

# 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. 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 use of 3 preset programs and additional storage of 3 user defined programs to set the temperature, run time, ramp rate and vacuum level 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 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 preset programs 3

Number of user-defined programs 3

Lid-lock indicator Yes

Auto and manual run buttons Yes

Preheat button Yes

### Compliance

North America 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 Integrated System, 115 V/60 Hz	SPD120P1-115
SPD120P1 Integrated System, 230 V/50 Hz	SPD120P1-230
SPD120P2 Integrated System, 115 V/60 Hz	SPD120P2-115
SPD120P2 Integrated System, 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](https://thermofisher.com/speedvac)