

SISCOTM

PREMIUM +

An ISO 9001-2008 & CE Certified Company



Nitrogen Evaporator

Sample Evaporation & Concentration



SISCOTM

INSTRUMENTS

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50 Sample Concentrator / Evaporator

Nitrogen Evaporator Model: **SI-EV-50** is a Precision Sample Concentrator by Nitrogen Purging. It is a newly designed Sample Concentrator for multiple sample pre-concentration of organic media. A Table Top Model. The unit can be set to a constant Flow and constant Temperature to ensure good evaporation.

It is fully microprocessor controlled and water bath, Temperature, gas station, more advantage LCD display, over Temp. Heater ON/OFF LED, door open display, high temperature Thermal cutoff for safety for best quality and best performs.

Sisco Premium + offer a range of Nitrogen Evaporator Concentration Workstations for sample evaporation. This guide is designed to help you select the most suitable Nitrogen Evaporator for your research requirements. All Nitrogen Evaporator use a vortex evaporation technology that increases the speed of evaporation by a factor of 10 compared to other techniques. The combination of gas flow and temperature is then used to optimize the sample drying. Nitrogen is recommended as the best choice for the gas because it is inert and minimizes the risk of oxidation.

As gas usage can be high if large numbers of samples are prepared a Nitrogen generator or bulk liquid nitrogen supply is recommended to minimize cylinder handling.

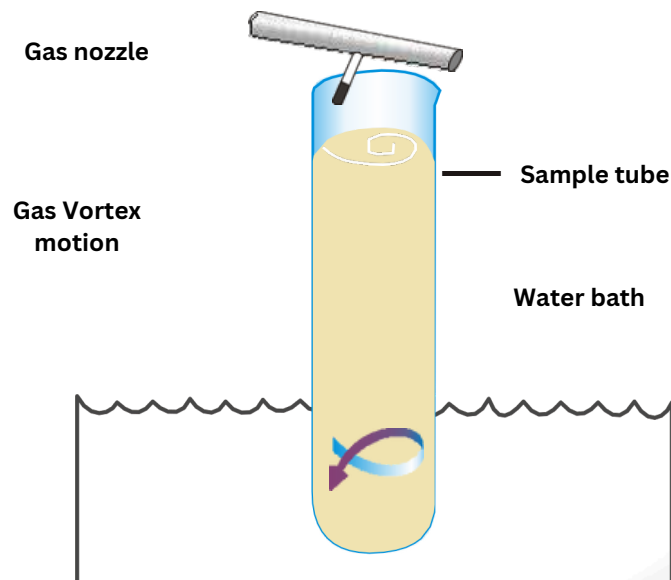


Special Features of SI-EV-50 / 08 / 24 / 100

- Compact Size Table top Model.
- Precise manufacturing using latest technology -Laser Cutting & CNC fabrication
- High Quality Pressure Gauge from Bummer / Abp
- Side Handles for easy movement
- SS 316 tank & Nozzle Manifold for durability and maintenance free
- Best Quality powder coating with SS Electroplating Tank to avoid rusting
- Silicon Heater with SS316 Water bath Tank system
- Specially Designed for fast & uniform heating
- Tank & Body gap is well insulated with imported Glass wool Sheet to avoid heat loss.
- Digital LCD Display
- Auto Cut off with precision tem. sensor for Time, temperature & gas flow
- Best quality Pneumatic Fitting from SMC & CKD operation
- Efficient & adjustable ventilation with Built-in exhaust fan with blower
- 2mtr 1.5 ID Polyethylene Exhaust hose for easy ventilation
- 5 Nitrogen Control valves with ON/OFF Switches
- 50 nitrogen –dispensing nozzle in five horizontal rows
- Latching Type Power ON /OFF Switch
- Automated Solvent Drying, Solvent Evaporation and Sample Concentration
- Evaporation Medium: Nitrogen Gas
- Fast evaporation
- Microprocessor-controlled vortex motion increases surface area for faster evaporation.
- Maintenance-free, microprocessor-controlled motor provides smooth variable-speed power to drive the vortex motion.
- Audible alarm with automatic shut down for timed end point.

