

| <u>Specification for Electrospinning Unit</u> |
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| <p>Spinning Arrangement</p> <ol style="list-style-type: none"> 1. Horizontal and vertical 2. Co-Spinning 3. Under solvent spinning |
| <p>High Voltage power supply</p> <ol style="list-style-type: none"> 1. Input voltage: 230-240VAC+/- 50 Hz 2. Output voltage: 0 to 30 kV or up to 40 KV 3. Output current: 0 to 0.4mA or up to 0.5mA 4. Voltage Regulation: 0.1 KVresolution 5. In-Built Circuit Protection |
| <p>Syringe pump: independent control dual channelwith</p> <ol style="list-style-type: none"> 1. speed and flow rate adjustable) 2. Dual Syringe attachment 3. Acceptable syringe volume:5 µl-20ml 4. Flow rate resolution: 0.1 5. Flow rate: 0.1 µl/min to 3ml/min or up to 10 ml/min 6. Volume, Time and Flow control |
| <p>Collector: Stationary collector/Plate Collector: Length=220mm X Width=150mm</p> <ol style="list-style-type: none"> 1. Drum collector D =85 mm,L=165 mm, 2. Disc Collector D=85 mm, L=10 mm 3. Rod Collector: D =6 mm,L=100 mm, and D =4mm, L =100mm (For blood vessel graft) 4. Adjustable speed of rotating drum(100 to 5000 RPM) 5. Fiber alignment |
| <p>Spinneret</p> <ol style="list-style-type: none"> 1. Co-axial nozzle (Stainlesssteel arrangement with fixedneedle geometry) 2. Multi-nozzle (4 changeable nozzle geometry) 3. Single Nozzle |
| <p>Control panel</p> <ol style="list-style-type: none"> 1. Emergency stop 2. Main ON/OFF 3. Exhaust speed regulator |
| <p>Operational Control</p> <ol style="list-style-type: none"> 1. Dell laptop with Intel i5 core processor, SSD, 8GB RAM with original window and pre-installedsoftware required 2. HP 1TB USB drivers 3. HP1005 Printer 4. License software to connect the machine with Laptop |
| <p>Spinning chamber</p> <ol style="list-style-type: none"> 1. Digital Temperature and Humiditydisplay. 2. Ambient temperature control up to 60 °C 3. Exhaust fan with HEPA filter to remove the harmful chemical/vapors 4. Illuminating Light: 10 W LED tube 5. UV Light: 10 watts 6. Computer control interface 7. Glass window 8. Inert gas purging facility 9. Epoxy coated for electrical insulation |
| <p>Accessories</p> <ol style="list-style-type: none"> 1. Standard syringes with needles (3ml,5ml and 20ml) 2 box each 2. Spare Needle 3. Glass Syringe with tube connector 4. Standard spinning samples 5. Allen Key set 6. Screw driver set 7. Insulation pad/Foot pad 8. Teflon sheet to avoid the solutionspillage 9. Chemical resistance tube (5mtrs) forvertical electrospinning 10. Tube connectors 11. UPS for power supply |

Note: User list with contact details and model supplied to the user

- **Warranty period: 3 years**