



Concentrate

Eppendorf Vacufuge® plus

Eppendorf Vacufuge plus: Easy handling, broad versatility

Eppendorf Vacufuge plus was designed with the customer in mind to deliver an ergonomic, intuitive and durable solution that fits comfortably right on your lab bench. An advanced heating technology provides the best treatment for your sample which assures quick, efficient and gentle vacuum concentration of DNA/RNA, nucleotides, proteins and other liquid or wet samples. Our new coated lid provides superior chemical resistance against aggressive acids and organic solvents (e.g. TFA, DMSO).

Easy handling and broad versatility can be found in every aspect of the Vacufuge plus. A user-friendly control panel allows for simple and intuitive operation.

A wide range of fixed-angle rotors and the microplate rotor are available to enable the Vacufuge plus to accommodate a variety of tubes, plates and applications in the laboratory. To achieve outstanding capacity, a spacer is available to allow the stacking of some fixed-angle rotors—increasing capacity up to 144 samples.

Product features

- > Comes in 3 system configurations: Basic, Complete with pump, and Complete with vacuum port to fit your lab's specific needs
- > Extremely quiet operation <50 dB(A)
- > Chemical-resistant, maintenance-free PTFE diaphragm pump eliminates the need for changing pump oil
- > Small footprint saves valuable bench space
- > Wide variety of 15 different rotor options to accommodate tubes from 0.2 mL to 50 mL, microplates and PCR plates
- > Simple operation due to intuitive control panel
- > Maintenance-free induction drive and chemical-resistant, stainless steel chamber for trouble-free operation
- > Can be connected with most commercially available cold traps for use with hazardous vapors
- > **New:** coated lid with superior chemical resistance

Operational features

- > Choice of 3 operation modes (vacuum concentrator, centrifuge, and desiccator) for a variety of application needs
- > Choice of 4 heating options (ambient, 30 °C, 45 °C, 60 °C) allows safe and efficient concentration of various samples
- > Choice of 3 application modes (aqueous, alcohol or high vapor pressure) to correspond with sample solvent—reduction of processing time up to 20 %
- > Brake function can optionally be turned off for use with delicate samples





1 Optional vacuum port adds extra flexibility. Allows for connecting external devices to the vacuum pump.

2 Whisper quiet operation to benefit your work environment, even with the pump on.

3 Complete system comes with integrated chemical-resistant, PTFE diaphragm pump for maintenance and oil free operation.

4 Stainless steel chamber for high chemical resistance.

5 Outstanding rotor versatility with 15 rotor options, accommodating 0.2 to 50 mL tubes, microplates and PCR plates.

6 Intuitive operation with simple 3-in-1 operation:

- Vacuum concentrator
- Centrifuge
- Desiccator

7 Compact design to fit any lab bench; only 12.4 in / 31.5 cm wide.

8 Condensation trap purifies air up to 85%.

9 **New:** coated lid with superior chemical resistance

Three system configurations— tailored to all your needs

The Vacufuge plus from Eppendorf is available with three configurations to meet your lab's specific needs.



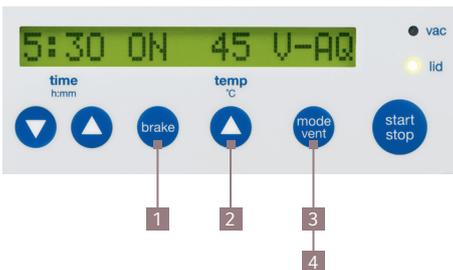
Basic device for connecting to an existing vacuum pump or house vacuum line. Power to external vacuum pumps can be easily connected and automatically controlled by using the AC receptacle in the rear of the concentrator.



Complete System with an integrated solvent-resistant, maintenance and oil free PTFE pump, and condensation trap. Condensation trap purifies exhaust air by up to 85 %, protecting against unpleasant vapors. At the same time, it extends the service life of all components that come into contact with the vapors.