Product Specifications: •

- Vortex Shearing Concentration
- Time Range: 15 sec to 10 hours
- Time Set-up / down arrow keys (15 sec increments)
- Temperature range: Ambient to 99 °C
- Temperature set-up / down arrow keys (1 °C increment)
- Start/stop: Green LED indication when process is On
- Gas stations: 5 Nos. with LED indication • Gas regulator range: 0 to 100 PSI (approx)
- Pressure gauge range: 0 to 100 PSI • Controlled: Fully Microprocessor based
- Sample capacity: 50 Nos.
- Gas Line: 5 Nos.
- Dimensions: 30cm(H) x 40cm(W) x 55cm(L)
- Weight: 20 Kgs
- Power supply: 230 V AC / 3Amp 50 Hzs
- Error indication: LED indication with Buzzer
- Easy ON/OFF switches to turn Nitrogen Flow on or off to the nozzle above the sample vials



100 Sample Concentrator / Evaporator

Nitrogen Evaporator Model: SI-EV-100 is a Precision Sample Concentrator by Nitrogen Purging. It is a newly designed Sample Concentrator for multiple sample pre-concentration of in organic media. A Table Top Model. The unit can be set to a constant Flow and constant Temperature to ensure good evaporation. It is fully microprocessor controlled and water bath, Temperature, gas station, more advantage LCD display, over Temp. Heater ON/OFF LED, door open display, high temperature Thermal cutoff for safety for best quality and best performs.

Nitrogen Evaporator is an automated high speed, small volume sample concentrator. It is specially designed for small sample volumes and large batches. The designed for Nitrogen Evaporation of solvents in analysis in drug testing labs. It is ideal for sample volumes from 1 mL to 5 mL.

A micro-processor control maintains the water bath at the set temperature and the times for the operation. Gas can be turned ON in selected manifold depending on number of samples. Nitrogen gas is blown through nozzle manifolds into samples which turn off automatically. Audio alarms indicate when the process is complete. Nitrogen Evaporator sample concentrate is a fast & convenient way of concentrating multiple sample at once. This in combination with the heat from the Nitrogen Gas Purging below produced ideal condition for fast & efficient Evaporator. The standard 100 sample Nitrogen Evaporator is ideal for sample volumes of 1 mL to 5 mL that need to be evaporated in GC, HPLC, LCMS vials, micro-centrifuge tubes, conical bottom tubes or test tubes. This instrument offers a high throughput of 100 sample positions using the standard range of different sizes racks available. Evaporation is based on a water bath to give an even temperature and a gas flow delivered over a set time period. This gives the option to evaporate samples to dryness if required and reconstitute with an alternative solvent..

Product Specifications:

- Vortex Shearing Concentration
- Time Range: 15 sec to 10 hours
- Time Set-up / down arrow keys (15 sec increments)
- Temperature range: Ambient to 99 °C (thermal cutout)
- Temperature set-up / down arrow keys (1°C increment)
- Start/stop: Green LED indication when process is ON
- Gas stations: 5 Nos. with LED indication
- Display: LCD Digital
- Capacity: 4 mL (12 x 75); 5 mL (12 x 100), 10 ml (16 x 100)
- Gas regulator range: 0 to 100 PSI (approx)
- Pressure gauge range: 0 to 100 PSI
- Controlled: Fully Microprocessor based
- Sample capacity: 100 Nos. (AT-EV-100)
- Gas Line: 5 Nos.
- Water tank capacity: 7 Ltr.
- Colour: Blue & White
- Exhaust: 1/2" Hose Pipe of 1 mtr. length
- CE & ISO 9001-2008 Certified
- Weight: 21 kgs
- Dimensions: 30cm(H) x 40cm(W) x 60cm(L)

Accessories

Rack size for SI-EV-50

| Sr.no | Rack Size OD x Length | Working Volumes | Type of Test Tube |
|-------|-----------------------|-----------------|-------------------|
| 1 | 12mm x 75mm | 04ml | Round Surface |
| 2 | 12mm x 100mm | 05ml | Round Surface |
| 3 | 15mm x 125mm | 11ml | Round Surface |
| 4 | 15mm x 150mm | 12ml | Round Surface |
| 5 | 16mm x 100mm | 10ml | Round Surface |
| 6 | 17mm x 150mm | 16ml | Round Surface |
| 7 | 17mm x 125mm | 15ml | Conical |
| 8 | 18mm x 150mm | 20ml | Round Surface |
| 9 | 20mm x 150mm | 30ml | Round Surface |

Rack size for SI-EV-20

| Sr.no | Rack Size OD x Length | Working Volumes | Type of Test Tube |
|-------|-----------------------|-----------------|-------------------|
| 1 | 28 mm x 95 mm | 40 ml 60 | Round Surface |
| 2 | 28 mm x 140 mm | ml | Round Surface |

