

SCI100-Pro  
Digital Rotary Evaporator

LCD Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation. It offers an excellent distilling solution in a wide range of applications.



Features:

- Digital display of both rotation speed and heating temperature allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- 5L heating bath with wide temperature range from room temp. to 180°C)
- Overheating protection temperature at 220°C
- Speed range from 20 to 280rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Patented condenser (cooling surface 1700cm<sup>2</sup>) with excellent cooling effect
- Ejection mechanism ensures easy removal of evaporating flask
- Patented double spring sealing ring which is made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission



Large LCD display



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

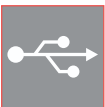
| Specifications                  | SCI100-Pro                   |
|---------------------------------|------------------------------|
| Motor Type                      | Brushless DC motor           |
| Speed Range                     | 20-280rpm                    |
| Display                         | LCD(speed,temperature, time) |
| Clockwise and Anti-clockwise    | Yes                          |
| Heating Temperature Range       | Room temp. to 180°C          |
| Control Accuracy                | ±1°C                         |
| Heating Power                   | 1300W                        |
| Stroke Displacement             | automatic 150mm              |
| Timer                           | Yes                          |
| Time Setting Range              | 1-999min                     |
| Dimension[D×W×H]                | 465×457×583mm                |
| Weight                          | 15kg                         |
| Permissible Ambient Temperature | 5-40°C                       |
| Permissible Relative Humidity   | 80%RH                        |
| Protection Class                | IP20                         |
| USB Interface                   | Yes                          |
| Voltage/Frequency               | 100-120/200-240V 50/60 Hz    |
| Power                           | 1400 W                       |

# Rotary Evaporator

The SCIOGEX SCI100-S Digital Rotary Evaporator is an excellent choice for evaporation, distillation and separation of chemicals. It can be used as a multifunctional system in combination with vacuum pump, vacuum controller and circulating refrigerators to provide excellent distillation solutions in many laboratory applications.

### Features:

- 5L heating bath with a wide temperature range (room temp.to180°C), independent temperature control, make it can be used separately. Water/oil heating mode can be changed only through a switch.
- Manual lift combined with auxiliary lift for precise positioning of the glassware.
- PID control ensures high temperature accuracy at  $\pm 1^{\circ}\text{C}$  (water).
- Overheating protection temperature at 220°C
- Boil-dry protection, automatically power off if heating without water/oil in the heating bath.
- Speed range from 20 to 200rpm, timing interval operation in clockwise and anticlockwise directions for drying process.
- Patented condenser (cooling surface 1200/1700cm<sup>2</sup> for selection), double helix condensing tube + center circular arc design to speed up the flow rate of liquid with excellent cooling effect.
- Ejection mechanism ensures easy exchange of evaporating flask
- Adjustable immersion angle
- Patented double spring sealing ring which is made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission.
- Compatible with the entire range of RE100-Pro glassware.



