

Dry-down aggressive organic solvents with efficiency

The Thermo Scientific™ Savant™ SpeedVac™ SPD140DDA Vacuum Concentrator is a medium-capacity vacuum concentrator with a modular design, ideal for drying aggressive organic solvents, strong acids, bases, and combinatorial chemistry solvents.

Benefits

- **Proven reliability:** Over 50 years of experience stand behind the Savant SpeedVac family of products

- **Consistency of drying time:**

- Is aided by radiant lamps, a PTFE coated chamber, and tubing for drying solvents with low- and high-boiling points and strong acids and bases such as DMSO, methylene chloride, TFA, and more.

- Heated glass lid helps reduce drying times and prevent condensation. Dual control of vacuum ramp and vacuum levels help eliminate sample bumping and freezing.

- **User friendly:** Intuitive interface allows use of 4 preset programs and 8 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. Hands-free operation when loading or unloading the rotor is enabled with lid stay mechanism. An audible alarm alerts the user the when operation is finished.

- **Data transfer:** Ability to download live run data from a USB port enhances data transferability.

Applications

- Solid-phase extractions
- Drying lipid extracts



- Flash chromatography fractions

- Solid-phase synthesis cleavage solutions such as protein hydrolysates and evaporating synthesis solids

- Compound management

Industries

- Pharmaceutical

- Life science

- Biotech (molecular and protein biology)

- Academic research

- Industrial

- Agricultural

- Food and beverage

Product specifications for the Savant SpeedVac SPD140DDA 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 Heated glass safety cover

Chamber PTFE-coated aluminum

Chamber seal Viton™ rubber

Fittings Polypropylene

Operational requirements

SPD140DDA-115 115 VAC, 60 Hz, 6 A

SPD140DDA-230 230 VAC, 50 Hz, 3 A

Plug configuration: SPD140DDA-115 NEMA 5-15P

Plug configuration: SPD140DDA-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 to 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 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

SpeedVac SPD140DDA vacuum concentrator

Cat. No.	Description
SPD140DDA-115	SPD140DDA Vacuum Concentrator, 115 V/60 Hz
SPD140DDA-230	SPD140DDA Vacuum Concentrator, 230 V/50 Hz
SPD140P1-115	SPD140P1 Integrated System, 115 V/60 Hz
SPD140P1-230	SPD140P1 Integrated System, 230 V/50 Hz
SPD140P2-115	SPD140P2 Integrated System, 115 V/60 Hz
SPD140P2-230	SPD140P2 Integrated System, 230 V/50 Hz



SpeedVac SPD140P1 Vacuum Concentrator Kit



SpeedVac SPD140P2 Vacuum Concentrator Kit

SpeedVac SPD140DDA Vacuum Concentrator Kits and components

Cat. No.	Component Cat. No.	Description
SPD140P1-115	SPD140DDA-115	Vacuum concentrator
	RVT5105-115	Ultralow-temperature refrigerated vapor trap (-105°C)
	OFP400-115	Vacuum pump
	RH40-11	Rotor
	VTK80	Vacuum tubing kit
	SCC1	CryoCool™ heat transfer fluid (1 L)
	GCF400	Glass condensation flask
SPD140P2-115	SPD140DDA-115	Vacuum concentrator
	UVS850DDA-115	Universal vacuum source (-50°C)
	RH24-15	Rotor
	VTK80	Vacuum tubing kit
	SCC1	CryoCool heat transfer fluid (1 L)
	GCF400	Glass condensation flask

SpeedVac SPD140DDA Vacuum Concentrator Kits and components

Kit Cat. No.	Component Cat. No.	Description
SPD140P1-230	SPD140DDA-230	Vacuum concentrator
	RVT5105-230	Ultralow-temperature refrigerated vapor trap (-105°C)
	OFP400-230	Vacuum pump
	RH40-11	Rotor
	VTK80	Vacuum tubing kit
	SCC1	CryoCool heat transfer fluid (1 L)
	GCF400	Glass condensation flask
SPD140P2-230	SPD140DDA-230	Vacuum concentrator
	UVS850DDA-230	Universal vacuum source (-50°C)
	RH24-15	Rotor
	VTK80	Vacuum tubing kit
	SCC1	CryoCool heat transfer fluid (1 L)
	GCF400	Glass condensation flask

Traditional rotors for the SpeedVac SPD140DDA Vacuum Concentrator

Sample format type	Working volume (mL)	Number	Description	Traditional rotor model
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
	1.2–1.6	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	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

SpeedVac Vacuum Concentrator accessories

Cat. No.	Description
GCF400	Glass condensation flask
FC400	Flask cover for GCF400
145-6012-00	Foam insulating ring
SCC1*	CryoCool heat transfer fluid (1 L)
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 (compatible with all Thermo Scientific vacuum concentrator products)
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.

Find out more at thermofisher.com/speedvac

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