

REGEN+U



R - GEN 100 DATASHEET
2020

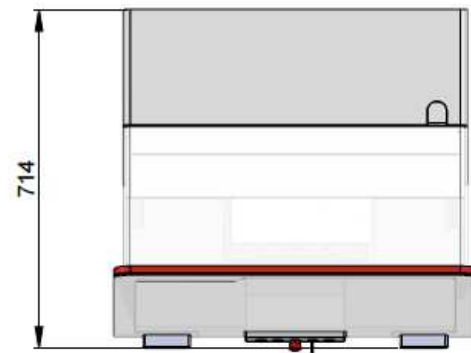
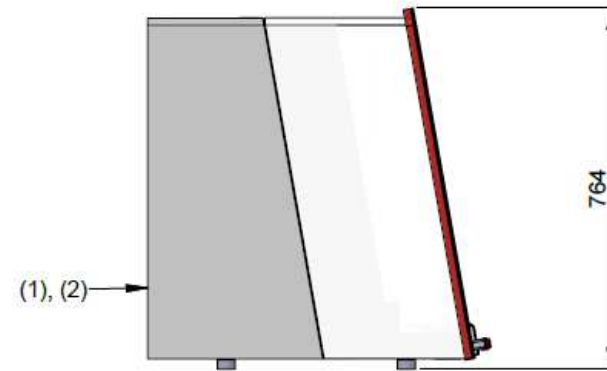
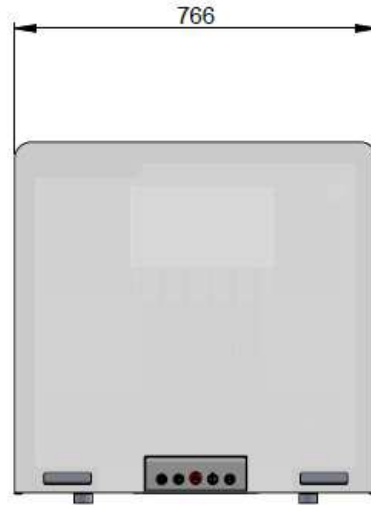
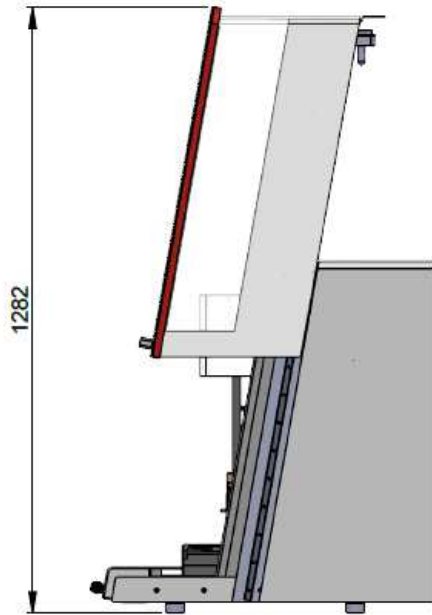
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| PRODUCT NAME | R-GEN 100 |
| SHORT DESCRIPTION | Tabletop 3D Bioprinter with fully modular configuration |
| BASE INSTRUMENT | <p>3D printing robot with closed-loop position control</p> <p>Instrument interface R-GEN CONTROLLER</p> <p>Computer & Display (including keyboard & mouse)</p> <p>Tool calibration system, vacuum sample mounting system</p> <p>Built-in interface for electrospinning and –writing kit</p> <p>Built-in interface for temperature control management system</p> |
| INSTRUMENT CONFIGURATION | <p>Accommodates</p> <ul style="list-style-type: none"> - up to 5 individually configurable dispensing tools for multi-material / multi-cellular 3D constructs. - up to 2 light curing kits for in-process material crosslinking. - substrate height calibration system for printing on varying height labware substrates. - modular functional workzones for sample fixation, substrate temperature control, or electrospinning and writing. - process supervision system with modular observation unit. |
| SOFTWARE | Live process interaction with R-GEN CONTROLLER including parameter adaptation. |
| LABORATORY WORKSPACE FEATURES | <p>Built-in anti-vibration systems and user safety</p> <p>Interior illumination</p> <p>CE conformity</p> |
| INSTALLATION DATA | <p>Dimension: 770 x 720 x 760 mm</p> <p>Weight : 160 kg</p> <p>Pneumatic : 8 Bar - Air quality : ISO 8573-1:2010 [1:4:1]</p> <p>Network Fuse : 100-240VAC/4.46-8.52A</p> <p>Frequency : 50-60 Hz</p> |
| LABORATORY OPERATIONAL ENVIRONMENT | <p>Temperature : 15-35°C</p> <p>Humidity : Max. 60 % RH</p> |
| STORAGE | <p>Temperature : 5-45°C</p> <p>Humidity : Max. 60 % RH</p> |

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| FOOTPRINT (Requested working area) | 770 x 720 x 1250 mm (with hood opened) |
| PERFORMANCE DATA | |
| MAXIMUM BUILD VOLUME | 130 x 90 x 65 mm |
| SPEED | Dispensing 50 mm/s; Quick-Travel: 100 mm/s |
| DISPENSING PRESSURE | Max. 8 Bar |
| MINIMAL STRAND DIAMETER | +/- 10 μm – material and technology dependent |

All the data/information are subject to change without notice

Instruments Compatibility

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| READY TO USE TOOLS | Pneumatic Strand Dispenser, Pneumatic Drop Dispenser, Pneumatic Melt Dispenser, Volumetric Strand Dispenser |
| WORKZONES | Compatible with Standard Workzone Kit, PhysTemp Kit, High Temperature Kits, Electrospinning and Writing Kit |
| OPTIONS | Compatible with Light Curing Kits, Process Supervision System |
| DESIGN SOFTWARE | Compatible with SHAPER planning software for 2D/3D design and bioprinting process and protocol management |
| THIRD-PARTY PRODUCTS | Compatible with Liquid Temperature Control Unit for cartridges and workzone temperature control |



POWER SUPPLY (1): 230 VAC, 50Hz, 6.3A / 110VAC, 60 Hz, 10A

COMPRESSED AIR SUPPLY:
Pressure input (2): 0.6 MPa – 1Mpa
Displacement: 108 l/min

OPERATIONAL PERFORMANCE (FOR INDOOR USE ONLY):
Laboratory environment temperature range: 15°C to 35°C
Environment humidity: 20% - 60% relative humidity

WEIGHT:
Ca. 160 kg