









## — PRODUCT CATALOGUE —

2018/19




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

## Legend






### Types of filter cleaning

	Manual brush cleaning	The cartridge filter's folds are gently tapped by brushes. This effectively loosens especially coarse and free-flowing dusts. The brush axle turns in two directions in the middle of the cartridge (on the raw gas side). This cleaning comes in manual, motorized and automatic motorized versions.
	Manual rotation filter cleaning	A compressed air connection on the hand-operated rotation nozzle ensures that the filter lamellas are blown uniformly clean.
	Manual standard filter cleaning	Fast, effective filter cleaning with a hand-held compressed air pistol blows the filter lamellas clean inside and out. Smoke particles come loose from the filter material and fall into the filter housing's dust collection channel.
	Manual bag filter cleaning	Filter bags fastened to a frame are freed of built-up shavings and dust particles using a hand crank. With an eccentric tappet, the crank shifts the frame by vibration, which shakes off the dirt and drops it into a collection container located below.
	Fully automatic filter cleaning	In automatic cleaning, the filter is cleared after the fan stops. On devices with an IFA test certificate, an acoustic signal indicates the need for filter cleaning.
	Pulse-jet filter cleaning	Pulse-jet cleaning clears the filter cartridges from the inside out (clean gas side). This loosens dust stuck to the exterior of the cartridges, and it falls into the collection container. The filter cartridges are automatically cleaned individually. Pulse-jet cleaning allows filter cleaning during and after suction operation with no need to shut off the extractor.

### Installation types

	Stationary	Stationary dust extractors are installed next to the processing machine or at a central location in production halls.
	Mobile	Mobile dust extractors can be installed for single-location or central extraction in production halls.
	Portable	With their compact dimensions, these dust extractors can be transported quickly and easily.

### Certificates and Seal

	Dust class M Transmittance < 0.1%. Class M dusts are considered "moderately" toxic.		Tested Safety Confirmation by an independent body that the product meets health and safety requirements.
	Dust class H Transmittance < 0.005%. Dusts of this class are considered "highly" toxic.		BG test characters The BG testing and certification bodies awarded the BG test character (formerly BG characters). This certifies that the product complies with the relevant requirements of health and safety.
	Zone 22 The area in which an explosive atmosphere is never or only briefly present during normal operation.		Product Specific Approvals For products with BG test characters with character added a special aspect was examined, eg • H3 residual dust content of 0.1 mg / m <sup>3</sup> reliably observed (wood dust)
	ATEX-compliant devices (ATmosphere EXplosive) for use in explosive areas.		Special guidelines apply when welding stainless steel. Depending on how high the chromium/nickel content of the stainless steel is, devices with an IFA W3 test certificate are needed if air is recirculated.



**Dear customers and friends of ESTA,**

Change is the most important aspect of any progress. Change means leaving the beaten track and taking new paths. This “change” is indeed challenging and demanding, but it is also motivating and rewarding: we are all currently experiencing the rapid development in the area of the 'fourth industrial revolution' (“Industry 4.0”), namely through intelligent networking and the cooperation of digital systems.

I have deliberately written “experience”, because it is not only about securing the existence of one's own company and mastering possible threats that can arise from “disruptive innovations”. Above all, it is about an agile, playful approach, which leads us to new shores and not uncommonly to unexpected possibilities with motivation, desire and even joy!

**It is you, dear customers, who ultimately profit from seizing such opportunities!**

After all, all entrepreneurial efforts that we put into digital projects are first and foremost about highly efficient production processes and thus tangible customer benefits, in addition to fascination with technical advancement.

The advantages are obvious: Clever monitoring and 'smart automated' control options create maximum transparency in real time – and thus new spheres of flexibility.

This enables us to react immediately and precisely to the rapid changes in the production process required today. In other words: Automated planning and control in real time is continuously adapted to reality . And not only that: Permanent data and error analysis creates ongoing new learning effects, which will make all our work even more efficient and also more pleasant in the future.

**ESTA also relies on these technologies.** On the one hand, we realise this corporate philosophy through our employees, on the other hand of course in our products and the technologies we use there, up to our service offer.

**A current result of this philosophy can be found on page 98 of this catalogue: our filter towers FILTOWER in the new 4.0** with integrated protocol and network functions.

**Let us advise you – you will be thrilled!**

We have, of course, brought our service unit up to the digitisation level and can now plan, execute and handle our operations even more precisely. You are the profiteer: risks of failure are minimised and reliable operation is always guaranteed.

**The integrated eco+ modules also ensure noise- and energy-saving operation.** Our products in this version are able to adjust and regulate the air volume flow in real time and on a case-by-case basis according to specific application requirements.

You see: There is a lot in motion at ESTA – as you are accustomed to from us. Do you have any questions about our devices or would you like advice on your individual application? Just give us a call or send us an e-mail and we will be happy to assist you with any concerns you may have regarding 'digital extraction technology'.

Your

Philipp Raunitschke

- Dust Extractors
- High Vacuum Extraction Units
- Welding Fume Filters
- Oil Mist Separators
- Carbon Filter
- Downdraft Tables
- Extraction Fans
- Extraction Arms
- Filter Towers
- Central Extraction Systems
- Pipe Systems

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Sound emission ratings according to DIN EN ISO 3744  
We reserve the right to make technical changes

## Device overview according to harmful substances

	Dust Extractors													High Vacuum Extraction Units					
	ESTA70 / ESTA100	TK4 / TK6 / TK2.2	OM	DUSTOMAT 100-S – 160-S	DUSTOMAT-10 / -16M	DUSTOMAT 4 / ecor	DUSTOVAC	COMPEX S-6.2	ESTMAC D	MOBEX P / ecor	Nassabscheider NA-K	Nassabscheider NA	DUSTMAC P	DUSTMAC S	Zyklonabscheider ZA	EUROSOG-W	EUROSOG-I-D	DUROSOG-W	DUROSOG-I-D
Page	14	15	16	17	18	20	23	24	25	26	28	30	31	32	33	40	41	42	43
Aluminum dust											•	•							
Cotton fibres		•	•	•										•					•
Concrete dust					•		•			•			•	•		•	•		
Chemical dust					•	•				•	•	•	•	•	•	•	•	•	•
CRP-/GRP-dusts					•	•	•			•			•	•	•	•	•		
CRP-/GRP-shavings		•	•											•		•	•		
Fumes																			
Dental dusts							•			•			•			•	•		
Pigments					•		•			•			•			•	•		
Moist dusts											•	•							
Flock dusts		•	•	•										•			•	•	
Lint				•				•						•	•		•	•	•
Foil tinsel		•	•	•				•						•	•		•	•	•
Odors																			
Spice dust					•		•			•			•			•	•		
Glass dust		•	•		•		•			•			•			•	•		
Graphite powder					•		•			•			•			•	•		
Rubber and leather dust		•	•		•		•	•		•	•	•	•	•	•	•	•		
Wood shavings					•										•		•		•
Wood dust					•	•											•		•
Plastic shavings		•	•		•		•		•	•			•	•	•	•	•		
Plastic dusts		•	•		•	•	•		•	•			•	•	•	•	•		
Sticky dust				•							•	•					•		•
Chalk					•		•			•			•	•		•	•		
Flour dust					•		•			•			•			•	•		
Metal shavings	•	•	•		•		•		•	•			•	•	•	•	•		
Metal shavings (fraught emulsion)														•					
Metal dusts	•	•	•		•	•	•		•	•	•	•	•	•	•	•	•	•	•
Mineral dusts					•		•			•			•	•		•	•		
Oil mist/aerosols																			
Paper dust					•	•	•			•			•			•	•	•	•
Scraps of paper		•	•	•										•			•	•	•
Pharmaceutical dust		•	•		•		•			•	•	•	•	•		•	•		
Soot							•			•			•	•					
Welding Fume																			
Stone dust					•		•			•			•	•		•	•		
Tabacco fibres					•			•									•	•	•
Textile fibres		•	•	•										•			•	•	•
Toner dust					•					•			•			•	•		
Cement dust					•		•			•			•	•		•	•		

Continuation →

- Dust Extractors
- High Vacuum Extraction Units
- Welding Fume Filters
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## Device overview according to harmful substances

	High Vacuum Extration Units				Welding Fume Filters								Oil Mist Extractors		Odor Filter	Hall Ventilation Systems		
	WHISPERSOG	SPÄNESOG	COMPASOG ST	CENTRASOG CVS 2.0	SRF K-10 / SRF K-15	SRF T2 / SRF T4	AIRBOX	SRF SK	KAF 70 / KAF 100	COMPASOG SR	DUSTOMAT 4	MOBEX F / <i>eco</i> <sup>®</sup>	DUSTMAC F	OILMAC	VACUMAT	FILTOWER-F	FILTOWER-D	FILTOWER-L
Page	44	45	47	48	55	58	59	60	61	62	63	64	66	70	73	96	97	97
Aluminum dust																		
Cotton fibres																		
Concrete dust	•																	
Chemical dust	•																	
CRP-/GRP-dusts	•																•	
CRP-/GRP-shavings	•																	
Fumes					•							•	•					•
Dental dusts																		
Pigments	•																•	
Moist dusts																		
Flock dusts																		
Lint																		
Foil tinsel																		
Odors															•			
Spice dust																		
Glass dust	•																	
Graphite powder																		
Rubber and leather dust	•																	
Wood shavings																		
Wood dust			•															
Plastic shavings	•																	
Plastic dusts	•			•													•	
Sticky dust																		
Chalk																	•	
Flour dust																		
Metal shavings		•																
Metal shavings (fraught emulsion)		•																
Metal dusts	•	•	•	•														
Mineral dusts	•		•															
Oil mist/aerosols														•				•
Paper dust	•		•															
Scraps of paper																		
Pharmaceutical dust	•																	
Soot																		
Welding Fume					•	•	•	•	•	•	•	•	•			•		
Stone dust																		
Tabacco fibres																		
Textile fibres																		
Toner dust	•																	
Cement dust																		

This chart shows only the most common types of dust and is not complete. It is for orientation and for preselecting the right device. If your type of dust is not listed, just contact us. We'll find a solution to your dust problems too! Service Hotline: **+49 7307 3409680-0**

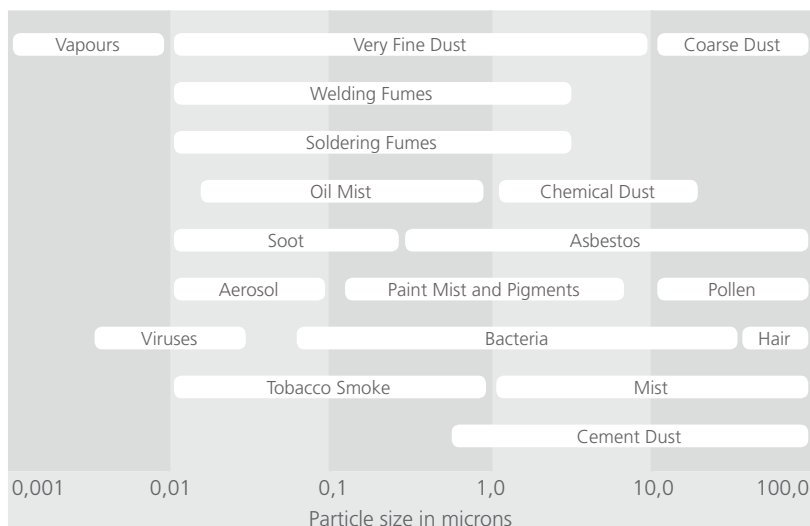
## What You Should Know About Dust

### What is dust?

Dust consists of visible and invisible, floating and fallen particles of solid material. The larger the particles, the less they float (depending on type and properties). The particle's weight plays no role in this. If the particles are very small (such as with metal dusts), the dust stays in the air continuously and does not fall.

In assessing dust particles' toxicity, both the size and the chemical composition play a decisive role.

### Grain sizes in dust



### Limit values

The OEL (Occupational Exposure Limit) is defined as the maximum concentration of a contaminant in workplace air.

On page 7, you can find an overview of the most common types of dust along with their application categories (test certificates).

