

Spray Paint Booths with Exhaust Fans

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Extraction & Ventilation



Photo: San Diego Air & Space Museum Archives — Public domain — via Wikimedia Commons (23_0071015_Convair_Negative_Image_-_Paint_spray_booth_in_building_three_07-14-1943_(54221588912).jpg)

A spray paint booth is an enclosed, ventilated work area that draws overspray and solvent fumes out of the room through filters and an exhaust fan while the user spray-paints through the opening. It controls fumes, overspray and fire risk for finishing jobs.

Key Features

- Self-contained portable or fixed booths
- Water or cardboard filter capture
- Explosion-rated exhaust fans
- Interior lights for visibility
- Castors for portable versions

Typical Uses in the Workshop

- Spray paint and lacquer small components
- Apply primer, colour and clear coat safely
- Finish models and prototypes indoors
- Control solvent fumes in classrooms

Safe Operation

1. Place the item in the booth on a turntable
2. Switch on the fan before spraying
3. Use short passes and steady distance
4. Let the coat flash between layers
5. Wait until the fan clears fumes before opening

SAFETY NOTES

- Solvents are flammable - no flames or sparks near
- Only spray with the exhaust running
- Wear a respirator rated for solvent vapour
- Check the filter and fan before each session
- Dispose of soaked filters correctly

Maintenance & Consumables

- Replace filters when the fan loses flow
- Clean the booth walls and floor of overspray
- Check the fan and motor condition
- Store aerosols away from heat and ignition
- Inspect the wiring and switches yearly

Specification & Buying Notes

Match booth size to the largest part painted. Filter quality and fan capacity decide fume capture. A turntable and good lighting are worth the extra cost. Buy spare filters with the booth.