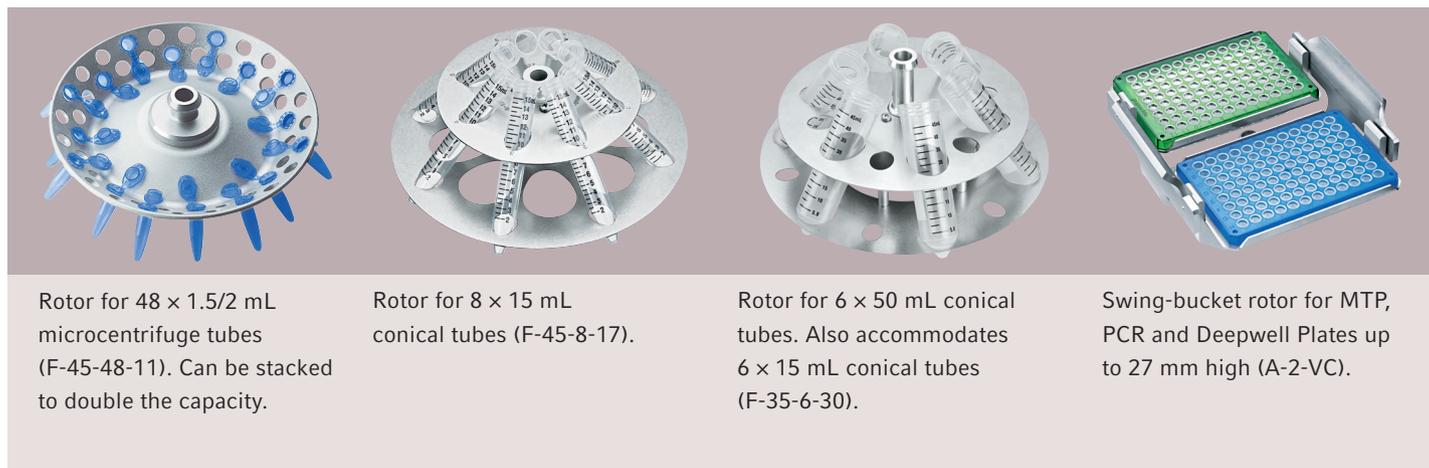
Complete System with vacuum port adds extra capability/flexibility. It allows you to use the integrated vacuum pump separately—without having to disconnect it from the system; simply connect the port to any external device that requires vacuum



- 1 Brake function can optionally be turned off for use with delicate samples
- 2 Choice of 4 heating options (ambient, 30°C, 45°C, 60°C) allows safe and efficient concentration of various samples

- 3 Choice of 3 operation modes (vacuum concentrator, centrifuge, and desiccator) for a variety of application needs
- 4 Choice of three application modes (aqueous, alcohol or high vapor pressure) to correspond with sample solvent—reduction of processing time up to 20 %

Rotor Overview



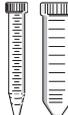
Rotor for 48 × 1.5/2 mL microcentrifuge tubes (F-45-48-11). Can be stacked to double the capacity.

Rotor for 8 × 15 mL conical tubes (F-45-8-17).

Rotor for 6 × 50 mL conical tubes. Also accommodates 6 × 15 mL conical tubes (F-35-6-30).

Swing-bucket rotor for MTP, PCR and Deepwell Plates up to 27 mm high (A-2-VC).

