

# REGEN+U



R - GEN 200 DATASHEET

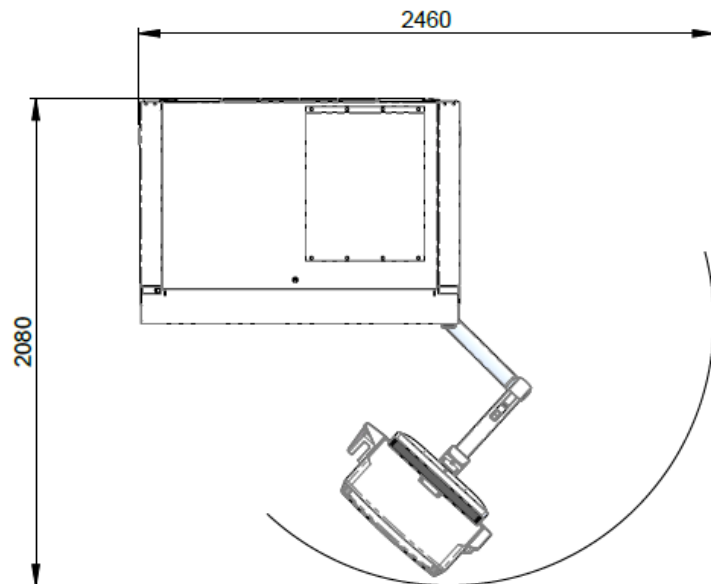
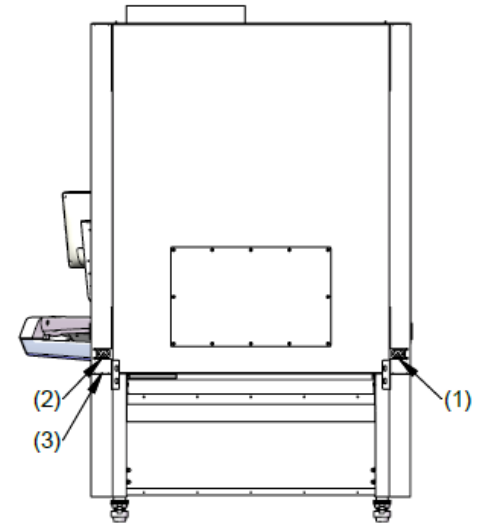
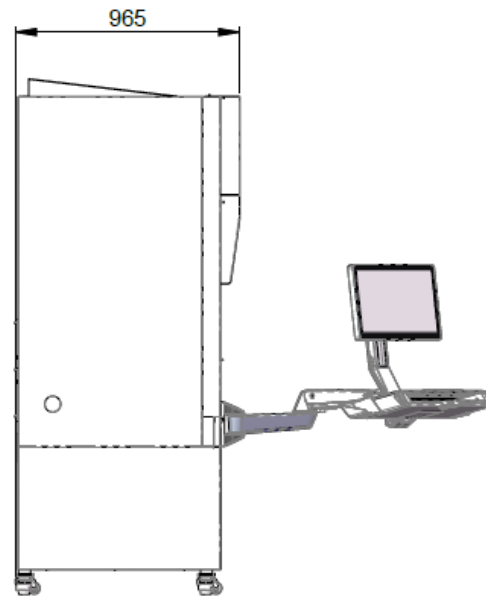
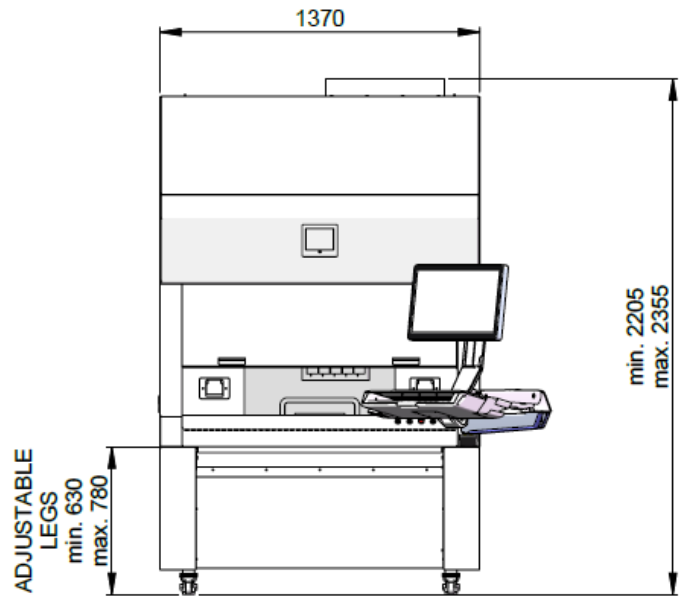
<b>PRODUCT NAME</b>	<b>R-GEN 200</b>
<b>SHORT DESCRIPTION</b>	3D Bioprinting Station with fully modular configuration in biosafe environment
<b>BASE INSTRUMENT</b>	<p>3D printing robot with closed-loop position control</p> <p>Instrument interface R-GEN CONTROLLER with multi-touch input,</p> <p>Computer (including keyboard &amp; 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>
<b>INSTRUMENT CONFIGURATION</b>	<p>Accommodates</p> <ul style="list-style-type: none"> <li>- up to 5 individually configurable dispensing tools for multi-material / multi-cellular 3D constructs.</li> <li>- up to 2 light curing kits for in-process material crosslinking.</li> <li>- substrate height calibration system for printing on varying height labware substrates.</li> <li>- modular functional workzones for sample fixation, substrate temperature control, or electrospinning and writing.</li> <li>- process supervision system with modular observation unit.</li> </ul>
<b>SOFTWARE</b>	Live process interaction with R-GEN CONTROLLER™, including parameter adaptation.
<b>LABORATORY WORKSPACE FEATURES</b>	<p>Class II Biosafety Enclosure (Type A2) - NSF/ANSI 49</p> <p>Built-in anti-vibration systems and user safety</p> <p>Ultraviolet germicidal lamp</p> <p>Configurable work bench height</p> <p>Casters</p> <p>Configurable mechanical fixation of display panel (left or right side)</p> <p>CE conformity</p> <p>Biosafety calibration and certification excluded</p>

