

MOBILE SPRAY BOOTH



A VERSATILE AND MOBILE SOLUTION

FOR PAINTING APPLICATIONS



The MKF mobile spray booth is designed for coating large workpieces where efficient use of paint shop floor space is essential.

Its key feature is a **mobile retractable enclosure** that occupies minimal space when not in use. The booth can be fully extended and prepared for operation within **2–3 minutes**, while workpieces can be loaded into the working area using an overhead crane, forklift, transport trolley or other suitable handling equipment.

This design makes the MKF particularly suitable for production areas where the same floor space must be used for different operations.

PURPOSE OF THE BOOTH

The MKF series provides controlled airflow for professional coating application on large workpieces.

Paint mist and overspray generated during spraying are continuously removed from the working area by a stable and uniform airflow. TWEKO's engineered exhaust ventilation system helps maintain suitable working conditions for painters and operators while also promoting faster drying of the applied coating.

Contaminated exhaust air is purified by a **two-stage dry filtration system** with an efficiency of at least **95%**, corresponding to **EU4 filtration class**. The first stage uses a **cardboard labyrinth filter** to capture the majority of paint particles, while the second stage uses a **PaintStop fibreglass filter** for additional purification before the air is discharged.

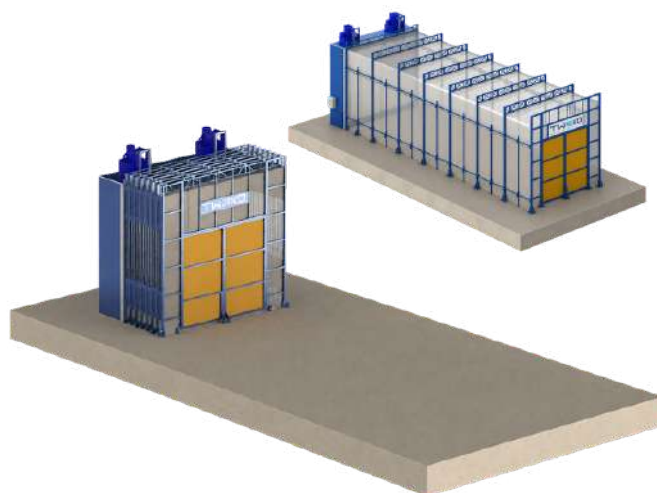
KEY ADVANTAGES

- Retractable mobile enclosure;
- Efficient use of production floor space;
- Fast deployment — ready for operation within 2–3 minutes;
- Flexible workpiece loading by crane, forklift or trolley;
- Effective removal and filtration of paint overspray;
- Improved working conditions for painters and operators;
- Installation on a level industrial floor without a special foundation;
- Designed in accordance with applicable European and occupational safety requirements.

DESIGNED FOR THE APPLICATION OF VARIOUS PRIMERS, PAINTS, ENAMELS AND VARNISHES

During operation, the booth maintains **positive pressure**, helping to isolate and protect the working area from contaminants in the surrounding environment. This prevents dust from settling on freshly coated surfaces and helps keep finished products clean.

At the same time, paint mist and overspray are contained within the enclosure and removed by the exhaust ventilation and filtration system, preventing their release into the surrounding production area.



MAIN COMPONENTS

- **Enclosure** - a retractable portal-type welded structure covered with a special wear-resistant, non-combustible fabric. The enclosure is mounted on wheels and can be extended or folded manually by two workers, without the use of special equipment, in approximately three minutes.
- **Entrance doors** - hinged, double-leaf swing doors with integrated supply-air filter cassettes. The filters are rated **G4 / EU4** and capture more than **90% of contaminants**.
- **Control panel with automation system** - a set of automation and electrical components used to select operating modes and control the synchronised operation of all system components. The control panel includes **pressure sensors, a time relay, main power switch, lighting switch and operating-hours counter**.
- **Ventilation system** - a specially engineered exhaust system with ventilation ducts connected to the exhaust unit and positioned at the end wall of the booth. The centrifugal ventilation unit and electric motor are mounted on a vibration-damping frame and can be installed behind the booth's end wall or outside the building. The system is equipped with quick-change filter frames.
- **Lighting** - LED luminaires installed vertically on the walls and horizontally on the ceiling to provide uniform illumination of the working area.
- **Filtration system** - a two-stage system for exhaust-air purification:
 1. cardboard labyrinth filters with a pigment-holding capacity of up to **16 kg/m²** and an efficiency of **87%**;
 2. synthetic fibreglass filters with a pigment-holding capacity of up to **3.5 kg/m²** and an efficiency of **91%**.

TECHNICAL SPECIFICATIONS. BASIC CONFIGURATION

Item	Unit	MKF-6	MKF-9	MKF-11	MKF-13	MKF-15
OVERALL DIMENSIONS						
External booth dimensions in unfolded state (L×W×H)	m	8.5×4.1×3.1	10.5×4.6×4.1	13×5.1×5.1	15×5.1×5.1	17.1×5.1×5.1
External booth dimensions in folded state (L×W×H)	m	3.3×4.1×3.1	3.6×4.6×4.1	3.7×5.1×5.1	4×5.1×5.1	4×5.1×5.1
Internal working area dimensions (L×W×H)	m	6.4×4×3	8.5×4.5×4	10.8×5×5	12.9×5×5	15×5×5
Double-panel zippered doors (W×H)	mm	3000×2800	3500×3500	4000×4000	4000×4000	4000×4000
AIR EXCHANGE PARAMETERS						
Air capacity	m ³ /h	12000	18000	23000	23000	26000
Air velocity inside the booth	m/s	0.28	0.28	0.26	0.26	0.28
VENTILATION SYSTEM POWER						
Ventilation unit power	kW	4	5.5	7.5	7.5	11
POWER CONSUMPTION						
Power supply		3 phases / 380 V / 50 Hz				
Total power consumption	kW	4.5	6	8	8	12

