



**Benchtop  
Centrifuges,  
non-refrigerated  
and refrigerated**

# ROTINA 38

The high-performance benchtop centrifuges ROTINA 38 and ROTINA 38 R impress by state-of-the-art technology, large capacity, extremely easy handling and exceptionally smooth and quiet running.

Accommodating a multitude of tubes used in today's laboratory routine the ROTINA 38 type of centrifuges enable a wide range of applications.

Developed for high efficiency ROTINA 38/38 R are mainly employed in diagnostics, cell culture, genetics research and microbiology.

## Top quality is Hettich standard

### Performance

#### Large capacity

e.g. 4 x 250 ml, 48 x 15 ml, 10 x 50 ml (Falcon® tubes).

#### Extremely short run-up and run-down times.

#### High RCF

up to 16,504 with standard tubes, 24,400 with microlitre tubes.

#### Efficient cooling

controllable from -20 °C to +40 °C (ROTINA 38 R).

On option, the ROTINA 38 R is also available

- with connexion to an external refrigerated/heating circulator (to be provided by the customer) – Cat. No. **1707-50** (without internal cooling unit). Dependent on the performance of the circulator, the centrifuge can heat or cool within a range of 0 °C + 90 °C.
- with connexion for flushing with nitrogen – Cat. No. **1707-20** (without monitoring and controlling system)

**3 complete running programmes can be stored and recalled.**

### Technology

Smooth and quiet running  
Extraordinary speed stability  
Brushless maintenance-free induction drive

### Design

Ergonomically arranged controls and displays  
Viewing port in the lid  
A special lid locking device enables effortless closing and opening of the lid with one hand.

### Safety

**Housing and lid of metal for stability**

**Housing finished in scratch and impact resistant powder coating**

**Centrifuging chamber and inner lid cover of stainless steel**

**Additionally steel-armoured centrifuging chamber**

**Easily exchangeable rotors**

**Automatic rotor recognition**

**Imbalance switch - off**

**Lid locking and holding during rotor run**

**Lid dropping protection**

**Emergency lid lock release**



Hettich manufactures high quality centrifuges.

All stages from design to end product are continuously subjected to the strictest controls.

Evidence of conformity with national and international regulations such as IEC 61010 is provided by corresponding certificates.

Of course, Hettich centrifuges are CE marked.

The ISO 9001:2000 certificate accredited to the entire company bears witness to the extreme care and responsibility Hettich puts into the manufacture of centrifuges and their accessories.

This is why Hettich centrifuges are known for safety and reliability all over the world.



**ROTINA 38 R**

benchtop centrifuge, refrigerated  
dimensions (H x W x D): 379 x 468 x 721 mm

Cat.-No. **1707**



**ROTINA 38**

benchtop centrifuge  
dimensions (H x W x D):  
379 x 468 x 563 mm

Cat.-No. **1703**

The fully developed up-to-date N control panel meets the requirements of the users and is extremely easy to operate.

Entry of the parameters is fast, precise and convenient with selector keys on the water-protected foil keypad.

The large display is well readable. During centrifugation the actual values of the parameters are indicated.

The parameters remain in the memory even after the centrifuge has been switched off.

**Speed RPM:** Input in increments of 10.

**Relative centrifugal force RCF:** Input in increments of 10.

**Change-over RPM/RCF:** By entering the rotor radius r/mm the centrifuge calculates and indicates speed or RCF.

**Running time t:** Input in minutes and seconds, max. 99 min., 59 sec.

**Run-up/ run-down times:** Input of acceleration and braking ramps in levels 1 – 9 or unbraked run-down.

**Temperature T:** With the refrigerated model input in increments of 1 °C within a range of -20 °C to +40 °C.

**Memory:** 3 complete running programmes can be stored and recalled.

**Impulse key:** For short centrifuging operations. The rotor spins at the preselected speed or RCF as long as the key remains pressed.



# Technical Details



## ROTINA 38

Benchtop centrifuge, without rotor

Cat.-No.1703    Cat.-No. 1703-01

## ROTINA 38 R

Benchtop centrifuge, refrigerated, without rotor

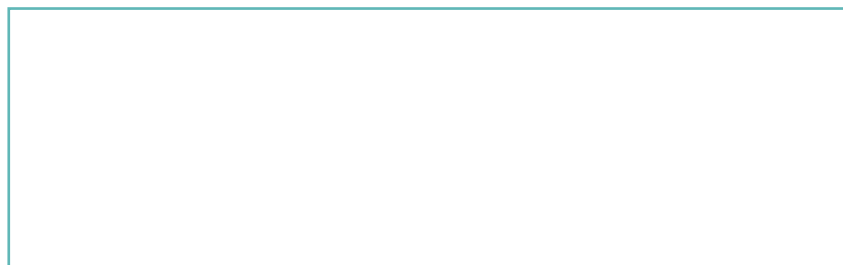
Cat.-No.1707    Cat.-No.1707-01

* Power supply:	208 - 240 V 1~	110-127 V 1~	208 - 240 V 1~/220 - 240 V 1~	110-127 V 1~
Frequency:	50-60 Hz	50-60 Hz	50 Hz / 60 Hz	60 Hz
Consumption:	700 VA	850 VA	1300 VA	1600 VA
Radio interference:	EN 55011 group 1, class B EN 61000-3-2, EN 61000-3-3	FCC class B	EN 55011 group 1, class B EN 61000-3-2, EN 61000-3-3	FCC class B
Immunity:	EN 61000-6-2	-	EN 61000-6-2	-
Capacity:	4 x 250 ml			
Speed/RCF:	n= 15,000 min <sup>-1</sup> / RCF 24,400			
Centrifuging chamber temperature:	controllable from -20 °C to +40 °C			
Running time:	1-99 min, ∞ (continuous run), impulse key (short cycle mode)			
Dimensions (H x W x D):	379 x 468 x 563 mm		379 x 468 x 721 mm	
Weight:	approx. 47 kg		approx. 73 kg	

\* other voltages on request

## Design

Housing and lid of metal for safety. Panelling finished in a scratch and impact resistant coating. Centrifuging chamber and inner lid of stainless steel. Lid locking, lid holding, and imbalance switch-off are standard.



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