

Efficient evaporation of biological samples

The Thermo Scientific™ Savant™ SpeedVac™ SPD120 Vacuum Concentrator can be used with a wide variety of solvents and offers resistance to methanol, acetonitrile w/ 0.1% TFA, and other aggressive solvents used in DNA and biological samples. With a medium-capacity, modular-design, the SPD120 Vacuum Concentrator can also be used for applications where freeze-drying or lyophilization is needed.

Benefits

- **Proven reliability:** Over 50 years of experience behind the Savant SpeedVac family of products.
- **Consistency of drying time:** Glass lid helps reduce drying times and prevents condensation.
- **User friendly:** An intuitive interface allows the use of 3 modifiable preset programs to set the temperature and run time for efficient operation.
- **Safety assurance:** Standard lid is equipped with a soft-close mechanism that locks securely to help ensure safety for samples and users. Provides hands-free operation when loading or unloading the rotor lid-stay mechanism. Audible alarm to alert user when operation is finished.
- **Data transfer:** Ability to download live run data from a USB port helps ensure accurate and consistent data collection and transferability.

Applications

- DNA biological samples
- DNA/RNA precipitates
- HPLC samples



- PCR sample preparations
- Oligonucleotide samples
- Drying lipid extracts
- Flash chromatography fractions
- Solid-phase synthesis cleavage solutions such as protein hydrolysates and evaporating synthesis solids
- Natural product purification

Industries

- Pharmaceutical
- Life science
- Biotech (molecular and protein biology)
- Academic research
- Industrial
- Agricultural
- Food and beverage

Product specifications for the Savant SpeedVac SPD120 Vacuum Concentrator

Physical properties

Dimensions (W x D x H) 13 x 18 x 14 in (33 x 46 x 36 cm)

Additional required ventilation space 3 in. (8 cm) on all sides

Shipping dimensions

Boxed (W x D x H) 24 x 32 x 24 in. (61 x 81 x 61 cm)

Product weight 57 lb (26 kg)

Shipping weight (boxed) 75 lb (34 kg)

Materials of construction

Type of cover Glass safety cover

Chamber PTFE-coated aluminum

Chamber seal Silicone rubber

Fittings Polypropylene

Operational requirements

SPD120-115 115 VAC, 60 Hz, 6 A

SPD120-230 230 VAC, 50 Hz, 3 A

Plug configuration: SpeedVac SPD120-115 NEMA 5-15P

Plug configuration: SpeedVac SPD120-230 SCHUKO CEE 7-7 (European plug), IEC 60320 C13 (Chinese Plug), B1363W/13A (UK plug)

Typical rotor spin speed (without rotor)
50 Hz, 1,300 RPM
60 Hz, 1,630 RPM

User interface/display

Temperature settings Ambient, 35–80°C in 5°C increments

Heat-time setting 1 min to 9 hr 59 min and continuous

Run-time setting 1 min to 9 hr 59 min and continuous, manual mode

Vacuum ramp rate NA

Vacuum level control NA

Number of modifiable preset programs 3

Lid-lock indicator Yes

Auto and manual run buttons Yes

Preheat button Yes

Compliance

Certifications UL listed to US and Canadian requirements; CE marked



SpeedVac SPD120P1 Vacuum Concentrator Kit

SpeedVac SPD120 Vacuum Concentrator kits and components

Choose from one of two kits available: The SpeedVac SPD120P1 kit for standard evaporation or the SpeedVac SPD120P2 kit for standard evaporation including lyophilization

| SPD120 kits and components | | |
|----------------------------|--------------------|---|
| Cat. No. | Component Cat. No. | Description |
| SPD120P1-115 | SPD120-115 | SpeedVac Vacuum Concentrator |
| | UVS450-115 | Universal vacuum source (-55 °C) |
| | TFK100 | Tubing kit |
| | SCC1 | CryoCool™ heat transfer (1 L) |
| | GCF400 | Glass condensation flask |
| | RH40-11 | Rotor |
| SPD120P2-115 | SPD120-115 | Vacuum Concentrator |
| | RVT5105-115 | Ultralow-temperature refrigerated vapor trap (-105°C) |
| | VLP120-115 | Vacuum pump |
| | DVG50-UNV | Digital vacuum gauge |
| | RH40-11 | Rotor |
| | SCT120 | Chemical trap cartridge |
| | DC120A | Cartridge for vapor trap |
| | SCC1 | CryoCool heat transfer (1 L) |
| | GCF400 | Glass condensation flask |
| | SPO1-B | Vacuum pump oil |
| | UTP-TYG | Universal tubing kit |



