

SPRAY BOOTH



PROFESSIONAL PAINTING EQUIPMENT

FOR A WIDE RANGE OF COATINGS



The TWEKO KF series spray booth is professional industrial equipment designed for high-quality coating application in controlled and safe working conditions, in accordance with [European occupational safety standards](#). It provides optimal working conditions for the operator and increases the efficiency of the paint shop.

The booth combines balanced supply and exhaust ventilation, multi-stage [EU5 supply-air filtration](#), two-stage dry [EU3 exhaust-air filtration](#), and automated process control based on a [programmable logic controller \(PLC\)](#). The enclosure is made of sandwich panels with fire-safe mineral wool insulation, and airtight doors with perimeter seals help maintain stable temperatures inside the booth. Explosion-proof LED lighting provides [at least 800 lux](#), allowing accurate inspection of coating quality.

PURPOSE OF THE BOOTH

The KF series spray booth is designed for the application of protective and decorative coatings to products made of [metal](#), [wood](#), [plastic](#) and [other materials](#). It can be used with a wide range of coating materials, including primers, paints, enamels, varnishes and [water-based coatings](#).

Balanced ventilation creates a continuous flow of clean air through the working area. Positive pressure helps prevent dust and other airborne contaminants from entering the booth, while the exhaust and filtration system removes paint mist and overspray from the working zone and prevents it from spreading into the surrounding environment. This helps protect freshly coated surfaces and maintain [consistent coating quality](#).

Depending on the required configuration, the air preparation system uses a four-pass stainless steel heat exchanger with a [diesel or gas burner](#), [hot-water coils](#) or [electric heaters](#) to maintain the required process temperature. The PLC automatically runs the [full cycle — painting, purging and cooling](#) — according to the time and temperature settings entered by the operator. Pressure sensors monitor filter loading, duct airflow and fan operation, while temperature sensors, an operating-hours counter and a timer complete the control panel. In painting mode, the air in the booth is fully renewed, preventing the build-up of explosive concentrations of flammable vapours.

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The KF series is suitable for industrial paint shops where consistent coating quality, clean working conditions, operator safety and efficient production are essential. Automated operating modes and balanced ventilation also help **reduce energy consumption**.



OPTIONAL EQUIPMENTS

- **Frequency converters** - smooth fan speed control; **up to 40% lower power consumption**, reduced starting currents, balanced airflow and lower noise.
- **100 mm sandwich panels** - improved thermal insulation; suitable for **outdoor installation**.
- **Pneumatic painting equipment** - high-output double-action paint sprayers.
- **LEL gas detector** - at 20–50% of the lower explosive limit, cuts compressed air to the spray gun and heating and switches ventilation to full power; normal operation resumes automatically.
- **Activated carbon exhaust filter** - removes solvent vapours and residual paint mist from exhaust air.
- **Automatic fire suppression system** - including design, installation and commissioning.
- **Water-wash filtration instead of dry filtration** - captures **up to 90% of paint solids**, with a final Paint Stop filter (EU4, ≥95%); effective for high paint volumes.
- **Active water floor** - water flowing under the floor grates captures overspray; up to three sections.

TECHNICAL SPECIFICATIONS. BASIC CONFIGURATION

Item	Unit	KF-4	KF-5	KF-6
DIMENSIONS				
External booth dimensions (L × W × H)	m	4,1 × 4,3 × 3	5,1 × 5,3 × 3	6,1 × 6,3 × 3
Internal booth dimensions (L × W × H)	m	4 × 3 × 2,6	5 × 4 × 2,6	6 × 5 × 2,6
Entrance doors (W × H)	mm	2400 × 2000	2400 × 2000	2400 × 2000
AIR EXCHANGE PARAMETERS				
Airflow	m³/h	8000	9000	13000
Air velocity in working area	m/s	0,28	0,28	0,28
Air temperature (set by operator)	°C	16–24	16–24	16–24
VENTILATION SYSTEM POWER				
Exhaust ventilation unit power	kW	4	4	5,5
Supply ventilation unit power	kW	4	4	2 × 3
HEATING				
Diesel burner heat output	kW	40–85	60–118	80–160
Gas burner heat output	kW	35–85	52–103	60–170
Hot-water air heater heat output (80/70 °C)	kW	84	91	120
Max. heating water flow rate (90/70 °C)	m³/h	3,9	4	5
Diesel fuel consumption*	kg/h	3,4–7,2	5,1–10	7–13
Natural gas consumption*	Std m³/h	6,4–12,7	6,4–12,7	6,4–18
Electric heater power consumption*	kW	18–54	23–69	30–90
POWER CONSUMPTION				
Power supply		3 phases / 380 V / 50 Hz		
Total power consumption (excl. electric heater)	kW	8	10	14

* Energy consumption depends on the outdoor air temperature.

