

# ROTINA 420/420 R

Developed for large volumes, yet not overly large in size. High performance when it counts, yet cost-effective and fair to your budget. The ROTINA 420 centrifuges offer these benefits and more.

The new, compact benchtop centrifuges are conceived for high sample throughput as well as for high sample volumes. With a maximum capacity of 4 x 600 ml, 140 blood collection tubes or 16 microtitre plates they are ideal for applications in clinical chemistry, in biotechnology and in life science research facilities.



ROTINA 420 classic

**Cat. No. 4701**

## PERFORMANCE

- High capacity
  - max. 4 x 600 ml
- High RCF
  - up to 16,504 for 94 ml tubes
  - up to 12,007 for 250 ml bottles
  - up to 24,400 for reaction tubes



## DESIGN

- Metal housing
- Stainless steel centrifuging chamber
- Viewing port in the lid

## USER-FRIENDLINESS

- Automatic lid locking
- Ergonomic control and information panel
- Easy rotor changing
- 99 program storage spaces

## COOLING (ROTINA 420 R)

- Infinitely variable adjustment from -20 °C to +40 °C (or -4 °F to +104 °F)
- Stand-by cooling

## SAFETY

- Lid locking and holding
- Emergency lid lock release
- Lid dropping protection
- Automatic rotor recognition
- Imbalance switch-off
- Motor overheating protection
- Chamber overheating protection (ROTINA 420 R)

## OPTIONS

The following are available as options, the ROTINA 420 R

- with connection for nitrogen flushing  
Cat. No. **4706-20**  
for centrifugation of reactive substances or substances which are unstable in aerial oxygen. As required, a monitoring control system should be available to measure oxygen concentration.
- as heating/cooling version up to +90 °C (or +194 °F)  
Cat. No. **4706-50**  
for applications calling for temperatures over +40 °C.

## OPERATION AND CONTROL

The advanced C control panel significantly facilitates the daily laboratory routine.

Parameter selection is done via the use of symbol keys. Values are set with the control knob, and recorded by pressing the Start key.


9 braking and acceleration ramps, unbraked run-down, or a cut-off speed can be selected. Ramp 9 represents the shortest braking and acceleration time.

98 program memory positions are available. Additional program position "PREC" (PRECOOLING) is reserved for the pre-cooling program.


The temperature in the ROTINA 420 R refrigerated centrifuge can be set in either Celsius (°C) or Fahrenheit (°F) degrees.

## DIGITAL DISPLAY AND CONTROL PANEL

### KEYBOARD

START	Start centrifugation run / short centrifuging runs / save entries and changes
	Start pre-cooling program <b>PREC</b>
STOP OPEN	Manually end centrifugation run / Open lid

### PARAMETER INPUT

PROG	Input / recall program number 98 programs can be stored
T/°C	Input temperature in increments of 1 from - 20 °C to + 40 °C or - 4 °F to + 104 °F (ROTINA 420 R)
	Input of acceleration levels 1 – 9 Input of braking levels 1 – 9 Input brake force cut-off
RCF	Input relative centrifugal force (RCF) in increments of 1 Enter centrifuging radius (RAD) in mm
RPM	Input speed in increments of 10
TIME	Input length of centrifugation (max. 99 h : 59 min : 59 sec) or continuous operation



ROTINA 420 R cooled  
Cat. No. 4706



ROTINA 420 R keypad (C control panel)

# ROTORS AND ACCESSORIES

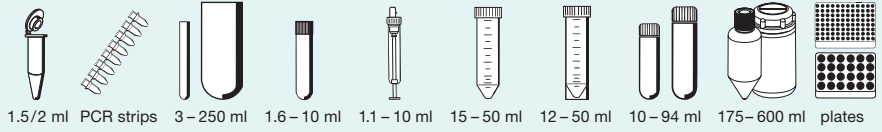
Some accessories with bio-containment<sup>4)</sup>



## Swing-out rotor 4-place

↘ 90°  
n = 4,500 min<sup>-1</sup>  
max. RCF 4,166

**Cat. No. 4723**



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**P.5-6**

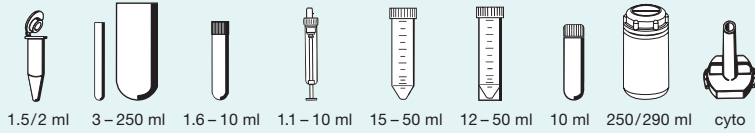
Some accessories with bio-containment<sup>4)</sup>



## Swing-out rotor 4-place

↘ 90°  
n = 4,000 min<sup>-1</sup>  
max. RCF 3,095

**Cat. No. 4753**



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**P.7-9**

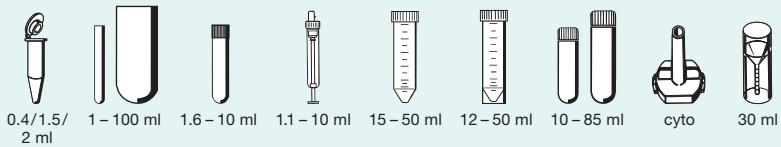
Some accessories with bio-containment<sup>4)</sup>



## Swing-out rotor 4-place

↘ 90°  
n = 4,600 min<sup>-1</sup>  
max. RCF 3,832

**Cat. No. 4754**



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**P.9-12**

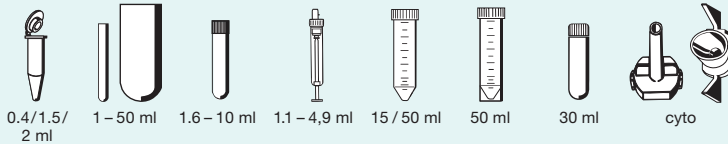
Some accessories with bio-containment<sup>4)</sup>



## Swing-out rotor 8-place

↘ 90°  
n = 3,800 min<sup>-1</sup>  
max. RCF 2,906

**Cat. No. 4758**



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**P.13**

auto-clavable with bio-containment<sup>4)</sup>



## Angle rotor 30-place

↘ 45°  
n = 15,000 min<sup>-1</sup>  
max. RCF 24,400

**Cat. No. 4790-A**



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**P.14**

auto-clavable with bio-containment<sup>4)</sup>



## Angle rotor 6-place

↘ 45°  
n = 14,000 min<sup>-1</sup>  
max. RCF 18,845

**Cat. No. 4760**



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**P.14**

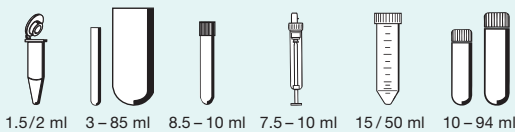
auto-clavable with bio-containment<sup>4)</sup>



## Angle rotor 6-place

↘ 45°  
n = 11,000 min<sup>-1</sup>  
max. RCF 16,504

**Cat. No. 4794**



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**P.15**

Additional tubes e.g. stool tubes or spin columns on request.