### Contact with dust can be a source of illness if

“ the concentration is very high  
 “ the dust particles are small enough to penetrate through the trachea and bronchi deep into the lungs (alveoli)

“ particles' shape (such as fibres) promotes penetration  
 “ the dust contains poisonous substances

### Occupational limit value table

Suitable for dry, health hazardous, non-flammable dust types Since 01.01.2005	Applicable dust classes per DIN DIN EN 60335-2-69 Anh. AA	
	Dust Classification	Max. Transmittance
With occupational limit value > 1 mg/m <sup>3</sup>	At least <b>L</b> (M, H)	< 1 %
With occupational limit value ≥ 0,1 mg/m <sup>3</sup>	At least <b>M</b> (H)	< 0,1 %
With occupational limit value < 0,1 mg/m <sup>3</sup>	<b>H</b>	< 0,005 %
Carcinogenic substances (GefStoffV § 11, TRGS 905 bzw. TRGS 906 – Regulation for Hazardous Substances)	<b>H</b>	< 0,005 %
Asbestos (TRGS 519 - Regulation for Hazardous Substances)	<b>H</b> + suitable for use in accordance with TRGS 519	< 0,005 %
Also suitable for flammable dust types of all explosive dust classifications (with the exception of dust types with extremely low minimum ignition energy (MIE) ME < 1mJ)	At least <b>L</b> with <b>Zone 22</b> (in addition)	

Further information at <http://www.dguv.de/medien/ifa/de/prg/staubklassen/staubkl.pdf>

### General dust limit value\*

Breathable dust fraction	10 mg/m <sup>3</sup>
Alveolar dust fraction	1,25 mg/m <sup>3</sup>

\* for materials with no special toxic characteristics

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## Excerpt from the Table of Dust Types

Dust Types	MEL-Values (mg/m <sup>3</sup> )	DC*
<b>Aluminium</b> (as metall)	<b>from 3 to 10</b> , depending on the task Date: 06/10	L
<b>Aluminum oxide</b>	<b>3</b> Date: 06/10	L
<b>Aluminum oxide-smoke</b>	<b>6</b> Date: **	L
<b>Barium (Ba)</b> Working with brass (copper and zinc) and diverse alloys (with silver, cadmium, chrome, beryllium, nickel), electrical industry	<b>0,5, G</b> Date: **	M
<b>Lead (Pb)</b> Casting of lead and its alloys, production of ammunition and lead storage batteries, welding and cutting of metals containing lead and colours with a torch or arc welding, steel cable production, wire drawing, diamond grinding, shooting range	<b>0,1, G</b> Date: 02/07	H
<b>Cadmium (Cd)</b> Cadmium plating of metals, steel alloys, production of welding rods, colour pigments, welding and etching of cadmium alloys, production of solar cells, plastics industry (Cd as stabilizer) carcinogenic	<b>from 0,03 to 0,015, G</b> Date: **	H
<b>Chrome (Cr)</b> Corrosion resistant alloys (Ferrochrome), electrolytic chrome plating, production of chromate and bichromate for the textile industry, printing companies, tanneries, dyeing plants, photography, paint, chrome alloys, (arc welding) carcinogenic	<b>from 0,1 to 0,03, G</b> depending on the type of chrome and the processing method Date: 02/09	H
<b>Iron Oxide (FeO<sub>2</sub>)</b> Welding, Metalworking, in iron and ochre mines	<b>from 3 to 6</b> , depending on the task Date: 06/10	L
<b>Gypsum</b> Gypsum production	<b>6, F</b> Date: 06/10	L
<b>Graphite</b> (crystalline carbon) Fabrication of electrodes and heat resistant moulds	<b>from 3 to 10</b> depending on the task Date: 06/10	L
<b>Wood</b> Woodworking industry, joineries, carpenter shops, parquet installers	<b>5, G</b> (all,with the exp. of oak + beech) <b>2</b> (oak and beech) Date: **	L H2
<b>Diatomite, calcined</b> and diatomite smoke	<b>0,3, F</b> Date: 06/10	M
<b>Diatomite, non-calcined</b>	<b>4, G</b> Date: 06/10	L
<b>Dust containing silicic acid (SiO<sub>2</sub>)</b> Quartz quarries, sandstone, fire stone, quartzite, slate, foundries with sand moulds, porcelain, sanitary and heat resistant ceramics, high temperature ovens, glass industry, sanding of sand stone, construction industry, production of silicon carbide	<b>0,15</b>  <b>4, F</b> if SiO <sub>2</sub> content is > 4% Date: 06/10	M L

Dust Types	MEL-Values (mg/m <sup>3</sup> )	DC*
<b>Cobalt (Co)</b> Special alloys, hardened metal industry, glass and ceramics industry (enamel), cobalt plating of metals, grinding of surgical prostheses, diamond grinding, carcinogenic	<b>0,5, G</b> Date: 05/08 Minimization requirements	H
<b>Copper (smoke)</b> Working with brass (copper and zinc) and diverse alloys (with silver, cadmium, chrome, beryllium, nickel), electrical industry	<b>from 1 to 0,1</b> Date: **	M H
<b>Manganese (Mn; smoke)</b> Iron-manganese-electrodes, metallurgy, dry batteries, colours for ceramic and glass (in the form of salt)	<b>0,5, G</b> Date: 06/10	H
<b>Flour</b>	<b>4</b> Date: **	L
<b>Metal</b> Oxide (smoke or corundum) polishing of metal, sand blasting with corundum	<b>6, F</b> Date: **	L
<b>Nickel (Ni; Oxide)</b> Electrolytic nickel plating, batteries, coins and kitchen utensils, heat and corrosion resistant steel	<b>from 0,01 to 0,1</b> Date: 02/09	H
<b>PVC (Polyvinyl chloride)</b>	<b>3 F</b> Date: 06/10	L
<b>Quartz</b>	<b>0,15</b> Date: **	H
<b>Quicksilver compounds</b> carcinogenic	<b>0,1, G</b> Date: 06/10	H
<b>Grain dust</b> Agriculture, bakeries, mills, work in silos	<b>4, G</b> Date: **	L
<b>Silver</b>	<b>0,1</b> Date: 06/10	H
<b>Silver compounds, soluble</b>	<b>0,01, G</b> Date: 05/08	H
<b>Tobacco</b>	<b>6, G</b> Date: **	L
<b>Titan (Ti)</b> Titan(IV)oxide	<b>3, F</b> Date: 06/10	L
<b>Cement dust</b> Cement plants	<b>5</b> Date: 06/10	L
<b>Zinc (Zn; Oxide)</b> Galvanizing, use of brass (copper and zinc), colours and colour pigments with zinc or zinc oxides	<b>5, F</b> Date: **	L
<b>Pewter (Sn)</b> Organic and inorganic compounds pewter plating of metals, working with pewter alloys. Organic derivatives are used for the production of plastics and pesticides	<b>2, G</b> <b>0,1, G</b> Date: **	L H

\* = Dust Classification  
 \*\* no limit currently specified  
 F/G = Values referring to the breathable fraction

Additional information and occupational limit value can be found on the Internet under:  
[www.dguv.de](http://www.dguv.de) (Database for hazardous substances – GESTIS)  
[www.esta.com/en/knowledge/dust](http://www.esta.com/en/knowledge/dust)

You may already know?

**ESTA is the acronym for “Elektro-Staub-Absauggeräte” (Electric Dust Extraction Equipment).**

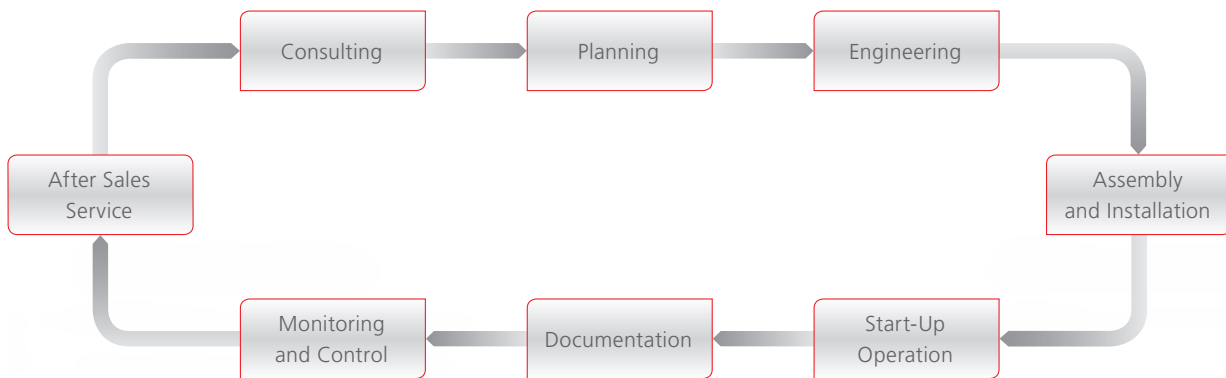
For over 45 years, we have offered a broad spectrum of innovative products and custom solutions in the field of extraction technology.

**The product range covers**

- » Mobile Dust Extractors
- » Fixed Extraction Systems
- » High Vacuum Extraction Units
- » Welding Fume Filter
- » Oil Mist Separators
- » Odor Filters
- » Extraction Tables/Fans
- » Extraction Arms
- » Central Extraction Systems
- » Filter Towers
- » Pipe Systems
- » Accessories

Every application has its own requirements. The quality of our products and consultation is based on decades of experience. Get all the benefits of ESTA 360° service:

- » Over 45 years of expertise
- » An innovation leader engaged in continuous development
- » Advice and planning from the best-trained sales staff
- » Short delivery times
- » Trouble-free device installation by our production staff and installation team
- » Comprehensive support throughout product life
- » Own switch cabinet construction
- » Large high-bay storage



### The benefits to you:

Our stringent quality criteria make for clearly structured work procedures, process orientation and continuous development. This lets us keep pace with our customers' needs at all times. ESTA stands for an innovative spirit, a commitment to quality, and responsibility towards employees, society and the environment. Our commitment is reflected in numerous awards and certifications.

### Awards, Certificates and Memberships

#### Products and production

" ISO 9001:2008 certification – certified quality management system per DIN EN ISO 9001:2015

" Manufacturing facility inspection certificate – Industrial vacuum cleaners and dust extractors

" Membership:

- Blue Competence – Verband Deutscher Maschinen- und Anlagenbau
- Einkaufsbüro Deutscher Eisenhändler GmbH purchasing office



Learn more?

## Human resources / Personnel

- " Member of the Initiative Fair Company 2016
- " Social Involvement 2014 – Caritas and the Baden-Württemberg ministry of finance and business
- " Training Ace 2012 – German youth business award
- " MAX Award – "Training Company for 2010" in the Neu Ulm district
- " 2010 award for prevention achievement in health and occupational safety
- " Training Plus certificate 2015 – volunteer inspectors at ESTA
- " Training partnership with WiSS (Senden Business School)

## Cooperation partners

- " Partner in the "Donau-Iller" sheltered workshop
- " Chamber of industry and commerce (IHK)
- " German Auslandshandelskammer (AHK)
- " University of Ulm
- " Hochschule Neu-Ulm – University of applied sciences
- " University of Stuttgart
- " Steinbeis-Institut
- " Wirtschaftsschule Senden



# Dust Extractors

For ultimate flexibility in extracting and filtering dust laden air

ESTA 70/ESTA 100

COMPEX

TK/TK-2.2

ESTMAC D **NEW**

OM

MOBEX P/*eco*<sup>+</sup> **NEW**

DUSTOMAT S

NA-K/NA

DUSTOMAT-10/16 M

DUSTMAC P and S

DUSTOMAT 4 / *eco*<sup>+</sup>

Zyklone ZA

DUSTOVAC

## Industry Applications

- » Aircraft Industry
- » Automotive Repair Shops
- » Blasting Cabinets
- » Chemical Industry
- » Construction Industry
- » Dental Labs
- » Electronics Industry
- » Furniture Industry
- » Glass Production
- » Graphite Processing
- » Laboratories
- » Leather Processing
- » Machine Building Industry
- » Metalworking Industry
- » Model Building
- » Natural and Man Made Stone Processing (Stone Masons)
- » Paper Manufacturing
- » Pharmaceutical Industry
- » Plastics Processing
- » Precision Mechanical Work
- » Printing Industry
- » Recycling-Companies
- » Sandblasting Shops
- » Sawmills
- » Schools
- » Shoe Manufacturers
- » Steel Construction
- » Textile and Flocking Industry
- » Woodworking Companies



## Test Certificates



## Introduction and Product Overview

### Introduction

Dust extractors play a crucial role near processing machines and in production halls. With the right type of filter, nearly all types of shavings and dusts can be separated. Dust extraction is done directly through the device's connection piece or through capture elements such as exhaust hoods or extraction arms.



### Product overview

The **ESTA 70** and **ESTA 100** small dust extractors are designed for small dust quantities in tight spaces. They are intended for occasional use.

Small dust extractors in the **TK** and **OM series** have a manually cleanable bag filter. They are mainly placed under processing machines or workbenches.

Mobile dust extractors of the serie **DUSTOMAT** are more economical than a central system. They are recommended when extraction points frequently change. Their compact design makes them smooth-running and flexible to use. This class includes the **DUSTOMAT-10** and **16 M.**

The mobile dust extractors **DUSTOMAT S** were specifically designed for the extraction of sticky and fibrous dust.

If several locations require extraction at the same time, but the flexibility of a mobile dust extractor is crucial, the powerful devices in the **DUSTOMAT 4 series** are the ideal solution. These are now also available in the new, efficient **eco+** version.

# Dust Extractors

## Introduction and Product Overview

The dry dust extractors of the **ESTMAC D**-series are suitable as compact and inexpensive extraction solutions for the lower to medium performance segment. The units extract dry and free-flowing dust and offer a wide range of applications for many industries.

**COMPEX** and **MOBEX** compact dust extractors are developed for professional dust extraction. The devices have automatic filter cleaning and can be used in continuous operation. The MOBEX range is now also available in the new, more efficient **eco+** version.

**NA-K / NA** wet separators are especially good for extracting flying sparks or sticky dusts. These devices perform filtration through a water bath. For extracting explosive aluminium dusts, we also offer wet separators in specially tested designs.

The **DUSTMAC** series contains high-performance dust extractors that can extract from several machines at the same time through a pipe system.

**DUSTMAC** systems have a modular design, which allows later system expansion, if necessary.

The stationary **Cyclone Separator ZA** will be installed in front of the actual filter unit, for the pre-separation of dry, pourable dust.



### Easy to operate and maintain

What all these devices have in common is that they are easy to operate and maintain. This lets you focus on your work – not on extraction.

The detachable dust collection drawer and ESTA's tiltable filter housings guarantee trouble-free disposal of collected dust material. Clear, ergonomically arranged control elements allow safe, simple handling.



## Advantages that Pay Off



### Flexible use

Smooth-turning rollers help move ESTA mobile dust extractors to their desired location, ensuring flexible application. Mobile undercarriages are available for small and compact dust extractors. Various filter media and filter-cleaning systems allow use in nearly any application or industry. For adapting the devices optimally to local conditions, many versions are available:

- » Custom voltages
- » Capacitative sensors
- » Exhaust outlet
- » Activated carbon filters
- » Special filters
- » Pre-separators
- » Special paint treatments
- » ... and much more



### Quality and expertise

Air technology design based on decades of experience, the latest technical knowledge and scientific evaluation of empirical data are the reasons our dust extractors are ever more innovative. Investments in this area stand up to every audit.

