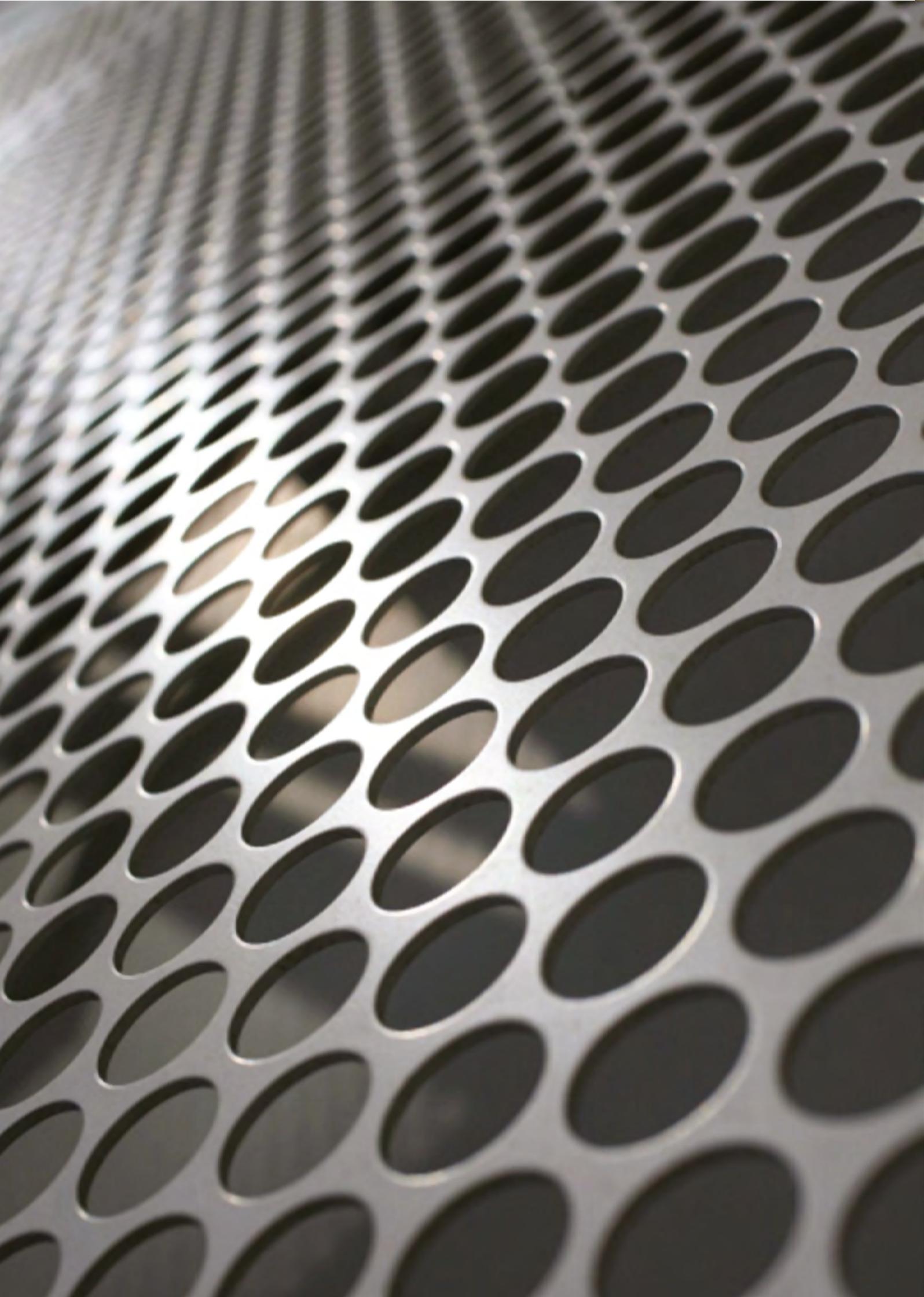


# Enviromental Ventilation Systems





# SovPlym

*“With more than 25 years in the business, we know what the customers want: Reliable quality products, quick decisions, on time delivery and local support. And that’s just what we offer.”*



## SovPlym

SovPlym is a leading manufacturer and supplier of equipment for air filtration, industrial ventilation and exhaust gas removal. Based on Swedish technology developed in Russia.

We offer top notch solutions for air pollution control inside production facilities, bringing care of employees’ health and improved work efficiency combined with environmental intelligence.

SovPlym is an international company with headquarters in St. Petersburg, Russia. Founded in 1989, SovPlym today is commercially active in several countries. Russia is the main market , with about 60% market share.



## Services

We offer a full range of services for the design, construction, equipment supply, installation, engineering setup, warranty and after sale service. We also offer turnkey solutions.

### THE REASONS TO WORK WITH US:

- Increasing demands for lower energy costs
- Demand for increased productivity
- Demand for better safety
- Increasing demand for better health
- Environmentally Sustainable Development.



## Our best argument

Happy Healthy Customers!

Working with over 30000 registered customers and the major part of them are both regular and repetitive.

# Problems and solutions

We offer our customers full range of services for the design, production, equipment supply, installation, engineering setup, warranty and after sale service. In our company, we provide full technical support for project and service organizations as well as delivery of spare parts and expendable materials.

## WE OFFER TURN-KEY SOLUTIONS FOR REMOVAL OF:

1. Welding and cutting fumes;
2. Grinding and airborne dust;
3. Oil mist;
4. Vehicle exhaust gases;
5. Soldering fumes;
6. Pharmaceutical dust.

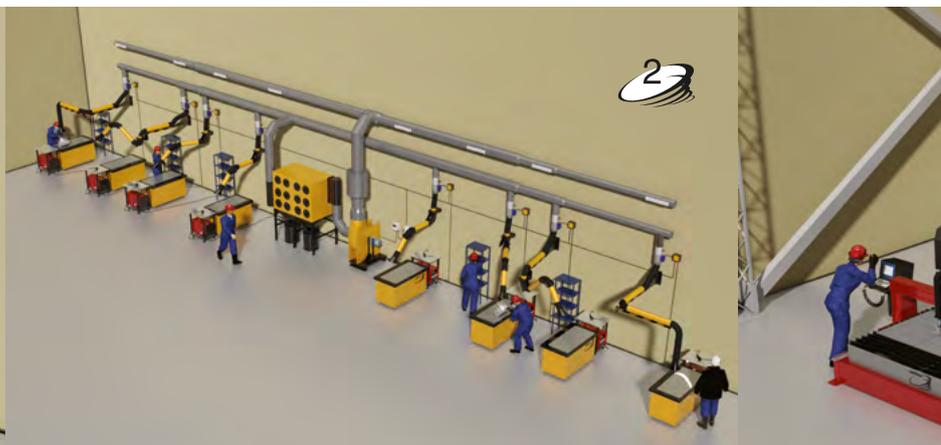
Our high-quality solutions are available for different type of industrial processes such as:

1. Welding and cutting;
2. Abrasion;
3. Mechanical metal works;
4. Grinding;
5. Soldering;
6. Painting;
7. Plastic moulding;
8. Pharmaceutical production.



## EXAMPLES OF DIFFERENT INSTALLATIONS OF SOVPLYM EQUIPMENT:

- 1 Industrial ventilation system for single welding station;





## EXTRACTION AND FILTRATION

Protecting people and the environment from harmful air pollution.



## RESOURCE MANAGEMENT

Profitable returns, instead of waste and spills.



## PRODUCTION QUALITY

A modern working environment is a must to guarantee your production quality.



## ENERGY SAVING

Optimization production out of energy consumption.



## WORKPLACE EFFICIENCY

Hi-tech equipment and monitoring systems for safe and efficient workplace.



8 working places equipped with automatic ventilation system with filtration;



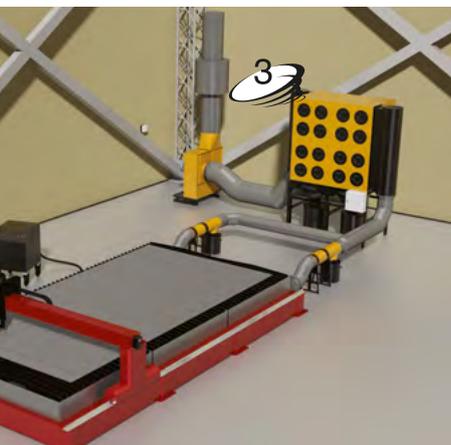
Vehicle exhaust extraction system;



Thermal cutting machine equipped with exhaust and air-filtering ventilation system;



Smoking area.



# Extraction arms

Flexible self-locking extraction arms allow you to capture any airborne pollution directly at the source.

A variety of extraction arms can be used in all sectors of industry, for example, we produce extraction arms in white or made of stainless steel to be used in food industry, pharmaceuticals or chemical industries.

“

*We offer a wide range of extraction arms with tubes made of metal or plastic. The extraction arms are available in a wide range of different lengths and can be mounted on extension arms if extra reach is needed or mounted on rails for virtually unlimited reach.”*





## Compact extraction arms LabArm

External support mechanism makes it ideal for all types of smaller dust and fume applications with working radius no further than 1,5 m. Tube diameter 75, 100, 125 mm. Recommended airflow rate 125, 250, 500 m<sup>3</sup>/h.



## Ballbearing Extraction Arm (BEA)

BEA is a customized extraction arm and comes in various models. It is a flexible extraction arm for fume, gases and oil mist contaminants with working radius up to 4m. BEA is able to extract contaminations from the levels that are higher than its bracket mounting height. Tube diameter is 160 and 200 mm. Recommended airflow rate is 800-1200 m<sup>3</sup>/h.



## Extention crane and extraction arm EasyFlex (EF)

The perfect extractor for tight spots and areas with a low ceiling. It is unmatched in its ability to reach high positions and locations that are far from the arm's mounting position. It covers large welding areas with a maximum reach of 7,6 m. Tube diameter is 160 and 200 mm. Airflow rate is up to 1000-1200 m<sup>3</sup>/h.



