------------------|--------------|-------------------------|
| 检测设备名称         | 型号                    | 管理编号         | 校准有效期                   |
| HPLC           | Dionex(Ultimate 3000) | HX2010-G088  | 2020-10-07 - 2022-10-06 |
| 温湿度计           | LS-204                | HX2018-D119  | 2020-10-23 - 2021-10-22 |
| 空盒气压表          | DYM3                  | HX2016-D1015 | 2021-03-07 - 2022-03-06 |

### GRGTEST

### 检测报告

校验码: 601101 报告编号: C202106166583-3

委托单位: 南德认证检测(中国)有限公司深圳分公司

单位地址: 广东省深圳市南山区南头关口二路智恒战略新兴产业园 13 栋

#### 以下样品信息由委托方提供并负责其真实性

设备名称: 1 立方甲醛环境气候箱

设备型号: JC-1000 设备编号: SW20210401

设备制造商: 东莞市升微机电设备科技有限公司

接收日期: 2021-06-28 检测周期: 2021-06-28 - 2021-07-09

检测要求: 委托测试释放舱内空气背景中甲醛的释放量。

检测方法: 参考GB/T 31107-2014及客户要求,分析仪器为高效液相色谱仪(HPLC)。

检测结果: 请参见后续页。

扁制 林广婷

申核国永

本报告仅对未样负责,报告无检测单位检验检测专用章无效。据告涂改无效,部分复印无效。对检测报告若有异议,应了 向检测单位要问。 证: 检测报告中的数据仅用于科研、数学、内部质量控制等目的。

广州广电计量检测股份有限公司 地址:中国广州市黄埔大道西平云路 163 号

电话: 4006020999 传真: +86-020-38698685 网址: http://www.grgtest.com

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# Good air tightness, air pressure difference

### JC-1000 Air tightness, air pressure difference inspection







### **Excellent energy saving effect**

### JV-1000 Energy saving test report

## 检测报告

TEST REPORT

报告编号: 20201103W28953X-2

样品名称: 节能型甲醛释放舱(1m3)

型号规格: JC-1000

委托单位: 东莞市升微机电设备科技有限公司



#### 产品检测报告 GB/T33861-2017 高低温试验箱能效测试方法 委托方技术要求

报告编号 : 20201103W28953X-2

答发日期 : 2020年11月19日

试验单位 : 中认英泰检测技术有限公司

地 址 : 苏州吴中区吴中大道 1368 号东太湖科技金融城 邮 编: 215104

话: 0512-66303630 传真: 0512-66303625

试验地点 : 苏州吴中区吴中大道 1368 号东太湖科技金融城

申 请 人 : 东莞市升微机电设备科技有限公司

地 址 : 广东省东莞市大朗镇水新路 221 号

试验标准 : GB/T33861-2017

偏离说明 : /

非标准方法: 委托方技术要求

样品名称 : 节能型甲醛释放舱(1m²)

商标: Simplewell 昇微

型 号: JC-1000

制 造 商 : 东莞市升徽机电设备科技有限公司

地 址 : 广东省东莞市大朗镇水新路 221 号

额 定 值 : 详见铭牌

抽样机构 : /

接样日期 : 2020-11-13

试验结论 : 合格

本次对东莞市升微机电设备科技有限公司生产的 JC-1000 进行稳定运行状态下的 耗电量检测, 检测结果详见报告第5页。 一般评述:

根据客户要求依据标准 GB/T33861-2017 对样品进行稳定运行状态下的耗电量检测。 可能的试验情况判定:

一试验情况不适用本试验产品 N

一试验样品满足要求

一试验样品不满足要求

样品铭牌

|      | 东莞市升微机电设备     | 科技有限公司 | 1450        |
|------|---------------|--------|-------------|
| 设备名称 | 节能型甲醛释放舱(1m³) | 设备型号   | JC-1000     |
| 设备编号 |               | 出厂日期   |             |
| 功率   | 2kW           | 冷媒     | /           |
| 电源   | 220V ~ 50Hz   | 维修电话   | 18029113381 |

