

Savant SpeedVac SPD300DDA Vacuum Concentrator



Thermo Scientific™ Savant™ SpeedVac™ SPD300DDA Vacuum Concentrator is a large-capacity vacuum concentrator with a modular design, ideal for drying aggressive organic solvents, strong acids, bases, and combinatorial chemistry solvents. It is capable of drying larger quantities of samples at one time and can support high-volume sample preparation needs.

Benefits

- **Proven reliability:** Over 50 years of experience stand behind the Savant SpeedVac family of products.
- **Consistency of drying time:** 4 IR heat lamps and PTFE-coated chamber and tubing for drying low- and high-boiling point solvents and strong acids and bases such as DMSO, methylene chloride, TFA, and other acids. Heated glass lid reduces drying times and prevents condensation. Built-in digital vacuum gauge allows continuous monitoring of process to avoid “bumping” or uncontrolled boiling of solvents.
- **Convenience and flexibility:** The heavy-duty universal rotor is optimized for efficient large-sample processing while accommodating various sample handling formats, such as microcentrifuge tubes, microplates, and 250 mL flasks.

Applications

- Solid-phase extractions
- Drying lipid extracts
- Flash chromatography fractions
- Solid-phase synthesis cleavage solutions such as protein hydrolysates and evaporating synthesis solids
- HPLC

Industries

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

- **User friendly:** User interface allows use of 4 preset programs and 8 user defined programs to set heat, run time, ramp rate and vacuum level for efficient operation.
- **Safety assurance:** Standard glass lid locks securely to help ensure safety for samples and users. Hands free operation when loading or unloading the rotor with the lid stay mechanism. An audible alarm alerts the user when the operation is finished.
- **Sample integrity:** Ability to download live run data from a USB port enhances data integrity.

Product specifications for Savant SpeedVac SPD300DDA Vacuum Concentrator

Physical properties

Dimensions (W x D x H) 19 x 16 x 18 in (48 x 66 x 46 cm)

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

Shipping dimensions

Boxed (W x D x H) 31 x 26 x 42 in (79 x 64 x 107 cm)

Product weight 117 lb (53 kg)

Shipping weight (boxed) 160 lb (73 kg)

Materials of construction

Type of cover Heated glass safety cover

Chamber Teflon™ PTFE-coated aluminum

Chamber seal Viton™ rubber

Fittings Polypropylene

Operational requirements

SPD300DDA-115 115 VAC, 60 Hz, 10 A

SPD300DDA-230 230 VAC, 50 Hz, 6 A

Plug configuration: SPD300DDA-115 Nema 5-15p

Plug configuration: SPD300DDA-230 Schuko cee 7-7 (Euro plug), BS1363W/13a fuse (UK plug), and China plug

Typical rotor spin speed (without rotor)
50 Hz 1040 rpm
60 Hz 1060 rpm

User interface/display

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

Heat time settings 1 min to 9 hr 59 min and continuous

Run time settings 1 min to 9 hr 59 min and continuous in manual mode

Vacuum ramp rate setting 1 to 5

Vacuum level control 20 Torr to 100 mTorr in 0.1 Torr increments

Number of preset programs 4

Number of user-defined programs 8

Lid lock indicator Yes

Auto and manual run buttons Yes

Radiant lamp on/off buttons Yes

Preheat button Yes

Compliance

North america UL listed to US and Canadian requirements; CE marked

Ordering information

Cat. no.	Description
SPD300DDAA-115	SPD300 integrated system, 115 V/60 Hz, FPR-4A and UPC-1 carrier included. Order rotor blocks separately.
SPD300DDAA-230	SPD300 integrated vacuum system, 230 V/50 Hz, FPR-4A and UPC-1 carrier included. Order rotor blocks separately.
SPD300P1-115	SPD300P1 integrated system, 115 V
SPD300P1-230	SPD300P1 integrated system, 230 V
SPD300P2-115	SPD300P2 integrated system, 115 V
SPD300P2-230	SPD300P2 integrated system, 230 V