## Extention crane and extraction arm EC

The extension crane consists of combined extractor and suspension arm for tools. It is a proven all-in-one solution for removing fumes from the working environment and suspending your workshop equipment which will move around with you. Ideal for heavy industrial environments including welding workshops. The hose at the end of the crane drops 3m vertically, straight down. Tube diameter is 160 mm. Recommended airflow rate is 1000 m<sup>3</sup>/h.



## Work Bench Extractor (WBE)

WBE is designed for the removal of different kinds of smoke, dust and similar non-explosive air contaminants from various processes at stationary workplaces. Ideal for applications in production rooms with low ceiling. Recommended air flow rate is 800–1000 m<sup>3</sup>/h.

- maximum operating range is 2 m,
- air duct diameter is 160 mm,
- recommended installation height is 2 m.

# Filters

We offer filter solutions for many industries, based on different mechanical and electrostatic principles of filtration. Filters are specially designed to suit the various applications and requirements of dry filtration of dust, aerosols, including aerosols of oil, and coolant liquids, with particle size down to hundreds of microns.

## Mechanical filters, with replaceable cartridges



*“We provide a full range of robust and powerful mechanical filters, for cleaning polluted air from different types of dust, oil mists, welding fumes (including zinc steel welding), pharmaceutical dust, aluminum dust, stainless and galvanized steel dust, soldering smoke and spot welding. You name it - we got it! ”*



## Portable mechanical filter DCA-P series

Designed to clean air from soldering fumes and aerosols and light, short term welding processes. Capacity is:

DCA-P-200 175 m<sup>3</sup>/h, DCA-P-400 2x175 m<sup>3</sup>/h).



## Mobile mechanical filter DCA-M series

Designed to clean air from dry particles of different types of smoke and dust with low initial concentrations. Capacity is 1100 m<sup>3</sup>/h.



## Mechanical filter DCA-W series

Units are designed for air purification from the smoke generated during soldering and welding processes and dry dusts with

low initial concentration. In DCA-W filter cartridges of accumulative type are used. Capacity varies from 1100 to 1500 m<sup>3</sup>/h.



## Mechanical filter for oil mists MT series

High capacity from 2000 to 15000m<sup>3</sup>/h. MT is designed to purify the air from aerosols released at mechanical metal

processing where oil or metal working fluids are used to cool and lubricate or other similar processes.



# Automatic Self- Cleaning Filters

SovPlym's Automatic Self-Cleaning Filters assure continuous flow, low maintenance and worry-free operation.

Our automatic self-cleaning filters, dramatically reduce production time loss, require minimal operator intervention and improve flow consistency by providing a constant and highly effective filtration of large amounts of air.

These filters are designed for filtration of small, dry particles, down to 0.2 microns, normally from welding, plasma

cutting, construction material transport, production of colorants, fertilizers, food additives and pharma, with an initial concentration below 2 g/m<sup>3</sup>.

The filtration efficiency is up to 99.9%.

The fully automatic self-cleaning is initiated by a short compressed air pulse inside the cartridge, that shakes the filter and at the same time blows the particles away from the filter surface, causing them to fall down into the dust collector.



### Modular self-cleaning cartridge filter DCSC-S series

It is designed for air purification from dust and aerosols during welding processes, thermal cutting, metal abrasion process and also in the factories that

produce construction materials, fertilizers, colorants, etc. Capacity varies from 600 to 64000 m<sup>3</sup>/h, depending on the amount of modules and also on disperse structure and physical properties of dust.



### Mobile self-cleaning cartridge filter DCSC-M series

DCSC-M units are designed for non-stationary working places service. They are used for air purification from dust, welding aerosols and similar hazardous substances, which are produced during different industrial processes. DCSC-M 1

has maximum capacity of 1200 m<sup>3</sup>/h. Filter cartridge of DCSC-M1 is positioned horizontally and has filtration area of 10 to 15 m<sup>2</sup>. DCSC-M2 is equipped with built-in compressor and additional carbon filter to clean the air from gaseous components. Main filter of DCSC-M2 is positioned vertically and has filtration area of 20 m<sup>2</sup>.



### Wall mounted self-cleaning cartridge filter DCSC-W series

It is designed for air purification from aerosols and non-explosive types of dry dust, that are

produced during welding processes, gas cutting, metal mechanical processing and other similar processes. Capacity per extraction arm is 1000 m<sup>3</sup>/h.

# Stationary self-cleaning cartridge filters.

Stationary filters with automatic filter cleaning system are designed to clean dry air flows from dust and smoke, as part of the air cleaning/recirculation systems or the exhaust ventilation systems.

Cartridges are cleaned by compressed air that considerably prolongs cartridge life and minimizes filter maintenance and operational costs.

## Facts to consider, when you chose your self-cleaning filter:

-  compressed air supply to filter.
-  selection of filter cartridges depending on process and dust properties.
-  fan capacity, to provide effective air suction and cleaning, taking into account that the lower the filtration rate is (air flow velocity through the filter), the higher the cleaning efficiency.
-  floor mounted only.



