

eppendorf



# Concentrate

Eppendorf Concentrator plus™

# Eppendorf Concentrator plus™: Easy handling, broad versatility

Eppendorf Concentrator 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 Concentrator 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 Concentrator 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)
- > 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 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 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





**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 32 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

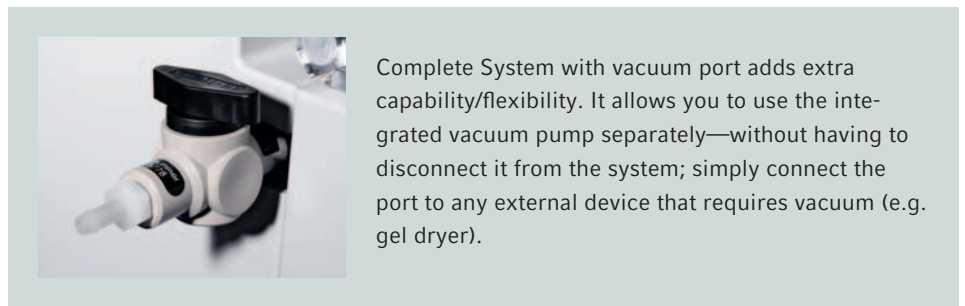
The Concentrator plus from Eppendorf is available with three configurations to meet your lab's specific needs.



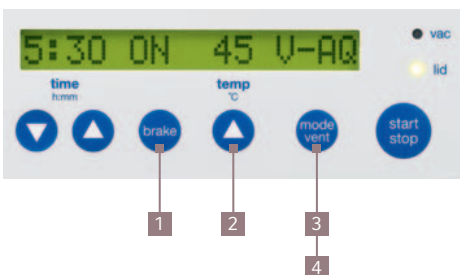
Basic concentrator for connecting to an existing vacuum pump or house vacuum line. Power to external vacuum pumps can be easily connected and automatically controlled by using the AC receptacle in the rear of the concentrator.



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.

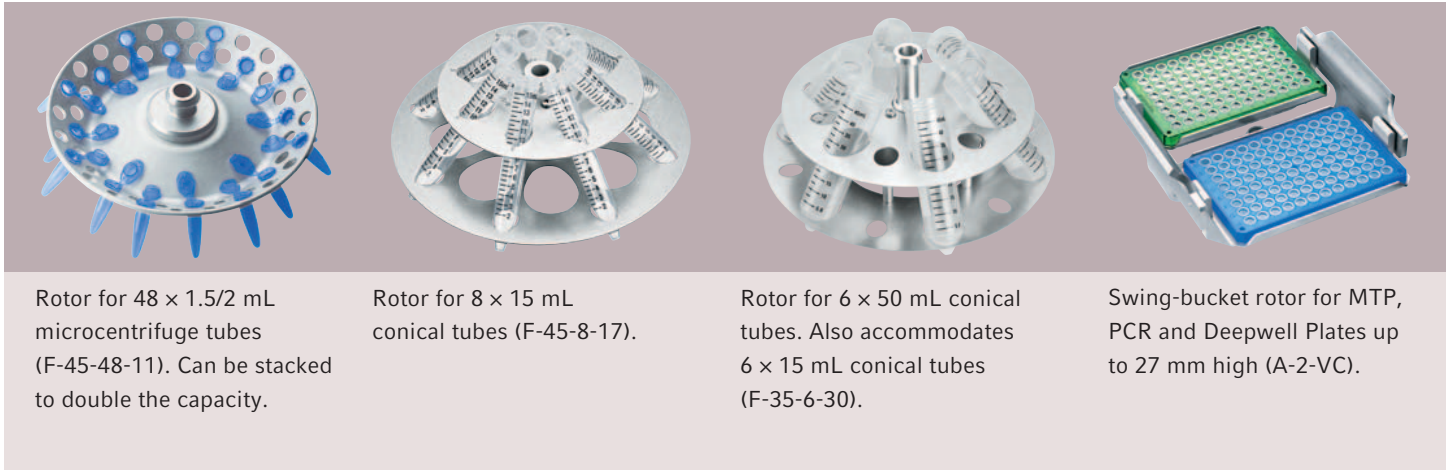


Complete System with vacuum port adds extra capability/flexibility. It allows you to use the integrated vacuum pump separately—without having to disconnect it from the system; simply connect the port to any external device that requires vacuum (e.g. gel dryer).



