

Automated centrifuges

SBS 300 | 300 R Robotic

Essential and modular

The SBS 300 ROBOTIC is a front-loading centrifuge, developed and optimized for microplates in high-throughput screening. It can be loaded frontally via the xy-axes, as well as via the z-axis and is particularly suitable for collaborative robotic systems. The compact design opens up a wide range of applications in automation. The robust construction, ensures increased safety and durability – especially in high throughput and continual use environments.

The SBS 300 R ROBOTIC has a modular design and can be cooled by an external cooling unit.



■ Highlights

- Max. RPM: 6,300 min⁻¹
- Max. RCF: 4,615
- Max. capacity: 2 microtiter plates (max. 128x86x46 mm)
- Loading & unloading hatch for front or top loading
- Hatch opening time < 6 seconds
- Fast + Slow positioning mode
- Positioning time of 5 seconds
- Positioning accuracy +/- 0,5° tolerance
- Imbalance tolerance 50 g
- Internal air cooling
- External liquid cooling (SBS 300 R Robotic)


■ Features

- Metal housing and lid
- Stainless steel inner chamber
- Automatic rotor recognition
- Error display (optional)
- Imbalance switch-off
- Overtemperature fuse
- Interface via RS 232
- Overcurrent limitation when closing the hatch
- Manual operation via key switch possible

Technical data

	SBS 300 ROBOTIC air cooled	SBS 300 R ROBOTIC external cooling
voltage *)	200-240 V 1~	200-240 V 1~
frequency	50-60 Hz	50-60 Hz
max. consumption	1.400 VA	1.400 VA
max. capacity	2 microtiter plates (max. 128x86x46 mm)	2 microtiter plates (max. 128x86x46 mm)
max. RPM	6,300 min ⁻¹	6,300 min ⁻¹
max. RCF	4,615	4,615
Permissible density of the centrifuged material	1.2 kg/dm ³	1.2 kg/dm ³
dimensions (WxDxH)	412x508x311 mm	411x508x311 mm
weight	approx. 80 kg	approx. 80 kg
Cat. No.	8300	8305
Cat. No. Sets	8300-S01	8305-S01

Swing-out, 2-place

Rotor	
max. RPM max. RCF ²⁾	6,300 min ⁻¹ 4,615
max. capacity	2 microtiter plates
run-up run-down, braked in sec	63 / 29
angle	90°
Cat. No.	8322-R





Bucket

Cat. No.



8330-R/2



Plates		
W x D x H in mm	128x86x44,5	128x86x46
capacity in ml	-	-
max. RCF ²⁾	4,615	4,615
radius in mm	104	104
plates per rotor	2	2
Cat. No.	DWP	MS

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF for the microtiter plates used should be verified with the individual manufacturers.

Certifications / Registrations

Product certification:



Company certifications:

