

Use and Maintenance Manual



Filtering Paint Station FPS-1; FPS-2

Manufacturer:**KLIMAWENT S.A.****81-571 Gdynia; ul. Chwaszczyńska 194****phone 58 629 64 80; 58 771 43 40****phone 58 629 64 80****e-mail: klimawent@klimawent.com.pl****www.klimawent.com.pl****814S02 FPS-1 15.10.2019/EN****814S04 FPS-2 15.10.2019/EN****Contents:**

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1. Introductory Remarks

The purpose of the present Use and Maintenance Manual is to supply User with directions within the range of application, installation, start-up and the use of the **FPS filtering paint station**.

Installing, start up and operational use are exclusively admissible after getting acquainted with the contents of the Use and Maintenance Manual.

With regard to continuity of work carried on improvement of our products, we reserve for ourselves the revision possibility of the draft and technological changes improving their functional features and safety.

Construction of the **FPS** filtering paint station meets the requirements of the current state of technology as well as the safety and health assurances included in:

– **2006/42/EC Machinery Directive** of the European Parliament and of the Council of May 17th, 2006 on machinery – amending the 95/16/EC (recast) /*Journal of Laws EC L157 of 09.06.2006, page 24*/

Additionally, the appliance meets following harmonized standard:

- **EN ISO-12100:2012** – “Safety of machinery – Basic concepts, general principles for design. Risk assessment and risk reduction”

2. Application

FPS Filtering Paint Station is constructed as an appliance for capturing the mist arising during the painting of various not large elements (FPS-1) and larger elements (FPS-2).

3. Reservations of Producer

A. Manufacturer accepts no liability for any consequences following from the operational use that is in contradiction to the purpose of application.

B. Installing of any additional elements that are not belonging to the normal device structure (or accessory set) is not acceptable.

C. Do not undertake any structural changes or constructional modifications on the device on one's own.

D. Before installing check the load carrying capacity of the building structure, in places where the device shall be placed.

4. Technical Data

Table No.1 – Ventilation walls and the work table

Type	Weight [kg]
FPS-1	97
FPS-1	183
UWT	163

Table No.2a – Replaceable filters

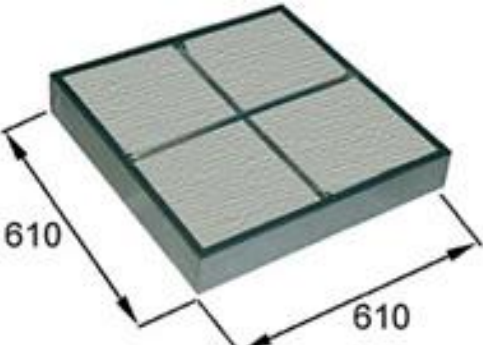
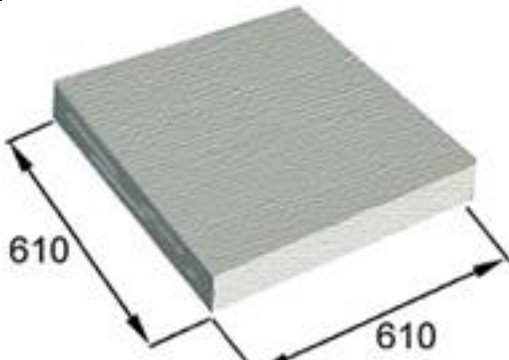
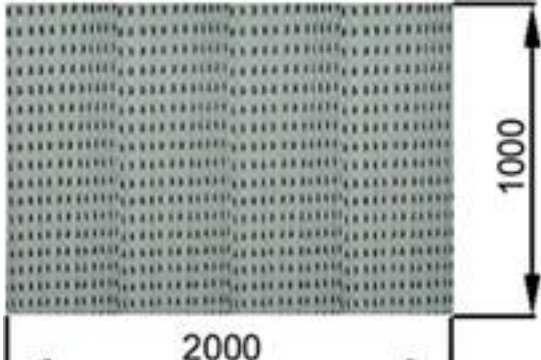
Sort of the filter	Type	Quantity
 filtration cassette with spunbond (nonwoven)	KF	3 pieces for FPS-1 6 pieces for FPS-2

Table No.2b – Replaceable filters

Sort of the filter	Type	Quantity
 <p>replaceable filtration spunbond (nonwoven) for the cassette as above</p>	WF	3 pieces for FPS-1 6 pieces for FPS-2
 <p>perforated labyrinthine filter</p>	PL	1 piece for FP-1 2 pieces for FP-2

Fans:

The paint station ought to be connected to the single fan working with one filtering paint station or cooperating with a ventilation system with one central extraction fan. As the extracted air is expelled outside the building (no recirculation), it is recommended applying a roof fan.