## Modular self-cleaning filter DCSC-FMP series with flat cartridges

- unique design with vertical flat-shaped cartridges
- suitable for high initial dust concentration up to  $20 \text{ g/m}^3$
- models equipped with built-in fan in noise-reduction case are available
- automatic filter cleaning system
- applicable for the most industrial processes
- capacity from  $1200$  to  $8200 \text{ m}^3/\text{h}$
- filtration area from  $32$  to  $97 \text{ m}^2$ .

## Modular self-cleaning filter DCSC-SV series with vertical cartridges

This model is one of the stationary self-cleaning filters, equipped with vertical cylinder-shape cartridges. DCSC-SV units are industrial stationary filters, designed for cleaning the air from different kinds of dust, metal thermal cutting and welding aerosols, lead fumes or similar contaminant particles from production processes, welding laboratories, certification facilities and workshops. Capacity is max  $6000 \text{ m}^3/\text{h}$ , filtration area is  $80 \text{ m}^2$ .



# Dust collectors

## PU dust collectors

Dust collector can be used both as a final device in a recirculating system or as a part of an industrial ventilation system. The temperature of the air flow should not exceed +90°C.

PU Dust collectors have two air cleaning stages. Providing the filter efficiency higher than 92%, for particles with sizes that are more than 5 microns.

Baghouse, dust collectors are designed for cleaning the air from small and medium size dry, easy cleaning dust, produced at metal processing, work with bulk solids or other processes, accompanied with hazardous particles with size up to 5 microns.

## Advantages

- High performance and high filtration efficiency
- Simple, reliable and durable design
- Reusable filtering elements
- Compact dimensions and multipurpose functionality
- Low operating costs
- Saving electric energy due to purified air re-use.



*“ In electrostatic filters all filter elements are cleanable. It means that they do not need to be changed and can be used for many years. It is an absolute advantage since it significantly lowers maintenance costs. ”*

# Electrostatic Filtration

Electrostatic filters are very efficient. They clean air from particles of different types of fume, oil mist and dust. They are very popular in the welding industry due to their superior level of capturing fine particles from 5 to 0,01 microns.

The filtration efficiency will reach up to 99%. These hi-tech filters normally never need replacement, since all of their filter elements are cleanable, and will be working for many years.

Electrostatic filters are intended for long-term indoor operation under the following conditions:

- ambient air temperature is from 10 °C to 45°C;
- relative humidity is 80 % at 25°C;
- the ambient environment must be free of explosive substances and aggressive vapor or gases.

ESP-5000 electrostatic filters are designed to purify air from welding aerosols and similar dust particles (non-metallic). These filters are ideally suitable for air cleaning during welding of oiled metals.

Note: Electrostatic filters are not recommended for continuous intense welding processes as this requires frequent washing of the filter elements.

**All models are available with alarm. When the filter is full an alarm sounds and the fan stops after 20 sec. The filter must be cleaned before it can be restarted.**



### Electrostatic filter ESP series

It is designed for air purification from welding aerosols and other dry particles of different types of fume, fine dust and other hazardous substances. Its capacity varies from 800 to 4800 m<sup>3</sup>/h.



### Mobile electrostatic filter ESP-M series

It is designed for air purification from welding aerosols and other dry particles of different types of fumes, fine dusts and other hazardous substances. Its capacity is up to 1500 m<sup>3</sup>/h.

# Oilmist filtration

SovPlym offers a range of filters, specially developed to handle oil mist and emulsions.

The advanced 5-step filtration technology and design guarantee a continuous and steady airflow with superior filtration leading to a safe and mist free working environment.



## Mist Magician MM

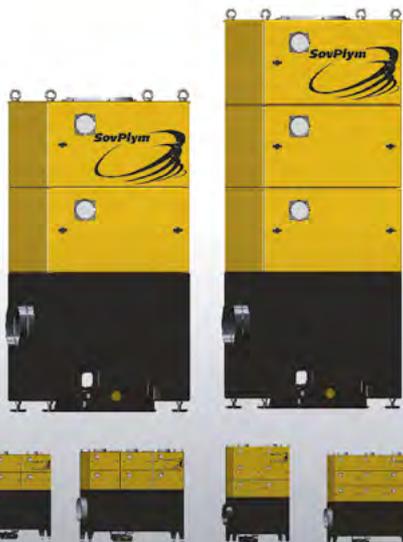
A small oil mist filter specially developed for single machine usage. Mechanical 2-stage filtration. Capacity up to 500 m<sup>3</sup>/h.



## Electrostatic filter ESPO

The filter was designed for air purification from particles of oil mist, aerosol, smoke and similar hazardous substances.

Its capacity is up to 2000 m<sup>3</sup>/h.



## Filters for oil mists MT-31, MT-32

MT-31 and MT-32 are outstanding bag filters suitable for wet and dry metal handling applications with low concentration of oil mists and aerosols. The filters have capacity up to 3000m<sup>3</sup>/h and 5-step filtration process. Mechanical filters are superior when there is a probability of finding metal particles in the oil mist.

## Filters for oil mists MT-41, MT-42

MT-41 and MT-42 with its high efficient, 6 step filtration, are among the best oil mist filters on the market. The self-draining cassettes are very efficient for applications with mists of low-viscosity oil coolants. The filter handles up to 2000 m<sup>3</sup>/h.

