

SpeedMill PLUS

- Efficient homogenization system for various starting material, which are used for isolation and purification of DNA, RNA and proteins
- Complete and reproducible homogenization even in case of extremely resistant starting materials
- Continuous operations are possible without any problems
- No tools required to operate the instrument
- Efficient sample cooling during the whole preparation

Homogenization principle

- Mechanical principle, which prevents substantial sample warming
- Rapidly moving beads crush and disrupt the material

System parameters

Construction	Carbon fibre technology
Homogenization time	30 sec – 4 min (depending on the starting material)
DNA / RNA Purification Time	20 – 30 min for standard protocols (complete nucleic acid purification)
Homogenization speed	50 Hz (50 s ⁻¹)
Device handling	Stand-alone device, simple starting and handling of device by using modern touch sensors
Acceleration time	No acceleration
Deceleration time	No acceleration

Application parameters

Homogenization routines	User-defined programming with user-defined parameters, as well as pre-programmed protocols
Sample handling	Simple loading and removing of sample tubes
Sample capacity	Up to 12 samples simultaneously
Sample cooling	Passive cooled sample holder; storage at temperatures down to –40 °C
Volume sample tubes	0.5 – 2.0 ml self-standing, twisted vials
Sample milieu	Dry or wet homogenization

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Program parameters

Adjustable time	1 sec – 4:59 min (in steps of 1 sec)
Pre-installed prgrams	Yes
User-defined programs	Yes
Number of prgrams	20
No. of cycles	1 – 99
No. of protocol steps	1 – 6

Accessories - Kits

Sample preparation	<ul style="list-style-type: none"> ▪ Different beads available ▪ Optimally adaptation to a diverse range of soft and hard starting materials
Complete purification	<ul style="list-style-type: none"> ▪ Optimized kits for the complete isolation of DNA or RNA ▪ Contains special lysis tubes, specific beads and pre-made buffer

Other technical data

Dimensions (W x H x D)	154 x 275 x 257 mm
Weight	12 kg
Power supply	AC 220 V, 50 Hz / AC 115 V 60 Hz
Power consumption	150 W (max)
Fuses	250 V, 2x T 4 A
Warranty	2 years



Subject to changes in design and scope of delivery as well as further technical development!