SpeedVac SPD120P2 Vacuum Concentrator Kit

| SpeedVac SPD120 Vacuum Concentrator kits and components | | |
|---|--------------------|---|
| Cat. No. | Component Cat. No. | Description |
| SPD120P1-230 | SPD120-230 | Vacuum concentrator |
| | UVS450A-230 | Universal vacuum source (-55°C) |
| | TFK100 | Tubing kit |
| | SCC1 | Cryocool™ heat transfer (1 L) |
| | GCF400 | Glass condensation flask |
| | RH40-11 | Rotor |
| SPD120P2-230 | SPD120-230 | Vacuum concentrator |
| | RVT5105-230 | Ultralow-temperature refrigerated vapor trap (-105°C) |
| | VLP120-230 | Vacuum pump |
| | DVG50-UNV | Digital vacuum gauge |
| | RH40-11 | Rotor |
| | SCT120 | Chemical trap cartridge |
| | DC120A | Cartridge for vapor trap |
| | SCC1 | CryoCool™ heat transfer (1 L) |
| | GCF400 | Glass condensation flask |
| | SPO1-B | Vacuum pump oil |
| | UTP-TYG | Universal tubing kit |

Traditional rotors for SpeedVac SPD120 Vacuum Concentrator

| Sample format type | Working volume (mL) | No. | Description | Traditional rotor Cat. No. |
|-------------------------|---------------------|-----|--------------------------------------|----------------------------|
| Microcentrifuge tubes | 1.2–1.6 | 40 | 1.5–2.0 mL | RH40-11 |
| | 1.2–1.6 | 64 | 1.5–2.0 mL | RH64-11 |
| | 1.2–0.6 | 120 | 1.5–2.0 mL | RH120-11 |
| | 3.5 | 10 | 17 x 60 mm (5 mL) | RH10-15 |
| Glass and plastic tubes | 0.3 | 100 | 0.4 mL (96 x 50 mm) | RH100-6 |
| | 0.3 | 100 | 0.5 mL (8 x 29) | RH100-8 |
| | 4 | 40 | 1.5–20 mL (12 x 75 mm) | RH40-12 |
| | 4 | 72 | 12 x 75 mm | RH72-12 |
| | 8 | 32 | 13 x 100 mm | RH32-13 |
| | 15 | 8 | 17.5 x 102 mm, 15 mL Corex tubes | RH8-17.5 |
| | 10 | 8 | 18 x 100 mm, 17 x 95, 16 x 100 | RH8-18 |
| Centrifuge tubes | 12 | 10 | 15 mL conical (16 x 120 mm) | RH10-15 |
| | 40 | 6 | 50 mL conical (28 x 115 mm) | RH6-50 |
| Flasks | 80 | 4 | 100 mL pear-shaped flask | RH4-100 |
| Vials | 2 | 60 | 12 x 32 mm, 12 x 40 mm | RH60-12-40 |
| | 3 | 24 | 1-dram vials, 15 x 45 mm (4 mL) | RH24-15 |
| | 2.4, 4.0 | 12 | 20 x 47 mm, 20 x 60 mm | RH12-20 |
| | 5.6 | 24 | 18 x 52 mm scintillation vial | RH24-18 |
| | 16 | 12 | 28 x 60 mm, 20 mL scintillation vial | RH12-28 |
| Microwell plates | – | 2 | Shallow-well plates | RHDW2MP |
| | – | 6 | Shallow-well plates | RHSW6MP |

Ordering information

| SPD120 models and kits | |
|---|--------------|
| Description | Cat. No. |
| SPD120 Vacuum Concentrator, 115 V/60 Hz | SPD120-115 |
| SPD120 Vacuum Concentrator, 230 V/50 Hz | SPD120-230 |
| SPD120P1 Vacuum Concentrator Kit, 115 V/60 Hz | SPD120P1-115 |
| SPD120P1 Vacuum Concentrator Kit, 230 V/50 Hz | SPD120P1-230 |
| SPD120P2 Vacuum Concentrator Kit, 115 V/60 Hz | SPD120P2-115 |
| SPD120P2 Vacuum Concentrator Kit, 230 V/50 Hz | SPD120P2-230 |
| SpeedVac Vacuum Concentrator accessories | |
| Glass condensation flask | GCF400 |
| Flask cover for Cat. No. GCF400 | FC400 |
| Foam insulating ring | 145-6012-00 |
| CryoCool heat transfer fluid (1 L) | SCC1* |
| Post-trap assembly for oligo preps; used on UVS850DDA only | ANT100 |
| Ammonia-neutralizing solution for oligo preps; used on UVS850DDA only | ANS121 |
| Chemical trap (order cartridges separately) | SCT120 |
| Chemical trap kit for radioactivity (compatible with all Thermo Scientific™ Vacuum Concentrator products) | DTK120R |
| Disposable cartridge for neutralizing acid | DC120A |
| Disposable cartridge for trapping volatile radioactivity | DC120R |
| Deluxe convenience cart for SpeedVac™ systems | CC120/DX |

* Hazardous materials: These items require special shipping and handling when shipped by air.

Find out more at thermofisher.com/speedvac

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