### Quality workmanship

The high quality our customers demand ensures our dust extractors last a long time. We assure this quality standard through:

- » Highly qualified employees
- » Internal device inspection and final inspections
- » Audited production facilities
- » External device test certificates from DEKRA, IFA, etc.
- » Production certified per DIN EN ISO 9001:2008



### A comprehensive range of accessories

So that our dust extractors can be used effectively at any extraction point, we offer a complete range of accessories:

Such as:

- » Cyclonic separators
- » Spark pre-separators
- » Pipe pre-separator
- » Hoods and extraction arms
- » Pipes, hoses and connectors

### Operating costs

Cleanable permanent filter cartridges, precisely adapted cleaning methods and components made for continuous operation minimize failure, equipment and replacement part costs.

Productivity and economy both improve, and ESTA has one more satisfied customer.

### On-site installation

From consultation to on-site installation. We design tailor-made solutions and build them, too – the customer gets one-stop shopping.

Excellent project planning and implementation are the basis for reliable, well-functioning extraction systems.



# Dust Extractors

## Mini Dust Collectors

### ESTA 70 / ESTA 100



Mini dust collector ESTA 70

#### Application Range

- » Extraction of individual work-stations in industry and trade
- » For occasional use in little amounts of dust
- » Grinding and buffing shops of precious stones
- » Mechanical workshops
- » Metalworking companies
- » Repair shops
- » Jewellery making shops

#### Special Versions

- » Filter material for fine dusts
- » Motors in three phase or alternating current
- » Custom paint finish



#### Ideal for

- Metal dust
- Metal shavings
- Jewelry dust



ESTA 100 connected to a belt sanding machine

## ESTA PLUS

#### Special Features

- » Stationary but compact enough to move around if necessary

#### Your Benefits

- » Small space requirement due to compact design
- » Very easy to operate
- » Very low operating costs
- » Low maintenance

Data dependent on equipment type

#### Technical Data

Model		ESTA 70	ESTA 100
Max. Airflow	m <sup>3</sup> /h	700	1.000
Intake diameter	mm	70	100
Max. negative pressure	Pa	1.000	1.000
Voltage	V	400	400
Motor	kW	0.55	0.55
Motor speed	1/min	2.800	2.800
Dimensions (L/W/H)	mm	320 × 320 × 660	420 × 420 × 850
Weight	kg	25	35
Sound emission	dB(A)	71	76
<b>Order Number</b>		<b>11.071</b>	<b>11.101</b>

## Mini Dust Collectors TK and TK 2.2



Mini dust collector TK

### Application Range

- » Extraction of individual workstations in industry and trade
- » For direct extraction of grinding, milling, and deburring
- » For occasional use in little amounts of dust
- » Mechanical workshops
- » Metalworking companies

### Special Versions

- » High efficiency filter materials for very fine dust
- » Motors in three phase or alternating current
- » Mobile unit with casters
- » Sound dampening muffler
- » Custom paint finish
- » Filtration unit only, without motor
- » Equipped with a turbine blower for applications requiring very high vacuum power (TK-2.2)



#### Ideal for

- Metal dust
- Metal shavings
- Plastic shavings



Mini dust collector TK connected to a deburring machine

**ESTAPLUS**

### Special Features

- » Cleanable, durable bag filter dust class M
- » Heavy duty dust collection drawer

### Your Benefits

- » Small space requirement due to compact design
- » Easy to handle
- » Low operating costs due to cleanable filter bag
- » Low maintenance

Data dependent on equipment type

### Technical Data

Model		TK-4	TK-6	TK-2.2
Max. Airflow	m <sup>3</sup> /h	300	450	300
Intake diameter	mm	60	80	50
Max. negative pressure	Pa	1.400	1.400	21.000
Voltage	V	400	400	400
Motor	kW	0.55	0.55	2.2
Motor speed	1/min	2.800	2.800	2.800
Dimensions (L/W/H)	mm	400 x 400 x 590	400 x 400 x 590	830 x 460 x 655
Overall depth	mm	600	600	900
Weight	kg	45	30	106
Sound emission	dB(A)	68	68	75
<b>Order Number</b>		<b>31.041</b>	<b>31.061</b>	<b>41.033</b>

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## Mini Dust Collectors OM



Mini dust collector OM

### Application Range

- » Intermittent or continuous duty use with moderate quantities of dust
- » Electronics industry
- » Metalworking industry
- » Surface finishing technology
- » Machine building



### Ideal for

- Metal dust
- Metal shavings
- Plastic dust

### Special Versions

- » High efficiency filter material for very fine dust – also available with certification for dust classification M
- » Motors in three phase or alternating current
- » Custom paint finish
- » Water pre-separator for spark generating applications
- » Mobile unit with casters
- » Sound dampening muffler



OM-8 connected to a belt sanding machine

**ESTA PLUS**

### Special Features

- » Cleanable, durable bag filter
- » Heavy duty dust drawer

### Your Benefits

- » Suitable for nearly all types of dust
- » Versatile in its use
- » Cleanable long life filter
- » Low operating costs due to cleanable filter bag
- » Small space requirement due to compact design

Data dependent on equipment type

### Technical Data

Model		OM-8	OM-10	OM-12
Max. Airflow	m <sup>3</sup> /h	500	600	800
Intake diameter	mm	80	100	150
Height of intake connection	mm	300	300	300
Max. negative pressure	Pa	1.600	1.500	1.800
Voltage	V	400	400	400
Motor	kW	0.55	0.55	1.10
Dimensions (L/W/H)	mm	550 × 550 × 1.120	550 × 550 × 1.120	550 × 550 × 1.120
Overall depth	mm	670	670	670
Weight	kg	65	65	70
Sound emission	dB(A)	65	66	72
<b>Order Number</b>		<b>21.081</b>	<b>21.101</b>	<b>21.122</b>

## Mobile Dust Extractors *DUSTOMAT S Series*

### Application Range

- » Specialized dust extractor for sticky dust and dust containing long fibres
- » Textile and flocking industry



#### Ideal for

- Flock dusts
- Foil tinsel
- Sticky dust
- Textile fibres
- Cotton dust



DUSTOMAT S



DUSTOMAT 160-S in OEM-version for dust extraction on a manual flocking workstation

**ESTA PLUS**

### Special Features

- » Fabric filter element with primary paper filter bag

### Your Benefits

- » Compact design with high extraction performance
- » Easily replaceable paper filter bag to collect the dust

Data dependent on equipment type

### Technical Data

DUSTOMAT		100-S	120-S	140-S	160-S
Max. Airflow	m <sup>3</sup> /h	720	1.060	1.330	1.850
Intake diameter	mm	100	125	140	160
Max. negative pressure	Pa	2.800	3.250	3.800	4.600
Voltage	V	230/400	400	400	400
Motor	kW	1.3/1.1*	2.2	3.0	3.0
Filter surface	m <sup>2</sup>	0.75	1	1	1
Dust collection container	l	100	200	200	200
Dimensions (L/W/H)	mm	1.075 × 530 × 1.075	1.653 × 782 × 1.353	1.653 × 782 × 1.353	1.653 × 782 × 1.373
Weight	kg	70	190	200	200
Sound emission	dB(A)	71	68	69	73

### Order Number

Model	230 V	09.500	-	-	-
Model	400 V	09.497	09.502	09.504	09.506

\* 400V-model

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# Dust Extractors

## Mobile Dust Extractors

### *DUSTOMAT-10 and -16 M*



DUSTOMAT-10

#### Application Range

- » Dust extraction of individual machines and manual workstations
- » Pourable dust types – including hazardous types of dust



#### Ideal for

- Metal shavings
- Plastic dust
- Wood shavings
- Wood dust
- Pigments
- Tabacco fibres
- Paper dust
- Metal dust
- Stone dust



DUSTOMAT-10 with accessories for floor clean up

## ESTAPLUS

#### Special Features

- » Three filter cleaning methods:
  - brush cleaning method (manually)
  - pulse jet cleaning method
  - pneumatic filter cleaning
- » Cleanable long life cartridge filters (Dust classification M)
- » Test Certificate M (DUSTOMAT-16 M)

#### Your Benefits

- » Low operating costs resulting from cleanable long life filter cartridges
- » Mobility combined with high extraction performance
- » Tilt-back filter housings for easy dust disposal
- » Suitable for most types of dust

Data dependent on equipment type

#### Technical Data

DUSTOMAT-		10	16 M
Max. Airflow	m <sup>3</sup> /h	720	1.140
Intake diameter	mm	100	125
Max. negative pressure	Pa	2.800	2.000
Voltage	V	230/400	230/400
Motor	kW	1.3/1.1*	1.3/1.1*
Filter surface	m <sup>2</sup>	3.5	9.4
Dimensions (L/W/H)	mm	1.165 × 530 × 1.636	1.150 × 670 × 1.470
Weight	kg	120	110
Sound emission	dB(A)	73	73
<b>Order Number</b>			
Manual filter cleaning	(230 V)	<b>09.201</b>	–
Pneumatic filter cleaning	(230 V)	–	<b>09.420**</b>
Manual filter cleaning	(400 V)	<b>09.215</b>	–
Pneumatic filter cleaning	(400 V)	–	<b>09.421**</b>
Pulse jet filter cleaning	(400 V)	–	<b>09.422</b>

\* 400V-model / \*\* with Test certificate M

## Mobile Dust Extractors

### *DUSTOMAT-10 through -16 M*

#### **DUSTOMAT-16 M**

– specifically designed for the stone industry



DUSTOMAT-16 M with extraction arm



DUSTOMAT-16 M is especially designed for extracting mineral dusts at changing workstations in the stone industry.

An ESTA extraction arm captures stone, graphite or concrete dust with pinpoint precision.

The DUSTOMAT-16 M mobile dust extractor comes with test certificate M for extraction of harmful dusts.



DUSTOMAT-16 M  
– direct extraction of fine stone dust



DUSTOMAT-10 in a woodworking application

#### **Accessories**

On pages 34 to 37, you will find special accessories for the DUSTOMAT line, such as extraction arms, floor cleaning sets, various nozzles, pre-separators, etc.



# Dust Extractors

## Mobile Dust Extractors *DUSTOMAT 4*

Now also available in **eco+** design!



DUSTOMAT 4

**ESTAPLUS**

### Special Features

- » Available in two power levels
- » Integrated impact separator for pre-separating coarse material and heavy particles
- » Differential pressure controlled pulse jet filter cleaning system

### Your Benefits

- » Outstanding suction power combined with outstanding mobility
- » Innovative equipment design provides efficient air flow and high efficiency, therefore reducing operation and maintenance costs
- » Extremely quiet operation, can therefore be installed directly in the working or process area
- » Mobile dust collection drawer for easy disposal
- » New innovative cabinet design, therefore providing a small footprint
- » Extremely easy to operate and maintain

### Application Range

- » Dust extraction at individual or Removal of free flowing or dry dust in individual or multiple process applications and locations
- » Suitable for a wide range of industries
- » Direct extraction from processing machines or for connection to collection hoods, extraction arms and ductwork systems

### Special Versions

- » Backup filter cassette for class H dusts
- » Optional: ATEX version
- » **NEW** Pre-separator for sparks, chips and dusts (optional)
- » Version with frequency transformer
- » Stationary version
- » Custom paint finishes
- » Other versions on request

### Technical Data

DUSTOMAT		4-10	4-24	4-24 <i>ecopower</i>
Max. Airflow	m <sup>3</sup> /h	2.000	3.300	3.500
Intake diameter	mm	160	200	200
Max. negative pressure	Pa	2.600	3.600	5.000
Voltage	V	400	400	400
Motor	kW	2,2	4,0	5,5
Filter elements	Piece	2	2	2
Filter surface	m <sup>2</sup>	10	24	24
Dust collection container l		90 (42*)	90 (42*)	90 (42*)
Dimensions (L/W/H)	mm	1.460 × 935 × 1.440	1.660 × 935 × 1.640	1.660 × 935 × 1.640
Weight	kg	230	280	310
Sound emission	dB(A)	68	70	70
<b>Order Number</b>				
Standard		<b>09730</b>	<b>09760</b>	–
Tested to dust class H		<b>09731</b>	<b>09761</b>	<b>09781</b>
ATEX version		<b>09732</b>	<b>09762</b>	<b>On request</b>
<b>eco+</b>		<b>09740</b>	<b>09770</b>	<b>09780</b>

\* with disposal box



\* registered for certification

### Ideal for

- CFK/GFK-dust
- Chemical dust
- Metal dust
- Plastic dust
- Lint



The compact design and quiet operation of the dust extraction units allow them to be installed directly in the working or process area.

## Mobile Dust Extractors

### DUSTOMAT 4 eco<sup>+</sup>

The **eco<sup>+</sup>** series combine outstanding extraction and filtration performance for maximum efficiency at low operating costs. All thanks to the new **ESTA EasyControl device control** with sophisticated sensor technology and the application of frequency converters.



#### DUSTOMAT 4 eco<sup>+</sup> design:

- » ESTA EasyControl device control
- » Frequency converter for fan motors
- » Programmable timer
- » Dust sensors in the raw gas and clean air areas for performance control as well as residual dust and filter break monitoring
- » Level measurement in collection container



**ESTA EasyControl** is a newly-developed device control that ensures energy-efficient device operation with state-of-the-art sensor technology. **Power savings of up to 50%** compared to conventional differential pressure controls are obtained through current volume flow measurement and the fully-automated regulation of the extraction performance based on the operating parameters.



**NEW**

Mobile Dust Extractors

## Pre-separator for DUSTOMAT 4



### Spark pre-separators for DUSTOMAT 4

- » The spark pre-separator is directly mounted onto the DUSTOMAT
- » Spark separation is carried out with mesh filters
- » Simple maintenance and dust disposal via side opening panel

	Order no.
DUSTOMAT 4-10 H spark pre-separator	30125
DUSTOMAT 4-10 spark pre-separator	30160
DUSTOMAT 4-24 spark pre-separator	30200



### Shavings pre-separators for DUSTOMAT 4

- » Mobile 200l collecting tank with collection sack
- » Cover with integrated baffle
- » Includes 1.5 m PU flexible inlet hose

	Order no.
DUSTOMAT 4-10 H shavings pre-separator	31125
DUSTOMAT 4-10 shavings pre-separator	31160
DUSTOMAT 4-24 shavings pre-separator	31200



### Dust pre-separators for DUSTOMAT 4

- » Mobile 200l collecting tank with collection sack
- » Cover with side inlet and cyclonic separator tube for pre-separation of coarse dust, including 1.5 m PU flexible inlet hose

	Order no.
DUSTOMAT 4-10 H dust pre-separator	32125
DUSTOMAT 4-10 dust pre-separator	32160
DUSTOMAT 4-24 dust pre-separator	32200



The sides of the spark pre-separator serve to dispose of residue.



