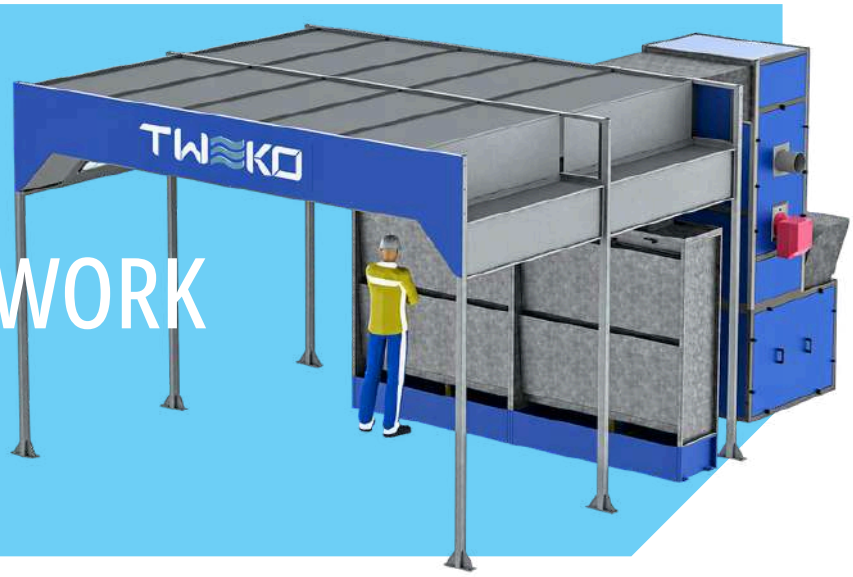
TWEKO
PAINTING EQUIPMENT FACTORY

PAINT BOOTH WITH WATER FILTRATION

EC DECLARATION OF CONFORMITY
ISO 9001 CERTIFIED

A PAINT SHOP WITHOUT CONSTRUCTION WORK

FROM 3×3 TO 7×5 METRES



The FPH paint booth from TWEKO is a complete equipment set for the safe, fast and high-quality application of protective and decorative coatings. Designed in accordance with European occupational safety requirements, it creates optimal working conditions for the operator and improves the productivity of your paint shop.

The booth is installed on any level industrial floor, with no underground air ducts, prepared foundation or construction work. If needed, it can be easily dismantled and moved to another room or production area.

Exhaust air is cleaned by a multi-stage water filtration system that captures up to 90% of paint particles, suspensions and aerosols, followed by a PaintStop filter with at least 95% efficiency. Supply ventilation delivers a steady, even flow of clean air heated to the set temperature, ensuring a consistent coating quality.

PURPOSE OF THE BOOTH

The FPH paint booth is designed for the professional application of paints and varnishes in industrial conditions. Primers, paints, enamels and varnishes can be used, including water-based coatings. The booth provides:



- **Safety**. A diagonal airflow in the working area provides the air velocity required for safe painting and effectively removes harmful vapours.
- **Coating quality**. Supply air is filtered, heated and moderately humidified.
- **Flexible installation**. No capital construction is needed; each booth is adapted to the dimensions of your premises.
- **Easy operation**. Simple controls, quick start-up and minimal maintenance time.
- **High performance**. The water filter absorbs large volumes of paint, so the booth runs longer between services than dry-filter systems.
- **Reliability**. Galvanised steel, quality components and proven Ukrainian-made ventilation units.

TWEKO
PAINTING EQUIPMENT FACTORY

+380(93) 438 49 89
8 Almatynska St., Office 207, Kyiv, Ukraine | E-mail: tweko1@gmail.com

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HOW THE FILTRATION WORKS

Contaminated air passes through four cleaning stages:

1. **Water mirrors**. Water flows evenly over the entire surface of two panels, washing away overspray.
2. **Overflows**. Air passes through artificial waterfalls inside the cabinet; paint particles mix with water and settle in the collecting tank.
3. **Spray nozzles**. Two rows of powerful nozzles create a water mist that precipitates the remaining particles.
4. **PaintStop filter**. A fibreglass filter of class EU4 completes the cleaning with at least 95% efficiency.

Water circulates in a closed loop at 300–660 l/min, 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 rigid modular frame is made of galvanised steel 1.5–3.0 mm thick, which ensures durability and resistance to aggressive environments. Supply air passes through multi-stage EU5 filtration, so dust from the room does not reach the working area. Four-lamp LED luminaires built into the ceiling provide bright, even lighting of the painting 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 from leading European manufacturers ensure uninterrupted operation, and the control panel shows the main processes visually, making operation simple and intuitive. The equipment is approved by the State Labour Service of Ukraine.

TECHNICAL SPECIFICATIONS. BASIC CONFIGURATION

Parameter	Unit	FPH-2	FPH-3	FPH-4	FPH-5	FPH-6
DIMENSIONS						
Working area (L×W×H)	m	3×3×2.5	4×4×2.5	5×4×2.5	6×4×3	7×5×3
Ceiling plenum (W×L)	m	3×2	4×2	5×2	4×4	5×4
Water screen 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 water screen)	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
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 (90/70 °C)	kW	60	84	91	120	148
Max. heating medium flow to the air heater (90/70 °C)	m^3/h	2	3	5	7	10
Electric heater power consumption	kW	18–54	18–54	23–69	30–90	40–120
WATER FILTER SYSTEM						
Water circulation	l/min	300	300	330	600	660
Total water volume in the system	l	400	400	500	800	1,000
Water pump power	kW	0.75				
ELECTRICAL						
Total power consumption (without electric heater)	kW	7.7	9.7	12.2	16.4	20.5
Power supply	—	3-phase / 380 V / 50 Hz				

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