



# Sample concentration made easy

Vacufuge® plus for vacuum concentration

**eppendorf**

# Eppendorf Vacufuge plus: Easy handling, broad versatility

## Vacufuge plus

Eppendorf Vacufuge plus vacuum concentrator was designed with you 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. Due to an optimized evaporation process, the Vacufuge plus allows the drying of multiple samples without cross-contamination.

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. You can easily choose between 4 different heating levels, to customize your sample concentration, evaporation, or drying needs. With a variety of 3 application modes, (aqueous, alcohol, or high vapor pressure) sample processing time can be reduced by 20%. 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 labs specific needs
- Extremely quiet operation <50 dB(A), even with pump turned on, to benefit your work environment
- Chemical-resistant, maintenance-free PTFE diaphragm pump eliminates the need for changing pump oil
- Small footprint saves valuable bench space (narrow 12.6 in/32 cm width)
- 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
- Transparent lid to easily observe samples
- Motorless induction drive and chemical-resistant, stainless steel chamber for trouble-free operation
- Can be connected with most commercially available cold traps for use with vapors
- 2-year parts and labor warranty

### Operational features

- Choice of 3 operation modes (vacufuge, centrifuge, and desiccator) for a variety of application needs
- Choice of 4 heating levels (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



## Rotor overview



### Rotor for 48 x 1.5/2 mL microcentrifuge tubes.

Can be stacked using rotor spacer 022822101 to double the capacity to 96 x 1.5/2 mL tubes. (F-45-70-11; Cat. No. 022822047)



### Rotor for 8 x 15 mL conical tubes.

(F-45-8-17; Cat. No. 022822225)



### Rotor for 6 x 50 mL conical tubes.




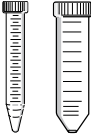
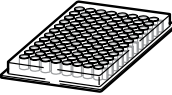
Also accommodates 6 x 15 mL conical tubes. (F-35-6-30; Cat. No. 022822228)



### Swing-bucket rotor for MTP, PCR and Deepwell Plates up to 27 mm high.

(A-2-VC; Cat. No. 022822241)

## Ordering information

Tube/Plate type	Rotor	Max. tube dimensions in mm (Ø x L)	Max. tube capacity in mL	Catalog No.
	F-45-72-8 <sup>2</sup>	8 x 31	72 x 0.5 mL	022822080 <sup>2</sup>
	F-45-70-11	11 x 41 11 x 47	70 x 1.5 mL 70 x 2.0 mL	022822047
	F-45-48-11 <sup>2</sup>	11 x 41 11 x 47	48 x 1.5 mL 48 x 2.0 mL	022822004 <sup>2</sup>
	F-40-36-12	12 x 32	36 x 1.5 mL	022822209
	F-45-36-15	15 x 45-48 <sup>1</sup>	36 x 2-4 mL	022822128
	F-45-16-20	20 x 42-55 <sup>1</sup>	16 x 6.5/10 mL	022822136
	F-40-18-19	19 x 66	18 x 10 mL	022822161
	F-45-12-31	31 x 55	12 x 20 mL	022822217
	F-35-8-24	24 x 86-105 <sup>1</sup>	8 x 25 mL	022822187
	F-45-24-12	12 x 67-100 <sup>1,3</sup>	24 x 5-7 mL	022822144
	F-50-8-16	16 x 105-120 <sup>1</sup>	8 x 8-12 mL	022822233
	F-50-8-18	18 x 105-128 <sup>1</sup>	8 x 10-18 mL	022822179
	F-45-8-17	17 x 116-123 <sup>1</sup>	8 x 15 mL conical tubes	022822225
	F-36-6-30	17 x 116-123 <sup>1</sup> or 30 x 116-123	6 x 15 mL conical tubes or 6 x 50 mL conical tubes	022822228
	A-2-VC	128 x 86 x 27	2 x MTP or skirted PCR plates 2 x Deepwell plates (DWP) (max. height = 27 mm)	022822241
		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
		CombiSlide® adapter, for use of glass slide, (set of 2) for use with A-2-VC rotor		022638963

<sup>1</sup> Min./max. tube length.

<sup>2</sup> Rotor is stackable for double capacity using spacer 022822101.

<sup>3</sup> Tube length = 75 mm: max capacity 24 tubes  
Tube length > 75 mm: max capacity 12 tubes

# Eppendorf Vacufuge plus



# Three system configurations— to meet all your needs

## Vacufuge plus

The Vacufuge plus from Eppendorf is available with three configurations, to meet your labs specific needs.

1 Basic concentrator 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.

2 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.

3 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 (e.g. gel dryer).



● Brake function can optionally be turned off for use with delicate samples

● Choice of 4 heating levels (ambient, 30 °C, 45 °C, 60 °C) allows safe and efficient concentration of various samples




● Choice of 3 operation modes (vacufuge, centrifuge, and desiccator) for a variety of application needs

● Choice of three application modes (aqueous, alcohol or high vapor pressure) to correspond with sample solvent—reduction of processing time up to 20%



# Eppendorf Vacufuge plus

## Technical specifications

			
	Basic device	Complete system	Complete system w/port
<b>Max Capacity</b>	144 x 0.5 mL tubes 96 x 1.5/2 mL 6 x 50 mL conical tubes 2 x microplate/PCR plates		
<b>Fixed rotation speed</b>	1,400 rpm (max. RCF 250 x g)		
<b>Timer</b>	1 min to 9:59 h with continuous mode		
<b>Noise level</b>	< 50 dB(A)		
<b>Temperature control</b>	ambient, 30 °C, 45 °C, 60 °C		
<b>Vacuum Pressure</b>	–	20 hPa (20 mbar)	20 hPa (20 mbar)
<b>Port to connect external devices to vacuum pump</b>	–	–	yes
<b>Power supply</b>	120 V, 50/60 Hz	120 V, 50/60 Hz	120 V, 50/60 Hz
<b>Power Requirement</b>	Max. 150 W	Max. 350 W	Max. 350 W
<b>Dimensions (W x D x H)</b>	12.6 x 14.5 x 9 in/ 33 x 37 x 23 cm	12.6 x 21 x 11.7 in/ 33 x 58 x 29 cm	12.6 x 21 x 11.7 in/ 33 x 58 x 29 cm
<b>Weight without rotor</b>	37.4 lb/16.5 kg	68.2 lb/31.5 kg	68.2 lb/31.5 kg

## Ordering information

Description	Catalog No.
<b>Vacufuge plus complete system</b>	
with built-in diaphragm pump and 48 x 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
Extended warranty	901510672
<b>Vacufuge plus basic device</b>	
with 48 x 1.5/2.0 ml fixed-angle rotor	022820001
Extended warranty	901510648
<b>Accessories</b>	
<b>External Power Control Cable</b> , to attach an external vacuum pump (<400 Watts) directly to the Basic concentrator. Allows Vacufuge plus to automatically control the power (power on/off) of the external pump as needed for vacuum.	022830110
<b>External Vacuum Control Cable with Solenoid Valve</b> , used to connect an external vacuum source (e.g., house vacuum or vacuum pumps >400 Watts) to the Basic device. Powered solenoid attaches in-line with the vacuum source allowing Vacufuge plus to automatically control the incoming vacuum (valve open/closed), 120 V	022830112
<b>Rotor spacer</b> , required for stacking 1.5/2 ml and 0.5 ml rotors F-45-72-8 and F-45-48-11	022822101

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