- 1 Brake function can optionally be turned off for use with delicate samples
- 2 Choice of 4 heating levels (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






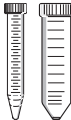
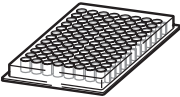
Rotor for 48 × 1.5/2 mL microcentrifuge tubes (F-45-48-11). Can be stacked to double the capacity.

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	Order no.
	F-45-72-8* <sup>2</sup>	8 × 31	72 × 0.5 mL	5490 034.007* <sup>2</sup>
	F-45-70-11	11 × 41 / 47	70 × 1.5 mL / 2.0 mL	5490 032.004
	F-45-48-11* <sup>2</sup>	11 × 41 / 47	48 × 1.5 mL / 2.0 mL	5490 030.001* <sup>2</sup>
	F-40-36-12	12 × 32	36 × 1.5 mL	5490 040.007
	F-45-36-15	15 × 45–48* <sup>1</sup>	36 × 2–4 mL	5490 035.003
	F-45-16-20	20 × 42–55* <sup>1</sup>	16 × 6.5/10 mL	5490 043.006
	F-40-18-19	19 × 66	18 × 10 mL	5490 037.006
	F-45-12-31	31 × 55	12 × 20 mL	5490 044.002
	F-35-8-24	24 × 86–105* <sup>1</sup>	8 × 25 mL	5490 039.009
	F-45-24-12	12 × 67–100* <sup>1,3</sup>	24 × 5–7 mL	5490 036.000
	F-50-8-16	16 × 105–120* <sup>1</sup>	8 × 8–12 mL	5490 041.003
	F-50-8-18	18 × 105–128* <sup>1</sup>	8 × 10–18 mL	5490 042.000
	F-45-8-17	17 × 116–123* <sup>1</sup>	8 × 15 mL conical tubes	5490 038.002
	F-36-6-30	17 × 116–123* <sup>1</sup> or 30 × 116–123	6 × 15 mL conical tubes or 6 × 50 mL conical tubes	5490 047.001
	A-2-VC	128 × 86 × 27	2 × MTP or skirted PCR plates 2 × Deepwell plates (DWP) (max. height = 27 mm)	5490 045.009
<b>Accessories</b>				<b>Order no.</b>
Rotor spacer, required for stacking rotors F-45-72-8 and F-45-48-11				5301 316.005
CombiSlide® adapter, for use of glass slide, (set of 2) for use with A-2-VC rotor				5825 706.005
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				0030 124.235
Frame for work tray, set of 5 (A-2-VC rotor)				0030 124.243
<b>Adapter:</b> for 0.5 mL or 0.6 mL Microtainer® tubes, set of 6, for rotor F-45-48-11				5425 716.001
for 0.2 mL PCR tubes, set of 6, for rotor F-45-48-11				5425 715.005
for 0.2 mL PCR tubes, set of 6, for rotor F-45-72-8				5425 723.008

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

\*<sup>2</sup> Rotor is stackable for double capacity using spacer 5301 316.005.

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

# Eppendorf Concentrator plus™

## Technical specifications



	Basic device	Complete system	Complete system w/port
<b>Max. capacity</b>	144 × 0.5 mL tubes, 96 × 1.5/2 mL, 6 × 50 mL conical tubes, 2 × microplate/PCR plates		
<b>Fixed rotation speed</b>	1,400 rpm (max. RCF 250 × 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>	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz
<b>Power Requirement</b>	Max. 150 W	Max. 350 W	Max. 350 W
<b>Dimensions (W × D × H)</b>	33 × 37 × 23 cm	33 × 58 × 29 cm	33 × 58 × 29 cm
<b>Weight without rotor</b>	16.5 kg	31.5 kg	31.5 kg

## Ordering information

Description	Order no.
<b>Concentrator plus™ complete system</b>	
with built-in diaphragm pump and 48 × 1.5/2.0 mL fixed-angle rotor	5305 000.304
with built-in diaphragm pump, with port for external devices (e.g. gel-dryer), without rotor	5305 000.703
with built-in diaphragm pump, without rotor	5305 000.509
<b>Concentrator plus™ basic device</b>	
with 48 × 1.5/2.0 mL fixed-angle rotor	5305 000.100

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

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