

thermo scientific



Choosing the best vacuum
concentrator for your laboratory

ThermoFisher
SCIENTIFIC

One-click Evaporation

For more than 50 years, scientists around the world have been using Thermo Scientific™ Savant™ SpeedVac™ Vacuum Concentrators to remove solvents from their samples.

SpeedVac systems use state-of-the-art centrifugation, vacuum, and heat technologies for removing solvents and concentrating samples while maintaining sample integrity.

A diverse product range provides solutions for a wide variety of solvent applications ranging from the traditional drying down of DNA preparations in water and methanol, to the more complex and aggressive applications presented by the combinatorial chemistry and drug discovery sectors of the pharmaceutical industry.

To make the operation of a SpeedVac system easier than ever, we now offer pre-programmed and customizable protocols. All eight Savant SpeedVac Vacuum Concentrators, come with at least three presets, and up to eight, customizable programs to aid in drying solvents for your application.

Savant SpeedVac systems are designed to help provide quick, simple evaporation resulting in viable samples time after time.



Large capacity vacuum concentrator kits by model

Applications	SPD1030	SPD2030P1 "OP" with ANT100 & ANS121	SPD210P1	SPD210P2	SPD2030 "Integrated"	SPD300P2	SPD300P1
Number of 1.5 mL tubes vacuum concentrator holds	120	200	200	200	200	200	200
DNA/RNA ethanol, H ₂ O, buffers	●	●	●	●	●	●	●
DNA/RNA Ammonium hydroxide (oligos)		●	●	●	●	●	●
DNA/RNA DNA in acetonitrile or H ₂ O		●	●	●	●	●	●
Proteins, Enzymes, HPLC Fractions H ₂ O, acetonitrile, methanol, ethanol + 0.1% TFA			●	●	●	●	●
Low boiling-point solvents (Aggressive) Organic chemistry, drug discovery Chloroform, ethyl acetate, acetone, methylene chloride, hexane						●	●
High boiling point solvents (Aggressive) Organic chemistry, drug discovery Toluene, nitrobenzene, pyridine						●	
High boiling point solvents (Aggressive) Organic chemistry, drug discovery DMSO, DMF, toluene, nitrobenzene, pyridine							●
Strong acids and bases Organic chemistry, drug discovery TFA, HCL, acetic acid, formic acid, sodium hydroxide						●	●

Two capacities for flexible and streamlined evaporation



Thermo Scientific™ Savant™ SpeedVac™ SPD1030 and SPD2030 Vacuum Concentrators are fully integrated systems that combine a concentrator, refrigerated cold trap, diaphragm pump and a vacuum gauge into a single, compact unit.



Applications

- DNA/RNA
- Proteomics
- Metabolite research
- Drug and forensics testing
- Environmental sampling

Industries

- Life Science
- Biotech (molecular biology and protein)
- Academic research
- Pharmaceutical
- Industrial
- Agriculture
- Food

Convenience and flexibility in two capacity ranges

The Savant SpeedVac SPD1030 System is designed for medium capacity (i.e., 120 x 1.5 mL tubes and other formats) while the Savant SpeedVac SPD2030 System accommodates higher capacity (i.e., 200 x 1.5 mL tubes and other formats). A variety of rotors are available for both systems to support sample formats from micro-centrifuge tubes, vials, and microplates to large-volume flasks. Both systems fit in a standard laboratory fume hood.

Benefits

- **Proven reliability:** Over 50 years of experience stand behind the Savant SpeedVac family of products. Each unit contains an oil-free PTFE diaphragm vacuum pump, making it virtually maintenance-free.
- **Speed and efficient solvent removal:** Rapid evaporation and efficient solvent removal is enhanced with a radiant cover, while vacuum ramping and pressure controls eliminate sample bumping to maintain sample integrity.
- **Ease of use:** An integrated design and intuitive user interface ensure simplicity and control. The intuitive control panel incorporates a bright display and offers three preset programs and three user-defined programs. An oil-free vacuum source eliminates the need to add or change oil. Includes data integrity and transfer ability to download data from a USB port.
- **Safety assurance:** SpeedVac Systems' standard glass lids are equipped with a soft-close mechanism that locks securely to help ensure safety for both samples and technicians.

