

Aseptic Liquid Filling & Washing Line Technical Brochure

Turnkey Sterile Processing Solutions Under Grade A Laminar Flow

Technical Document - GentlemanPharmed Pharmaceutical Engineering Division

Category: Technical Brochure

Detailed operational specifications for ultrasonic vial washing tunnels, depyrogenation ovens, ceramic pump liqui

SPECIFICATIONS & VALIDATION OVERVIEW:

- Contact Material: Stainless Steel AISI 316L (Mirror polished Ra <= 0.4 um)
- Non-contact Structure: Stainless Steel AISI 304 (Scotch-Brite Satin Finish)
- Automation & HMI: Siemens S7-1500 / Allen-Bradley ControlLogix PLC with 21 CFR Part 11 Audit Trail
- Documentation Package: Full DQ, IQ, OQ, PQ Protocols, 3.1 Mill Certificates, Calibration Records
- Compliance Standards: WHO-GMP, USFDA 21 CFR Part 211, EU-GMP Annex 1, ISO 9001:2015, CE

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