

**ANOTHER  
DIMENSION**



**ROTINA 420/420R**  
**Benchtop Centrifuges**  
**classic/cooled**

**Hettich**  
ZENTRIFUGEN

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 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 rinsing  
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 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.


The temperature range is between - 20 °C and + 40 °C or, between - 4 °F and + 104 °F, in the heating/cooling versions, between - 20 °C and + 90 °C or, between - 4 °F and + 194 °F.

## DIGITAL DISPLAY AND CONTROL PANEL

### KEYBOARD

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

### PARAMETER INPUT

<b>PROG</b>	Input / recall program number 98 programs can be stored
<b>T/°C</b>	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
<b>RCF</b>	Input relative centrifuging acceleration (RCF) in increments of 1 Enter centrifuging radius (RAD) in mm
<b>RPM</b>	Input speed in increments of 10
<b>TIME</b>	Input length of centrifugation (max. 99 h : 59 min : 59 s) or continuous operation






ROTINA 420 R control panel



ROTINA 420 R cooled

**Cat. No. 4706**

# ROTINA 420/420 R

TECHNOLOGY	ROTINA 420	ROTINA 420 R
<b>Benchtop centrifuge, without rotor</b>	<b>classic</b>	<b>cooled</b>
Power supply <sup>*)</sup>	200 – 240 V 1 ~	
Frequency	50 – 60 Hz	50 Hz
Consumption	750 VA	1,500 VA
Emission	EN 55011 group 1, class B, EN 61000-3-3	
Immunity	EN 61000-6-1	
 Max. capacity	4 x 600 ml	
 Max. RPM (speed)	15,000 min <sup>-1</sup>	
 Max. RCF	24,400	
Running time	1 s – 999 min, ∞ continuous run, short cycle mode	
Dimensions (HxWxD)	423x 506x 650 mm	423x 713x 654 mm
Weight	approx. 74 kg	approx. 106.5 kg
<b>Refrigeration</b>		
Temperature control, infinitely variable	-	from -20 to +40 °C
<b>Cat. No.</b>	<b>4701</b>	<b>4706</b>

<sup>\*)</sup> Other voltages on request.



Hettich centrifuges comply with all relevant EU standards in effect and conform to the European level of quality and safety for medical devices. Evidence is provided by national and international test marks such as IEC 61010 or the CE conformity. The ISO 9001:2000 and ISO 13485:2003 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.

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