Product Specifications	SpeedVac SPD1030 integrated system	SpeedVac SPD2030 integrated system
Physical properties		
Dimensions (WxDxH)	25 x 26 x 16 in / 64 x 66 x 41 cm	31 x 28 x 19 in / 79 x 71 x 49 cm
Required ventilation space	3 in / 8 cm on all sides	3 in / 8 cm on all sides
Shipping dimensions		
Boxed (WxDxH)	33 x 37 x 31 in / 83 x 94 x 79 cm	33 x 37 x 31 in / 83 x 94 x 79 cm
Product weight	69 kg / 139 lbs	93 kg / 205 lbs
Shipping weight (boxed)	90 kg / 198 lbs	118 kg / 260 lbs
Materials of construction		
Type of cover	Radiant glass cover	Radiant glass cover
Chamber	PTFE coated aluminum	PTFE coated aluminum
Chamber seal	BUNA N-70	BUNA N-70
Fittings	Polypropylene	Polypropylene
Vacuum pump	2-headed pump with ETFE diaphragms	2-headed pump with ETFE diaphragms
Vacuum control (ultimate vacuum level)	36 l / 60 Hz, 30 l / 50 Hz <10 Torr (13 mbar, 1.3 kPa)	36 l / 60 Hz, 30 l / 50 Hz <10 Torr (13 mbar, 1.3 kPa)
Operational requirements		
	SPD1030-115: 115 VAC/60 Hz, 12 A SPD1030-230: 230 VAC/50 Hz, 6 A	SPD2030-220: 220 VAC/60 Hz, 8 A SPD2030-230: 230 VAC/50 Hz, 8 A
User interface/display		
Temperature setting	35 - 80 °C in 5 °C increments	35 - 80 °C in 5 °C increments
Two separate timer settings for heat and run	1 minute to 9 hours and 59 minutes, continuous	1 minute to 9 hours and 59 minutes, continuous
Vacuum ramp rate setting	1 to 5	1 to 5
Vacuum level control	30 to 5.1 torr in 0.1 increments (40 to 67 mbr)	30 to 5.1 torr in 0.1 increments (40 to 67 mbr)
Number of preset programs	3	3
Number of user-defined programs	3	3
Lid lock indicator	Yes	Yes
Auto and manual run buttons	Yes	Yes
Radiant lamp on/off button	Yes	Yes
Pre-heat button	Yes	Yes
Compliance		
Certifications	UL listed to U.S. and Canadian requirements. CE marked.	



Small capacity rotors for SpeedVac SPD1030 Vacuum Concentrator				
Tube type	Description	No. of tubes	Working volumes (mL)	Rotor Cat. No.
Microcentrifuge tube	1.5 - 2.0 mL	40	1.2 - 1.6	*RH40-11
	1.5 - 2.0 mL	64	1.2 - 1.6	RH64-11
	1.5 - 2.0 mL	120	1.2 - 1.6	RH120-11
Glass and plastic tubes	0.5 mL (8 x 29 mm)	100	0.3	RH100-8
	0.4 mL (6 x 50 mm)	40	0.3	RH40-6
	0.4 mL (6 x 50 mm)	100	0.3	RH100-6
	12 x 75 mm, 13 x 100 mm	20	4	RH20-12
	1.5 - 2.0 (12 x 75 mm)	40	4	RH40-12
	12 x 75 mm	72	4	RH72-12
	13 x 100 mm	20	8	RH20-12
	13 x 100 mm	32	8	RH32-13
	17.5 x 102 mm, 15 mL	8	15	RH8-17.5
	17 x 100 mm, 18 x 100 mm	8	10	RH8-18
	17 x 95 mm, 16 x 100 mm			
	18 x 150 mm	4	24	RH4-18-150
	25 x 105 mm, 30 mL	6	30	RH6-25
	16 x 120 mm, 17 x 120 mm, 15 mL	10	12	RH10-15
	50 mL, 28 x 115 mm	6	40	RH6-50
12 x 32 mm, 12 x 40 mm	60	2	RH60-12-40	
20 x 47 mm, 20 x 58 mm	12	2.4	RH12-20	
Glass vials	1 dram vial, 15 x 45 mm (4 mL)	24	3	RH24-15
	20 x 60 mm, 20 x 58 mm, 20 x 47 mm	12	4	RH12-20
Mini-scintillation vial	18 x 52 mm	24	5.6	RH24-18
	28 x 60 mm	12	16	RH12-28
Pear-shaped flask	100 mL	4	80	RH4-100
Microplate	Shallow well plates	2	0.3	RH2MP

