thermo scientific





### One-click Evaporation

For more than 50 years, scientists around the world have been using Thermo Scientific<sup>™</sup> Savant<sup>™</sup> SpeedVac<sup>™</sup> 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.



# Savant SpeedVac System selection guide

Selecting the correct vacuum concentrator system is critical for optimum performance and reliability. Savant SpeedVac Kits come in two formats:

- Modular kits allow you to choose the vacuum concentrator, trap, rotor, and pump components that are best for your application and can be easily swapped out for solvent compatibility
- Integrated kits are complete systems, containing the vacuum concentrator, trap, rotor and pump, fully ready to install and run upon arrival

Use the charts below to select the right system for your application. Email speedvac@thermofisher.com for any ordering questions or to discuss a customized system to suit your needs.

#### Small and medium capacity vacuum concentrator kits by model

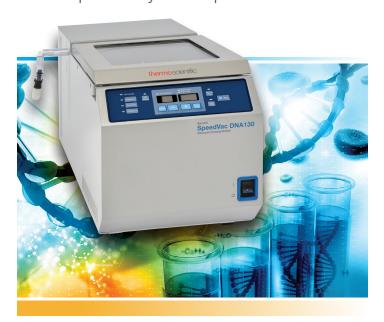
Applications	DNA130	SPD1030P1 "OP" With ANT100 & ANS121	SPD120P1	SPD120P2	SPD1030 "Integrated"	SPD130P1	SPD140P1	SPD140P2
Maximum number of 1.5 mL tubes vacuum concentrator holds	36	120	120	120	120	120	120	120
DNA/RNA ethanol, H <sub>2</sub> 0, buffers	•	•	•	•	•	•	•	•
DNA/RNA Ammonium hydroxide (oligos)		•	•	•	•	•	•	•
DNA/RNA DNA in acetonitrile or H <sub>2</sub> O		•	•	•	•	•	•	•
Proteins, enzymes, HPLC fractions H <sub>2</sub> 0, 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 DMSO, DMF, toluene, nitrobenzene, pyridine							•	•
Strong acids and bases Organic chemistry, drug discovery TFA, HCL, acetic acid, formic acid, sodium hydroxide							•	•

#### Large capacity vacuum concentrator kits by model

Large capacity vacuum concentrator kits by mou							
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
<b>DNA/RNA</b> ethanol, H <sub>2</sub> 0, buffers	•	•	•	•	•	•	•
DNA/RNA Ammonium hydroxide (oligos)		•	•	•	•	•	•
<b>DNA/RNA</b> DNA in acetonitrile or H <sub>2</sub> O		•	•	•	•	•	•
Proteins, Enzymes, HPLC Fractions H <sub>2</sub> 0, 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						•	•
					1.10		

## Support sample preparation with ease and efficiency

Compact and integrated vacuum concentrator for sample safety and reproducible results



Designed for DNA and RNA applications, the compact and integrated Thermo Scientific™ Savant™ SpeedVac™ DNA130 vacuum concentrator supports the rapid and safe concentration and drying-down of samples, including nucleic acids, PCR preps, and synthetic oligos.

Support your low-volume sample preparation needs with the easy-to-use Savant SpeedVac DNA130 concentrator. Use one of three user-defined programs for efficiency of operation.

#### **Solvents**

- Ethanol
- H<sub>2</sub>0
- Buffers

#### **Benefits**

#### Proven reliability

With over 50 years of high-quality vacuum concentrators, you can feel confident the Savant SpeedVac family of products will help deliver the reproducible results you depend on.

#### • Compact, easy to use design

- Only 29 cm (11.5 in) wide freeing up valuable bench space.
- Create and save up to three user-defined methods for faster operation.

#### Safety assurance

- External post trap neutralizes ammonium hydroxide vapors.
- For concentrating radioactive samples, an optional radioactive chemical trap kit can be used to minimize concerns in handling hazardous fumes and chemicals.
- Lid lock illuminates when lid is closed and locked.

#### Sample integrity

DNA/RNA samples require careful handling during the denaturing process. Dry at ambient temperatures or at very low heat to ensure maximum sample protection.

 Data integrity and transfer ability to download data from a USB port.