The mobile 90 litre dust collection drawer can also be transported using a lift truck or fork lift.



The top of the filter module is hinged so as to provide convenient access for service and maintenance work.

## High vacuum dust extractor *DUSTOVAC*



DUSTOVAC

### Application Range

- » Single and multiple-placedust-extraction in industry and trade
- » Free-flowing dust
- » Dry chips



### Ideal for

- Concrete dust
- CFRP / GFRP dust
- Colour pigments
- Plastic chips
- Plastic dust
- Metal chips
- Metal dust
- Mineral dust
- Stone dust



Applying DUSTOVAC

### Special features

- » Two filter cleaning methods: manual and jet-cleaning
- » Cleanable permanent filter-cartridges (dust class M)

### Your benefits

- » High suction power for point-exact extraction with handheldpowertools
- » Low operating costs
- » Low-noise and usable in multi-layer operations
- » Patented tiltable filter housing for easy disposal of grouped goods
- » Suitable for almost all kinds of dust
- » Dust collection container 200 litres

Data dependent on equipment type

### Technical Data

DUSTOVAC		5.5	7.5	13.0
Max. Airflow	m <sup>3</sup> /h	480	850	1.100
Intake diameter	mm	70	100	125
Max. negative pressure	Pa	24.500	25.000	22.000
Voltage	V	400	400	400
Motor	kW	5.5	7.5	13.0
Filter surface	m <sup>2</sup>	9.6	9.6	9.6
Dimensions (L/W/H)	mm	1.830 × 782 × 2.040	1.830 × 782 × 2.040	1.830 × 782 × 2.040
Weight	kg	230	334	390
Sound emission	dB(A)	68	77	79

### Order Number

Manual filter cleaning	<b>83.109</b>	<b>83.103</b>	<b>83.104</b>
Pulse-jet filter cleaning	<b>83.112</b>	<b>83.107</b>	<b>83.108</b>

# Dust Extractors

## Compact Extractors COMPEX



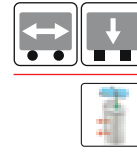
COMPEX S-6.2

### Patented Fire Protection System

The ESTA fire protection system with spark detection sensor prevents sparks that have been extracted from entering the filter chamber. If the sensor detects sparks the air-flow will be cut off instantly thereby preventing the spark from entering the filter chamber.

### Application Range

- » Continuous duty dust extraction on single and multiple workstations
- » Dental labs (with PTFE coated cartridge filters)
- » Plastics industry
- » Leather industry
- » Shoe industry

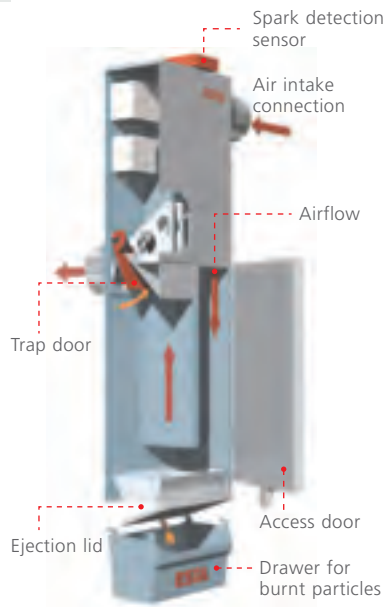


### Ideal for

- Rubber and leather dust
- Dental dust
- Lint
- Plastic dust

### Special Versions

- » Special filter materials
- » Fire protection system
- » Fire extinguishing system
- » Pre-separator



Schematic illustration of the fire protection system



COMPEX in the Shoe industry

**ESTA PLUS**

### Special Features

- » Pulse-jet filter cleaning system
- » Cleanable long life cartridge filters (Dust classification M)
- » Insertable disposal container in the drawer

### Your Benefits

- » Specifically designed for rubber, leather and plastic
- » High extraction performance
- » Cleanable long life cartridge filters
- » Low operating costs
- » Can be used in different locations as a mobile or stationary unit

Data dependent on equipment type

### Technical Data

COMPEX		S-6.2
Max. Airflow	m <sup>3</sup> /h	3.250
Intake diameter	mm	2 x 160
Max. negative pressure	Pa	2.900
Voltage	V	400
Motor	kW	4.0
Filter surface	m <sup>2</sup>	6.2
Dust collection container	l	180
Dimensions (L/W/H)	mm	1.264 x 804 x 2.220
Weight	kg	415
Type of filter		Hose
Sound emission	dB(A)	76
<b>Order Number</b>		<b>21.145</b>

## Compact dust extractor *ESTMAC D*



### Application Range

- » Single and multi-user extraction of free-flowing and dry dust
- » Suitable for many applications
- » For direct suction on processing machines
- » For connection to collection hoods, extraction arms and smaller pipe systems



### Ideal for

- Cuttings
- Metal dust
- Plastic dust
- Chipped plastics
- Dirt and chips

### Special versions/accessories

- » Afterfilter cassette (dust class H)
- » Pre-separator for sparks, chips and dust
- » Activated carbon filter
- » Special enamel
- » With tiltable power module

### Special features

- » Available in two power levels
- » Integrated impact separator for pre-separation of coarse and heavy particles
- » Cleaning by means of manual rotation nozzle
- » Potential-free input

### Benefits for you

- » Strong suction power in combination with compact utility space
- » Innovative device design ensures efficient air flow guidance, thus low operating and follow-up costs
- » Low operating noise; can, therefore, be installed directly in the working area
- » Mobile dust collection drawer for easy disposal
- » Robust processing of steel sheet for a long service life
- » High operating and maintenance friendliness

Data depending on model version

### Technical Data

ESTMAC D		1500	1800
Max. Airflow	m³/h	1.500	1.800
Max. negative pressure	Pa	2.040	2.650
Voltage	V	400	400
Motor	kW	1.1	2.2
Filter surface	m²	7.5	15
Filter elements	Piece	1	2
Dust collection container	l	40	40
Dimensions (L/W/H)	mm	650 × 710 × 1.454	650 × 710 × 1.454
Weight	kg	170	180
Sound emission	dB(A)	71	73
<b>Order Number</b>		<b>099150</b>	<b>099180</b>

## Compact Extractor *MOBEX P*

Now also  
available in  
**eco+** design!



MOBEX P-24

**ESTAPLUS**

### Special Features

- » Innovative sandwich-panel housing design
- » Pre-separation system with integrated impact separator on the raw gas inlet
- » Jet pulse cleaning
- » A new disposal system with lockable dust collection cartons (tested by the IFA)
- » Optional: Mobile version available

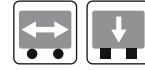
### Your Benefits

- » High suction performance
- » Low operating costs thanks to cleanable permanent filter
- » Long filter life due to a pre-separation system
- » Low operating noise thanks to a sound-insulated housing
- » Small space requirement due to compact design
- » Easy, dust-free removal of collected material through a new disposal system

Data dependent on equipment type

### Application Range

- » Universal use for dusts and shavings in the metal and plastics industries and many others
- » Single- or multiple-location extraction at machines that produce dust or shavings, or at welding stations
- » Polishing workplaces, for example in the shoe industry, instrument making, etc.



### Ideal for

- Metal dust
- Metal shavings
- Plastic shavings
- Plastic dust



Product-Video

### Special Versions

- » Special filter materials
- » Special voltage
- » **NEW** Pipe pre-separator
- » Exhaust air connection
- » ATEX version
- » Test certificate H



The MOBEX-dust extractors can also be used in combination with an ESTA Extraction table.



MOBEX P-24 at a milling machine

**NEW**

## Compact Extractor MOBEX P eco<sup>+</sup>

The **eco<sup>+</sup>** series combine outstanding extraction and filtration performance for maximum efficiency at low operating costs. All thanks to the new **ESTA EasyControl device control** with sophisticated sensor technology and the application of frequency converters.

### MOBEX eco<sup>+</sup> design:

- » ESTA EasyControl device control
- » Frequency converter for fan motors
- » Programmable timer
- » Dust sensors in the raw gas and clean air areas for performance control as well as residual dust and filter break monitoring
- » Level measurement in collection container

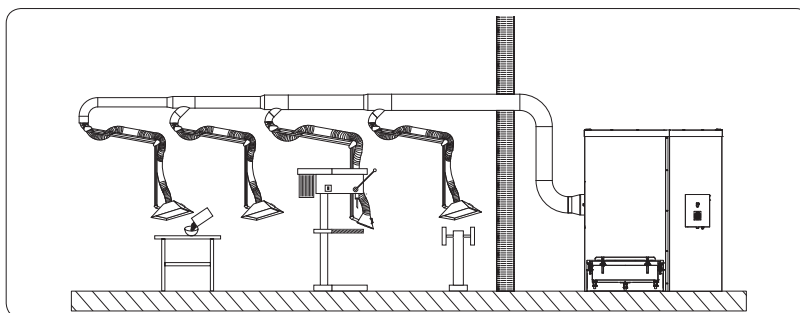
**ESTA EasyControl** is a newly-developed device control that ensures energy-efficient device operation with state-of-the-art sensor technology.



Power savings of up to 50% compared to conventional differential pressure controls are obtained through current volume flow measurement and the fully-automated regulation of the extraction performance based on the operating parameters.



The detachable dust collection drawer with lockable cartons ensures simple, dust-free disposal.



With pipelines, the MOBEX series can be used for simultaneous extraction at multiple workstations.

### Technical Data

MOBEX		P-24	P-36	P-50 <b>NEW</b>
Max. Airflow	m <sup>3</sup> /h	2.800	4.500	5.600
Intake diameter	mm	200	250	300
Max. negative pressure	Pa	3.400	3.400	3.300
Voltage	V	400	400	400
Motor	kW	3.0	4.0	4.0*
Filter elements	Piece	2	3	4
Filter surface	m <sup>2</sup>	24	36	48
Dust collection container	l	100 - 150 (2 × 38**)	100 - 150 (2 × 38**)	100 - 150 (2 × 38**)
Dimensions (L/W/H)	mm	1.910 × 1.040 × 2.030***	2.030 × 1.040 × 2.030***	2.030 × 1.040 × 2.030***
Weight	kg	310	350	415
Sound emission	dB(A)	71	74	75
<b>Order Number</b>				
Standard		<b>09.831</b>	<b>09.832</b>	-
Tested to dust class H		<b>09.833</b>	<b>09.834</b>	-
ATEX version		<b>09.840</b>	<b>09.841</b>	<b>On request</b>
<b>eco<sup>+</sup></b>		<b>09.842</b>	<b>09.843</b>	<b>09.852</b>

\* Different impeller \*\* with dust collection box \*\*\* without spark trap

## Wet Separators NA-K



Wet Separator NA-K

### Application Range

- » Extraction of individual and multiple workstations with sticky and damp types of dust, especially metal dust
- » Central extraction system connected to a trunk line for dust extraction from multiple workstations
- » For applications where lots of spatter
- » Available with certification for extraction of aluminum dust



### Ideal for

- Moist dust
- Sticky dust
- Metal shavings
- Metal dust
- Aluminum dust
- Flammable dusts

### Special Versions

- » Special voltage
- » Muffler
- » ATEX version
- » Type examination for aluminum dust extraction (BGR 109)



NA-K in a tannery

**ESTAPLUS**

### Special Feature

- » Highly recommended for metal grinding applications

### Your Benefits

- » High extraction performance for sticky and damp types of dust
- » Ideal solution for applications with a high occurrence of sparks
- » Type approved versions save additional BG-spot verification
- » High filtration efficiency

Data dependent on equipment type

### Technical Data

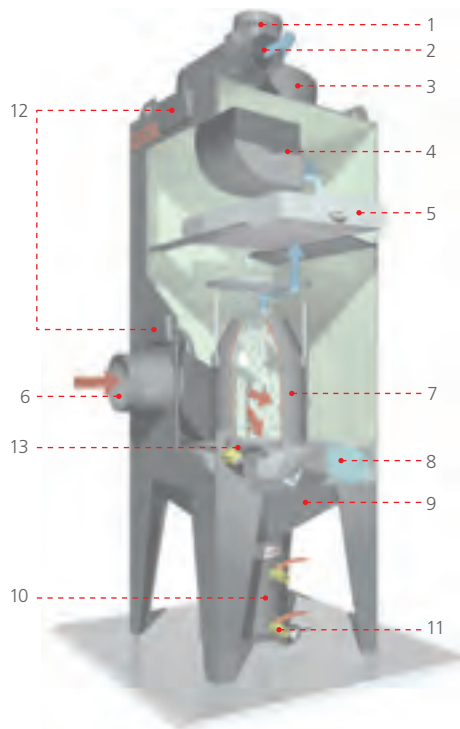
NA-K		1800	3600	6000
Max. Airflow	m <sup>3</sup> /h	2.160	3.125	5.150
Intake/outlet diameter	mm	180/280	224/280	280/300
Max. negative pressure	Pa	4.300	3.500	3.600
Motor	kW	3.0	5.5	7.5
Water content	l	290	390	390
Sludge container	l	50	50	50
Water connection		G 3/4"	G 3/4"	G 3/4"
Dimensions (L/W/H)	mm	800 × 800 × 2.940	950 × 950 × 3.460	950 × 950 × 3.460
Weight (without Water)	kg	340	510	530
Sound emission	dB(A)	83	86	89

