

Concentrator plus: Basic device or complete system

Introduction to Concentrator plus

The new Concentrator plus from Eppendorf is available in two configurations:

- 1 Complete system with an integrated service-free diaphragm pump
- 2 Basic concentrator for connecting to an existing vacuum. The concentrator can easily be upgraded to a complete system at a later stage if desired. Power to external vacuum pumps can be automatically controlled by using the AC receptacle in the rear of the concentrator.

The Concentrator's heating technology optimizes the evaporation process. No matter which configuration you choose, you're assured of quick and efficient—yet gentle—vacuum concentration of your samples (e.g. DNA/RNA, proteins).

The complete system includes a vapour condenser that purifies the exhaust air by up to 85%. This serves as protection against unpleasant vapours. At the same time, an automatic condensate drain extends the service life of all components that come into contact with the vapours.



Great features, easy handling

Product characteristics

The new Concentrator plus features a new LCD display and user-friendly control panel with clearly labeled function keys.

Product features

- Narrow 32 cm width saves valuable bench space
- Chemical-resistant PTFE diaphragm pump
- Chemical-resistant stainless steel chamber
- Extremely quiet operation, even with pump turned on
- Choice of three application modes (aqueous, alcohol or high vapour pressure) to correspond with sample solvent → reduction of processing time up to 20%
- Choice of four heating levels (room temperature, 30 °C, 45 °C, 60 °C) allows safe and efficient concentration of various samples
- Centrifugation and Desiccator function

Simple operation

- Timer selection between 1 min and 9:59 h as well as ∞
- Brake function
- Temperature preselection: room temperature, 30 °C, 45 °C and 60 °C
- Mode/ vent function: Choose between three solvent modes
- Start/ Stop of concentration process

Concentrator junction system

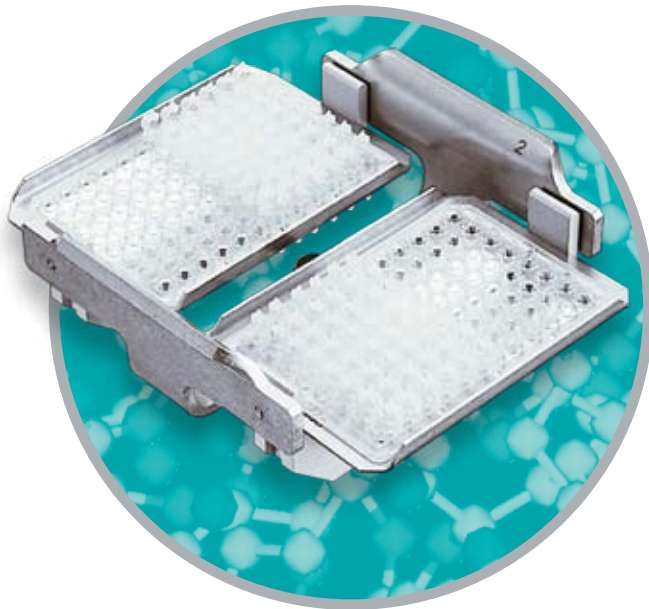
The complete “junction” system adds extra capability/flexibility. It allows you to use the integrated vacuum pump separately – without having to disconnect it from the system; simply connect the port to any external device that requires vacuum (e.g. gel dryer).



Errors and omissions excepted. Technical specifications subject to change.

Rotors for Concentrator plus

Overview of rotor program



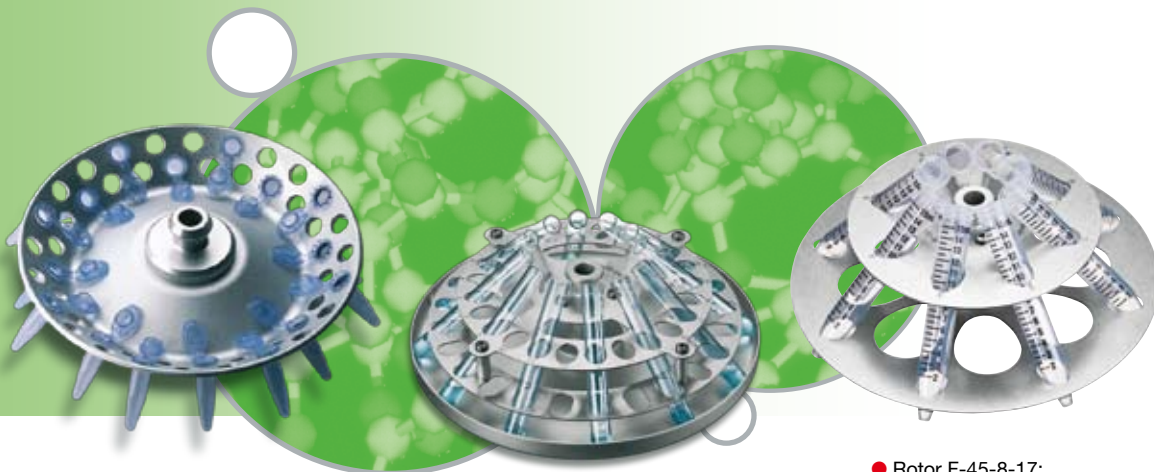
A wide range of fixed-angle rotors and the microplate rotor A-2-VC enable the Concentrator plus to be used for various applications in the laboratory.

