

ADVANCED CENTRIFUGES

MAIN ADVANTAGES:

- > USER adjustable START - STOP Features
- > Robust Design, QUIET RUNNING
- > Brushless Drive System, MAINTENANCE FREE
- > SAFE TO USE, Speed Limitation System, Automatic Rotor Recognition System
- > Microprocessor Controlled Functions of Cover, Time, and Speed
- > Adjustable Acceleration and Braking System
- > Fast Spin
- > Up to 100 Programs



CENTRIC 250 is universal laboratory centrifuge, designed for use in medical, industrial and scientific laboratories for separating substances with different relative densities by centrifugal force. The maximum rotational speed of **16.200 RPM** gives the centrifugal force of **25.000 x g**.

A wide usage of programming options and an electronic operation control allow a trouble-free use of the centrifuge. With a special drive, quiet maintenance-free operation without any carbon dust pollution is guaranteed.


Device is equipped with user-friendly options which make the operation and standard settings easier for you. Built-in error-detecting functions keep the user from entering incorrect values and check the complete operation.


The centrifuge has the possibility to save programs. In the program store you can save up to 100 different data sets. The centrifuge always keeps the last run program in its memory for an unlimited amount of time allowing the program to be restarted at any time - even if the centrifuge was turned off during operation. All important operation parameters can be seen at a glance.



The settings are executed with knobs and keys on the control panel. The interior of the centrifuge is also easy to clean. We are able to offer you a device that combines functional variety with practical applications.


| TECHNICAL SPECIFICATIONS | |
|--|--|
| Model | CENTRIC 250 |
| Code for 230V 115V | 472.000 1472.000 |
| Power supply | 230V / 50-60Hz 115V / 50-60Hz |
| Power requirement | 350W |
| Fuses | 2x10A T - 230V 2x16A T - 115V |
| Isolation category | I |
| Max. rotation speed | 200 to 16.200 rpm, in steps of 10 rpm |
| Max. centrifugal force | 25.000 x g |
| Max. load | 6 x 12ml |
| Max. kinetic energy | 6.200Nm |
| Max. density of material to be centrifuged | 1,2g/ml |
| Time | 0 - 99 min, HOLD function |
| Program settings | 100 programs |
| Acceleration | 0 - 9 (10) levels |
| Deceleration | 0 - 9 (10) levels |
| Fast spin | YES |
| Noise level | ~ 62dB |
| Permitted ambient temperature | + 2°C to + 35°C |
| Permitted max. relative air humidity | 75% |
| Dimensions (H x W x D) | 250 x 300 x 415mm |
| Weight | 18kg |



Accessories for CENTRIC 250


| Six Place Swing-Out rotor | SWING OUT ROTOR |
|---|------------------|
| | Code No. 472.350 |
|  | |
| Vial dimensions $\phi \times l$ (mm) | 17 x 105 |
| Max. capacity (ml) | 6 x 12 |
| Max. speed (RPM) | 4.400 |
| Max. centrifugal force (x g) | 2.500 |
| Radius (mm) | 120 |
| Acceleration to max. speed (s) | 15 |
| Braking from max. speed (s) | 14 |


| Fixed angle PCR rotor | PCR strip ROTOR |
|---|------------------|
| | Code No. 457.380 |
|  | |
| Vial dimensions $\phi \times l$ (mm) | 6 x 20 |
| Max. no. of vials | 48 (6 x 8) |
| Max. speed (RPM) | 14.000 |
| Max. centrifugal force (x g) | 19.500 |
| Radius (mm) | 86 |
| Acceleration to max. speed (s) | 15 |
| Braking from max. speed (s) | 14 |

| Fixed angle rotors with aluminium lid | ANGLE ROTOR RA 24 incl. aluminium lid Code No. 456.600 | ANGLE ROTOR RA 30 incl. aluminium lid Code No. 456.620 |
|---------------------------------------|---|---|
| |  |  |
| Max. capacity (ml) | 24 x 2.0 | 30 x 2.0 |
| Max. speed (RPM) | 16.200 | 14.000 |
| Max. centrifugal force (x g) | 25.000 | 21.450 |
| Radius (mm) | 86 | 98 |
| Acceleration to max. speed (s) | 16 | 15 |
| Braking from max. speed (s) | 15 | 14 |

| Fixed hematocrit rotor | HEMATOCRIT ROTOR with reading device Code No. 456.630 |
|--|---|
| |  |
| Capillares dimensions $\phi \times l$ (mm) | 1.6 x 75 |
| Max. no. of capillares | 24 |
| Max. speed (RPM) | 14.000 |
| Max. centrifugal force (x g) | 20.160 |
| Radius (mm) | 92 |
| Acceleration to max. speed (s) | 15 |
| Braking from max. speed (s) | 14 |

| UNIVERSAL ROTORS Angle rotor can accept up to 8 or 12 tubes arranged in one concentric row. | ANGLE ROTOR RA 8/15 Code No. 472.920 | | | | | ANGLE ROTOR RA 12/12 Code No. 472.320 | | | | |
|--|---|------------------------|---------|----------|-----------------------|---|------------------------|---------|----------|-----------------------|
| |  | | | | |  | | | | |
| Shields Code No. | 455.256 | | | | | 455.266 | | | | |
| Adapter Code No. (1 pcs) | - | - | 454.151 | 454.147 | 454.141 | - | - | 454.151 | 454.147 | 454.141 |
| Tube capacity (ml) | 15 | 12 | 10 | 7 | 5 | 15 | 12 | 10 | 7 | 5 |
| No. Of tubes per rotor | 8 | 8 | 8 | 8 | 8 | 6 | 12 | 12 | 12 | 12 |
| Max. tube dimension Ø x d (mm) | 17 x 120 Falcon | 17 x 100 Vacutainer | 17 x 82 | 13 x 100 | 13 x 75 Vacutainer | 17 x 120 Falcon | 17 x 100 Vacutainer | 17 x 82 | 13 x 100 | 13 x 75 Vacutainer |
| Max. radius (mm) | 100 | 100 | 90 | 98 | 85 | 100 | 100 | 90 | 98 | 85 |
| Max. speed (RPM) | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Max. RCF (g) | 4025 | 4025 | 3620 | 3940 | 3420 | 4025 | 4025 | 3620 | 3940 | 3420 |

| Angle rotor can accept up to 6 tubes arranged in one concentric row. | ANGLE ROTOR RA 6/50 Code No. 472.330 |
|--|---|
| |  |
| Shields capacity (ml) | 50 |
| No. Of tubes per rotor | 6 |
| Max. tube dimension $\phi \times d$ (mm) | 29 x 120 Falcon |
| Max. radius (mm) | 90 |
| Max. speed (RPM) | 6000 |
| Max. RCF (g) | 3620 |

| CYTO ROTOR It can accept up to 8 funnels arranged in one concentric row. As standard accessories we offer Rotofunnels JC406 & JC313 and Rotoclips from Tharmac® company. | CYTO ROTOR Code No. 456.630 |
|--|---|
| |  |
| Max. no. of Rotofunnels | 8 |
| Max. speed (RPM) | 2.500 |