### Order Number

Standard version (without certificate)	<b>45.183</b>	<b>45.363</b>	<b>45.603</b>
NA-K B with design test certificate	<b>45.182</b>	<b>45.362</b>	<b>45.601</b>
NA-K VA with design test certificate	<b>45.180</b>	<b>45.360</b>	<b>45.600</b>

## Wet Separators

### NA-K B / NA-K VA



NA-K (schematic illustration)

1. Motor
2. Clean air exhaust
3. Fan
4. Gas deflector
5. Mist collector
6. Dust laden air intake connection
7. Whirl chamber
8. Water
9. Tapered sludge collection area
10. Sludge container
11. Drain valve
12. Flapper valves
13. Magnetic valve with water connection for automatic filling



NA-K connected to a belt sanding machine

### Certified Pre-separator for the extraction of aluminum dust

#### NA-K B

As opposed to standard version, the following stainless steel parts:

- » Fan (3)
- » Gas deflector (4)
- » Dust laden air intake connection (6)
- » Whirl chamber (7)
- » Sludge container (10)

Made of sheet steel:

- » Housing outside (explosion-proof motor)

Interior coating based on epoxy resin

#### NA-K VA

As opposed to standard version, all metal parts are made of stainless steel



# Dust Extractors

## Wet Separators

### NA-500 / NA-1.1 / NA-2.2 SK



Wet Separator NA-500

#### Application Range

- » Extraction of sticky substances and dusts
- » Spark generating production processes
- » Extraction of flammable, explosive and dry substances defined as "Zone22" types of dust (ATEX version)



#### Ideal for

Metal dust

Sticky dust

Flammable dusts

#### Special Versions

- » As a pre-separator for existing dust extractor (NA-500)
- » As vacuum unit (NA-2.2)
- » Stainless steel housing
- » ATEX-approved version
- » Magnetic valve for automatic water supply



Tilt-back upper housing for easy access to the interior of the unit

**ESTA PLUS**

#### Special Features

- » Three different versions for mobile wet separation
- » Droplet separator and filter cartridge of dust classification M

#### Your Benefits

- » Tilt-back upper housing for easy dust disposal
- » Small space requirement due to compact design
- » Minimum water consumption

Data dependent on equipment type

#### Technical Data

NA		-500 Pre-Separator	-1.1 Dust Extractor	-2.2 Vacuum unit
Max. Airflow	m <sup>3</sup> /h	500	560	300
Intake/outlet diameter	mm	100/100	100/-	50/-
Max. negative pressure	Pa	-	1.700	21.000
Motor	kW	-	1.1	2.2
Water capacity	l	40	40	40
Collection container	l	100	100	100
Dimensions (L/W/H)	mm	1.260 × 630 × 1.560	1.310 × 530 × 1.560	1.260 × 630 × 1.560
Weight (without Water)	kg	80	120	130
Sound emission	dB(A)	-	78	68
<b>Order Number</b>				
Standard version		<b>45.513</b>	<b>45.511</b>	<b>45.512</b>
Stainless steel version		<b>45.613</b>	<b>45.611</b>	<b>45.612</b>
ATEX version		<b>45.713</b>	-	<b>45.712</b>

## Modular Dust Extractors

### DUSTMAC P (Cartridge Filters)



DUSTMAC P (with cartridge filters)

#### Application Range

- » Central extraction of multiple dust generating machines
- » Suitable for dry, pourable types of dust



#### Ideal for

- Chemical dust
- CRP-/GRP-dusts
- CRP-/GRP-shavings
- Metal dust
- Mineral dust
- Stone dust

#### Special Versions

- » Special filter materials
- » Custom paint finish
- » Fan with various capacities
- » Coating for outdoor installation
- » **NEW** Pipe pre-separator
- » Pre-separator
- » ATEX version



The DUSTMAC series is also suitable for outdoor installation

**ESTAPLUS**

#### Special Features

- » Pulse-jet filter cleaning system
- » Integrated Pre-separator
- » Cleanable long life cartridge filters (Dust classification M)

#### Your Benefits

- » Suitable for most types of dust
- » Low operating costs due cleanable filter cartridges
- » Modular design (expandable)
- » Customer specific design

Data dependent on equipment type

#### Technical Data

DUSTMAC		P-20	P-40	P-60	P-90
Max. Airflow	m <sup>3</sup> /h	ca. 2.600	ca. 4.500	ca. 7.800	ca. 9.700
Intake/outlet diameter	mm	160/280	224/355	280/300	355/450
Max. negative pressure	Pa	2.000	3.200	3.800	3.800
Voltage	V	400	400	400	400
Motor	kW	2.2	4.0	5.5	7.5
Filter surface	m <sup>2</sup>	20	40	60	90
Filter elements	Pieces	2	4	6	9
Dust collection container l		100	100	100	100
Dimensions (L/W/H)	mm	1.310 x 1.055 x 3.250	1.310 x 1.300 x 3.295	1.750 x 1.300 x 3.740	1.900 x 1.880 x 3.770
Sound emission	dB(A)	67	73	78	83
<b>Order Number</b>		<b>661.020</b>	<b>661.040</b>	<b>661.060</b>	<b>661.090</b>

- Dust Extractors
- High Vacuum Extraction Units
- Welding Fume Filters
- Oil Mist Separators
- Carbon Filter
- Downdraft Tables
- Extraction Fans
- Extraction Arms
- Filter Towers
- Central Extraction Systems
- Pipe Systems

# Dust Extractors

## Modular Extractors

### *DUSTMAC S (Tubular Bag Filters)*



DUSTMAC S (with tubular bag filters)

#### **Application Range**

- » Central extraction of multiple industrial dust generating work-stations or machines
- » Suitable for fine, fibrous and sticky types of dust



#### **Ideal for**

- Cotton dust
- Chemical dust
- CRP-/GRP-dusts
- Flock dust
- Plastic dust
- Chalk
- Metal shavings
- Paper strips
- Soot
- Cement dust

#### **Special Versions**

- » Special filter materials
- » Custom paint finish
- » Fan with various capacities
- » Coating for outdoor installation
- » Pre-Separator
- » ATEX-approved version optional



Central extraction systems with two DUSTMAC S filter modules each

**ESTA**PLUS

#### **Special Features**

- » Pulse-jet filter cleaning system
- » Cleanable long life tubular bag filters for dust classification M

#### **Your Benefits**

- » Low operating costs due cleanable filter cartridges
- » Modular design (expandable)
- » Customer specific design

Data dependent on equipment type

#### **Technical Data**

<b>DUSTMAC</b>		<b>S-5</b>	<b>S-10</b>	<b>S-17</b>	<b>S-25</b>	<b>S-33</b>
Max. Airflow	m <sup>3</sup> /h	ca. 2.600	ca. 3.500	ca. 4.500	ca. 5.400	ca. 9.700
Intake/outlet diameter	mm	160/280	200/300	224/355	280/400	355/400
Max. negative pressure	Pa	2.000	2.600	3.200	3.200	3.800
Voltage	V	400	400	400	400	400
Motor	kW	2.2	3.0	4.0	5.5	7.5
Filter surface	m <sup>2</sup>	5	10.5	17	25	33
Hoses	Pieces	13	20	32	48	48
Dust collection container l		50	50	50	50	50
Dimensions (L/W/H)	mm	1.400 × 1.055 × 3.465	1.400 × 1.310 × 3.470	1.820 × 1.310 × 3.875	1.820 × 1.750 × 3.990	1.880 × 1.750 × 4.400
Sound emission	dB(A)	67	69	74	76	82

**Order Number**                      **662.005**   **662.010**   **662.017**   **662.025**   **662.033**

Additional informations about the modular extractor DUSTMAC can be found beginning on page 97

## Cyclone Pre-Separators ZA



Cyclone Pre-Separator ZA

### Application Range

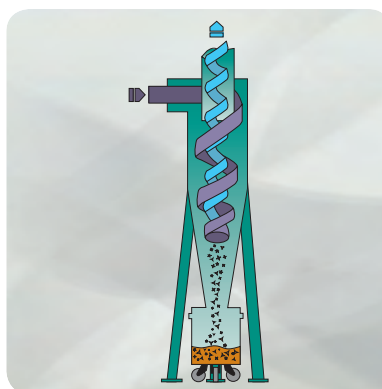
- » Can be used as primary filtration unit or pre-separator unit
- » For dry, pourable types of dust

Because we at ESTA are convinced of the effectiveness of our cyclone geometry, we issue an "extraction guarantee declaration".



### Ideal for

- CRP-/GRP-dusts
- Chemical dust
- Rubber and leather dust
- Wood shavings
- Plastic shavings
- Metal shavings



Schematic description of product mechanics



Cyclone pre-separator ZA-160 application photo

**ESTA PLUS**

### Special Features

- » Dust collection container available in different sizes
- » Different discharge methods (sluices, rotary valve)
- » As steel, stainless steel or aluminum version available
- » Coating for outdoor installation

### Your Benefits

- » Optimal solution for extracting medium sized and coarse dust
- » Can be combined ideally with other ESTA dust extractors
- » Extraction guarantee declaration for your type of dust

Data dependent on equipment type

### Technical Data

Cyclone pre-separator	Intake connection	Airflow volume	Collection container	Height of cyclone	Order Number
	mm	Intervall m <sup>3</sup> /h	Liter	mm	
ZA 50	50	-200	50	1.458	20820050
ZA 100	100	-800	100	2.280	20821100
ZA 125	125	-1.100	100	2.596	20821125
ZA 140	140	-1.200	100	2.578	20821140
ZA 160	160	-2.000	100	2.924	20821160
ZA 200	200	-2.500	100	3.166	20821200
ZA 225	225	-3.700	200	4.128	20822225
ZA 250	250	-4.500	200	4.399	20822250
ZA 280	280	-6.000	200	4.823	20822280
ZA 300	300	-6.500	200	5.086	20822300
ZA 315	315	-7.500	200	5.278	20822315
ZA 355	355	-9.300	200	5.735	20822355
ZA 450	450	-12.500	200	6.449	20822450

The sound level rating depends on the type of fan installed in the equipment

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems







Pipe Systems

## Accessories & Attachments


**ESTA**PLUS

### Your Benefits







- » Large selection of accessories & attachments
- » Highest quality
- » Superior workmanship
- » Tailor made for ESTA products

Product Description	Order Number	DUSTOMAT-10	DUSTOMAT-16	DUSTOMAT 4-10/4-24	DUSTOMAT 100-S	DUSTOMAT 120-S	DUSTOMAT 140-S	DUSTOMAT 160-S	MOBEX P	DUSTOVAC 5.5 / 7.5 / 13.0
<b>Dust Collection Bags</b>										
 <b>Plastic collection bag</b> Approximately 100Litre capacity, (1 Set = 10 pieces)	91.015	•	•							
<b>Plastic collection bag</b> Approximately 200Litre capacity, (1 Set = 10 pieces)	91.017									•
<b>Plastic collection bag</b> Approximately 200Litre capacity, (1 Set = 10 pieces)	91.018									
 <b>Paper filter bag</b> (1 Set = 10 pieces)	5017				•					
<b>Paper filter bag</b> (1 Set = 5 pieces)	9017					•	•	•		
<b>Dust Collection Container</b>										
 <b>Dust Collection Container</b> (1 Set = 8 pieces)	30008311			•					•	
<b>Control Unit</b>										
 <b>External Control</b> With floating contact installed in the unit	700002					•	•	•		•
<b>DUSTMASTER 6/3</b> Control unit for the dust extractor in connection with a max. of 3 shutter valves and 6 processing machines	250.002					•	•	•		•
<b>DUSTMASTER 12/7</b> Control unit for the dust extractor in connection with a max. of 7 shutter valves and 12 processing machines	250.001					•	•	•		•
<b>Malfunction radio transmitter</b>	Please inquire				•					
<b>Chip Deflectors</b>										
 <b>Chip deflector, small, complete</b>	97.012	•			•					
<b>Chip deflector, large, complete</b>	97.011					•	•	•		
<b>Cone Insert</b>										
 <b>Cone insert, small</b>	15000092	•			•					
<b>Cone insert, large</b>	15000091					•	•	•		






## Accessories & Attachments

Product Description	Order Number	DUSTOMAT-10	DUSTOMAT-16	DUSTOMAT 4-10/4-24	DUSTOMAT 100-S	DUSTOMAT 120-S	DUSTOMAT 140-S	DUSTOMAT 160-S	DUSTOVAC 5.5 / 7.5 / 13.0
<b>Extraction Arms</b>									
<b>Extraction Arms*</b>									
Incl. 1.5 m PU- connection hose									
 Length: 1.5 m	101529	•		•	•				
Length: 2.0 m	102029	•		•					
Length: 2.0 m	122029		•	•		•			
Length: 2.0 m	142029			•			•		
Length: 2.0 m	162029			•				•	
Length: 3.0 m	123029		•	•		•			
Length: 3.0 m	143029			•			•		
Length: 3.0 m	163029			•				•	

Δ Optional depending on application. / \* All extraction arms are available with wall mount bracket or swivel base for attachment to the equipment. Please specify the type of mounting when placing your order.

