Aviva Labs Explores Professional Spray Tan Equipment

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Aviva Labs offers an overview of the role of professional spray-tan equipment in salons, spas, mobile tanning services, and independent studios. Modern sunless tanning systems combine controlled airflow, specialized applicators, tanning solution, and proper technique to create an even cosmetic finish while helping technicians manage overspray, drying time, and product use.

Professional systems generally include a turbine or compressor, an applicator gun, a flexible hose, solution cups, filters, and adjustable controls. Each component contributes to the quality and consistency of an application. The turbine supplies airflow, while the applicator gun mixes air with tanning solution to create a fine mist across the skin.

High-volume, low-pressure systems are commonly used for professional applications. This type of system moves a larger amount of air at relatively low pressure, producing a softer spray pattern than many traditional compressed-air systems. Lower pressure can help reduce excessive mist in the surrounding workspace while allowing controlled coverage across large and small areas of the body.

Applicator gun design remains an important consideration. Needle size, nozzle shape, trigger sensitivity, solution flow, and spray-pattern controls can influence how evenly a formula is applied to the skin. A properly adjusted gun should release a consistent mist without large droplets, sudden bursts, or irregular gaps in coverage.

A round spray pattern may work well for detailed areas, while a wider pattern may support faster coverage across the torso, back, and legs. Technicians often adjust distance, angle, and application speed according to body area. Hands, feet, knees, elbows, and facial areas typically require lighter coverage and careful movement.

Airflow settings also affect application quality. Excessive airflow can increase overspray, create unnecessary noise, and make precise placement more difficult. Limited airflow can produce larger droplets or uneven distribution. Balanced settings support steady movement and allow the tanning solution to settle more evenly

across the skin.

Solution compatibility should be evaluated before routine use. Sunless tanning formulas vary in thickness, drying time, cosmetic bronzer content, fragrance, and active ingredient concentration. A thicker formula may require a different needle setting or flow adjustment than a lighter solution. Manufacturer instructions can provide useful guidance regarding compatible formulas, recommended settings, and cleaning procedures.

Workspace conditions can affect both application and cleanup. Adequate ventilation, extraction fans, bright lighting, washable flooring, protective barriers, and organized storage can help create a more controlled environment. Good lighting makes missed areas, heavy coverage, and uneven application easier to identify before the session ends.

Near the middle of an appointment, the spray tan equipment must continue to produce a stable and predictable spray pattern. Changes in airflow, sputtering, dripping, or inconsistent solution flow may indicate a blocked nozzle, a loose connection, a low solution level, a clogged filter, or dried residue inside the applicator.

Noise level can also influence equipment selection. Turbines produce varying levels of sound depending on motor design, housing, airflow output, and operating speed. Smaller studios and mobile services may place greater importance on quieter operation, while high-volume salons may prioritize durability and extended operating capacity.

Portability represents another practical factor. Mobile technicians often need lightweight systems, durable carrying cases, compact hoses, secure solution storage, and simple assembly. Studio-based professionals may prefer larger units, permanent extraction systems, dedicated storage stations, and equipment designed for frequent appointments.

Maintenance plays a significant role in long-term performance. Applicator guns generally require flushing after each working session. Nozzles, needles, cups, seals, and solution passages should be inspected regularly for buildup or damage. Cleaning procedures should follow manufacturer guidance, since sharp tools, harsh chemicals, or aggressive scrubbing can damage precision parts.

Filters also need routine inspection. A clogged air filter can reduce airflow, strain the motor, alter spray consistency, and increase operating temperatures. Replacement schedules vary based on appointment volume, environmental conditions, and system design. Hoses should remain free from cracks, loose fittings, kinks, and internal residue.

Troubleshooting often begins with basic checks. A technician may confirm the solution level, inspect the

nozzle, review flow settings, examine hose connections, and test airflow before assuming a larger mechanical problem. Running an approved cleaning solution through the gun can help determine whether a performance issue is due to equipment buildup or formula consistency.

Sanitation remains essential in professional environments. Solution cups, applicator surfaces, handles, workstations, and frequently touched components should be properly cleaned between appointments. Disposable items should be replaced as needed, while reusable accessories should follow established sanitation procedures.

Training remains just as important as equipment selection. Consistent results depend on controlled passes, appropriate overlap, steady speed, correct distance, body positioning, and careful attention to dry areas. Familiarity with the system can also help technicians recognize changes in sound, airflow, trigger response, or spray shape before a minor issue disrupts service.

Aviva Labs emphasizes that equipment should be considered one part of a complete sunless tanning process. Formula selection, technician education, skin preparation, ventilation, sanitation, routine maintenance, and client aftercare guidance all contribute to a more consistent application.

Professional tanning systems can support efficient service when equipment capabilities match appointment volume, workspace limitations, mobility requirements, and technician experience. Careful comparison of airflow, applicator controls, noise, portability, cleaning needs, replacement parts, and manufacturer support can help salons and independent professionals make practical equipment decisions without focusing on unnecessary features.

About Aviva Labs:
Aviva Labs is a biotech-rooted manufacturer specializing in sunless tanning solutions and professional education. The company develops science-based formulations for skin health, including oil- and alcohol-free products. The organization operates its own research and development lab and production facility to maintain quality and consistency.
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