TECHNICAL DATA SHEET

Coating Booth SB 2900

Conformal coating booth for electronics protective coatings

PRODUCT DESCRIPTION

The SB 2900 is a coating booth for applying protective coatings (conformal coatings) to populated printed circuit board assemblies (PCBAs). It is also suitable for a wide range of one- and two-component materials in electronics.

The ergonomic design reduces operator fatigue and allows precise control of the position and orientation of the spray gun. The restricted chamber opening and downward extraction limit overspray, material loss and exposure to solvent vapours.

A rotating, hands-free table enables a complete 360° visual inspection. The booth can optionally be equipped with explosion-proof UV and/or white light illumination.



Coating Booth SB 2900 with turntable and spray gun

FEATURES

- Ergonomic design to reduce operator fatigue and allow precise spray control
- Three-stage filtration system with exhaust plenum; extraction at 0.35 m³/s (750 cfm)
- Fully explosion-proof electrical equipment with ATEX-compliant fittings
- Optional explosion-proof white and UV lighting with electronic ballast for immediate readiness
- Work-area interior surfaces in stainless steel with PTFE (Teflon) coating, easy to clean
- Removable front panels for easy maintenance and changing of material pots
- Front control panel for easy operation
- HVLP spray gun (DeVilbiss) as standard equipment
- Turntable for 360° visual inspection, semi-automatic or manual
- Supplied with a complete set of primary, secondary and tertiary filters
- CE certified; hand-built in Farnborough (UK)

OPTIONS AND ACCESSORIES

- Material supply: 2 × 10-litre stainless steel pressure pots with quick-release valves and piping (replaces the 1-litre suction-fed spray gun); one pot for material, one for purge solvent
- Lighting: explosion-proof UV inspection light and/or white light, each with hand switch
- Accessories: filtered drying cabinets, UV inspection and rework booth, hygrometer (humidity/temperature), dehumidifier

TECHNICAL SPECIFICATIONS

Dimensions unit (W × D × H)	1085 mm × 800 mm × 1850 mm (height adjustable)
Internal chamber (W × D × H)	850 mm × 750 mm × 580 mm
Turntable	Semi-automatic, perforated: 350 mm × 350 mm; or manual: Ø 203 mm
Construction	Aluminium profile frame on adjustable feet; plenum of 1.5 mm aluminium sheet; spray chamber of 1.5 mm stainless steel; outer panels of plastic-coated steel
Extraction	Minimum airflow 0.35 m³/s (750 cfm); exhaust spigot Ø 250 mm × 75 mm; external exhaust duct with flame-proof motor
Compressed air	550 kPa (80 psi) or 5.3 bar, < 18 cfm; clean and dry
Power supply	220–240 V, single phase, 5 A; additional 5 A for the lighting circuit
Spray air filtration	Three stages; air to spray gun filtered to 99.99 %
Filters	Primary, secondary and tertiary filters, easily replaceable
Material supply (standard)	1-litre suction-fed spray gun with HVLP spray gun (DeVilbiss)
Material supply (option)	2 × 10-litre stainless steel pressure pots (material and purge solvent)
Room conditions	Clean, dust-free room; max. 55 % relative humidity
Certification	CE
Manufacturer	Gen3 Systems Limited, Farnborough, Hampshire (UK)
Warranty	12 months from delivery to site

NOTES

- The unit must be connected to an exhaust system with a flame-proof motor and a minimum airflow of 0.35 m³/s (750 cfm).
- The pressure-pot system is not suitable for frequent material changes or two-component materials; the 1-litre suction-fed spray gun is intended for these.
- After coating, assemblies are transferred to the drying cabinet for curing.