

# Sigma 3-15 Sigma 3K15



台式离心机  
-常温型  
-冷冻型



### 通用台式高速离心机 Sigma 3-15 No.10795(200~240V , 50/60Hz)

- 通用型实验室台式高速离心机，可以离心多种容量的角转子，水平转子，载玻片转子和酶标板转子；
- 免维护无碳刷变频电机；
- 速度范围100~15,300rpm，精确度 $\pm 1$  rpm；
- 在高速转速下运行极为平稳
- 微控制器可以预设离心力、转速、转子、时间和温度（3K15）；
- 20种加速和减速曲线，10种程序记忆可被调用；
- 磁性转头识别，避免转子超速，不平衡保护功能；
- 符合国际IEC6010安全标准及ISO 9001质量认证

- Laboratory centrifuge, air cooled, for the universal use in the laboratory. Various angle, swing-out, microtiter rotor and cytorotor available.
- Maintenance-free brushless drive motor with exact speed pre-selection and display.
- Speed range 100 to 15,300rpm, accuracy 1rpm.
- Extremely smooth running even at maximum speed.
- A microcontroller provides for pre-selection of gravitational field, speed, rotor, time and temperature(3K15).
- 20 acceleration and deceleration curves and 10 program memory locations are available.
- Magnetic rotor identification prevents overspeeding rotors, imbalance switch.
- Product according to national and international safety regulations ( IEC6010 ) and ISO 9001 quality certification.

### 通用台式高速冷冻离心机 Sigma 3K15 No.10797(220~240v , 50/60Hz)

- 通用台式冷冻离心机，内置制冷系统
- 静止状态下也可控制转子温度
- 采用环保无氟制冷剂（R 134a）
- 设定温度范围为-20°C到+40°C。

- Refrigerated table top centrifuge with built in refrigeration system
- Temperature control of rotors also during standstill. CFC-free refrigerant (R 134a)
- Temperature range between -20°C and +40°C can be selected

## 角转子/Angle Rotor(1.5~100ml)

| 转子<br>Rotor                 | 容量<br>Capacity              | 离心管/Tube<br>适配器/Adapter |
|-----------------------------|-----------------------------|-------------------------|
| No.12110                    | 12 x 1.5 / 2.2 ml           |                         |
| 3-15 max.                   | 14,500r/min≈15,279 xg       |                         |
| No.12115                    | 12 x 8 x 0.2 ml             |                         |
| 3K15 max.                   | 14,000r/min≈21,475 xg       |                         |
| No.12154                    | 24 x 1.5 / 2.2 ml           | (15008/15040)           |
| 3-15 max.                   | 14,500r/min≈19,275 xg       |                         |
| 3K15 max.                   | 15,300r/min≈21,460 xg       | 13021/13000/13002       |
| No.12131                    | 30 x 1.5 / 2.2 ml           |                         |
| 3-15 max.                   | 13,200r/min≈19,480 xg       |                         |
| 3K15 max.                   | 14,000r/min≈21,913 xg       |                         |
| No.12349                    | 48 x 1.5 / 2.2 ml           |                         |
| 3K15 max.                   | 13,500r/min≈20,376 xg       |                         |
| No.12111                    | 10 x 10 ml                  |                         |
| 3-15 max.                   | 14,500r/min≈17,865 xg       |                         |
| 3K15 max.                   | 15,300r/min≈19,890 xg       | 15000/15010/15039       |
| No.12157                    | 20 x 10 ml                  |                         |
| 3-15 max.                   | 9,000r/min≈8,875 xg         |                         |
| 3K15 max.                   | 10,000r/min≈10,956 xg       |                         |
| No.12311*                   | 12 x 15ml Culture           | *Biosafe                |
| 3K15 max.                   | 11,800r/min≈15,411 xg       | 15115                   |
| No.12171                    | 12 x 15ml Culture           |                         |
| 3-15 max.                   | 9,000r/min≈8,422 xg         | 15115                   |
| No.12158                    | 6 x 30ml                    | 15030/15032/15029       |
| 3-15 max.                   | 14,500r/min≈18,570 xg       |                         |
| 3K15 max.                   | 15,300r/min≈20,675 xg       | 13059:10ml              |
| No.12310*                   | 6 x 50ml Culture            | 15151 *Biosafe          |
| 3-15 max.                   | 9,000r/min≈8,422 xg         | 13079:50ml              |
| 3K15 max.                   | 12,000r/min≈15,133 xg       | 13060:15ml Culture      |
| No.19776                    | 6 x 50ml Culture            | 15151                   |
| 3-15 max.                   | 9,000r/min≈8,422 xg         | 13079:50ml              |
| No.12150                    | 6 x 50ml                    |                         |
| 3-15 max.                   | 10,000r/min≈9,391 xg        |                         |
| 3K15 max.                   | 14,600r/min≈20,018 xg       | 15051/15052/15054       |
| No.12156                    | 8 x 50ml                    | 16018:15ml              |
| 3-15 max.                   | 9,000r/min≈8,694 xg         | 16030:30ml Corex        |
| 3K15 max.                   | 10,000r/min≈10,733 xg       |                         |
| No.12155                    | 4 x 100 ml                  | 15074/15075             |
| 3-15 max.                   | 10,000r/min≈10,174 xg       | 15076/15080             |
| 3K15 max.                   | 10,000r/min≈10,174xg        | 13084:10ml              |
| No.12159                    | 6 x 100 ml                  | 13083:30ml              |
| 3-15 max.                   | 8,000r/min≈7,012 xg         | 16019:15ml              |
| 3K15 max.                   | 8,000r/min≈7,012xg          | 16031:30ml Corex        |
| 载破片转子/Cyto-Rotor            |                             | 13081:15ml              |
|                             |                             | 13080:50ml Culture      |
|                             |                             | 13063:15ml Greiner      |
|                             |                             | 13082:50ml              |
| No.11224                    | 载破片转子 / Cyt rotor           |                         |
| 3-15 max.                   | 3,000r/min≈1,137 xg         |                         |
| 3K15 max.                   | 3,000r/min≈1,137xg          |                         |
| 鼓式转子 / Drumrotor            |                             |                         |
| No. 11136                   | 鼓式转子 / Drumrotor, 需配适配器     |                         |
| 3-15 max.                   | 13,000r/min≈13,226 xg       |                         |
| 3K15 max.                   | 14,500r/min≈16,454xg        |                         |
| 酶标板转子 / MTP Swing-out rotor |                             |                         |
| No. 11222                   | 酶标板转子 / MTP Swing-out rotor |                         |
| 3-15 max.                   | 3,000r/min≈1,238 xg         |                         |
| 3K15 max.                   | 3,000r/min≈1,238 xg         |                         |
| 容量 / capacity:              | 2 x 3 x 15 mm MTP           |                         |