5. Structure and Function

FPS-1 is a one-segment ventilation wall, whereas FPS-2 consists of two segments. In each segment is located a replaceable filter cartridge, providing labyrinthine air flow.

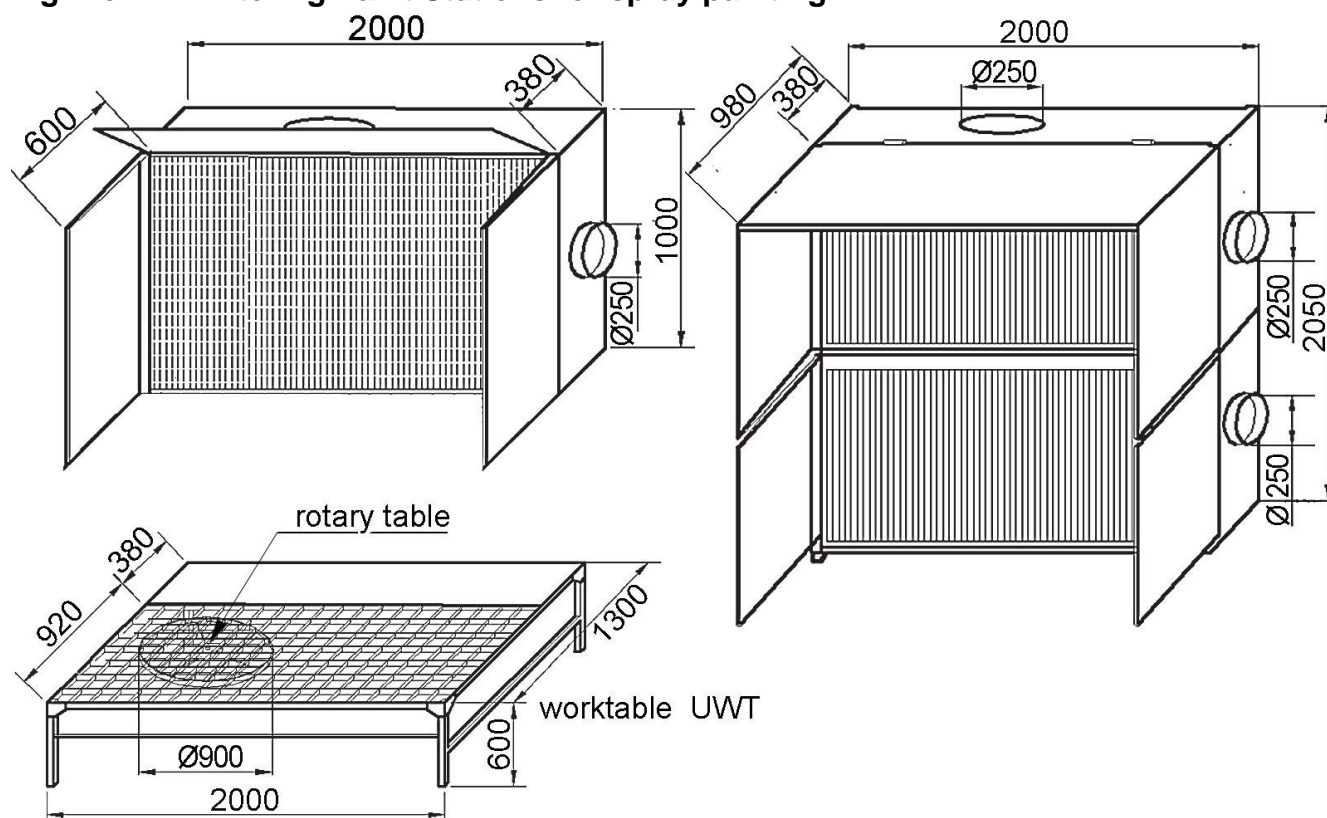
On this filter (of capture efficiency 50%) are depositing paint particles. Behind the labyrinthine filter are placed 3 spunbond filters (FPS-1) or 6 spunbond filters (FPS-2). Nonwoven filter operates as the second filtration stage, increasing the filtration efficiency up to 90%.

