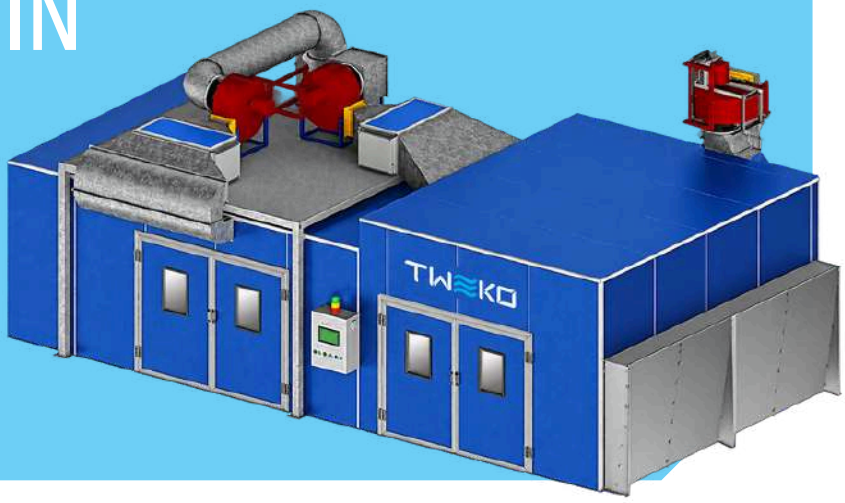
TWEKO
PAINTING EQUIPMENT FACTORY

PAINT AND DRYING COMPLEX

EC DECLARATION OF CONFORMITY
ISO 9001 CERTIFIED

PAINT AND DRY IN INDEPENDENT BOOTHS

FLAWLESS COATING QUALITY



The FSC positive-pressure paint and drying complex from TWEKO, a Ukrainian manufacturer of paint shop equipment, is designed in accordance with European occupational safety standards. It provides optimal working conditions for the operator, improves the quality of the coating and increases the productivity of your paint shop.

Clean air is the basis of a flawless finish. The supply ventilation system with multi-stage EU5 filtration delivers a continuous, uniform flow of air heated to the set temperature. The filters effectively capture dust and fine particles that could enter the booth from the surrounding environment, ensuring maximum air purity in the coating area.

Positive pressure, created by precisely calculated operation of the supply and exhaust ventilation, prevents dust from entering the clean zone from outside. At the same time, a high-efficiency exhaust cabinet with two-stage dry EU3 filtration quickly removes paint mist and cleans the exhaust air during painting.

PURPOSE OF THE BOOTH

The FSC complex is designed to create an optimal microclimate for applying and drying paint coatings on products made of wood, glass, plastic, metal and other materials.

The main advantage of the FSC is two booths that can operate independently of each other, each with its own ventilation, heating and lighting:

- **Paint booth** (4 m long, 16–24 °C) — for applying the coating, with supply and exhaust ventilation, positive pressure and an exhaust cabinet built into the side wall.
- **Drying booth** (6 m long, 16–30 °C) — for drying the coating, with its own exhaust ventilation unit, ceiling filters and heat source.

The booths share a common wall with a sliding door (1200 × 2000 mm), so products are moved directly from the paint booth to the drying booth. Combining both booths in a single functional complex significantly increases the speed and quality of painting, delivering a flawless finish with minimal time spent.

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ADVANTAGES AND DESIGN FEATURES

- **No pit required**. The ACC-2.5 exhaust cabinet is built into the side wall of the paint booth, so the complex is installed on any level floor.
- **Ventilation and filtration**. The paint booth has supply ventilation and an exhaust cabinet; the drying booth has its own exhaust unit. Both booths come with a full set of pre-filters, supply and exhaust filters.
- **Pressure control**. A manual damper in the paint booth and pressure gauges in both booths.
- **Heating for each booth**: diesel or gas burner with a stainless steel heat exchanger, water air heater or electric heat exchanger.
- **Walls**: 50 mm fire-safe sandwich panels. Lighting: LED, 8 fixtures in the paint booth and 4 in the drying booth.
- **Single control panel** with automation. The equipment is approved by the State Labour Service of Ukraine.

OPTIONAL EQUIPMENT

- **Frequency converters**: smooth airflow control, up to 40% electricity savings, lower noise and longer motor life.
- **100 mm sandwich panels**: better heat retention; allow outdoor installation.
- **Pneumatic painting equipment**: professional double-action spray units for most coating materials.
- **Gas detector**: when solvent vapours reach a hazardous level, it automatically stops spraying and heating and switches ventilation to full power.
- **Activated carbon unit**: additional cleaning of exhaust air from solvent vapours.
- **Automatic fire suppression system**, including design and installation.
- **Water filtration instead of dry**: captures up to 90% of paint particles; recommended for high paint consumption.
- **Active water floor**: captures overspray under the floor grating.

TECHNICAL SPECIFICATIONS. BASIC CONFIGURATION

Parameter*	Unit	Paint booth	Drying booth
DIMENSIONS			
External dimensions of the complex (L × W × H)	m	10.2 × 5.5 × 3	
Internal booth dimensions (L × W × H)	m	4 × 4 × 2.6	6 × 4 × 2.6
Entrance doors (W × H)	mm	2400 × 2000	2400 × 2000
Sliding connecting door between booths (W × H)	mm	1200 × 2000	
PERFORMANCE			
Airflow capacity	m³/h	8,000	6,000
Temperature (set by the operator)	°C	16–24	16–30
Air velocity inside the booth	m/s	0.25	–
VENTILATION			
Exhaust ventilation unit power	kW	4	3
Supply ventilation unit power	kW	4	–
AIR HEATING**			
Diesel burner heat output	kW	60–118	30–60
Gas burner heat output	kW	52–103	30–60
Water air heater heat output (at 70/50 °C)	kW	91	60
Diesel fuel consumption	kg/h	5.1–10	2.5–5.1
Natural gas consumption	Sm³/h	6.4–12.7	3.7–7.4
Maximum heating medium flow to the air heater (at 90/70 °C)	m³/h	4	2.4
Electric heat exchanger power consumption	kW	23–69	18–54
ELECTRICITY			
Power consumption (without electric heat exchanger)	kW	12.5	5
Power supply	–	3-phase, 380 V, 50 Hz	

* Specifications refer to the basic configuration. For the full scope of delivery, please contact our sales manager.
** Energy consumption depends on the outdoor air temperature.

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