USB connector



Chemical resistance

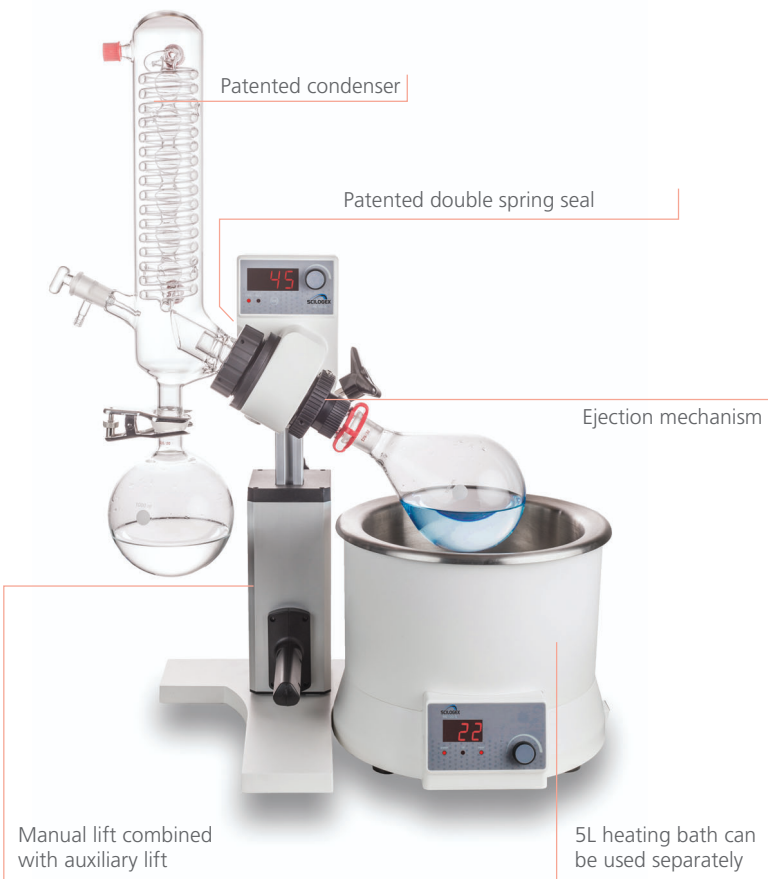


Overheating protection



Compatible with all range of glassware

## SCI100-S LED Digital Rotary Evaporator



### Specifications

| SCI100-S                        |                                                             |
|---------------------------------|-------------------------------------------------------------|
| Motor Type                      | Brushless DC motor                                          |
| Speed Range                     | 20-200rpm                                                   |
| Display                         | LED (speed, temperature, time)                              |
| Clockwise and Anti-clockwise    | Yes                                                         |
| Heating Temperature Range       | Room temp. to 180°C                                         |
| Control Accuracy                | water: $\pm 1^{\circ}\text{C}$ oil: $\pm 3^{\circ}\text{C}$ |
| Heating Power                   | 1010 W                                                      |
| Stroke Displacement             | Manual 110mm + auxiliary100mm                               |
| Interval Time Setting Range     | 1~999s                                                      |
| Dimension [D × W × H]           | Main Unit: 440 × 320 × 450mm<br>Heating Bath: 300x300x240mm |
| Weight                          | Main Unit: 7kg Heating Bath: 3kg                            |
| Permissible Ambient Temperature | 5~40°C                                                      |
| Permissible Relative Humidity   | 80%RH                                                       |
| Protection Class                | IP20                                                        |
| USB Interface                   | Yes                                                         |
| Voltage/Frequency               | 100~120/200~240V 50/60 Hz                                   |
| Power                           | 1100 W                                                      |

## Condenser



### Vertical

| Cat. No. | Glassware type                                                 | Volume | Cooling surface     |
|----------|----------------------------------------------------------------|--------|---------------------|
| 18900165 | Evaporating flask(NS29/32)<br>Receiving flask(KS35/20)         | 1000mL | 1700cm <sup>2</sup> |
| 18900173 | Evaporating flask(NS24/40)<br>Receiving flask(KS35/20)         | 1000mL | 1700cm <sup>2</sup> |
| 18900166 | (COATED)Evaporatingflask(NS29/32)<br>Receiving flask (KS35/20) | 1000mL | 1700cm <sup>2</sup> |
| 18900174 | (COATED)Evaporatingflask(NS24/40)<br>Receiving flask (KS35/20) | 1000mL | 1700cm <sup>2</sup> |
| 18202410 | evaporating flask (NS 29/32)<br>Receiving flask (KS 35/20)     | 1000mL | 1200cm <sup>2</sup> |

### Diagonal

| Cat. No. | Glassware type                                                  | Volume | Cooling surface     |
|----------|-----------------------------------------------------------------|--------|---------------------|
| 18900163 | Evaporating flask(NS29/32)Receiving<br>flask(KS35/20)           | 1000mL | 1700cm <sup>2</sup> |
| 18900171 | Evaporating flask(NS24/40)Receiving<br>flask(KS35/20)           | 1000mL | 1700cm <sup>2</sup> |
| 18900164 | (COATED)Evaporatingflask(NS29/32)<br>Receiving flask (KS 35/20) | 1000mL | 1700cm <sup>2</sup> |
| 18900172 | (COATED)Evaporatingflask(NS24/40)<br>Receiving flask (KS35/20)  | 1000mL | 1700cm <sup>2</sup> |

### Heating Bath

| Cat. No. | Description             | Volume |
|----------|-------------------------|--------|
| 18900201 | Rotary Evaporator, 220V | 5L     |
| 18900202 | Rotary Evaporator, 110V | 5L     |
| 18101888 | LED heating bath, 220V  | 5L     |
| 18101936 | LED heating bath, 110V  | 5L     |



# Rotary Evaporator | Accessories

## Glassware



### Evaporating flask

| Cat. No. | Volume | Size     |
|----------|--------|----------|
| 18300116 | 50mL   | NS 29/32 |
| 18300117 | 100mL  | NS 29/32 |
| 18300118 | 250mL  | NS 29/32 |
| 18300119 | 500mL  | NS 29/32 |
| 18300120 | 1000mL | NS 29/32 |
| 18300121 | 2000mL | NS 29/32 |
| 18300655 | 50mL   | NS24/40  |
| 18300201 | 100mL  | NS 24/40 |
| 18300202 | 250mL  | NS 24/40 |
| 18300203 | 500mL  | NS 24/40 |
| 18300204 | 1000m  | NS 24/40 |
| 18300205 | 2000mL | NS 24/40 |



