

date:

10.11.2008

Operating Instructions

Centrifuge Eppendorf 5804R



Hazards for Humans and Environment

Risk of **inhalation of aerosols**

Risk of fire or explosion when centrifuging highly flammable or explosive substances

Risk of instability of the centrifuge when imbalanced

Protective Measures and Rules of Behaviour

Check visually the centrifuge, rotor and the tubes for defects before use

Fasten the rotor and the rotor cover well before use (Temp: 10-30 °C): Error "ROTOR"

The **maximum quantity** for this centrifuge are **400 mL**, the **maximum speeds** are:

F34-6-38 (fixed): 11.5 cm = 11,000 rpm = 15,550 g, **A-4-44** (swing out): 16.1 cm = 5,000 rpm = 4,500 g

A-2-DWP (deep well plates): 14.7 cm = 3,700 rpm = 2,200 g

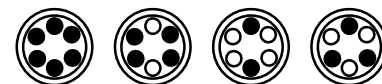
Tubes have to be **closed well** to **avoid** an **imbalance** ("IMBAL") due to a leakage

A liquid density of 1.2 g/cm³ must not be exceeded at max. speed

Load the rotor symmetrically. This includes the **weight of the tubes**

Using the rotor **A-4-44** all positions must be loaded with the **same bucket**

Check if all buckets have been placed correctly and can swing freely



In the case of a **contamination**, **clean** the centrifuge and the rotor **immediately** (e.g. 70 % EtOH)

Turn on centrifuge, **OPEN** lights blue: press to open

Set SPEED (rfc) **TIME** (1 - 99 min) and **TEMP** (-9 – 40 °C)

while flashing with ▲/▼ keys.

Press **SPEED** repeatedly until flashing "G" to change radius

Time set can be changed during the run pressing **TIME**

Set temp in stand by has a slow cooling (lid closed).

FAST TEMP starts rotor spin with fast cooling ("FT")

Deviation of ± 3 °C is indicated by a flashing display, of ± 5 °C the run is stopped ("Overtemp")

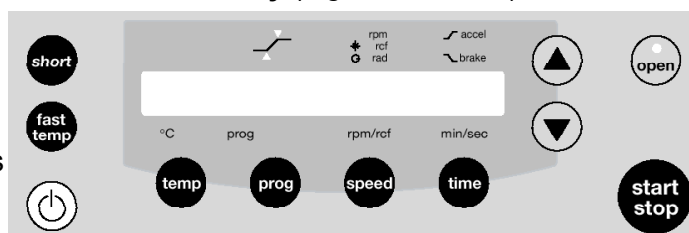
Soft start/stop: Press **TIME** repeatedly until ⤴ (speed) or ⤵ (brake), select with ▲/▼: 0 (w/o) - 9 (max)

Close lid. Press **START** to run. Automatic rotor recognition at 200 - 700 rpm - if nominal speed exceeds max. speed for the rotor, run is interrupted: ("SPEED"). Restart with new allowed max. speed

SHORT: spinning during **SHORT**-key is pressed when lid is closed ("SH")

During run values can be displayed by pressing parameter key (**SPEED**, **TIME** or **TEMP**)

After ending or interrupting by **STOP** rotor brakes until standstill: open key lights up



Cleaning & Maintenance

Dry condensation water within the rotor chamber. Keep the lid open to dry the rotor chamber

Clean and **disinfect** the centrifuge and rotors (rotor bores) **monthly**/after 200 runs with neutral detergents

Clean rubber seals well with water and put **glycerol** to **protect** the **seals**