<b>INSTALLATION DATA</b>	Dimension: 1366 x 963 x 2202 mm Weight: ca 600 kg Pneumatic: 8 Bar - Air quality: ISO 8573-1:2010 [1:4:1] Network Fuse: 100-240VAC/4.46-8.52A Frequency: 50-60 Hz
<b>LABORATORY OPERATIONAL ENVIRONMENT</b>	Temperature: 15-35°C Humidity: Max. 60 % RH
<b>STORAGE</b>	Temperature: 5-45°C Humidity: Max. 60 % RH
<b>FOOTPRINT (Requested working area)</b>	Requested working area with display panel mounted Min: 2080 x 2460 x 2205 mm Max: 2080 x 2460 x 2355 mm
<b>PERFORMANCE DATA</b>	
<b>MAXIMUM BUILD VOLUME</b>	130 x 90 x 65 mm
<b>SPEED</b>	Dispensing 50 mm/s; Quick-Travel: 100 mm/s
<b>DISPENSING PRESSURE</b>	Max. 8 Bar
<b>MINIMAL STRAND DIMENSION</b>	+/- 10 µm – material and technology dependent

All the data/information are subject to change without notice

### Instruments Compatibility

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



#### POWER SUPPLY

Power supply cabinet (1): 230 VAC, 50Hz, 10A / 110VAC, 60 Hz, 10A

Power supply instrument (2): 230 VAC, 50Hz, 6.3A / 110VAC, 60 Hz, 10A

#### COMPRESSED AIR SUPPLY

Pressure input (3): 0.6 MPa – 1Mpa

Displacement: 108 l/min

EXHAUST AIRFLOW 338 CFM (574 CMH)

#### OPERATIONAL PERFORMANCE (FOR INDOOR USE ONLY)

Laboratory environment temperature range: 15°C to 35°C

Environment humidity: 20% - 60% relative humidity

#### WEIGHT

Ca. 600 kg