# “Freestanding Wall” extraction panel

SVP-5000 extraction panel is designed for stationary suction of air polluted with medium and coarse non-explosive, non-coherent dust particles. It is the most simple and effective solution for works involving machining of large-dimensioned parts in processes like:

- Grinding of welded joints;
- Cleaning of rusted surfaces;
- Finishing of parts' edges after thermal cutting.

## Advantages

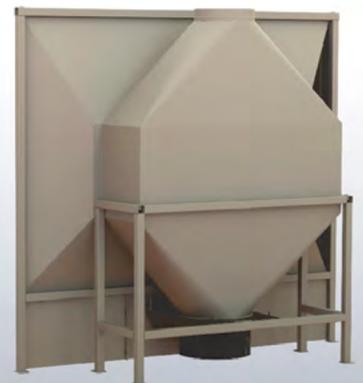
- High efficiency of dust removal due to the special shape of the extraction panel;
- Low air consumption and wide suction area;
- Coarse dust particles are separated immediately inside the extraction panel and collected in a special dust bin;
- The dust bin is easily accessible (at front side of the panel);
- The panel is freestanding and does not require additional fixtures.

## Connection to ventilation system

The stationary extraction panel is designed to operate as an ordinary extraction device. The panel must be connected to a suitable



**SVP-5000  
extraction panel**



(depending on the type of production) fan and filter unit. Recommended air capacity is 5000 m<sup>3</sup>/h.

## Efficiency

The panel effectively removes dust at the distances up to 1.5 meters (between processed part (emission source) and the center of suction screen). Operator of grinding machine must face towards the panel surface. For this purpose it is recommended to fix parts being processed at a swing arm or support.

# Direct flow cyclones

The cyclone is installed horizontally as a coarse separator directly into the ventilation channel.

We recommend installing a cyclone before the fine filters of the industrial ventilation systems, to prevent possible damages to them made by coarse particles or sparks.

 Axial air flow velocity must be 12 m/s at least.

 The temperature of air flow being processed must not exceed 110 °C

**Direct flow cyclones are characterized by up to 92 % cleaning efficiency for medium dust particles, which substantially exceeds such of conventional cyclones.**



## CP-1000/2500/4000 Direct flow cyclone

The cyclone case is made of sheet steel coated with high-quality powder paint providing reliable protection against environmental effects. The cyclone operates in horizontal position and the dust collector is mounted directly under it. Cyclone can have a capacity of 1000, 2500 or 4000 m<sup>3</sup>/h.

Cyclone can have a capacity of 1000, 2500 or 4000 m<sup>3</sup>/h.

- Up to twice more efficient than traditional cyclones of vertical type - 92% cleaning efficiency for medium dust particles.
- Can be used as preliminary spark arrester.
- No extra space is needed as the cyclone is installed directly into the ventilation system air duct.
- Has an additional floor-standing supports.
- Dust bin of large capacity - 40 l.
- Reinforced model is available for applications with abrasive dust, for example, extraction solutions for sandblasting and shotblasting chambers.



# Gas filter

## Ion-exchange filters

The Ion-exchange filters capture gas components emitted during welding or metal thermal cutting operations.

These downflow filter modules are designed to be installed as a part of the ventilation system and USED ONLY AS FINAL STAGES and installed after mechanical filters that capture dust and aerosols.



## Design features and advantages

SovPlym has developed the unique Gas Cleaner (GC) modules, based on the innovative ion-exchange techniques that effectively retain various gases from welding processes that result which have the large emissions of gas contaminants (apart from welding aerosols, i.e. fine dust).

The usage of Gas Cleaner (GC) modules as a final filtration stage, makes it possible to achieve maximum air purity even for such processes as thermal metal cutting. This solution allows to reduce the power consumption to the general ventilation system and thereby saving costs for heating and electric supply. Air capacity is up to 20000 m<sup>3</sup>/h.



# Welding tables

SovPlym welding tables are professional work stations equipped with downdraft suction panel and various types of extraction devices for welding, light grinding and other similar workshop processes.

The tables have robust design to be able to support processed parts and are suitable for any kind of welding (MMA, MIG/MAG, TIG, etc.), grinding and many other applications.

## Main features

- Higher suction efficiency due to the use of high-pressure fan;



- Low noise (integrated silencer);
- Adjustable section pressure;
- PTFE membrane cartridges can be used;
- Filter cleaning system can be activated manually or work in automatic mode;
- Aluminum suction grid prevents point welding of processed part and welding splashes to it during welding operations;
- Detachable side panels of the protection screen permit to handle parts of big sizes;
- Rotary table is available for small parts processing.



### Downdraft table WT-CCZ-1200

Downdraft tables are necessary for welding, grinding, polishing and other similar operations of metal processing as they can remove generated smoke and dust and clean air from pollutant particle size down to 0,1 micron. The tables are equipped with a suction grid top. Offered tables allow fast creation of safe workplace for welding or grinding operations. Airflow 2500 m<sup>3</sup>/h, pressure loss 400 Pa, dimensions 1010x820x1570 mm, weight 150 kg.