Swing-bucket rotor A-2-VC

- For use with MTPs, PCR plates and up to 2 x 96 0.2 ml PCR tubes and tube strips
- Load MTPs and PCR plates directly
- To spin down individual PCR tubes or tube strips, PCR plates and MTPs without frame, use the Work tray and Frame
- Rotor is autoclavable at 121 °C, 20 min
- Two MTPs can be accommodated for low-speed centrifugation
- Holds CombiSlide® adapter

Fixed-angle rotors

A large number of fixed-angle rotors for use of various tube sizes and dimensions are available for the Concentrator plus. A spacer enables stacking of some fixed-angle rotors, increasing the capacity to 96 or 144 samples.



● Rotor F-45-48-11:
48 x 1.5/2.0 ml Eppendorf Tubes®

● Rotor F-45-24-12:
24 x 6 ml tubes





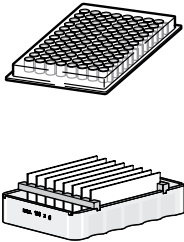
● Rotor F-45-8-17:
8 x 15 ml Falcon® tubes

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Falcon® is a registered trademark of Becton Dickinson.

Eppendorf Concentrator plus

Rotor overview

Ordering information

Rotor	Tube/Plate	Max. tube capacity	Tube dimensions in mm ($\varnothing \times L$ or $L \times W \times H$)	Order no.
F-45-72-8		72 x 0.5 ml	8 x 31	5490 034.007*2
F-45-70-11		70 x 1.5 ml 70 x 2.0 ml	11 x 41 11 x 47	5490 032.004
F-45-48-11		48 x 1.5 ml 48 x 2.0 ml	11 x 41 11 x 47	5490 030.001*2
F-45-24-12		24 x 6.0 / 8.0 ml	12 x 67–100*1	5490 036.000
F-50-8-16		8 x 15 / 20 ml	16 x 105–120	5490 041.003
F-50-8-18		8 x 15 / 20 ml	18 x 105–128*1	5490 042.000
F-45-8-17		8 x 15 ml Falcon® tubes	17 x 118–123*1	5490 038.002
F-40-36-12		36 x 1.5 ml	12 x 32	5490 040.007
F-45-36-15		36 x 3.0 / 5.0 ml	15 x 45–48*1	5490 035.003
F-45-16-20		16 x 6.5 / 10 ml	20 x 42–55*1	5490 043.006
F-40-18-19		18 x 10 ml	19 x 66	5490 037.006
F-45-12-31		12 x 20 ml	31 x 55	5490 044.002
F-35-8-24		8 x 25 ml	24 x 86–105*1	5490 039.009
A-2-VC			Two buckets for • 0.2 ml PCR tubes • 5-tube or 8-tube strips • PCR plates • Microplates • Cell culture plates • Deepwell plates (max. height = 27 mm) • Slides (with CombiSlide® adapter)	128 x 86 x 27 26 x 75

*1 Min./max. tube length and max. volume, respectively.
*2 Rotor is stackable for double sample capacity.

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Eppendorf Concentrator plus

Technical specifications	complete system	basic device
Max. power consumption	350 W	150 W
Dimensions (W × D × H)	32 × 53 × 30 cm	32 × 37 × 23 cm
Weight	31 kg	17 kg
Vacuum	20 hPa (20 mbar)	20 hPa (20 mbar)
Fixed rotation speed	1,400 rpm	1,400 rpm
Tube sizes	0.2–25 ml	0.2–25 ml
Capacity	max. 144 tubes 2 microplates	max. 144 tubes 2 microplates

Technical specifications subject to change!

Ordering information

Description	Order no.
Concentrator plus complete system	
with built-in diaphragm pump and 48 × 1.5/2.0 ml fixed-angle rotor	5305 000.215
with built-in diaphragm pump, with junction for external devices (e.g. gel-dryer), without rotor	5305 000.614
with built-in diaphragm pump, without rotor	5305 000.410
Concentrator plus basic device	
with 48 × 1.5/2.0 ml fixed-angle rotor	5305 000.010
Accessories	
Upgrade option for converting basic concentrator to a complete system (needs to be installed by Eppendorf service personnel), incl. diaphragm pump with inner PTFE coating, vapour condenser and two rails for connecting concentrator and pump	5399 000.167
Rotor spacer , required for stacking rotors F-45-72-8 and F-45-48-11	5301 316.005
Adapter for CombiSlide® (set of 2)	5825 706.005
Adapter 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
Work trays for 96 × 0.2 ml PCR tubes (set of 10) and plates without frame	0030 124.235
Frame for work tray (set of 5)	0030 124.243

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