Ordering information

Tube/Plate type	Rotor	Max. tube dimensions in mm (Ø × L)	Max. tube capacity in mL	Catalog No.
	F-45-72-8* ²	8 × 31	72 × 0.5 mL	022822080* ²
	F-45-70-11	11 × 41 / 47	70 × 1.5 mL / 2.0 mL	022822047
	F-45-48-11* ²	11 × 41 / 47	48 × 1.5 mL / 2.0 mL	022822004* ²
	F-40-36-12	12 × 32	36 × 1.5 mL	022822209
	F-45-36-15	15 × 45–48* ¹	36 × 2–4 mL	022822128
	F-45-16-20	20 × 42–55* ¹	16 × 6.5/10 mL	022822136
	F-40-18-19	19 × 66	18 × 10 mL	022822161
	F-45-12-31	31 × 55	12 × 20 mL	022822217
	F-35-8-24	24 × 86–105* ¹	8 × 25 mL	022822187
	F-45-24-12	12 × 67–100* ^{1,3}	24 × 5–7 mL	022822144
	F-50-8-16	16 × 105–120* ¹	8 × 8–12 mL	022822233
	F-50-8-18	18 × 105–128* ¹	8 × 10–18 mL	022822179
	F-45-8-17	17 × 116–123* ¹	8 × 15 mL conical tubes	022822225
	F-36-6-30	17 × 116–123* ¹ or 30 × 116–123	6 × 15 mL conical tubes or 6 × 50 mL conical tubes	022822228
	A-2-VC	128 × 86 × 27	2 × MTP or skirted PCR plates 2 × Deepwell plates (DWP) (max. height = 27 mm)	022822241

Accessories

	Catalog No.
Rotor spacer, required for stacking rotors F-45-72-8 and F-45-48-11	022822101
CombiSlide® adapter, for use of glass slide, (set of 2) for use with A-2-VC rotor	022638963
Adapter: for 0.5 mL or 0.6 mL Microtainer® tubes, set of 6, for rotor F-45-48-11	022636227
for 0.2 mL PCR tubes, set of 6, for rotor F-45-48-11	022636260
for 0.2 mL PCR tubes, set of 6, for rotor F-45-72-8	022636286
Work tray, for use with semi-/unskirted PCR plates, PCR strips and 0.2 mL PCR tubes, (set of 10) for use with A-2-VC rotor	951010031
Frame for work tray, set of 5 (A-2-VC rotor)	951010049

*¹ Min./max. tube length.

*² Rotor is stackable for double capacity using spacer 022822101.

*³ Tube length = 75 mm: max capacity 24 tubes, Tube length > 75 mm: max capacity 12 tubes.

Eppendorf Vacufuge plus

Technical specifications



	Basic device	Complete system	Complete system w/port
Max. capacity	144 × 0.5 mL tubes, 96 × 1.5/2 mL, 6 × 50 mL conical tubes, 2 × microplate/PCR plates		
Fixed rotation speed	1,400 rpm (max. RCF 250 × g)		
Timer	1 min to 9:59 h with continuous mode		
Noise level	< 50 dB(A)		
Temperature control	ambient, 30 °C, 45 °C, 60 °C		
Vacuum pressure	–	20 hPa (20 mbar)	20 hPa (20 mbar)
Port to connect external devices to vacuum pump	–	–	yes
Power supply	120 V, 50/60 Hz	120 V, 50/60 Hz	120 V, 50/60 Hz
Power Requirement	Max. 550 W	Max. 400 W	Max. 400 W
Dimensions (W × D × H)	12.4 × 14.5 × 9 in / 31.5 × 37 × 23 cm	12.4 × 22.8 × 11.4 in / 31.5 × 58 × 29 cm	12.4 × 22.8 × 11.4 in / 31.5 × 58 × 29 cm
Weight without rotor	37.4 lb / 16.5 kg	68.2 lb / 31.5 kg	68.2 lb / 31.5 kg

Ordering information

Description	Catalog No.
Vacufuge plus complete system	
with built-in diaphragm pump and 48 × 1.5/2.0 mL fixed-angle rotor	022820109
with built-in diaphragm pump, with port for external devices (e.g. gel-dryer), without rotor	022820168
with built-in diaphragm pump, without rotor	022822993
Vacufuge plus basic device	
with 48 × 1.5/2.0 mL fixed-angle rotor	022820001

* See picture of the optional vacuum port on page 3.

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