SPD300P1 kit



SPD300P2 kit

SpeedVac SPD300DDA kit components

Cat. no.	Part no.	Description
SPD300P1-115	SPD300DDA-115	Vacuum concentrator
	RVT5105-115	Ultralow-temperature refrigerated vapor trap (-105°C)
	FPR-4A	4-Place flask/plate rotor accessory
	UPC-1	Single-shelf universal plate*
	SCC1	Cryocool™ 1 L heat transfer fluid
	GF4000	Glass condensation flask
	VTK80	Vacuum tubing kit
	SPO1-B	Vacuum pump oil
	VLP120-115	Vacuum pump
SPD300P2-115	SPD300DDA-115	Vacuum concentrator
	UVS850DDA-115	Universal vacuum system (cold trap with oil-free pump)
	FPR-4A	4-Place flask/plate rotor accessory
	UPC-1	Single-shelf universal plate*
	SCC1	Cryocool 1 L heat transfer fluid
	GF4000	Glass condensation flask
	VTK80	Vacuum tubing kit
SPD300P1-230	SPD300DDA-230	Vacuum concentrator
	RVT5105-230	Ultralow-temperature refrigerated vapor trap (-105°C)
	FPR-4A	4-Place flask/plate rotor accessory
	UPC-1	Single-shelf universal plate*
	SCC1	Cryocool 1 L heat transfer fluid
	GF4000	Glass condensation flask
	VTK80	Vacuum tubing kit
	SPO1-B	Vacuum pump oil
	VLP120-230	Vacuum pump
SPD300P2-230	SPD300DDA-230	Vacuum concentrator
	UVS850DDA-115	Universal vacuum system (cold trap with oil-free pump)
	FPR-4A	4-Place flask/plate rotor accessory
	FPR-4A	4-Place flask/plate rotor accessory
	SCC1	Cryocool 1 L heat transfer fluid
	GF4000	Glass condensation flask
	VTK80	Vacuum tubing kit

Rotor Blocks: for use with four-position rotor (FPR-4A)

Type	Description	No. of tubes	Working volumes (mL)	Rotor block part no.
All blocks come as sets of two.				
Microcentrifuge tubes	1.5 mL	25	1.2–1.6	RH10-15
	13 x 100 mm	35	8	RH60-17-100
	16 x 100 mm	24	10	RH52-15
	16 x 125 mm	15	12	RH6-50
	17 x 60 mm	24	5	RH48-50U
Centrifuge tubes	50 mL conical (30 x 115 mm)	6	40	RBA6-30-115
	15 mL conical (17 x 120 mm)	24	12	RBA24-16-100
Vials	28 x 60 mm, 20 mL scintillation vial	12	4	RBA12-28-58
	19 x 65 flat bottom	24	4	RBA24-19-65
	12 x 32 mm	54	2	RBA54-12-32
	15 x 45 mm, 1-dram	24	3	RBA24-15-45
Round or flat bottom flask*	–	8	50 mL each flask	RBA2-FLSK-100
	–	4	175 mL each flask	RBA1-FLSK-250

* Note: Must be special ordered.

Traditional rotors for SPD300DDA vacuum concentrator (Requires purchase of adapter cat. no. RAD200)

Type	Description	No. of tubes	Working volumes (mL)	Rotor part no.
Microcentrifuge tubes	1.5–2.0 mL	200	1.2–1.6	RH200-12
	17 x 60 mm (5 mL)	30	3.5	RH10-15
Glass and plastic tubes	12 x 75 mm	200	4	RH200-12
	13 x 100 mm	32	8	RH32-13
	16 x 25 mm, 18 x 125 mm	48	12	RH48-18-125
	18 x 150 mm, 16 x 125 mm	32	24	RH32-18-150
	16 x 125 mm	88	24	RH88-16-125
Centrifuge tubes	50 mL conical (28 x 115 mm)	48	40	RH48-50U
Flasks	100 mL pear-shaped flask	8	80	RH8-200
Vials	1-Dram vial (15 x 45 mm), 4 mL	192	3	RH192-15
	28 x 60 mm, 20 mL scintillation vial	50	16	RH50-28-60
Microwell plates	Shallow well	12	–	MPTR12-210
	Deep well (shallow well)	4	–	MPTR8-210

SpeedVac SPD300DDA vacuum concentrator accessories

Part no.	Description
GF4000	Glass condensation flask (4 L)
121-6162-00	White foam insulating ring for coverglass trap
SCC1*	Cryocool heat transfer fluid (1 L)
RAD200	Rotor adapter for the sumax400 upper magnet assembly
ANT100	Post-trap assembly for oligo preps; used on UVS850DDA only
ANS121	Ammonia-neutralizing solution for oligo preps; used on UVS850DDA only
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
CC120/DX	Deluxe convenience cart for SpeedVac systems

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

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