

# Device innovation



# witeg - Home of Innovations

Dear business friends,

many are currently talking about a turning point that also affects our industry and presents us with new challenges in terms of price structure. Our counter-offensive consists of many novelties and streamlined, automated production stages that allow us to act competitively.

On the following pages we have summarized some highlights and innovations for you. Our new products make work in the laboratory easier, safer, more modern and more cost-effective.

## **Our website in new splendor**

We are pleased to draw your attention to our newly designed website [www.witeg.de](http://www.witeg.de). There you will find our list prices as well as the complete catalogues, which you can download easily and free of charge as PDF files. You will also find information about upcoming trade fairs here.

We are looking forward to your visit!

Your witeg team

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# High-speed refrigerated centrifuge

temperature range of -20°C to +40°C

## CF15000R

### Ideal for:

- centrifugation of temperature sensitive samples, such as live cells, animals or proteins
- can be used in multiple applications including:
  - pelleting of DNA and RNA samples
  - pelleting of PCR amplified nucleic acids
  - separation of antibody and protein precipitates
  - performing enzymatic tests
  - removing cell debris from cell homogenates
  - achieving bacterial and yeast cell fractionation

### Features:

- electromagnetic door locking system; easy closing
- precooling: compressor automatically starts cooling if the set temperature is lower than the ambient temperature
- sound indicator at the end of running
- temperature range -20°C to +40°C
- short pre-cooling time: only 7 min. from room temperature to 4°C
- storage capacity for up to 9 programs
- 3-layer sealed rotors ensure safe centrifugation
- high-strength aluminum alloy rotor, fully autoclavable at 121°C
- rotor imbalance detection alarm
- acceleration/deceleration in 9 steps; gentle braking at low speed for better separation
- five rotors with 0.2 ml, 0.5 ml, 1.5 ml, 2 ml and 5 ml centrifuge tubes/ PCR tubes capacity
- external condensation tank prevents water accumulation within centrifuge chamber



Specifications	CF15000R
Max. speed	15,000 rpm (200-15,000 rpm) in 100 rpm increments
Max. RCF	21,380xg, step: 10xg
Capacity	24 x 1.5/2ml, 36 x 0.5 ml, PCR 8 x4, 12 x 5 ml, 18 x 5 ml
Temperature range	-20°C to +40°C
Run time	30s - 99 min; HOLD (continuous running)
Acceleration/braking time	25s ↑ 25s ↓
Motor	brushless DC motor
Included Rotor	rotor for 24 x 1.5/2ml reaction vessels
Safety devices	dual door lock over-temperature detection with internal diagnosis system over-speed detection
Power	Single-phase, 200V-240V, 50Hz/60Hz, 500W/100V-120V, 50Hz/60Hz, 500W
Noise	≤56dB
Dimensions (WxDxH), weight	332 x 553 x 283 mm, 30 kg
Certification	CE cTÜVus FCC
Other functions	rotation speed/RCF switchover inching operation running process indicator sound alert acceleration/deceleration in 9 steps program storage capacity
Order number	6 000 180

# Low speed centrifuge

## CF4500



### Ideal for:

- separation of whole blood components such as serum, plasma, buffy coat, red blood cells, as well as other bodily fluids

### Features:

- easy operation with intuitive menu and easy-to-read display
- speed can be set in rpm/RCF
- maintenance-free brushless DC motor
- quick spin function with press and hold pulse key
- lid with electric lock and automatic lid-lock release after running
- braking time 2 steps adjustable *only for CF6-50P rotor*
- high strength plastic rotor gives excellent balance to guarantee stable working
- dual protection housing for particularly safe running
- gentle braking at low speeds with efficient separation
- CE marked, cTÜVus and passed explosion-proof test

Specifications	CF4500	CF4550
Speed range	300-4500 rpm, increment: 100 rpm	300-4000 rpm, increment: 100 rpm
Max. RCF	2490xg	1800xg
Speed accuracy	±20 rpm	
Rotor type	CF12-10P	CF6-50P
Run time	30 sec – 99 min, HOLD (continuous operation)	
Motor	brushless DC motor	
Display	LCD	
Safety devices	door interlock over speed detector automatic internal diagnosis	
Acceleration/Braking time	CF12-10P: 20s↑ 13s↓ CF6-50P: 20s↑ 20 s/190 s ↓	
Power	single-phase, 100V-240V, 50Hz/60Hz, 3A70W	
Dimensions (WxDxH)	354 x 304 x 215 mm	
Weight	6 kg	
Certification	CE cTÜVus	
Advanced features	speed/RCF switch short-time run function sound-alert function	
Order number	6 000 190	6 000 195