Product Description	Order Number	DUSTOMAT-10	DUSTOMAT-16	DUSTOMAT 4-10/4-24	DUSTOMAT 100-S	DUSTOMAT 120-S	DUSTOMAT 140-S	DUSTOMAT 160-S	DUSTOVAC 5.5 / 7.5 / 13.0
<b>Miscellaneous</b>									
<b>Floor cleaning kit</b>									
For use with a vacuum hose of Ø 100 mm, including a detachable floor tool 400 x 40 mm with two guide wheels, angled floor wand with handle, electrically conductive									
	91.023	•			•				
<b>Floor cleaning kit including vacuum hose</b>									
Including a detachable 400 x 40 mm floor tool with two guide wheels, angled floor wand with handle and 2 m PU-hose Ø 100 mm									
	91.025								
<b>Angled nozzle</b>									
Connection Ø 100 mm									
	96.101	•			•				
<b>Wide nozzle</b>									
Connection Ø 63 mm									
	96.163	•			•				
<b>Crevice tool</b>									
Connection Ø 63 mm									
	96.263	•			•				
<b>Dust collection hood</b>									
Connection Ø 100 mm									
	94.712	•			•				
<b>Mounting clamp</b>									
	93.150	•	•		•	•	•	•	•

## Accessories & Attachments

Product Description	Order Number	DUSTOMAT-10	DUSTOMAT-16	DUSTOMAT 100-S	DUSTOMAT 120-S	DUSTOMAT 140-S	DUSTOMAT 160-S	DUSTOVAC 7.5 manuel	DUSTOVAC 7.5 pulse-jet	DUSTOVAC 13.0 manuel	DUSTOVAC 13.0 pulse-jet	DUSTMAC P
<b>Pre-separator</b>												
<b>Pre-separator, 200 Litres</b>												
Incl. 1.5 m connection hose and pressure balance hose.												
	Connection Ø 100 mm	95.100	•	•								
	Connection Ø 125 mm	95.125		•	•							
	Connection Ø 140 mm	95.140				•						
	Connection Ø 160 mm	95.160					•					
<b>Water Pre-separator, 100 Litres</b>												
For applications with flying sparks, steel container with baffle plate and cover, incl. 1.5 m PU-connection hose												
	Connection Ø 100 mm	90.100	•	•								
<b>Water Pre-separator, 200 Litres</b>												
For applications with flying sparks, steel container with baffle plate and cover, incl. 1.5 m PU-connection hose												
	Connection Ø 125 mm	90.125		•	•							
	Connection Ø 140 mm	90.140				•						
	Connection Ø 160 mm	90.160					•					
<b>Pipe pre-separator</b>												
	RVA 250	2.800 to 3.500 m³/h	98250									•
	RVA 355	5.500 to 7.000 m³/h	98355									•
	RVA 450	9.200 to 11.200 m³/h	98450									•
	RVA 560	13.500 to 17.100 m³/h	98560									•
<b>Cyclonic Pre-separator, 100 Litres</b>												
For use with a dust extractor, cyclone for separating light shavings and dust												
	Connection Ø 100 mm	20821100	•	•				•	•			
	Connection Ø 125 mm	20821125		•	•					•	•	
	Connection Ø 140 mm	20821140				•						
	Connection Ø 160 mm	20821160					•					

**NEW**

## Accessories & Attachments

**NEW**



### Pre-separator

**Spark pre-separator** for connection to DUSTOMAT 4

Product Description	Order Number	DUSTOMAT 4-10 H	DUSTOMAT 4-10	DUSTOMAT 4-24
Connection Ø 125 mm	30125	•		
Connection Ø 160 mm	30160		•	
Connection Ø 200 mm	30200			•



**Chip pre-separator** for connection to DUSTOMAT 4

Connection Ø 125 mm	31125	•		
Connection Ø 160 mm	31160		•	
Connection Ø 200 mm	31200			•



**Dust pre-separator** for connection to DUSTOMAT 4

Connection Ø 125 mm	32125	•		
Connection Ø 160 mm	32160		•	
Connection Ø 200 mm	32200			•

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# High Vacuum Extraction Units

For Heavy Duty Clean-Up of Machines, Floors and Workstations

EUROSOG-W / -I-D

DUROSOG-W / -I-D

WHISPERSOG

SPÄNESOG-S / -SB

COMPASOG ST

CENTRASOG  
CVS 2.0 **NEW**

MULTISOG-1, -2, -4

PRETTYBOY 309

ESTA FURNACE  
VACUUM



## Application Range

- » Automotive Repair Shops
- » Carpenters
- » Chemical Industry
- » Construction Industry
- » Craftsmen's Workshops
- » Flocking Industry
- » Janitorial Services
- » Machine Building Industry
- » Natural and Man-made Stone Processing (Stone Masons)
- » Paper Industry
- » Printing Industry
- » Textile Industry
- » Transportation Businesses
- » Warehouses and Industrial Plants

## Test Certification:



## Introduction and Product overview

### Introduction

ESTA's range of industrial vacuum cleaners are highly versatile and ideally suited for cleaning machines, floors and working areas. All products are notable for their strong suction performance and high quality workmanship. Tilting filter housing (patented by ESTA), such as in the EUROSOG and WHISPEROG appliances, guarantees the effortless disposal of dust and debris.

### Product overview

The **EUROSOG** is a powerful industrial vacuum cleaner for dry dusts. It comes in both AC and DC versions. **DUROSOG** machines are very good for sticky dusts and textile lint. The optionally insertable piggyback pre-separator allows these mobile designs also to extract fluid-laden shavings. The WHISPEROG is a very quiet but powerful vacuum especially designed for continuous operation.

The **SPÄNESOG** is used for extracting metal and emulsion-coated shavings. The stationary dust extraction systems **COMPASOG ST** and **CENTRASOG CVS 2.0** can be connected up to 3 or 15 suction points via pipe.

The **MULTISOG** models can be used as wet or dry vacuum cleaners. The series is rounded out by the handy **PRETTYBOY 309** industrial vacuum cleaner.

### Mobile and powerful

ESTA's industrial vacuum cleaners are powerful yet flexible. They are just as suited for occasional use as they are for continuous operation. They boast compact construction and are highly manoeuvrable and mobile thanks to their smooth-running fixed and swivel castors.

### Quality of workmanship

ESTA industrial vacuum cleaners stand for quality. This is ensured by:

- » Internal device inspection and final inspections
- » Audited production facilities
- » External device test certificates from DEKRA, IFA, etc.
- » "Made in Germany"

### Comprehensive range of accessories

Effective suction technology requires efficient accessories. To ensure the best possible results, we offer a wide range of accessories for our industrial vacuum cleaners:

- » Pre-separation systems
- » Suction nozzles
- » Pipes and connectors
- » and much more



### Custom models

We can also supply many of our appliances to custom specifications, according to your individual requirements:

- » Special voltages
- » Special filters
- » Special finishes
- » More customisation options on request



Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

# High Vacuum Extraction Units

## Industrial Vacuum Cleaner *EUROSOG-W*



EUROSOG-W

### Application Range

- » Clean up work of coarse and fine dust
- » Cleaning of machines in factories and workshops
- » AC version for occasional use



### Ideal for

- Cotton dust
- Wood dust
- Metal dust
- Mineral dust
- Paper dust
- Tabacco fibres



Thanks to the diagonal tube nozzle, even places that are difficult to access can be freed of dust and dirt.

### Special Features

- » AC version for occasional use (AC powered model with three suction fans)
- » Manual brush cleaning mechanism for cleaning of the cartridge filter
- » Availability of cleanable cartridge filters for dust classifications M and H
- » Test certificates M and H available

### Your Benefits

- » High suction force in dry dust
- » Low operating costs through the use of cleanable long life cartridge filters
- » Tilt-back filter housings for easy dust disposal
- » Small space requirement due to compact design
- » High mobility by smooth turning castors

### Technical Data

EUROSOG		-W
Max. Airflow	m <sup>3</sup> /h	360
Intake diameter	mm	50
Max. negative pressure	Pa	18.600
Voltage	V	230
Motor	kW	3 × 1.0
Filter surface	m <sup>2</sup>	2/5
Dust collection container	l	80
Dimensions (L/W/H)	mm	932 × 660 × 1.140
Weight	kg	76
Sound emission	dB(A)	74

### Order Number

EUROSOG-W – Standard model	<b>80.198</b>
EUROSOG-W/H with TÜV-certificate for dust classification H	<b>80.299</b>
EUROSOG-W/M with TÜV-certificate for dust classification M	<b>80.399</b>

## Industrial Vacuum Cleaner *EUROSOG-I-D*



EUROSOG-I-D

### Application Range

- » Recommended for clean up work of coarse and fine dust



### Ideal for

- Cotton dust
- Wood shavings
- Wood dust
- Metal dust
- Mineral dust
- Paper dust
- Tabacco fibres

Gold Medal Award recipient from the Secretary of Economics for outstanding innovative achievements.



EUROSOG-I-D with floor nozzle for cleaning the shop

ESTAPLUS

### Special Features

- » For continuous operation (DC version)
- » Manual brush cleaning mechanism for cleaning of the cartridge filter
- » Availability of cleanable cartridge filters for dust classifications M and H
- » Test certificates M, H and B22 available
- » Optionally available as ATEX version

### Your Benefits

- » High suction force in dry dust
- » Low operating costs through the use of cleanable long life cartridge filters
- » Tilt-back filter housings for easy dust disposal
- » Small space requirement due to compact design
- » High mobility by smooth turning castors

### Technical Data

EUROSOG		-I-D
Max. Airflow	m <sup>3</sup> /h	260
Intake diameter	mm	50
Max. negative pressure	Pa	19.500
Voltage	V	400
Motor	kW	2,2
Filter surface	m <sup>2</sup>	2/5
Dust collection container	l	80
Dimensions (L/W/H)	mm	1.030 × 670 × 1.240
Weight	kg	81
Sound emission	dB(A)	77

### Order Number

EUROSOG-I-D/N (standard model)	<b>81.198</b>
EUROSOG-I-D/M with TÜV-test certificate for dust classification M	<b>81.399</b>
EUROSOG-I-D/H with TÜV-test certificate for dust classification H	<b>81.299</b>
EUROSOG-I-D/M/B22 with TÜV-test certificate for dust classification M and additional test certification B 22*	<b>81.397</b>
EUROSOG-I-D/H/B22 with TÜV-test certificate for dust classification H and additional test certification B 22*	<b>81.297</b>
EUROSOG-I-D ATEX version	<b>81.200</b>

\*Suitable for vacuuming dry and flammable types of dust in zone 22

Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

# High Vacuum Extraction Units

## Industrial Vacuum Cleaner *DUROSOG-W*



DUROSOG-W

### Application Range

- » For sticky substances and dust that tends to clump
- » Cleaning of machines in factories and workshops
- » AC version for occasional use



### Ideal for

- Chemical dust
- Sticky dust
- Metal dust
- Paper dust
- Tabacco fibres



DUROSOG-W for cleaning machines



The pre-separator container can be removed with one easy step. This is where the coarser dust and debris will be collected.

Easy disposal of the dust with a disposable paper filter bag.

## ESTA PLUS

### Special Features

- » AC version for occasional use
- » Integrated pre-separator for rough dirt
- » Disposable paper filter bag
- » Test certificates for dust classification M and H available

### Your Benefits

- » With the use of special filtration technology this model is suitable for dry dust, sticky dust and dust that tends to clump
- » Convenient dust disposal in a paper filter bag
- » Small space requirement due to compact design
- » High mobility by smooth turning castors

### Technical Data

DUROSOG		-W
Max. Airflow	m <sup>3</sup> /h	350
Intake diameter	mm	50
Max. negative pressure	Pa	22.000
Voltage	V	230
Motor	kW	3 × 1.0
Filter surface*	m <sup>2</sup>	3
Dust filter bag	l	70
Dimensions (L/W/H)	mm	660 × 660 × 950
Weight	kg	41
Sound emission	dB(A)	74

### Order Number

DUROSOG-W/N (Standard model)	<b>8024 N</b>
DUROSOG-W/M (Dust classification M)	<b>8024 M</b>
DUROSOG-W/H (Dust classification H)	<b>8024 H</b>

\* Filter only with certified model

## Industrial Vacuum Cleaner *DUROSOG-I-D*



DUROSOG-I-D

### Application Range

- » Three-phase powered industrial vacuum cleaner for defined continuous duty applications – ideal for sticky substances and dust that tends to clump
- » Fibres and shavings



### Ideal for

- Chemical dust
- Metal shavings
- Paper dust
- Tabacco fibres



DUROSOG-I-D in operation



**ESTAPLUS**

### Special Features

- » For continuous operation (DC version)
- » Integrated pre-separator for rough dirt
- » Disposable paper filter bag
- » Test certificates for dust classification M, H and B22\*\* available

### Your Benefits

- » With the use of special filtration technology this model is suitable for sticky dust and material that tends to clump
- » Convenient dust disposal in a paper filter bag
- » Small space requirement due to compact design
- » High mobility by smooth turning castors

### Technical Data

DUROSOG		-I-D
Max. Airflow	m <sup>3</sup> /h	275
Intake diameter	mm	50
Max. negative pressure	Pa	22.000
Voltage	V	400
Motor	kW	2.2
Filter surface*	m <sup>2</sup>	3
Dust filter bag	l	70
Dimensions (L/W/H)	mm	850 x 630 x 950
Weight	kg	80
Sound emission	dB(A)	72

### Order Number

DUROSOG-I-D/N (Standard model)	<b>8120N</b>
DUROSOG-I-D/M (Dust classification M)	<b>8120M</b>
DUROSOG-I-D/H (Dust classification H)	<b>8120H</b>
DUROSOG-I-D/M/B22 (Dust classification M, Test certificate B22)	<b>8121B</b>
DUROSOG-I-D/H/B22 (Dust classification H, Test certificate B22)	<b>8122B</b>

\* Filter only with certified model

\*\* Suitable for vacuuming dry and flammable types of dust in zone 22

Dust Extractors  
 High Vacuum Extraction Units  
 Welding Fume Filters  
 Oil Mist Separators  
 Carbon Filter  
 Downdraft Tables  
 Extraction Fans  
 Extraction Arms  
 Filter Towers  
 Central Extraction Systems  
 Pipe Systems

# High Vacuum Extraction Units

## Industrial Vacuum Cleaners

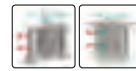
### WHISPEROG



High vacuum WHISPEROG

#### Application Range

- » Clean up work of coarse, fine and pourable types of dust
- » Direct extraction from manual processing machines and those in continuous operation
- » Connection to pipelines