### Downdraft table WT-CCZ-2500

Downdraft tables are necessary for welding, grinding, polishing and other similar operations of metal processing as they can remove generated smoke and dust and clean air from pollutant particle size down to 0,1 micron. The tables are equipped with a top and back suction grids. Captured air is removed outside. Airflow 2500 m<sup>3</sup>/h, pressure loss 400 Pa, dimensions 1125x866x1825 mm, weight 153 kg.



### Welding table WT-CCB-1200

These tables are designed for installation of welded product and removal of welding aerosols, dust and similar hazardous substances from the zone of their emission with the subsequent purification. Maximum amount of purified air is 1200 m<sup>3</sup>/h. CCM table is equipped with self-cleaning filtration system

# Clean Cut Table (CCT)

SovPlym has a long experience in designing, supplying, mounting, servicing and maintaining equipment intended for both manual and automatic metal thermal cutting. You are welcome to consult us to get competent guidance and equipment information.

## CCT modular table for thermal cutting

The SovPlym extraction table is intended for metal thermal cutting of sheet metal materials and removing waste products. The table is designed for plasma, laser, gas and other types of metal cutting processes.

The extraction table has a modular design and consists of standard CCT-series sectioned extraction modules. CCT modules have different length and width parameters, thus providing the possibility to build a table of any required width and length. Filters and fans must be ordered separately, depending on table dimensions, cutting parameters and conditions

## Features and advantages:

- Smoke is immediately removed from the cutting area;
- Low air volume combined with maximal smoke removal efficiency;
- Significant cost and energy savings, due to compact dimensions of filter and ventilation equipment;
- Pneumatic "SMC" system's components
- Pneumatic cylinders do not require regular lubrication;
- Service life of pneumatic cylinders exceeds 8000 km (50 mlns of cycles);
- Modular design simplifies transportation and installation;
- Standard modules allow to build tables of various dimensions.



1. Grid for placing metal sheets, frame with panel.
2. Mesh for capture small parts.
3. Slag reservoirs.
4. Base of cutting table.



# Industrial fans

Sovplym produce wide range of medium pressure high-momentum industrial fans, that are made by the unique Swedish technology (impeller).

These fans are very durable, efficient and have low level of vibration. This allows assembling fans without additional vibration support. Rotor wheel is made of aluminum, that prevents sparks formation and increase system safety level in emergency situations such as if explosive gases get into the airflow.

*“Features: high CPA (efficiency coefficient), simplicity, easiness of installation and long lasting working period in combination with low level of noise. All SovPlym fans are individually balanced!”*

Special design of the impeller allows extraction of air, mixed with welding fume, exhaust gasses, oil aerosols, different types of dust, etc. A powerful electric motor ensures long lifetime of a fan.

## HIGH-MOMENTUM RADIAL FANS VMA, VMK, VMS

Fans designed for non-explosive air-gas environments with temperatures from  $-40^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ .

## ENERGY-SAVING FANS TEF

New serie of energy saving fans for non-explosive environment and dust concentrations less than  $0,1\text{ g/m}^3$ . Temperature of airflow should not exceed  $80^{\circ}\text{C}$ .

## FANS FSB SERIES

Specially designed for maintaining pressure in inflatable constructions.



### Industrial fans VentMax (VMA/ VMK/VMS) series

Medium pressure industrial fans. Their design allows its mounting and installing in various ways. Capacity varies from 200 to 5000  $\text{m}^3/\text{h}$ .



### Energy-saving fans TEF series

Medium and high pressure industrial fans with low energy consumption can be attached to any surface. These fans have standard design or design with a reduced noise level. Capacity is up to 11000  $\text{m}^3/\text{h}$ .



### Trampoline fan FSB

Unit is designed for maintaining pressure inside inflatable constructions and is specially designed for using in inflatable trampolines. Special construction of fan's body and rotor wheel gives increased resistance in comparison with fans VMA, VMK and VMS combined with minimal electro energy consumption and low level of noise.



# Vehicle exhaust-extracting systems

*“These products are developed to capture 100% of the toxic exhaust fumes at source... And remove it from your workshop!”*

Vehicle exhaust fumes are a hazard in vehicle repair workshops, car inspection stations and alike.

SovPlym's products and systems can be used for all types of vehicle – from cars to heavy vehicles. Our products are used in most automotive workshops, service facilities for cars, trucks, construction machinery, agricultural machinery, vehicle inspection stations, emergency service stations, military exhaust extraction, etc.

The most effective method of capturing

and removing of vehicle exhaust fumes is to capture 100% at source. This will provide a healthier and more pleasant and efficient working environment.

One of our best sellers among stationary extraction equipment is hose reels, either spring- or electric motor-driven.

Both variants offers, modern compact design, convenient and safe operation combined with quick and easy installation that reduces cost.

And a tidy and well-organized workshop.



## Spring operated hose reel ARS series

This reel is usually used with a hose of small diameter and length in case if mounting height is less than 4,5 meters.

It can be equipped with a separate fan or can be connected to the central ventilation system, consisting of several extraction units.