Product specifications Physical properties Dimensions (IVXDxH) Additional required ventilation space Shipping dimensions Boxed (WxDxH) Product weight 39 kg / 86 lbs Shipping weight (boxed) Materials of construction Chamber Ghamber Teffon coated aluminum Chamber Seal Silicone rubber Pump heads 2-headed pump with ETFE diaphragms Cover Transparent acrylic lid with safety lock Operational requirements Voltage input/frequency/power DNA130-115 115V AC / 60 Hz, 10 A DNA130-230 230 VAC / 50 Hz, 6 A Plug configuration DNA130-115 NEMA 5-15P DNA130-230 SCHUKO CEE 7-7 Typical rotor 50 Hz 1300 RPM (Max) Motor Maintenance-free induction motor Performance properties Noise <65 dBA Vacuum pump ETFE oil-free diaphragm pump Capacity 36 L/min at 60 Hz, 30 L/min at 50 Hz Vacuum control (ultimate vacuum level) Temperature range Display/user interface Programs 3 selectable programs by application Can be modified and stored Auto and manual run selector Control panel LED read out of temperature, run time, and heat time Temperature set point Timer range (heat and run) Modes of opera- tion Curliised to U.S. and Canadian require- ments. CE marked.	Due duet en esitientie	**
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Additional required ventilation space  Shipping dimensions  Boxed (WxDxH) 20 x 32 x 19 in / 66 x 81 x 61 cm  Product weight 39 kg / 86 lbs  Shipping weight (boxed)  Materials of construction  Chamber Teflon coated aluminum  Chamber seal Silicone rubber  Pump heads 2-headed pump with ETFE diaphragms  Cover Transparent acrylic lid with safety lock  Operational requirements  Voltage input/frequency/power  DNA130-115 115V AC / 60 Hz, 10 A  DNA130-230 230 VAC / 50 Hz, 6 A  Plug configuration  DNA130-115 NEMA 5-15P  DNA130-230 SCHUKO CEE 7-7  Typical rotor 50Hz 1300 RPM (Max)  Motor Maintenance-free induction motor  Performance properties  Noise <65 dBA  Vacuum pump ETFE oil-free diaphragm pump  Capacity 36 L/min at 60 Hz, 30 L/min at 50 Hz  Vacuum control (ultimate vacuum level)  Temperature Ambient* to 65°C  range  Display/user interface  Programs 3 selectable programs by application Can be modified and stored Auto and manual run selector  Control panel LED read out of temperature, run time, and heat time  Temperature set point  Timer range (heat and run)  Modes of operation  Compliance  Certifications UL listed to U.S. and Canadian require-		11.5 05 101 100 01 01
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Noise < 65 dBA  Vacuum pump ETFE oil-free diaphragm pump  Capacity 36 L/min at 60 Hz, 30 L/min at 50 Hz  Vacuum control (ultimate vacuum level)  Temperature Ambient* to 65°C  range  Display/user interface  Programs 3 selectable programs by application Canbe modified and stored Auto and manual run selector  Control panel LED read out of temperature, run time, and heat time  Temperature set point  Timer range (heat and run) 1 minute to 9 hours and 59 minutes, continuous  Modes of operation  Compliance  Certifications UL listed to U.S. and Canadian require-		
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Capacity  Vacuum control (ultimate vacuum level)  Temperature range  Display/user interface  Programs  3 selectable programs by application Can be modified and stored Auto and manual run selector  Control panel  LED read out of temperature, run time, and heat time  Temperature set point  Timer range (heat and run)  Modes of operation  Compliance  Certifications  All Manual, and Pre-heat temperature Control value  Auto, Manual, and Canadian require-		
Vacuum control (ultimate vacuum level)  Temperature Ambient* to 65°C range  Display/user interface  Programs 3 selectable programs by application Can be modified and stored Auto and manual run selector  Control panel LED read out of temperature, run time, and heat time  Temperature set point  Timer range (heat and run) Ambient, 35-65°C in 5°C increments continuous  Modes of operation  Compliance  Certifications UL listed to U.S. and Canadian require-		
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Temperature range  Display/user interface  Programs  3 selectable programs by application Can be modified and stored Auto and manual run selector  Control panel  LED read out of temperature, run time, and heat time  Temperature set point  Timer range (heat and run)  Modes of operation  Compliance  Certifications  Ambient* to 65°C  Auto, Manual, and Pre-heat temperature  Timer range (heat and run)  Auto, Manual, and Pre-heat temperature  UL listed to U.S. and Canadian require-	`	
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Control panel  LED read out of temperature, run time, and heat time  Temperature set point  Timer range (heat and run)  Modes of operation  Compliance  Certifications  LED read out of temperature, run time, and heat time  Ambient, 35-65°C in 5°C increments  1 minute to 9 hours and 59 minutes, continuous  Auto, Manual, and Pre-heat temperature  UL listed to U.S. and Canadian require-		
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Compliance Certifications UL listed to U.S. and Canadian require-	<u> </u>	
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Certifications UL listed to U.S. and Canadian require-		
		Ul listed to U.S. and Canadian require-
	00. 11104110110	ments. CE marked.

Ordering information				
Cat. No.	Description			
DNA130-115	DNA SpeedVac system, 115 VAC 60 Hz. Includes one RD36 rotor			
DNA130-230	DNA SpeedVac system, 230 VAC 50 Hz. Includes one RD36 rotor			
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Rotor accessories				
	Rotor Part No.	Working Volume	No. of Tubes	
Micro Centrifuge Tubes	RD24	1.5 - 2.0 mL	24	
	RD36*	1.5 - 2.0 mL	36	
	RD48	0.5 mL	48	
	RD72	0.5 mL	72	
Microplate	RD2MP	Multi-well Shallow-well	2	

\*included with the DNA130-115 and DNA130-230 SpeedVac Systems

Other accessories			
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		
ANT100	Post-trap assembly used with ANS121 for Oligo Preps		
ANS121	Ammonia-neutralizing solution for Oligo Preps		
CC120/DX	Deluxe convenience cart		
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<sup>\*</sup>Ambient Temperature = 17-32°C



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