## Spare rotors

### Spare rotor CF12-10P

- for centrifuge CF4500
- round bottom

Specifications	CF12-10P
Max. speed	4500 rpm
Max. RCF	2490xg
Rotor capacity	8 x 15 ml, 12 x 10 ml
Rotor material	high strength plastic
Order number	6 000 348









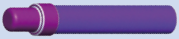



### Spare rotor CF6-50P

- for centrifuge CF4550
- round bottom

Specifications	CF6-50P
Max. speed	4000 rpm
Max. RCF	1800xg
Rotor capacity	6 x 50 ml, 6 x 15 ml
Rotor material	high strength plastic
Order number	6 000 197



**Attention: CF12-10P and CF6-50P are not interchangeable**

Suitable tubes	Tube quantity	Dimension (Ø x L mm)	Adapters	Maximum speed (rpm)	Radius	Maximum RCF (xg)
15 ml con 	8	17 x 120 mm	-	4500	11	2490
1.5 - 5 ml vacu 	12	13 x 75 mm	A10P15 & plug 	4500	9.8	2218
4 - 7 ml vacu 	12	13 x 100 mm	A10P15 	4500	11	2490
		16 x 75 mm	-		9.8	2218
8.5-10 ml vacu 	12	16 x 107 mm	-	4500	11	2490
2.7-3 ml (EU) collection tube 	12	11 x 66 mm	A10P15 & plug 	4500	9.8	2218
7.5 - 8.2 ml (EU) collection tube 	12	15 x 92 mm	A10P15 	4500	11	2490



# Excellent mixing and accurate temperature control to make you work efficient and productive

## Program keys

- Freely programmable
- Fast and simple access to the most frequently used temperature and time parameters
- Save up to 9 user defined programs

## Temperature protection

Block equipped with a lid for heat preservation

## Magnet adhesion technology

Quick interchange of blocks with magnet adhesion technology without any tools

## Block self-recognition

The system can automatically identify the heating module to ensure smooth completion of the experiment



## Intuitive display

LCD display for time, speed and temperature parameters

## Module compatibility

Flexible adapter selection, compatible with various tubes

# Accessories

Order number	6 000 401	6 000 402	6 000 403	6 000 404	6 000 405
Block types					
Capacity	0.5 ml x 24	1.5 ml x 24	2 ml x 24	5 ml x 8 round bottom	5 ml x 8 conical bottom

Order number	6 000 406	6 000 407	6 000 420	6 000 423
Block types				
Capacity	15 ml x 8	50 ml x 4	96 well plate	microplate

# Thermo shaker

temperature range below room temperature 15°C - 100°C

## WI1500-Pro

### Ideal for:

- precise and efficient heating/cooling and mixing
- many applications such as gene synthesis, gene purification, gene and protein denaturation, enzymatic reaction, bacterial growth and others

### Features:

- compact, programmable and with overheating protection for safe sample handling
- precise temperature control for heating and cooling from -5°C to +110°C for all major lab applications
- interchangeable blocks for various applications, e.g. for reagent warming/cooling, DNA extractions, enzymatic reactions and reactions that need to be processed at or near room temperature
- fully programmable
- precise temperature control for heating and cooling
- real-time display of speed, temperature and time
- excellent mixing (200-1500 rpm)
- incl. 1 block for 96 well plates with lid
- quick interchange of blocks without tools and automatic block recognition
- compatible with most popular tubes
- block equipped with a lid for heat preservation
- temperature self-calibration



Specifications	WI1500-Pro
Functions	heating, cooling & mixing
Temperature range	below room temperature 15°C - 100°C
Temperature setting range	0.1°C - 100°C
Temperature control accuracy	±0.5 at 20°C - 45°C
Temperature uniformity	±0.5 at 20°C - 45°C
Power	200 W
Time setting range	0 min - 99 h 30 min
Max. heating speed	5.5°C/min
Max. cooling speed	5°C/min (100°C room temperature) 0.5°C/min (below room temperature)
Mixing speed	200-1500 rpm
Mixing orbit	3 mm
Display	TFT
Programs	9
Overheating protection	150°C
Voltage, frequency	110/220V, 50/60HZ
Dimension (WxDxH), weight	200 x 235 x 120 mm, 7.3 kg
Operating temperature	10°C to 40°C
Operating humidity in %	<80% RH
Order number	6 000 400

# Wi-TC1000G Thermal cycler gradient

# Wi-TC1000S Thermal cycler standard

## High precision and accuracy

Elegant design, excellent precision and accuracy, reproducible results and precise PCR optimization.