### Receiving flask

| Cat. No. | Volume | Size     |
|----------|--------|----------|
| 18300107 | 100ml  | KS 35/20 |
| 18300108 | 250ml  | KS 35/20 |
| 18300109 | 500ml  | KS 35/20 |
| 18300110 | 1000ml | KS 35/20 |
| 18300111 | 2000ml | KS 35/20 |



### Distilling spider with 5 flasks(without flask)

| Cat. No. | Volume | Size              |
|----------|--------|-------------------|
| 18900194 | /      | NS 29/32, NS24/29 |
| 18900177 | /      | NS 29/42, NS24/40 |



### Foam brake

| Cat. No. | Volume | Size     |
|----------|--------|----------|
| 18300093 | 250ml  | NS 29/32 |
| 18300207 | 250ml  | NS 24/40 |



### Vapor tube

| Cat. No. | Volume | Size     |
|----------|--------|----------|
| 18100998 | /      | NS 29/32 |
| 18300206 | /      | NS 24/40 |

### Connector

| Cat. No. | Volume | Size               |
|----------|--------|--------------------|
| 18300094 | /      | NS 29/32, NS24/29  |
| 18300095 | /      | NS 29/32, NS19/26  |
| 18300096 | /      | NS 29/32, NS14/23  |
| 18300199 | /      | NS24/40, NS19/22   |
| 18300200 | /      | NS 24/40, NS14/20  |
| 18900193 | /      | NS 24/40, NS 29/42 |

# Low Temperature Circulator

SCIOGEX Low Temperature Circulator, is water-efficient and provides high cooling efficiency, capable of almost any cooling requirements in lab or industrial environments. With a compact structure and environment-friendly design, it is an ideal choice for labs.

## SCIP5-20

### Low Temperature Circulator

#### Features & Advantages

- Temperature range: -20 to room temperature
- Employs PID temperature control with built-in PT1000 temperature sensor that provides high accuracy of temperature control
- A crystal-clear LED display that switches between display of set temperature and that of actual temperature
- The entire unit is capable of protection against short circuit, over-current, overload and delayed start
- Integrated design of drain outlet and water outlet that allows easy drainage
- German-made compressor that is environment-friendly, low-noise and durable
- The compressor employs state-of-the-art R290 environment-friendly refrigerant to protect environment and human health

- The liquid pathway is made of stainless steel or high-quality corrosion-resistant material



- User-friendly operating panel for easy operation



- A large-volume open reservoir allows easy filling and supports cold trap experiments



- Casters for easy manoeuvrability



# Low Temperature Circulator



## Specifications

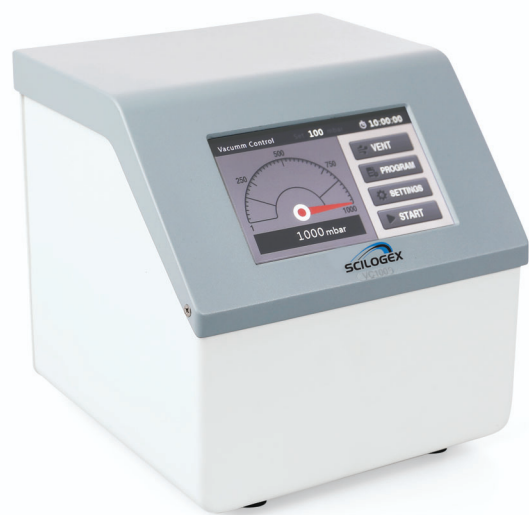
| Specifications                  |     |     |     | SCIP5-20                          |     |     |     |  |
|---------------------------------|-----|-----|-----|-----------------------------------|-----|-----|-----|--|
| Range of temperature control    |     |     |     | -20°C to Room temperature         |     |     |     |  |
| Temperature adjustment accuracy |     |     |     | 0.1°C                             |     |     |     |  |
| Temperature control accuracy    |     |     |     | ±0.5°C (0°C ~ 20°C typical value) |     |     |     |  |
| Reservoir capacity              |     |     |     | 5L                                |     |     |     |  |
| Range of temperature adjustment |     |     |     | -30°C~30°C                        |     |     |     |  |
| Temperature display             |     |     |     | LED                               |     |     |     |  |
| Type of temperature sensor      |     |     |     | PT1000                            |     |     |     |  |
| Compressor refrigerant          |     |     |     | R290                              |     |     |     |  |
| Circulating pump throughput     |     |     |     | 12L/min                           |     |     |     |  |
| Circulating pump head           |     |     |     | 6m                                |     |     |     |  |
| In-out cycle interface          |     |     |     | 12mm pagoda-type interface        |     |     |     |  |
| RS232 interface                 |     |     |     | Yes                               |     |     |     |  |
| Power                           |     |     |     | 700W                              |     |     |     |  |
| Maximum overall dimensions      |     |     |     | 440*460*730 (mm)                  |     |     |     |  |
| Weight                          |     |     |     | 50Kg                              |     |     |     |  |
| Power supply                    |     |     |     | 110V 50Hz/60Hz                    |     |     |     |  |
| Operating environment           |     |     |     | 10°C~40°C RH ≤80%                 |     |     |     |  |
| Cooling capacity                |     |     |     |                                   |     |     |     |  |
| °C                              | -20 | -13 | -10 | 0                                 | 10  | 14  | 20  |  |
| W                               | 607 | 668 | 694 | 785                               | 883 | 924 | 989 |  |