Rack size for SI-EV-30

| Sr.no | Rack Size OD x Length | Working Volumes | Type of Test Tube |
|-------|-----------------------|-----------------|-------------------|
| 1 | 50 mm x 70 mm 100 ml | 80 ml | Round Surface |
| 2 | 60 mm x 80 mm 150 ml | 120 ml | Round Surface |
| 3 | 70 mm x 95 mm 200 ml | 200 ml | Round Surface |

Rack size for SI-EV-100 & SI-EV-144

| Sr.no | Rack Size OD x Length | Working Volumes | Type of Test Tube |
|-------|-----------------------|-----------------|-------------------|
| 1 | 12 mm x 75 mm | 04ml | Round Surface |
| 2 | 12 mm x 100 mm | 05ml | Round Surface |
| 3 | 10 mm x 40 mm | 01ml | Round Surface |

Physical Properties of Solvent

| Sr.No. | Solvent | Boiling Point |
|--------|--------------------|---------------|
| 1 | N-Hexane | 68.7 |
| 2 | Methylene Chloride | 39.8 |
| 3 | Ethyl acetate | 77.1 |
| 4 | Acetone | 56.3 |
| 5 | Acetonitrile | 81.6 |
| 6 | Methanol | 64.7 |
| 7 | Water | 100 |
| 8 | Isopropyl Ether | 68.3 |
| 9 | Toluene | 101.6 |
| 10 | Ethylene Chloride | 83.5 |

Beaker Size

| Sr.no | Rack Size | Working Volumes | Type of Beaker |
|-------|--------------------|-----------------|----------------------------|
| 1 | 50mm x 70mm 100ml | 80ml | Griffin Low Form withSpout |
| 2 | 60mm x 80mm 150ml | 120ml | Griffin Low Form withSpout |
| 3 | 70mm x 95 mm 200ml | 200ml | Griffin Low Form withSpout |

Parts List

| Sr.no | Description | Nos. |
|-------|-------------------------------|-------|
| 1 | Nitrogen Evaporator | 1 |
| 2 | Rack (as per test table size) | 1 |
| 3 | 8mm PU tubing | 1 |
| 4 | Exhaust hose (2mtr) | 1 |
| 5 | Nozzle Caps | 50nos |
| 6 | Male Connector | 1 |
| 7 | Water Remover | 1 |
| 8 | Power Cord | 1 |

Accessories

- One rack will be supplied with Nitrogen Evaporator
- Standard Fittings, Exhaust Hose Pipe, PU Fittings & Tubing, Clamps & Power Cord
- Nozzle Cap 50 Nos. supplied
- Operational Manual, IQ/OQ/PQ & CE Certificate will be provided

WARRANTY TERMS & CONDITION

ORIGINAL PURCHASES ONLY

Sisco Premium + warranties extend to authorize dealers only. No warranty offered by Seller is transferable. Seller specifically disclaims any warranty to any party who did not directly purchase from Seller.

WARRANTY COVERS NORMAL USE ONLY

Each of Sisco Premium + Warranties covers defects arising under normal use only and do not include malfunctions or failures resulting from misuse, abuse, neglect, alteration, problems with electrical power, usage not in accordance with product instructions, acts of nature or improper installation or repairs.

WARRANTY REQUIREMENTS

- Warranty coverage requires proof of purchase documentation (invoice or packing slip).
- All returns must be clearly marked with the RMA number on the outside of the package for identification.
- Returns will not be accepted unless so marked.
- Goods must be returned properly packaged in their original shipping container or in an equivalent, ESD safe container.
- Goods must be returned with adequate packaging to ensure that they are not damaged in transit.
- Legacy disclaims any responsibility for goods packaged in such a way that they are likely to be damaged in transit.
- Modification to or tampering with any Legacy product including any labels, stickers or markings of any kind shall immediately void the applicable warranty.

UNDER 2 YEAR WARRANTY COVER PARTS (HANDLING DEFECT NOT COVERED IN WARRENTEE)

- Electronics –
 - a) Display
 - b) Keypad
 - c) Solenoid Valves
 - d) Air Blower
 - e) Relay Card
- Mechanical –
 - a) Pressure Gauge
 - b) Nozzle
 - c) Air Flow Regulator

UNDER 1 YEAR WARRANTY COVER PARTS

- Electric Heater (Without Water do not Used)