## 水平转子

| 4 x 200mL水平转子  |                         |                     |                    |                     |
|--|-------------------------|---------------------|--------------------|---------------------|
| 3-15   |                         |                     | 3K15               |                     |
| 转子/Rotor<br>no.  | 最高转速<br>rpm             | 最大相对离心力<br>RCF [xg] | 最高转速<br>rpm        | 最大相对离心力<br>RCF [xg] |
| 11133 + 2 x 13104  | 5,000                   | 4,500               | 5,500              | 5,445               |
| 适用于吊篮13104的适配器；可另配17111密封盖<br>Adapters for bucket 13104; sealable with cap 17111 |                         |                     |                    |                     |
| 17008 12 x 1.5/2.2 ml  | 17006 12 x 5 ml RIA     |                     | 17027 7 x 5~7 ml   |                     |
| 17007 12 x 7 ml  | 17012 6 x 10 ml         |                     | 17015 7 x 15 ml    |                     |
| 17019 3 x 15 ml Culture  | 17025 2 x 25 ml         |                     | 17030 2 x 25~30 ml |                     |
| 17032 1 x 30 ml Sterilin   | 17049 1 x 50 ml Culture |                     | 17050 1 x 50 ml    |                     |
| 17052 1 x 40 ~ 50 ml   | 17085 1 x 78~85 ml      |                     | 17100 1 x 100 ml   |                     |
| 15202 PP-bottle 190 ml   | 15203 PC-bottle 200 ml  |                     |                    |                     |



13104



11133



11171 + 4x13296

| 24 x 15mL水平转子   |             |                     |  |
|-----------------|-------------|---------------------|--|
| 3K15            |             |                     |  |
| 转子/Rotor<br>no. | 最高转速<br>rpm | 最大相对离心力<br>RCF [xg] |  |
| 11171 + 4x13296 | 5,000       | 3,717               |  |

| 技术参数                    | Technical data                         | 3-15               | 3K15               |
|-------------------------|--|--------------------|--------------------|
| 电源                      | Electric supply                        | 220~240 V,50/60 Hz | 220~240 V,50/60 Hz |
| 电机功率[W]                 | Power consumption drive                | 460                | 460                |
| 制冷功率[W]                 | Power consumption refrig               | -                  | 550                |
| 最大容量[ml]                | Max. capacity                          | 4 x 200            | 4 x 200            |
| 最高转速[r/min]             | Max. speed [rpm] Angle/swing-out Rotor | 14,500             | 15,300/5,500       |
| 最大相对离心力[xg]             | Max. RCF [xg]                          | 20,685             | 23,031             |
| 温度设定范围[°C]              | Temperature setting range              | -                  | -20°C~+40°C        |
| 时间控制范围                  | Time setting range                     | 10sec-9h59min      | 10sec-9h59min      |
| 干扰抵制标准                  | Interference suppression               | EN 55011/B         | EN 55011/B         |
| 尺寸：高 X 宽 X 长 [mm]       | Dimensions: Height x Width x Depth     | 375 x 410 x 550    | 375 x 410 x 675    |
| 重量（无转子）[kg]             | Weight without rotor                   | 37                 | 64                 |
| 最大功能[Nm]                | Kinetic Energy max.                    | 9530               | 9970               |
| 噪音[dB(A)]               | Noise level at max. speed (approx.)    |                    |                    |
| No.12154转子 15,300 r/min | Rotor 12154 at 15,300 rpm              | 65                 | 66                 |
| No.11132转子 5,500 r/min  | Rotor 11132 at 5,500 rpm               | <60                | <63                |
| 最快加速时间[秒]：No.12154转子    | Max. Acceleration Rotor 12154          | 26                 | 26                 |
| No.11132转子              | Rotor 11132                            | 25                 | 20                 |
| 最快减速时间[秒]：No.12154转子    | Max. Deceleration Rotor 12154          | 41                 | 41                 |
| No.11132转子              | Rotor 11132                            | 28                 | 12                 |
| 转子最低温度*[°C]             | Min. Rotor temperature*)               |                    |                    |
| 11132 转子 5,500 r/min    | Rotor 11132 5,500rpm                   | -                  | -2 / +4            |
| 12154 转子 15,300 r/min   | Rotor 12154 15,300rpm                  | -                  | <5                 |



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