*Standard with SPD1030P1 unit

Large capacity rotors for SpeedVac SPD2030 Vacuum Concentrator				
Tube type	Description	No. of tubes	Working volumes (ml)	Rotor Cat. No.
Microcentrifuge tube	1.5 - 2.0 mL	200	1.2 - 1.6	*RH200-12
Glass and plastic tubes	12 x 75 mm	200	4	*RH200-12
	13 x 100 mm	118	8	*RH200-12
	16 x 100 mm	96	10	RH96-16-100
	16 x 125 mm (for UMA)	88	12	**RH88-16-125U
	17 x 100 mm, 16 x 100 mm	60	10	RH60-17-100
	18 x 125 mm	48	15	RH48-18-125
	18 x 150 mm, 16 x 125 mm	32	24	RH32-18-150
	15 mL (16 x 120 mm, 17 x 120 mm)	52	12	RH52-15
Centrifuge tubes	15 mL (17 x 120 mm)	30	12	RH60-17-100
	50 mL (28 x 115 mm), (for UMA)	48	40	**RH48-50U
Glass vials	1 dram vial, 15 x 45 mm (4 mL)	192	3	RH192-15
	28 x 60 mm, 28 x 50 mm	50	16	RH50-28-60
Flasks	100 mL flask	8	80	RH8-200
	100 mL recovery flask	8	80	RH8-100
Bottles	250 mL centrifuge bottles	8	250	RH8-200
Microplate	Shallow well	12	0.3	MPTR12-210
	Deep Well	4	-	MPTR8-210
Rotor with swings	4-position rotor holds 4 carriers/4 blocks			**FPR-4A

*Standard with SPD2030P1 unit

**Use with PRO-10, PRO-20 or PRO-50 Upgrades (SUMAX400)

Ordering Information					
SpeedVac Kit	Cat. No.	Description	SpeedVac Kit	Cat. No.	Description
SPD1030P1-115	SPD1030-115	Vacuum concentrator	SPD1030P1-230	SPD1030-230	Vacuum concentrator
	RH40-11	Rotor		RH40-11	Rotor
	SCC1	CryoCool™ 1L heat transfer liquid		SCC1	CryoCool 1L heat transfer liquid
	GCF400	Glass condensation flask		GCF400	Glass condensation flask
SPD1030A-115	SPD1030-115	Vacuum concentrator	SPD1030A-230	SPD1030-230	Vacuum concentrator
	GCF400	Glass condensation flask		GCF400	Glass condensation flask
	FC400	Flask cover for GCF400		FC400	Flask cover for GCF400
SPD2030P1-220	SPD2030-220	Vacuum concentrator	SPD2030P1-230	SPD2030-230	Vacuum concentrator
	RH200-12	Rotor		RH200-12	Rotor
	SCC1	CryoCool 1L heat transfer liquid		SCC1	CryoCool 1L heat transfer liquid
	GCF400	Glass condensation flask		GCF400	Glass condensation flask
SPD2030A-220	SPD2030-220	Vacuum concentrator	SPD2030A-230	SPD2030-230	Vacuum concentrator
	GCF400	Glass condensation flask		GCF400	Glass condensation flask
	FC400	Flask cover for GCF400		FC400	Flask cover for GCF400

Rotor upgrade kits for SPD2030 only

PRO-10	Includes FPR-4A rotor, (4) UPC-1 single-shelf carriers, and SUMAX400 upper magnet assembly
PRO-20	Includes FPR-4A rotor, (4) UPC- 2 two-shelf carriers for microplates, and SUMAX400 upper magnet assembly
PRO-50	Includes FPR-4A rotor, (4) UPC-5 5-shelf carriers for shallow-well microplates, and SUMAX400 upper magnet assembly

Additional accessories

Vapor trap (included with the system)	
GCF400	Glass condensation flask
FC400	Flask cover for GCF400
145-6012-00	Foam insulating ring
*SCC1	CryoCool heat transfer fluid (1 liter)
Oligo prep	
ANT100	Oligo prep post-trap assembly
ANS121	Ammonia-neutralizing solution (1 bottle) for use with ANT100
Chemical traps	
SCT120	Chemical trap (order cartridges separately)
DTK120R	Chemical trap kit for radioactivity
*DC120A	Disposable cartridge for neutralizing acid
DC120R	Disposable cartridge for trapping volatile radioactivity
Cart	
CC120/DX	Deluxe convenience cart

*Hazardous Materials -These items require special handling when shipped by air.

Find out more at thermofisher.com/speedvac