## Essential laboratory instrument

The Wi-TC1000-G/S is an essential laboratory instrument for Molecular Biology with applications such as sequencing, gene cloning, gene expression, mutagenesis, and it is also used in areas such as drug discovery, agriculture, food industry, etc.



## State-of-the-art device

High performance with advanced thermal gradient technology, state-of-the-art electronics, precision peltier device and flexible user Interface.



Excellent temperature uniformity



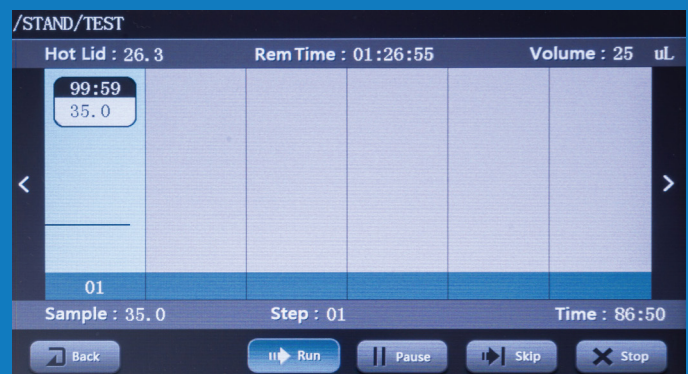
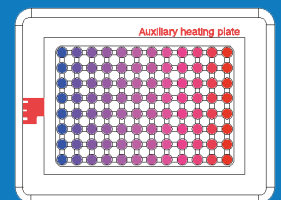
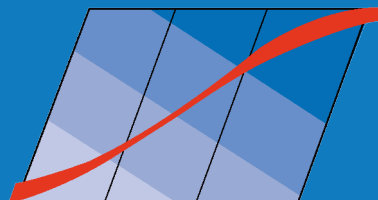
Temperature gradient



Excellent temperature accuracy



LCD touch panel





# Thermal cycler

heating range 4°C - 105°C, standard or gradient

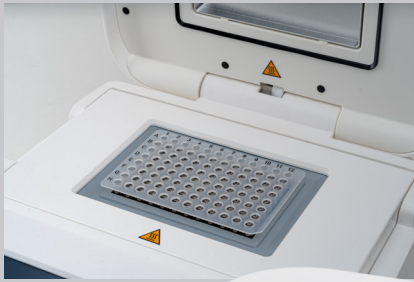
## Wi-TC1000-G/-S

### Ideal for:

- molecular biology with applications such as sequencing, gene cloning, gene expression, mutagenesis
- also in areas such as drug discovery, agriculture, food industry, etc.

### Features:

- high performance peltier and independent heating segments improving temperature control
- auxiliary heating mechanism diminishes the "edge effect" and enhance the temperature uniformity
- wide touchdown PCR temperature range (-9.9°C to +9.9°C) and long PCR time range (-9min 59s to +9min 59s)
- gradient temperature setting optimizes temperature easily in the single run
- colortouch screen with user friendly interface helps to edit programs easily
- wide options of consumables: common PCR tubes, 8-well PCR strips and 96-well PCR plates can be used
- file customization, multi-file storage
- power-off protection function, automatic program recovery
- hot lid auto-off function: If module temperature is lower than 30°C, the hot lid function will automatically turn off



Specifications	Wi-TC1000-G	Wi-TC1000-S
Sample capacity	96 x 0.2 ml PCR tubes, 8 x 12 PCR plate or 96 well plate	
Heating range	4°C - 105°C	
Lid temperature range	30°C - 110°C	
Temperature display accuracy	±0.1°C	
Temperature display accuracy at 55°C	±0.3°C	
Temperature uniformity at 55°C	<0.3°C	
Max. heating/cooling rate	5°C/sec	
Gradient temperature setting range	30°C - 99°C	-
Gradient range	1°C - 42°C	-
Adapter block material	aluminum	
Display	7" LCD display, 800 x 480	
Input	touch panel	
User defined file system	max. 30 segments with 99 cycles max. 16 folder and 16 files each folder	
Power off protection	Yes	
Dimension (WxDxH), weight	280 x 370 x 250 mm, 11kg	
Power supply	100V - 120V/200V - 240V, 50/60Hz	
Order number	6 000 500	6 000 600

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### LABORATORY EQUIPMENT



### LIQUID HANDLING



### CONSUMABLES



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