#### 样品描述及说明

#### 样品描述:

| 整机电源输入         | /                             |
|----------------|-------------------------------|
| 制冷系统模式         | □单级 □复叠                       |
| 电加热额定功率        | /                             |
| 压缩机形式          | □定頻 □变頻                       |
| 冷却方式           | □水冷 □风冷 □其他                   |
| 油分离器           | 高温级: 口有 口无: 低温级: 口有 口无        |
| 储液器            | 高温级: 口有 口无: 低温级: 口有 口无        |
| 节流装置类型 (高温级)   | □电子膨胀阀 □热力膨胀阀 □电动调节阀 □毛细管 □其它 |
| 节流装置类型(低温级)    | □电子膨胀阀 □热力膨胀阀 □电动调节阀 □毛细管 □其它 |
| 控制系统           | □单片机 □PLC □其它                 |
| 制冷剂类型/灌注量      | /                             |
| 外形尺寸           | 长×宽×高-/                       |
| 实测工作空间 (m²)    | /                             |
| 实测降温速率 (℃/min) | /                             |

#### 其他说明:

按照 GB/T33861-2017 标准的实验方法,在下述工况下进行试验:

试验工况:

环境温度: 24.6℃

设定工况:

干球温度: 23℃ 相对湿度: 50%

报告编号: 20201103W28953X-2

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#### 试验结果及判定

| 序号 | 检验项目            | 技术要求           | 型号      | 实测值   |  |
|----|-----------------|----------------|---------|-------|--|
| 1  | 耗电量<br>(kW·h/h) | 按照委托方技术要求进行检测。 | JC-1000 | 0.468 |  |

判定: P 试验结果符合要求

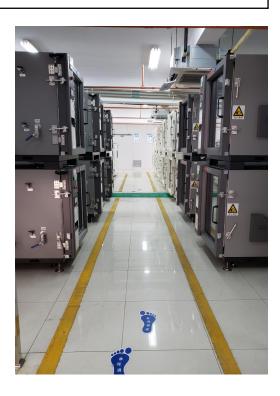
试验结果不符合要求

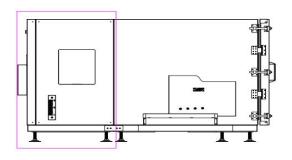
N 要求不适用于该产品, 或不进行该项试验

# Product appearance and structural features

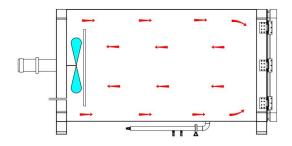
The split type makes it easy to carry in narrow passages, and the jacket-less design makes it smaller in size. Small equipment can be stacked to save space and make full use of the installation space.







Detachable front and rear, Special venues for easy access



Internal circulation air system

Can be stacked up and down

## **Excellent energy-saving design**

- Using electronic chip refrigeration: energy saving and high reliability
- The 1000L release chamber does not use a jacket
- Eliminate high-temperature cleaning links
- Energy saving (excluding gas source): The power consumption of the 1000L formaldehyde release chamber is 0.4kw on average, compared with 3.0kw for the traditional formaldehyde release chamber. Based on 7 days of continuous testing, the energy saving is 2.6\*7\*24=437KWH. Based on 1.2 yuan/KWH, the cost saving is 524 yuan/pcs.
- The power consumption of the 1000L release cabin is 1.0kw on average, compared with 7.0kw for the traditional release cabin. Based on 7 days of continuous testing, the energy saving is 6\*7\*24=1008KWH. Based on 1.2 yuan/KWH, the cost saving is 1210 yuan/pcs.
- Guarantee operation continuity: electronic refrigeration chip redundancy design, when one group fails, it will not affect the operation of the release cabin



节能型甲醛释放舱

Energy-saving formaldehyde release

### **Product innovation patent**

## Patent: An electronic refrigeration anti-condensation system and its anti-condensation method

Obtained international patents: Europe/United States/Japan/South Korea/Russia/Indonesia/India, other countries are applying.











## **Excellent customer cases**









