TWEKO
PAINTING EQUIPMENT FACTORY

DRY-FILTER EXTRACTION WALL

EC DECLARATION OF CONFORMITY
ISO 9001 CERTIFIED

SPACE-SAVING SOLUTION

FOR YOUR PAINT SHOP



The ASS-Comp dry-filter extraction wall by TWEKO creates safe and comfortable working conditions in the paint shop. It is designed for surface preparation and application of paints and coatings on wood, metal, plastic and other products. No site preparation is needed: just connect the exhaust ducts, and the wall can be installed in almost any room.

Exhaust air is cleaned by a two-stage dry filtration system with at least 95% efficiency, filtration class EU4. The first stage is a cardboard labyrinth filter that captures most of the paint particles and holds 5–20 kg of paint per m^2. The second stage is a PaintStop-type fiberglass filter that holds about 3.5 kg/m^2. Actual holding capacity depends on the type of paint.

The compact design allows the wall to be built into a building wall or a paint booth, saving floor space in the paint shop. Several walls can be joined into a single extraction line. The ASS-Comp-4 and ASS-Comp-5 models are two joined sections with an extraction zone of 4 m and 5 m wide, for large products.

PURPOSE OF THE BOOTH

ASS-Comp extraction walls are designed for the paint shops of furniture workshops and factories, picture-frame workshops, light industry enterprises and metal fabrication shops. They are also suitable for any other production where overspray must be contained and the air cleaned during painting. The walls are used for surface preparation and for applying paints and coatings to products made of wood, metal and plastic.

Model Range

The series includes four models. ASS-Comp-2 and ASS-Comp-2.5 are single sections 2 m and 2.5 m wide. ASS-Comp-4 and ASS-Comp-5 are two joined sections with one control panel. All models are 2.1 m high and only 0.6 m deep. Airflow ranges from 6,500 to 16,000 m^3/h, and effective filter area from 3.8 to 9.6 m^2.

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

Typical Applications

- **New paint shop**. The wall is installed in an existing room without site preparation. Only exhaust ducts need to be connected.
- **Modernization of an existing booth**. The wall can be designed to fit an existing paint booth and replace its exhaust section without rebuilding the booth.
- **Large products**. Several walls can be joined into one extraction line. The ASS-Comp-4 and ASS-Comp-5 models provide an extraction zone 4 m and 5 m wide.
- **Workshops without a three-phase supply**. With the optional frequency converter, the wall can be connected to a 230 V household power supply.

Operating Principle

A centrifugal medium-pressure fan draws air through the working zone at 0.25–0.4 m/s, measured 500 mm from the filters. Air carrying overspray passes the cardboard labyrinth filter first, then the fiberglass filter, and is discharged outside through the exhaust ducts. The ventilation unit can be mounted on the wall next to the extraction wall or placed on the floor to the left or right, depending on the room layout.

As the filters load with paint, the optional frequency converter lets you adjust fan speed to maintain the required air velocity.

Key Advantages

- **Compact size:** built into the walls of the room or a paint booth.
- **Modernization of existing booths:** the wall can be designed to fit an existing paint booth without changing its structure.
- **Modular design:** quick installation, easy maintenance, several walls can be joined into one line.
- **Demountable version on request:** allows the customer to install the equipment on site without our crew.
- **Durability:** made of galvanized steel, 1.5–3.0 mm thick.
- **Safety:** approved for use in Ukraine by the State Labour Service. Spark-proof ventilation unit.
- **Reliable ventilation:** centrifugal medium-pressure fan from a leading Ukrainian manufacturer, or a specific fan brand on request.
- **Complete documentation:** full set of drawings and instructions for setup and operation.

TECHNICAL SPECIFICATIONS. BASIC CONFIGURATION

Parameter	Unit	ASS-Comp-2	ASS-Comp-2.5	ASS-Comp-4	ASS-Comp-5
DIMENSIONS					
Overall dimensions (L×W×H)	m	2 × 0.6 × 2.1	2.5 × 0.6 × 2.1	4 (2 × 2) × 0.6 × 2.1	5 (2.5 × 2.5) × 0.6 × 2.1
Extraction zone dimensions (W×H)	m	2 × 2	2.5 × 2	4 (2 × 2) × 2	5 (2.5 × 2.5) × 2
Effective filter area	m^2	3.8	4.8	7.6	9.6
AIR EXCHANGE					
Airflow capacity	m^3/h	6,500	8,000	13,000	16,000
Air velocity in the working zone (500 mm from filters)	m/s	0.25–0.4	0.25–0.4	0.25–0.4	0.25–0.4
ELECTRICITY					
Motor power	kW	3	4	2 × 3	2 × 4
Power supply	—	3 phase, 380 V, 50 Hz			