TWEKO
PAINTING EQUIPMENT FACTORY

INDUSTRIAL PAINT AND DRYING BOOTH

EC DECLARATION OF CONFORMITY
ISO 9001 CERTIFIED

FOR LARGE INDUSTRIAL PRODUCTS

WORKING LENGTH 10–30 M



The IKFS industrial paint and drying booth is an integrated system with controlled ventilation, air filtration, heating and automatic process control. Designed in accordance with European occupational safety standards, it provides optimal working conditions for the operator and increases the productivity of the paint shop.

As standard, the booth is equipped with a programmable logic controller (PLC) and a frequency converter for the exhaust ventilation unit. This ensures precise and reliable operation in painting, flash-off, drying and cooling modes while helping to minimise electricity consumption.

The supply ventilation system delivers a continuous, uniform flow of clean air heated to the required temperature. Multi-stage EU5 filtration captures dust and airborne contaminants, while a high-efficiency exhaust system with two-stage dry EU3 filtration rapidly removes paint mist. Positive pressure in the booth prevents dust from entering the clean working area.

PURPOSE OF THE BOOTH

The IKFS series is designed for high-quality application and drying of protective and decorative coatings on large industrial products, in safe and comfortable working conditions. With working lengths from 10 to 30 m and airflow capacity of up to 150,000 m^3/h, the booth handles the complete coating cycle — from application to drying — while maintaining the temperature (16–80 °C) and process times set by the operator.

The booth can be used with primers, paints, enamels, varnishes and other coating materials, including water-based coatings. Depending on customer requirements, the air is heated by a gas or diesel burner or an electric heat exchanger.

Clean, heated supply air and positive pressure keep dust out of the working area, while automated operating modes and a uniform air velocity of 0.25 m/s help ensure consistent coating quality and faster paint shop throughput.

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

ADVANTAGES AND DESIGN FEATURES

Scalable ventilation. Depending on the booth length, it is equipped with two to five pairs of supply and exhaust ventilation units, maintaining an air velocity of 0.25 m/s across the entire working area.

Choice of heating. Air can be heated by a gas or diesel burner or by an electric heat exchanger, as required by the customer.

Robust construction. Walls are made of 80 mm sandwich panels with fire-safe insulation. The floor has two rows of gratings rated for 800 kg per wheel. Wide three-leaf swing gates allow large products to be brought in.

Bright, even lighting. Energy-saving LED corner luminaires provide good visibility for accurate inspection of coating quality.

OPTIONAL EQUIPMENT

- **Lifting platforms for painters:** safe access along the product at any height.
- **Rail transfer cart:** moves products between production areas.
- **Frequency converters:** up to 40% energy savings, lower noise.
- 100 mm sandwich panels: better insulation, outdoor installation.
- **Pneumatic painting equipment:** high-output paint sprayers.
- **LEL gas detector:** automatic protection against explosive concentrations.
- **Activated carbon filter:** removes solvent vapours from exhaust air.
- **Automatic fire suppression system:** design, installation and commissioning included.

TECHNICAL SPECIFICATIONS. BASIC CONFIGURATION

Parameter	Unit	IKFS-10	IKFS-12	IKFS-14	IKFS-18	IKFS-24	IKFS-30
OVERALL DIMENSIONS							
External dimensions of the booth (L×W×H)	m	10×5.5×4	12×6.5×4.5	14×6.5×5.5	18×7.5×5.5	24×7.5×6.5	30×7.5×6.5
Internal working area (L×W×H)	m	10×4.5×3.5	12×5×4	14×5×5	18×6×5	24×6×6	30×6×6
Personnel door (W×H)	mm	800×2000					
Entrance gate (W×H)	mm	3000×3000	3600×3500	3600×4000	4200×4000	4200×4000	4200×4500
AIRFLOW PARAMETERS							
Airflow capacity	m^3/h	40,000	52,000	60,000	90,000	120,000	150,000
Air velocity inside the booth (with workpiece)	m/s	0.25					
Air temperature (set by operator)	°C	16–80					
VENTILATION SYSTEM POWER							
Exhaust ventilation unit power	kW	2×7.5	2×7.5	2×15	3×15	4×15	5×15
Supply ventilation unit power	kW	2×7.5	2×11	2×15	3×15	4×15	5×15
THERMAL ENERGY *							
Diesel burner heat output	kW	115–310	230–620	230–620	345–930	460–1240	575–1550
Gas burner heat output	kW	95–300	190–600	190–600	285–900	380–1200	475–1500
Diesel fuel consumption	kg/h	14–26	19.2–52	19.2–52	28.8–78	38.4–104	48–130
Natural gas consumption	Sm^3/h	12.8–36	20–64	20–64	30–96	40–128	50–160
Electric heat exchanger power consumption	kW	72–240	90–300	120–360	180–540	240–720	300–900
ELECTRICITY CONSUMPTION							
Total electrical consumption (without electric heat exchanger)	kW	28	39	64	80	107	134
Power supply	—	3 phases / 380 V / 50 Hz					

* Energy consumption depends on the outdoor temperature

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