#### Ideal for

- Cotton dust
- Plastic dust
- Mineral dust
- Paper dust
- Tabacco fibres



The WHISPEROG is suitable for many applications

#### Special Features

- » For continuous operation (DC version)
- » Manual brush cleaning mechanism, pneumatic filter cleaning system or pulse-jet filter cleaning system
- » Cleanable long life cartridge filters (Dust classification M)

#### Your Benefits

- » Low-noise, high-performance vacuum cleaners for dry dust
- » Low operating costs through the use of cleanable long life cartridge filters
- » Tilt-back filter housings for easy dust disposal
- » Small space requirement due to compact design
- » High mobility by smooth turning castors

#### Technical Data

WHISPEROG		2,2	3,0
Max. Airflow	m <sup>3</sup> /h	300	216
Intake diameter	mm	50	50
Max. negative pressure	Pa	21.000	31.500
Voltage	V	400	400
Motor	kW	2.2	3.0
Filter surface	m <sup>2</sup>	2	2
Dust collection container	l	80	80
Dimensions (L/W/H) (Manual filter cleaning)	mm	1.300 × 640 × 1.250	1.300 × 640 × 1.250
Weight	kg	105	120
Sound emission	dB(A)	73	75

#### Order Number

Manual filter cleaning system	83.101	83.102
Pneumatic filter cleaning system	83.201	83.202
Pulse-jet-cleaning	83.113	–

ESTA PLUS

## Metal Shavings and Emulsion Vacuum Cleaner *SPÄNESOG-S*



SPÄNESOG-S

### Application Range

- » Suction of Metal shavings (e.g. brass and copper shavings) and emulsion-afflicted media
- » Cleaning of CNC milling and drilling machines

### Ideal for

- Metal shavings
- Metal shavings (fraught emulsion)



SPÄNESOG-S cleaning a drill

**ESTA PLUS**

### Special Features

- » Washable oil and water resistant long life cartridge filter

### Your Benefits

- » Specialized industrial vacuum cleaner for Metal shavings and emulsion coated materials
- » Compact and user friendly design
- » Long filter service life by several times washable filter cartridge

### Technical Data

SPÄNESOG		S
Max. Airflow	m <sup>3</sup> /h	300
Intake diameter	mm	50
Max. negative pressure	Pa	20.000
Voltage	V	400
Motor	kW	2.2
Filter surface	m <sup>2</sup>	4.2
Dust collection container	l	100
Dimensions (L/W/H)	mm	850 × 600 × 1.280
Weight	kg	90
Sound emission	dB(A)	73
<b>Order Number</b>		<b>8150</b>

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# High Vacuum Extraction Units

## Metal Shavings and Emulsion Vacuum Cleaner *SPÄNESOG-SB*



SPÄNESOG-SB

### Application Range

- » Machine cleanup on drill presses
- » Removal of Metal shavings with coolants
- » Cleaning of CNC milling and boring centres

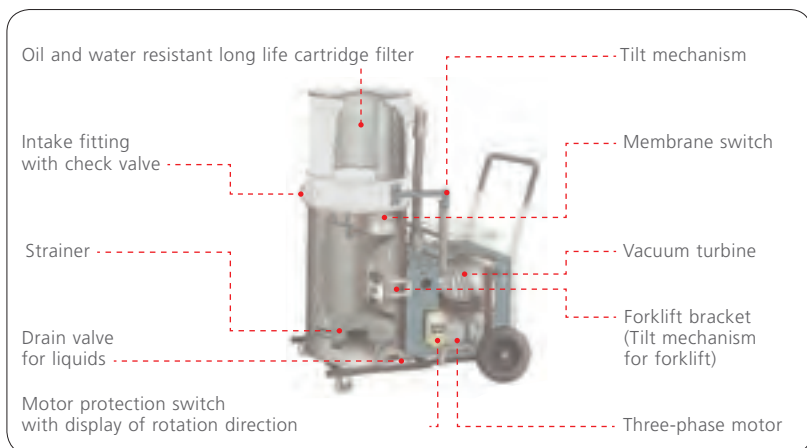
### Ideal for

Metal shavings

Metal shavings  
(fraught emulsion)



Removal of brass shavings and coolants at a CNC milling station



**ESTA PLUS**

### Special features

- » Blower for effectively cleaning and pumping away vacuumed emulsion
- » Optional: specially equipped collection container with bracket for handling with a forklift

### Your Benefits

- » Recirculation of extracted emulsions and coolants
- » Small space requirement due to compact design
- » Long filter service life by several times washable filter cartridge

### Technical Data

SPÄNESOG		SB
Max. Airflow	m <sup>3</sup> /h	300
Intake diameter	mm	50
Max. negative pressure	Pa	20.000
Voltage	V	400
Motor	kW	2.2
Filter surface	m <sup>2</sup>	4.2
Dust collection container	l	100
Dimensions (L/W/H)	mm	850 × 600 × 1.280
Weight	kg	105
Sound emission	dB(A)	73
<b>Order Number</b>		<b>8151</b>

## Central Vacuum Cleaner *COMPASOG ST*



COMPASOG ST

### Application Range

- » Central system for direct extraction of metal dust and free-flowing dust
- » Connection to a pipe system (Ø 50, Ø 76 and Ø 108 mm) with three extraction points Ø 50 mm simultaneously

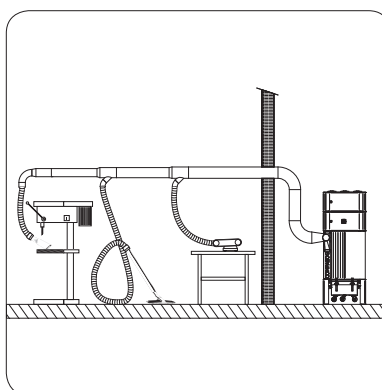
### Special Versions

- » With backup filter cassette (Dust class H)



#### Ideal for

- Plastic dust
- Metal dust
- Mineral dust
- Paper dust



Example of the various connection options



The detachable dust collection drawer makes for easy disposal of a dust

**ESTA PLUS**

### Special Features

- » Integrated cyclone separator
- » Pulse-jet filter cleaning
- » Cleanable permanent filter cartridges (Dust Class M)
- » Brushless suction turbines (for continuous operation)

### Your Benefits

- » Low operating costs with cleanable long life filter cartridges
- » The mobile dust collection drawer for easy dust disposal
- » Compact and user friendly design
- » Suitable for dry dusts

### Technical Data

COMPASOG		ST
Max. Airflow	m <sup>3</sup> /h	980
Intake diameter	mm	108
Max. negative pressure	Pa	22.000
Voltage	V	400
Motor	kW	3 × 1.8
Filter elements	Pieces	1
Filter surface	m <sup>2</sup>	8.6
Dust collection container	l	40
Dimensions (L/W/H)	mm	840 × 670 × 1.800
Weight	kg	310
Sound emission	dB(A)	72
<b>Order Number</b>		<b>83.400</b>

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# High Vacuum Extraction Units

**NEW**

## Central Vacuum Cleaner CENTRASOG CVS 2.0

**NEW**



CENTRASOG CVS 2.0

### Application Range

- » Central high vacuum dust extraction system for industrial and handicraft enterprises
- » Machines and workplace cleaning
- » Connecting of portable hand held machine tools
- » In special design as a central vacuum system for car interior cleaning at car wash

### Special Versions

- » Custom paint finish
- » Variation for car interior cleaning
- » Weather-resistant housing for outdoor installation

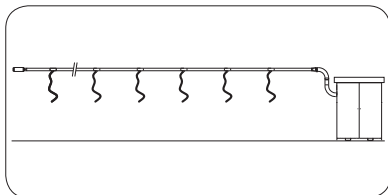


#### Ideal for

- Plastic dust
- Metal dust
- Dirt and shavings



Simple car interior cleaning at multiple extraction points



CENTRASOG CVS 2.0 at a central conduit



Connecting of hand-held machines



Weather-resistant housing for outdoor installation

**ESTA PLUS**

### Special Features

- » High performance side channel blowers – for maximum suction capacity
- » Fully assembled, immediately ready for use
- » Two-stage filter system with integrated cyclone pre-separator and filter cartridge of dust class M

### Your Benefits

- » Low operating costs with cleanable long life filter cartridges
- » Compact and user friendly design
- » Low operating noise through sound-insulated housing

### Technical Data

CENTRASOG CVS 2.0		8	12	15
Max. Airflow	m <sup>3</sup> /h	700	1.000	1.950
Intake diameter	mm	160	160	160
Max. negative pressure	Pa	19.000	18.000	13.000
Voltage	V	400	400	400
Motor	kW	8.5	12.5	15.0
Max sucking station	Ø36/50 mm	6/3	10/6	15/9
Filter surface	m <sup>2</sup>	16.0	16.0	16.0
Dust collection container	l	200	200	200
Dimensions (L/W/H)	mm	2.170 × 1.078 × 2.433		
Weight	kg	840	900	950
Sound emission	dB(A)	78	78	78
<b>Order Number</b>		<b>87.500</b>	<b>87.600</b>	<b>87.700</b>

## Wet and dry vacuum *MULTISOG-1, and -4*



MULTISOG-1



MULTISOG-4

### Application Range

- » Clean up work in office and work areas
- » Suitable for dust, dirt and liquids



#### Ideal for

Dust

Dirt

Liquids



MULTISOG-4 for clean up at a drill press

**ESTA PLUS**

### Special Features

- » Three power levels, depending on the application
- » Paper filter bags
- » Fabric filter
- » Mechanical liquid shut off device
- » Stainless steel boiler (Multisog-4)

### Your Benefits

- » Suitable for dust, dirt and liquids
- » Small space requirement due to compact design
- » Easy disposal of the collected dust

### Technical Data

MULTISOG		-1	-4
Max. Airflow	m <sup>3</sup> /h	215	250
Intake diameter	mm	36	50
Max. negative pressure	Pa	21.000	20.500
Voltage	V	230	230
Motor	kW	1.2	1.5
Dust collection container	l	35	35
Dimensions (L/W/H)	mm	500 x 500 x 840	600 x 500 x 900
Weight	kg	13	25
Sound emission	dB(A)	67	62
<b>Order Number</b>		<b>4622</b>	<b>4533</b>

Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

# High Vacuum Extraction Units

## Pre-separator Systems for Industrial Vacuum Cleaners and/or mobile Extractors

### Which pre-separator should be used for which application?

Dry	Wet	Light material and dust
<p>Heavy, coarse substances and larger quantities of dust.</p>	<p>Materials that are soaked in liquid (Metal shavings and coarse particles, etc.) will be collected in a strainer basket, while the liquid drains down into a collection container that can be emptied through a drain valve.</p>	<p>Large quantities of light materials and dust should be collected in a disposable paper filter bag.</p>
Scope of delievery	Scope of delievery	Scope of delievery
<p>Wheel base, pre-separator container with plastic bag insert, cover with intake and outlet connection to the vacuum.</p>	<p>Wheel base, pre-separator container and strainer basket, cover with float valve and intake and outlet connection to the vacuum.</p>	<p>Wheel base, pre-separator container with hose connection on the side, filter cage and cloth filter bag for inserting disposable paper filter bags and connection to the vacuum cleaner.</p>
<p><b>Pre-separator TR 1</b> with 100 liter container <b>Order-Number: 1100</b></p>	<p><b>Pre-separator NA 1</b> with 100 liter container <b>Order-Number: 1102</b></p>	<p><b>Pre-separator ST 1</b> with 100 liter container <b>Order-Number: 1103</b></p>
<p><b>Pre-separator TR 2</b> with 200 liter container <b>Order-Number: 1200</b></p>	<p><b>Pre-separator NA 2</b> with 200 liter container <b>Order-Number: 1202</b></p>	<p><b>Pre-separator ST 2</b> with 200 liter container <b>Order-Number: 1203</b></p>

#### Your Benefits

- » The ideal complement for industrial vacuums for applications With solid dry and wet dust types as well as large quantities of shavings

Data dependent on equipment type

## Office Vacuum Cleaner *PRETTYBOY 309*

### Office Vacuum Cleaner PRETTYBOY 309



PRETTYBOY 309

The PRETTY BOY is a light, easily manageable vacuum cleaner with a fine mesh filter. With 1000 watts and a suction power of 130 m<sup>3</sup> per hour, it is the ideal vacuum cleaner for the office. It is supplied with the standard range of accessories: guide tube, suction hose, floor nozzle and diagonal tube nozzle.

**Order No. 5309**



Included Accessories

### Standard Accessories for Industrial Vacuum Cleaners




# High Vacuum Extraction Units

## Accessories & Attachments

**ESTA**PLUS

### Your Benefits

- » Highest quality
- » Superior workmanship
- » Tailor made for ESTA products

Product Description	Order Number	DUROSOG-W/N	DUROSOG-W/M	DUROSOG-W/H	DUROSOG-I-D/N	DUROSOG-I-D/M	DUROSOG-I-D/H	DUROSOG-I-D/M/B22	DUROSOG-I-D/H/B22	EUROSOG-W/N	EUROSOG-W/M	EUROSOG-W/H	EUROSOG-I-D/N	EUROSOG-I-D/M	EUROSOG-I-D/H	EUROSOG-I-D/M/B22	SPÄNESOG-5	SPÄNESOG-SB	WHISPERSOG 2.2 FM	WHISPERSOG 2.2 FA	WHISPERSOG 2.2 Jet	WHISPERSOG 3.0 FM	WHISPERSOG 3.0 FA	
<b>Pre-separator</b>																								
 <p><b>Pre-separator TR 1</b>, Ø 50 mm, 100 Litre collection container, wheel base, collection container with plastic bag insert, cover with intake connection and outlet connection to the vacuum</p>	1100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	<hr/>																							
	<p><b>Pre-separator TR 2</b>, Ø 100 mm, 200 Litre collection container, wheel base, collection container with plastic bag insert, cover with intake connection and outlet connection to the vacuum</p>	1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		<hr/>																						
	<p><b>Pre-separator NA 1</b>, Ø 50 mm, 100 Litre collection container, wheel base, collection container with strainer basket, cover with intake connection, float valve and outlet connection to the vacuum</p>	1102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		<hr/>																						
	<p><b>Pre-separator NA2</b>, Ø 100 mm, 200 Litre collection container, wheel base, collection container with strainer basket, cover with intake connection, float valve and outlet connection to the vacuum</p>	1202	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<hr/>																								
<p><b>Pre-separator ST 1</b>, Ø 50 mm, 100 Litre collection container, wheel base, collection container with hose connection on the side, filter cage and cloth filter for insertion of disposable paper filter bags, outlet connection to the vacuum</p>	1103	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
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<p><b>Pre-separator ST 2</b>, Ø 100 mm, 200 Litre collection container, wheel base, collection container with hose connection on the side, filter cage and cloth filter for insertion of disposable paper filter bags, outlet connection to the vacuum</p>	1203	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

For precise capture and extraction of welding smoke

SRF K-10/K-15

SRF T-2/T-4

AIRBOX **NEW**

SRF SK-2.2 - SK-13.0

KAF 70 / 100

MOBEX F /

**eco+ NEW**

DUSTOMAT 4 **NEW**

COMPASOG SR

DUSTMAC F



### Application Range

Welding of:

- » Aluminum
- » Construction steel
- » Coated sheet metal
- » Galvanized parts
- » Stainless steel (Chrome-Nickel, etc.)