## Motordriven hose reel ARM/ARMF series

No physical efforts are needed to operate this reel as it is driven by a motor, which is controlled from the wall

mounted or remote panel, which is crucial when reels are mounted on big heights and heavy hoses of large diameters and lengths are used. ARMF reel is equipped with a separate fan, fixed on the frame.



## AspiRail Straight, ARST

The ARST system is the most advanced and cost-effective solution for garages, control stations or any other facility with mobile source of pollution. It can either be installed parallel to the vehicles path (door to door). Or like on photo, along the stationary workstations, allowing unlimited flexibility to attach to the vehicles being serviced.

of pollution. It can either be installed parallel to the vehicles path (door to door). Or like on photo, along the stationary workstations, allowing unlimited flexibility to attach to the vehicles being serviced.



## High temperature resistant hoses

They are used in vehicle exhaust-extraction systems. Wide range of hoses allows choose an optimal temperature limits, from 150°C to

650°C, their diameters vary from 75 to 200 mm and their lengths from 5 to 12,5 meters.



## Exhaust nozzles iGrip

Nozzles can have different forms and sizes, round and oval (for vehicles with doubled exhaust pipes). Steel round nozzles are used if there are

high temperature exhaust gases. Rubber oval nozzles prevent car painting damage. Nozzle consists of exhaust pipe fixation elements, shutter and a vent for CO testing.



*“It is essential to create healthy and safe working conditions by reducing these risks.”*

# **Emergency** Response **Exhaust Removal systems**

SovPlym have significant experience in designing and installation of exhaust extraction systems to master the specific needs fire and emergency stations. No matter the size of your station, sizes/types of vehicles or frequency of operations. We offer a complete range of products and systems, and on top of that the knowledge how to build the optimal solution.

Diesel engines produce a mixture of toxic gases and particulates. Such exhaust is now classified in the same category as asbestos, arsenic, mustard gas, alcohol and tobacco.

This is one of a firefighter's most significant cancer health risk and a serious legal liability for the fire department. It is essential to create healthy and safe working conditions by reducing these risks.

SovPlym offers a total flexibility in design and configuration to fit your specific needs. Including specialized mechanisms that make any attachment and use of the exhaust systems effortless. Quick detachment mechanisms for quick emergency exits and 100% source capture systems.



### Exhaust extraction rail system ARSL series

This fully automatic system is very reliable and easy to use.

It is designed specially for

the garages of fire stations, where vehicles have to be always ready for the immediate emergency departure. Each parking place is equipped with the separate system. Several systems can be combined into one by connecting them to the central fan. Such combined system sufficiently saves power and reduces heating expenses. This system ensures full exhaust gases extraction from the premises.



### Straight rail exhaust extraction system ARST series

The system is designed for long garages, where transport is moving inline.



### Straight rail system for diesel-electric locomotive exhaust removal

This particular system was developed for new electrical train TALGO which is now being used by Russian Railways company on

international directions. The features of the system are:

- clear passage of the train under the fume extractor arm
- minimum gap between tube and extractor's head
- no moving junctions that needs to be sealed makes the system more reliable.

# Smoking cabins “Dialogue”

Freestanding modular smoking units that easily can be installed almost anywhere. Our smoking cabins remove any odor, gas or smell of tobacco. And not only this, the warm, filtered, clean fresh air is recycled into the room to maintain the indoor temperature.

## Features

- 99.9% of harmful gases and particles are removed;
- Modern, timeless design;
- Flexible sizes, from 2 to more than 20 persons;
- Doesn't affect existing AC systems;
- One spot for smokers and remains of cigarettes;
- Optional extras, like illuminated “advertising” displays.



# Workplace rigid sheets, welding and grinding booths

“  
*Noise is often the cause of concentration loss...and consequently loss of quality and productivity.*”

Welding and grinding processes are among the noisiest operations in industrial production.

SovPlym has developed special work booths for these operations, which easily can be equipped with or connected to an air ventilation system. With our booths the craftsmen are totally shielded from the working processes and separated from conflicting working tasks.

## Benefits Include:

- Eliminate costly permanent walls;
- Separate conflicting work tasks;
- Quickly create privacy areas;
- Improve working conditions;
- Safely protect personnel on other side from welding sparks and UV Light;
- Help to control contaminants, temperature, odors, sound and light.



### Workplace rigid sheets

Can be used to separate and cover certain working areas. They can also be used to create physical barriers between a production area and the rest of the working area.



### Grinding and welding booths

Used for the noisy operations or as a shelter inside of the areas with a huge level of ambient noise.



# Industrial hoses

Sovplym offers a wide range of industrial hoses of its own production. Hose tubes are produced from modern materials such as polyurethane resin, heat-resistant tissue materials, PVC, neoprene and silicon. Among the major features of industrial hoses there can be pointed the following: high abrasion resistance; wide range of operating temperatures starting from  $-200^{\circ}\text{C}$  to  $+1100^{\circ}\text{C}$ ; bacteria/hydrolysis resistance; resistance to chemicals; possibility to use in an explosion hazardous zones.

