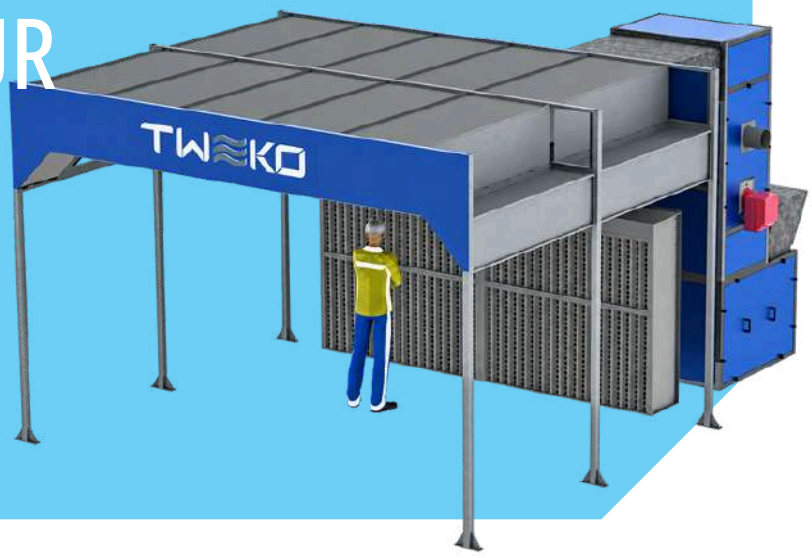
TWEKO
PAINTING EQUIPMENT FACTORY

PAINT BOOTH WITH DRY FILTRATION

EC DECLARATION OF CONFORMITY
ISO 9001 CERTIFIED

MOVES WITH YOUR PRODUCTION

TWO-LEVEL DRY FILTRATION

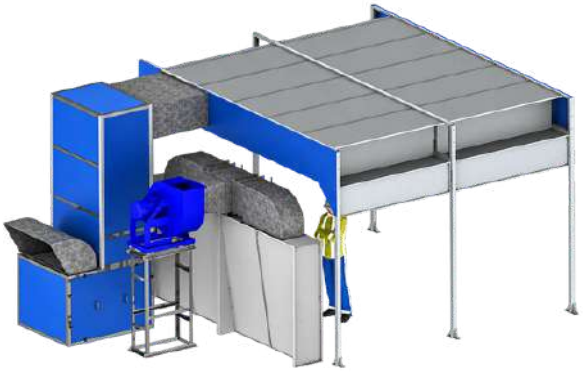


The FPS paint booth from TWEKO is a versatile equipment set for applying protective and decorative coatings to a wide range of products. It is designed for installation in any production building or workshop without foundation preparation or construction work.

The booth stands on a level floor and needs no underground air ducts. It is easy to assemble and, if required, can be moved to another room, which makes it a good fit both for upgrading existing production lines and for setting up new sites.

Exhaust air is cleaned by a two-level dry filtration system with at least 95% efficiency. Supply ventilation delivers a steady flow of clean air heated to the required temperature.

PURPOSE OF THE BOOTH



The FPS paint booth is designed for the safe, fast and high-quality application of paints and varnishes. It can be used with all types of coatings: primers, enamels, varnishes and water-based paints. The booth provides:

- **Safety**. A diagonal airflow in the working area provides the air velocity required for safe painting. The booth meets European occupational safety standards.
- **Coating quality**. Supply air passes through multi-stage EU5 filtration and is heated to the set temperature.
- **Energy efficiency**. Moderate energy consumption and low operating costs.
- **Flexible installation**. No foundation or construction work is needed, and each booth is adapted to the customer's technical requirements.
- **Easy operation**. An intuitive control panel shows the main processes visually.
- **Higher productivity** of the paint shop thanks to comfortable working conditions for the operator.

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HOW THE FILTRATION WORKS

Air from the working area is cleaned in the exhaust cabinet in two stages:

1. **Cardboard labyrinth filter**. Captures most of the paint particles.
2. **PaintStop fibreglass filter**. Completes the cleaning.

The system meets filtration class EU4 with at least 95% efficiency. The effective area of the exhaust filters ranges from 3.4 to 8.5 m^2, depending on the model.

DESIGN FEATURES

Each booth is custom-engineered by an experienced design team and adapted to the customer's premises, with all dimensions and specifications tailored accordingly.

The structure is made of galvanised steel 1.5–3.0 mm thick. The ceiling plenum with supply filters rests on support posts, and four-lamp LED luminaires built into the ceiling provide even lighting of the working area.

Depending on the configuration, supply air is heated by a stainless steel heat exchanger with a diesel or gas burner, a hot-water air heater or an electric heater. Electrical components come from leading European manufacturers, and the ventilation units are made in Ukraine. The equipment is approved by the State Labour Service of Ukraine.

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TECHNICAL SPECIFICATIONS. BASIC CONFIGURATION

Parameter	Unit	FPS-2	FPS-3	FPS-4	FPS-5	FPS-6
DIMENSIONS						
Working area (L×W×H)	m	3×3×2.5	4×4×2.5	5×4×2.5	6×4×3	6×5×3
Ceiling plenum (W×L)	m	3×2	4×2	4×2	5×2	6×2
Exhaust opening (W×H)	m	2×1.9	2×1.9	2.5×1.9	4×1.9	5×1.9
AIR EXCHANGE AND VENTILATION						
Airflow	m^3/h	6,500	8,000	9,000	13,000	16,000
Air velocity in the working area (500 mm from the exhaust filters)	m/s	0.33	0.4	0.4	0.4	0.4
Exhaust fan unit power	kW	3	4	4	5.5	2×4
Supply fan unit power	kW	3	4	4	5.5	5.5
Effective area of exhaust filters	m^2	3.4	3.4	4.25	6.8	8.5
AIR HEATING SYSTEM						
Diesel burner heat output	kW	30–60	40–85	60–118	80–160	80–160
Diesel fuel consumption*	kg/h	2.5–5.1	3.4–7.2	5.1–10	7–13	7–13
Gas burner heat output	kW	30–60	35–85	52–103	60–170	60–170
Natural gas consumption*	Sm^3/h	3.7–7.4	6.4–12.7	6.4–12.7	6.4–18	6.4–18
Hot-water air heater heat output (70/50 °C)	kW	60	84	91	120	148
Heating medium flow to the air heater (70/50 °C)	m^3/h	2.4	3.9	4	5	5.5
Electric heater power consumption	kW	18–54	18–54	23–69	30–90	40–120
ELECTRICAL						
Total power consumption (without electric heater)	kW	5.5	7.5	10	12	16
Power supply	—	3-phase / 380 V / 50 Hz				

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