DISPENSING / SAMPLING BOOTH (RLAF)

KEY FEATURES

Controlled Environment

- Provides a clean, dust-free, and controlled space for weighing, dispensing, and sampling of powders and granules.
- Ergonomic Design Stainless steel (SS 304/316) construction with smooth, rounded corners for easy cleaning and GMP compliance.(Optional)

HEPA Filtration System

- Equipped with HEPA filters (H13/H14 grade) for rapping fine airborne particles and preventing contamination.

Laminar Airflow

- Vertical or downward laminar airflow ensures continuous flushing of airborne dust away from the operator's breathing zone

Product & Environment Protection

- Ensures cross-contamination-free operations.
- Maintains ISO Class 5–8 clean air in the working zone depending on design.

Airflow Monitoring

- Equipped with airflow indicators/pressure gauges for real time monitoring.

Illumination

- Energy-efficient LED/fluorescent lights with proper lux levels inside the working zone.

Noise & Vibration Control

- Designed for low noise (<65 dB) and minimal vibration for comfortable long-duration use.

Safety Interlocks

- Sometimes provided with UV light interlocks, differential pressure alarms, and safety shutdown systems.

Compliance

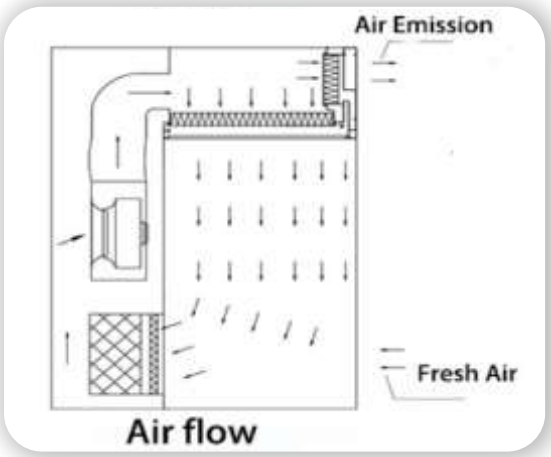
- Meets GMP, GLP, and regulatory standards of pharmaceutical, food, and chemical industries.

APPLICATION

Industry / Area	Applications	Purpose / Benefits
Pharmaceticals	Sampling & weighing of APIs and excipients	Prevents cross-contamination, ensures clean handling
Chemicals	Dispensing of hazardous or fine chemical powders	Protects operator from inhalation, maintains safety
Food & Beverages	Handling food-grade powders & additives	Maintains hygiene, prevents contamination
Biotechnology & R&D Labs	Media preparation, reagent handling, powder weighing	Ensures sterile & controlled environment
Cosmetics & Nutraceuticals	Dispensing raw cosmetic powders or herbal extracts	GMP compliance, safe & dust-free
Powder Processing units	Weighing & transferring bulk powders	Dust control, operator & product protection

OPTIONAL ADD ONS

- Type of Airflow: Vertical Laminar Air Flow with Reverse Flow at operator level
- Air Velocity: 0.45 ± 0.05 m/s (across work zone)
- Primary Filter: Pre-filter (10 µm, 90% efficiency)
- Secondary Filter: Fine filter (5 µm, 95% efficiency)
- Final Filter: HEPA Filter H13/H14 (0.3 µm, 99.97% efficiency)
- Air Recirculation: Vertical Recirculation
- Air Cleanliness: ISO Class 5 (as per ISO 14644-1)



TECHNICAL SPECIFICATION

Construction	Double walled SS 304 / SS 316
Side Walls	Double Skin filled with Rock Wool
Front Side	Transparent PVC curtains for clear visibility
HEPA Filter	EU 14 Supply/ Exhaust (99.997 down to 0.3u)
Fine Filter	EU 7 Intermediate Filter (95 % down to 5u)
Pre Filter	EU 4 Prefilter (90 % down to 10u micron)
Blower Assembly	Dynamically & statically balanced motor assembly arrangement to reduce noise level
Air Flow Circulation	Vertical recirculatory
DifferentialPressure Gauge	03 nos
Light Intensity	800-1000 Lux
Filtration	Triple Stage Filtration
Working Sizes (WxDxH) **Model No (PTE DB 801)**	2′ X 2′ X 6′, 3′ X 2′ X 6′, 3′ X 3′ X 6′ 4′ X 2′ X 6′, 4′ X 3′ X 6′, 4′ X 4′ X 6′ 6′ X 2′ X 6′, 6′ X 4′ X 6′, 6′ X 6′ X 6′
Power Supply	220 /230 Volts 50 Hz

OPTIONAL ADD ONS

- DOP/PAO test port for HEPA filter integrity testing
- Magnehelic gauge / Digital pressure indicator
- PLC-based control with touch screen HMI
- Exhaust duct connection with safe discharge system