

Sigma 114 Microfuge

Small microcentrifuge for research, biotechnology and medical laboratory



- Bright LCD - Display
- Large capacity 24 x 1,5 – 2,2 ml
- Topspeed 14.800 rpm = 16.163 x g
- min. 200 rpm = 2 x g
- Short acceleration and deceleration
- Low temperature increase during run
- Easy handling, big buttons
- Short- and continuous run, 99 min. timer
- Two acceleration and deceleration curves
- Motorized lid lock
- Maintenance-free induction drive motor

Sigma 1-14 Part.-no.10114 (230V, 50/60 Hz)

Sigma 1-14 Part.-no.10115 (100-120V, 50/60 Hz)

Rotors

| Order. no. | Description | Max. rpm | Max. RCF |
|------------|--|----------|-----------------|
| 12082 | Angle rotor made of aluminium, 12 x 1,5/2,2 ml, for e.g. reaction vials no.15008, 15040, incl. polysulfone lid no.17882 | 14.800 | 15.183 |
| 12083 | Angle rotor made of aluminium, 18 x 1,5/2,2 ml, for e.g. reaction vials no.15008, 15040, or 18 x 0,24/0,4 ml e.g. no.15014, (2 lines) incl. polysulfone lid no.17882 | 14.800 | 14.448 / 15.673 |
| 12084 | Angle rotor made of Aluminium, 24 x 1,5/2,2 ml, for e.g. reaction vials no.15008, 15040, incl. polysulfone lid no.17882 | 14.800 | 16.163 |
| 12092 | Angle rotor made of polypropylene, 12 x 1,5/2,2 ml, for e.g. reaction vials no.15008, 15040, incl. polysulfone lid no.17882 | 14.800 | 15.183 |
| 12093 | Angle rotor made of polypropylene, 18 x 1,5/2,2 ml, for e.g. reaction vials no.15008, 15040, oder 18 x 0,24/0,4 ml e.g. no.15014, (2 lines) incl. Polysulfone no.17882 | 14.800 | 14.448 / 15.673 |
| 12094 | Angle rotor made of polypropylene, 24 x 1,5/2,2 ml, for e.g. reaction vials no.15008, 15040, incl. polysulfone lid no.17882 | 14.800 | 16.163 |
| 11026 | Microhematocritrotor, suitable for 24 capillary tubes Ø 1,4 x 50 mm, 35 µl no.15028, incl. reader no. 17028, usable with reader no.17026 | 13.000 | 11.903 |

Accessories

| Order no. | Description | Suitable for: |
|-----------|---|--|
| 13000 | Adapter for reaction vials 0,25/0,4 ml no.15014 | 12082/12083/12084 12092/12093/12094 |
| 13002 | Adapter for reaction vials 0,5/0,7 ml, Ø 7,9/10 x 28/31 mm no.15005 | 12082/12083/12084 12092/12093/12094 |
| 13021 | Adapter for PCR-tube 0,2 ml | 12082/12083/12084 12092/12093/12094 |
| 17882 | Spare polysulfone lid for Angle rotors of Sigma 1-14 | 12082/12083/12084 12092/12093/12094 |
| 17026 | Reader for use with microhematocritrotor | 11026 |
| 17005 | Capillary tube sealing putty (6 plates) | 11026 |

Tubes

| Order no. | Description | Suitable for: |
|-----------|---|--|
| 15028 | Microhematocrit capillary tubes, heparinized, 35 µl, Ø 1,4 x 50 mm, 200 pcs. per pack | 11026 |
| 15014 | Reaction-vials made of polypropylene 0,4 ml, 100 pcs. per pack | 13000/12083/12093 |
| 15005 | Reaction-vials 0,5 ml, 100 pcs. per pack | 13002 |
| 15008 | Reaction-vials 1,5 ml, 100 pcs. per pack | 12082/12083/12084 12092/12093/12094 |
| 15040 | Reaction-vials 2,2 ml, 100 pcs. per pack | 12082/12083/12084 12092/12093/12094 |

Technical specifications SIGMA 1-14

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|--|--------------------------------------|
| Electric supply | 230 V, 50/60 Hz; 100-120 V, 50/60 Hz |
| Power consumption, induction drive motor | 95 W |
| Acceleration and deceleration curves | 2 |
| Max. rotational [1/min] | 14 800 |
| Min. rotational [1/min] | 200 |
| Max. capacity [ml] | 24 x 2,2 |
| Max. gravitational | 16.163 x g |
| Min. gravitational | 2 x g |
| Max. temp. increase rotor 12092 20 min / continuous run | 9°C / 13°C |
| Max. tem. increase rotor 12092 20 min / continuous run | 10°C / 11,1°C |
| Max. acceleration rotor 12092 | 13 sec. |
| Max. acceleration rotor 12094 | 14 sec. |
| Max. deceleration rotor 12092 | 11 sec. |
| Max. deceleration rotor 12094 | 12 sec. |
| interference suppression | EN 61326 |
| Dimensions: height x width x depth [mm] | 176 x 226 x 212 |
| Weight without rotor [kg] | 5,4 |
| Noise level at max. speed | < 60 dB |
| Max. kinetic energie [Nm] | 1721 |