The vacuum controller serves as a device for labs to display, adjust and control the degree of vacuum in vacuum systems. It generally constitutes the vacuum control system of rotary evaporator along with vacuum pump, which enables repeatable distillation experiment and recovery of many kinds of solvents in an efficient and automatic manner.

SCI100VC  
Vacuum Controller

Features

- A wide range of measurement and control, 1-1,000mbar
- Two control modes of single-point control and programmed control available for choice as needed
- Can store up to 5 programs, each containing up to 5 segments of programming control
- A large-size TFT touch screen display control allows easy operation
- All parts in contact with vapor or liquid are made of PTFE, ceramics or other high-performance materials and can effectively resist corrosion caused by organic solvents, water, acid and alkali
- A built-in vent valve can feed inert gas into system equipment
- One-stroke decompression allows easy installation and dismantling of vacuum system
- Can be connected with pump power control for temporary shutdown of pump power supply after reaching stable degree of vacuum for energy conservation and environmental protection. Can also be operated in the normally open statue of pump



Specifications

|                                           | SC100VC                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Vacuum setting range                      | 1-1000mbar                                                                                                      |
| Vacuum measurement range                  | 1-1000mbar                                                                                                      |
| Control operation mode                    | Single-point control mode,<br>Programmed control mode                                                           |
| Control program                           | Can store up to 5 programs, each<br>containing 5-step control (capable to<br>set the degree of vacuum and time) |
| Setting method                            | Touch screen setting                                                                                            |
| Display                                   | 5" TFT                                                                                                          |
| Sensor overload pressure                  | 1,500mbar                                                                                                       |
| Connector diameter                        | 8mm                                                                                                             |
| Materials in contact with vapor           | PTFE, PP, silicone and ceramics                                                                                 |
| Power                                     | 600W                                                                                                            |
| Compatible conditions<br>with vacuum pump | power of 50Hz vacuum pump ≤400W<br>power of 60Hz vacuum pump ≤500W                                              |
| Overall dimensionsW×D×H                   | 189×207×193mm                                                                                                   |
| Weight                                    | 4.0kg                                                                                                           |
| Power supply                              | 110—240V,50Hz/60Hz                                                                                              |
| Operating environment                     | 10°C~40°C, ≤80%RH                                                                                               |

MZ 1C Chemistry-design diaphragm pump

Specification

Number of heads / stages:2 / 2  
Max. pumping speed:0.75 m³/h  
Ultimate vacuum (abs.):12mbar  
Nozzle Size:DN 8-10 mm  
Rated motor power:0.06kW  
Rated motor speed:1500/1800 rpm  
Noise level:45dB  
ATEX:II 3G IIC T3 X Internal Atm. only

| Cat. No. | Voltage                                 |
|----------|-----------------------------------------|
| 18900231 | Cn plug, 100V-120V/200-230V 50Hz/60Hz   |
| 18900232 | Euro plug, 100V-120V/200-230V 50Hz/60Hz |
| 18900233 | USA plug, 100V-120V/200-230V 50Hz/60Hz  |
| 18900234 | UK plug, 100V-120V/200-230V 50Hz/60Hz   |



C410 Chemistry-design diaphragm pump

Specification

Maximum Vacuum:13mbar  
Work Mode: In Successions  
Nozzle Size:8mm, Power: 95W  
Motor speed:1450rpm  
Flow Rate:  
mbar :1000 880 750 600 480 280  
L/min : 25 22 20 12 7.5 5



Seals and other accessories

| Cat. No. | Description                                                               |                                                                                     |
|----------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 18202027 | PTFE vacuum seal                                                          |  |
| 18900362 | Ultra resistant FFKM seal for applications with highly abrasive solutions |                                                                                     |
| 18900190 | Evaporation flask clip(red) CS002440                                      |  |
| 18900188 | Evaporation flask clip(green) CS002942                                    |  |

Vacuum regulator/moisture trap

| Cat. No. | Description                                                                                                                                               |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18900186 | In use of control small volume, installed in a vacuum between DVR480 and vacuum system.<br>Material: PVDF, PTFE, ABS, Borosilicate Glass, Stainless Steel |