## FITS ALMOST ANY INDUSTRIAL APPLICATION:

-  **Woodworking industry**  
Used in furniture production with wood dust and chips extraction.
-  **Glass industry**  
Abrasion resistant suction hoses for glass dust and shards transportation.
-  **Chemical industry**  
Special series of hoses for the chemical industry.
-  **Cars and aviation industry**  
Heat resistant hoses, for exhaust gas extraction.
-  **Food industry**  
Hoses according specific food regulations.



### Flexible PU hoses

Material: PU

Spring steel wire 1,5 mm

Temperature range: from -40°C to +90°C.

Short-term temperature exposure up to +125°C.



### Abrasive resistant PVC, PU hoses

Material: wall polyurethane coated fabric. Spring steel wire.

Temperature range: from -40°C to +90°C. Short-term temperature exposure up to +125°C.



### Heat resistant hoses

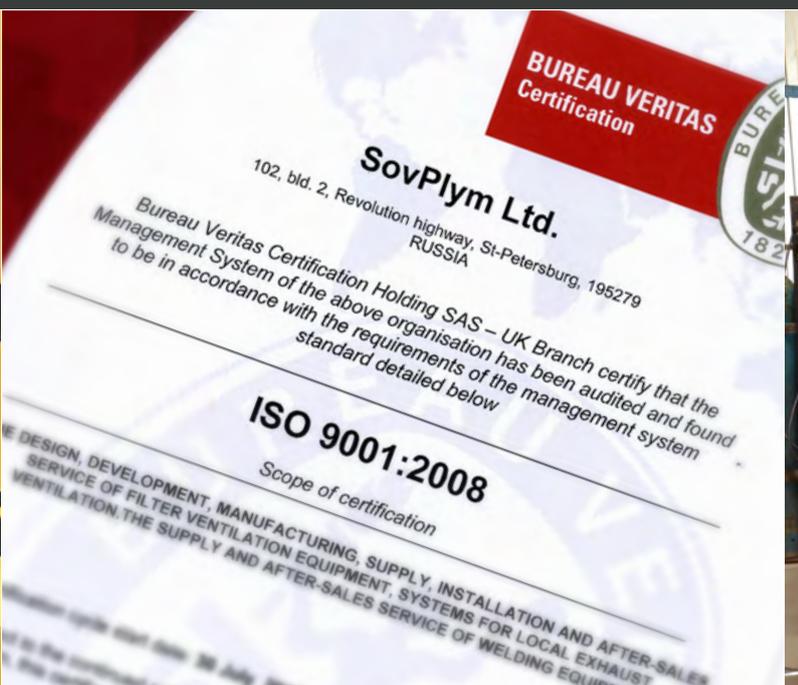
Material: wall neopren / Hypalon / silicon / fiberglass.

Spring steel wire. Clamp profile supporting spiral: galvanised steel. Temperature range: from -60°C to +1100°C.



# Quality

*“Total quality is just the beginning ...  
SovPlym is a quality driven, long term knowledge partner for the international production industry.”*





# Production

Latest technology and modern equipment development brings the full production cycle under total quality guarantee. From start, over each element of production, to final product assembly, finish control and transport.

Our more than 300 skilled craftsmen have a long record of producing durable, heavy duty products that offers reliable performance.

## Further more

We offer a full range of service for the system design, construction, equipment, installation, and engineering set up, start up support, warranty and after sale service. We provide full technical and information support for projects and service organizations as well as spare parts and equipment.

# Stainless Steel Edition

*“Specially designed for the pharmaceutical, life science, chemical and food processing industries.”*

It is our mission to supply producers with special hygienic and quality demands, with suitable air treatment systems that deliver efficiency, cost and energy savings as well as a healthy working environment.



## Mechanical filters with replaceable cartridges

Mechanical filters with replaceable cartridges – stationary or mobile! SovPlym offers self-cleaning filters with body made of stainless steel for different purposes and industry.



## Industrial fan VMA/VMK/VMS series

Industrial fan VMA/VMK/VMS series. Energy-saving fans for non-explosive environment with stainless steel housing.



## Extraction arms LabArm/BEA-M/EF/EC/WBE series

Extraction arms LabArm/BEA-M/EF/EC/WBE series. A variety of extraction arms with stainless steel tubes for different sectors of industry.

# Finally

*Sovplym is a constantly developing international company, where the ambition for Total Quality is just the beginning... and the final and best argument is Happy Healthy Customers.*



ŠKODA



PHILIP MORRIS INTERNATIONAL



CATERPILLAR®

Alcoa Alstom AutoVAZ Bosch Daewoo Ford Henkel Holcim Honda John Deere  
Joy Global Kamaz Knauf Komatsu Lafarge Lukoil Magnitogorsk MK Metalloinvest  
Nissan Novo-Lipetsk MK Philips Samsung Schlumberger Schneider electric Shell  
Severstal Siemens Tenneco Toyota VolksWagen Volvo

**JSC «SovPlym»**

Revolution Highway 102/2,

St. Petersburg, Russia

Export tel. +7 (812) 527 30 89

Export fax +7 (812) 527 30 89

Export e-mail: [export@sovplym.com](mailto:export@sovplym.com)

[www.sovplym.com](http://www.sovplym.com)