Each segment of the filtering station is equipped with a connection fitting piece, discharging to the ventilation ducting.

As standard, the connection piece is installed on the right side wall. The connection piece can be re-installed to the left side wall or to the upper surface of the segment. All walls are equipped with a two side swinging boards and one top swinging board.

FPS-1 paint station can be installed on a UWT work table, creating a universal ventilation post with a grate to put the painted elements on it and a rotary table.

The filtration walls should be connected to the extraction fans of flow efficiency 3000 m³/h per each segment.

**FPS-1****FPS-2****Fig. No.1 – Filtering Paint Stations for spray painting****Fig. No.2 – FPS-1, FPS-2 – Structure and dimensions**

6. Assembly and Start-up

The Filtering Paint Station ought to be installed in a place of work and connected to the extraction fan by means of flexible hoses of diameter $\varnothing 250$ mm. In order to increase the extraction efficiency, the painted element should be placed near the wall as close as possible.

It is possible to put two paint walls near one another to create a ventilation station for longer elements.

CAUTION!

Filtering Paint Stations ought to be connected to the roof fans.

7. Operational Use

In the course of operational use it is important to control the state of filters and to keep clean the worktable (this refers to FPS-1).

8. Troubleshooting Guide

Table No.3

	Problem	Possible reason	Corrective action
1.	Decrease of the intake air volume flow	The filters are polluted	Replace the filtration spunbond (nonwoven). If this do not improve the capture efficiency, additionally replace the labyrinthine filter too.
2.	Decrease of efficiency of the extraction fan, in spite of good state of the filters	The extraction fan is faulty	Examine the fan and fix the reason of failure

9. Maintenance

The steps consist in periodical replacement of filters that are gradually getting polluted, as they are absorbing the contamination and the paint particles are accumulating to larger amounts. Frequency of filters replacements should be established by experience. The decreasing flow efficiency of the extraction fan is the right moment (determinant) to replace the filters.

10. Occupational Health and Safety

Filtering Paint Station can exclusively be operated after getting acquainted with the contents of the present Use and Maintenance Manual. The appliance will not cause any hazard, provided that it is installed vertically and stably on an even floor surface.

11. Transport and Storage

The appliance must be stored in dry rooms and in areas of efficient ventilation. Do not put one device on top of another (stacking).

For the time of transport the filtering station must be placed in packages and protected against humidity, overturn and slide (displacement).

12. Terms of warranty

The period of warranty for the purchased device is indicated in the "Card of Warranty". The warranty does not comprise:

- device failures caused during the use which is in contradiction with the purpose of application and with the present Use and Maintenance Manual,
- malfunction resulting from the improper storage or incorrect maintenance.

Infringement of the Section 3 "Reservations of Producer" of the present Use and Maintenance Manual and especially modifications undertaken by User on one's own or use in contradiction with the purpose of application – shall result in the loss of warranty validity.

13. Sample of the Declaration of Conformity

Declaration of conformity EC No.

Manufacturer (eventually the authorized representative / importer):

name: **KLIMAWENT S.A.**

address: **81-571 Gdynia, Chwaszczyńska 194**

A person, authorized for issuing the technical documentation: Teodor Świrbutowicz, KLIMAWENT S.A. hereby declares that the appliance:

name: **filtering paint station**

type/model: **FPS**

serial number: year of production:

meets the requirements of the subsequent European Directives:

– **2006/42/EC Machinery Directive** of the European Parliament and of the Council of May 17th, 2006 on machinery – amending the 95/16/EC (recast) /*Journal of Laws EC L157 of 09.06.2006, page 24*/

The appliance meets following harmonized standard:

- **EN ISO-12100:2012** – “Safety of machinery – Basic concepts, general principles for design. Risk assessment and risk reduction”

.....
place, date

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signature of authorised person
District Court Gdańsk-Północ
in Gdańsk, VII Wydział Gospodarczy
of the National Register of Court
KRS 0000308902 company stock
13.779.200 zł paid in total

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name, surname, function
of the signatory
NIP: 958 159 21 35
REGON: 220631262
Bank Account: **Santander Bank Polska S.A.**
56 1500 1025 1210 2007 8845 0000

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