- » Direct extraction at the welding torch
- » Soldering
- » Workplace ventilation
- » etc.

### Test certificates



Gefahrstoffgeprüft  
Schweißrauch-  
abscheideklasse W3

Gefahrstoffgeprüft  
Schweißrauch-  
abscheideklasse W3

Gefahrstoffgeprüft  
Schweißrauch-  
abscheideklasse W3

Dust Extractors

High Vacuum  
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Systems

Pipe Systems

# Welding Fume Filters



## Introduction

Welding produces toxic fumes that can be captured and effectively eliminated by a welding fume filter.

Filtering is done directly through a nozzle or extraction hood. The filtered air is routed back into the work area or outdoors through a pipeline.

For extracting welding fumes, ESTA offers mobile, portable and stationary extraction solutions custom made to the application. For extracting welding fumes from high-alloy steels, ESTA welding fume filters are optionally available with IFA W2 and W3 certificates.



## Product overview

**SRF K** series devices are good for mobile welding fume extraction at one or two workstations. Their compact design makes them easy to transport to their place of use. High suction performance allows welding fume extraction over a long distance, making work easier.

**ESTA extraction arms** with specially designed extraction hoods are used to capture the fumes.

The **SRF T** appliances are compact, portable welding fume filters that capture welding fumes directly at source, ie from welding torches.

The welding fume filter **AIRBOX** is a robust filter unit with suction arms for low to medium smoke and dust quantities. The rotating and swivelling suction arm enables an operating radius of 360° and can thus be brought into any desired position.



The high vacuum welding fume filters of the **SRF SK** series can extract fumes from several welding torches simultaneously.

The central high vacuum welding fume filters of the **COMPASOG SR** are likewise used for directly extracting fumes from welding torches. The extraction unit can also be used as an industrial vacuum cleaner, for cleaning floors and machines.

The **KAF** series is especially suited for the extraction of soldering fumes or fine dust.

For optimum fume capturing at up to four extraction points, or for small welding booths, ESTA offers the stationary welding fume filters in the **MOBEX F** series. The 'entry-level' models in the stationary series are suitable for use with airflows of up to 4500 m<sup>3</sup> per hour.



## Mobile Welding Fume Filter *SRF K-10*



Mobile welding fume filter SRF K-10

### Application Range

- » Extraction during welding of all metals
- » Intermittent and continuous duty operation
- » Optional: soldering fume extraction



Test certificates (optional)



### Special Versions

- » IFA Test Certificate W3 for high-alloy metals
- » Special voltage
- » Activated carbon filter



SRF K-10 in operation

### Special Features

- » Cleanable long life cartridge filters (Dust classification M)
- » Filter cleaning with compressed air gun (manually) or fully automatic
- » Dust-free disposal of separated smoke particles

### Your Benefits

- » Powerful capturing of the welding fumes
- » Mobile for versatile use and suitable for continuous duty applications
- » Compact and user friendly design
- » Low operating costs through the use of cleanable long life cartridge filters
- » Convenient disposal of the dust

Data dependent on equipment type

### Technical Data

Welding fume filter model SRF		K-10
Max. Airflow	m <sup>3</sup> /h	950
Intake diameter	mm	140
Max. negative pressure	Pa	2.800
Motor Power	V/kW	230 / 1.3
Filter surface	m <sup>2</sup>	10
Dimensions (L/W/H)	mm	946 × 761 × 1.361
Weight	kg	69
Sound emission	dB(A)	72

### Order Number

Standard	<b>55.203</b>
Standard with IFA „W3“ Test. Cert.	<b>55.235</b>
Man. operated rotating filter cleaning	<b>70 268 130</b>
Autom. filter cleaning system	<b>70 268 115</b>
Autom. filter cleaning system. IFA*)-test	<b>70 272 115</b>

IFA\*) = German Institute for Occupational Health and Safety

# Welding Fume Filters

## Mobile Welding Fume Filter SRF K-15



Mobile welding fume filter SRF K-15

### Application Range

- » Extraction during welding of all metals
- » Intermittent and continuous duty operation
- » A mobile device for two extraction points or for connection to pipe systems
- » Optional: soldering fume extraction

### Special Versions

- » IFA Test Certificate W3 for high-alloy metals
- » Special voltage
- » Activated carbon filter
- » Auto-start through welding arc possible
- » Exhaust air connection



Test certificates (optional)



SRF K-15 with pipe system

**ESTAPLUS**

### Special Features

- » Filter cleaning with compressed air gun (manually) or fully automatic
- » Cleanable long life cartridge filters (Dust classification M)

### Your Benefits

- » High performance smoke capture at two extraction locations
- » Mobile for versatile use and suitable for continuous duty applications
- » Compact and user friendly design
- » Low operating costs through cleanable cartridge filters
- » Easy disposal of the collected dust

Data dependent on equipment type

### Technical Data

Welding fume filter model SRF		K-15
Max. Airflow	m <sup>3</sup> /h	1.600
Intake diameter	mm	2 × 140
Max. negative pressure	Pa	2.800
Motor Power	V/kW	400 / 2.2
Filter surface	m <sup>2</sup>	15
Dimensions (L/W/H)	mm	946 × 761 × 1.361
Weight	kg	74
Sound emission	dB(A)	77

### Order Number

Standard	<b>55.212</b>
Standard with IFA „W3“ Test. cert.	<b>55.229</b>
Man. operated rotating filter cleaning	<b>70 269 130</b>
Autom. filter cleaning system	<b>70 269 114</b>
Autom. filter cleaning system, IFA*)-test	<b>70 273 114</b>

IFA\*) = German Institute for Occupational Health and Safety

## Mobile Welding Fume Filter *SRF K-10 / SRF K-15*



Patented ESTA tilt mechanism



Convenient disposal of the dust

### Accessories and Attachments SRF K-10 / SRF K-15

#### Wall Console



Metal bracket for wall mounting of the welding fume filter.

	Order Number
SRF K-10	60400001
SRF K-15	60400001

- Dust Extractors
- High Vacuum Extraction Units
- Welding Fume Filters**
- Oil Mist Separators
- Carbon Filter
- Downdraft Tables
- Extraction Fans
- Extraction Arms
- Filter Towers
- Central Extraction Systems
- Pipe Systems

# Welding Fume Filters

## Portable Welding Fume Filter SRF T-2 / SRF T-4



Portable welding fume filter SRF T-2



SRF T-4, a mobile device for two extraction points or for connection to pipe systems

### Application Range

- » For the direct extraction at the welding torch
- » Outside work, assembly or construction sites
- » Non-alloy steels and steel with low alloy content



### Test certificates (optional)

W3



SRFT-2

Gefahrstoffgeprüft  
Schweißrauch-  
abscheideklasse W3

### Special Versions

- » Exhaust air connection
- » Special voltage
- » IFA Test Certificates W3 (SRF T-2) for high-alloy metals
- » Activated carbon filter
- » Custom paint finish



SRF T-2, direct extraction from one welding torch

### Accessories



Slotted nozzle. Order Number 94.741



Cone shaped nozzle. Order Number 94.740

### Special Features

- » Powerful suction turbine
- » Integrated compressed air cleaning nozzle
- » Cleanable long life cartridge filters (Dust classification M)
- » Direct extraction of welding torches or nozzles

### Your Benefits

- » High performance direct extraction of welding torches or nozzles
- » Portable units that can be used in any location
- » Compact and functional design
- » Low operating costs with cleanable long life cartridge filters

Data dependent on equipment type

### Technical Data

Welding fume filter model SRF		T-2*	T-4
Max. Airflow	m <sup>3</sup> /h	200	400
Intake diameter	mm	50	2 × 50
Max. negative pressure	Pa	19.000	19.000
Voltage	V	230	230
Motor	kW	1.1	2.2
Filter surface	m <sup>2</sup>	0,8	1,6
Dimensions (L/W/H)	mm	390 × 210 × 500	490 × 400 × 560
Weight	kg	15	27
Sound emission	dB(A)	66	78
<b>Order Number</b>		<b>55.101</b>	<b>55.102</b>

\* available in W3-tested Version

## Mobile welding fume filter **AIRBOX**

*Available through our trading partners!*



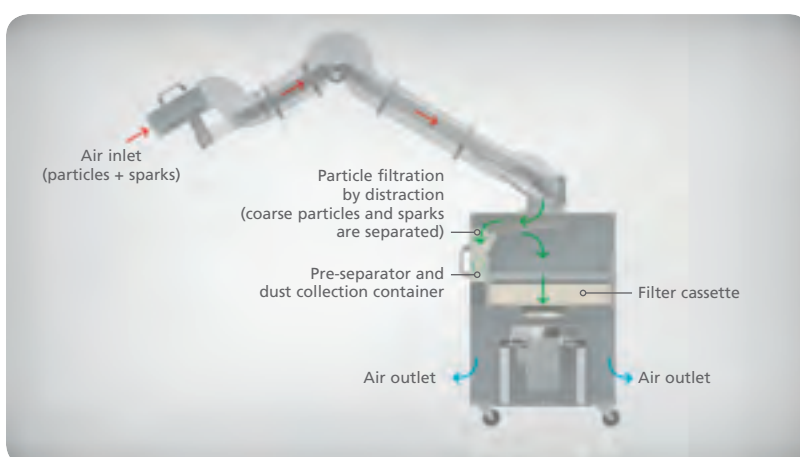
### Areas of application

- » Extraction during the welding of all metals



### Special models

- » Afterfilter cassette Dust class H
- » Special enamel



**ESTA PLUS**

### Special features

- » Incl. suction arm with external linkage
- » 360° swivel circle (suction arm)

### Benefits for you

- » Compact design for low space requirement
- » Long filter life due to integrated pre-separator system
- » Strong smoke detection thanks to new, highly efficient nozzle hood
- » High mobility
- » Low operating costs

Data depending on model version

### Technical Data

AIRBOX		
Max. Airflow	m <sup>3</sup> /h	1.100
Intake diameter	mm	140
Max. negative pressure	Pa	1.100
Voltage	V	230V
Motor	kW	1,1
Filter surface	m <sup>2</sup>	12
Dimensions (L/W/H)	mm	750 × 650 × 1.150*
Weight	kg	110**
Sound emission	dB(A)	69
<b>Order Number</b>		<b>55500</b>

\* Without Extraction arm / \*\* With Extraction arm

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# Welding Fume Filters

## Mobile High Vacuum Welding Fume Filters

### SRF SK-2.2 through SK-13.0



High vacuum power welding fume filter SRF SK-2.2

#### Application Range

- » For the direct extraction at the welding torch
- » Intermittent use and continuous duty applications
- » Non-alloy steels and steel with low alloy content
- » Connection to piping



#### Special Versions

- » Special voltage
- » Exhaust air connection
- » Custom paint finish



SRF SK-2.2 unit in operation

**ESTA PLUS**

#### Special Features

- » High vacuum welding fume filter with side channel blower for high suction power in several places
- » Filter cleaning with compressed air gun, pneumatic or pulse-jet cleaning system
- » Cleanable long life cartridge filters (Dust classification M)

#### Your Benefits

- » Simultaneous extraction from up to eleven workstations possible
- » Rated for continuous duty operation
- » Low operating costs with cleanable long life cartridge filters
- » Low operation noise

Data dependent on equipment type

#### Technical Data

Welding fume filter model SRF		SK-2.2	SK-5.5	SK-7.5	SK-13.0
Max. Airflow	m <sup>3</sup> /h	300	480	850	1.100
Intake diameter	mm	50	70	100	125
Max. negative pressure	Pa	21.000	24.500	25.000	22.000
Voltage	V	400	400	400	400
Motor	kW	2.2	5.5	7.5	13.0
Filter surface	m <sup>2</sup>	10	15	15	15
Dimensions (L/W/H)	mm	1.320 × 530 × 1.190	1.680 × 780 × 1.300	1.690 × 780 × 1.300	1.690 × 780 × 1.300
Weight	kg	150	230	230	230
Sound emission	dB(A)	73	74	76	82
<b>Order Number</b>					
Manual filter cleaning (compressed air)		<b>55.146</b>	<b>55.161</b>	<b>55.147</b>	<b>55.148</b>
Pneumatic filter cleaning		<b>55.149</b>	<b>55.162</b>	<b>55.150</b>	<b>55.151</b>
Pulse jet filter cleaning		–	<b>55.163</b>	<b>55.152</b>	<b>55.153</b>

## Mobile Soldering Fume Filters *KAF-70 / KAF-100*



Soldering fume filter KAF-100

### Application Range

- » Extraction of single and multiple workstations in laboratories and precision mechanical workplaces
- » For soldering fume (L)
- » For fine dust (S)

### Special Versions/Accessories

- » Filter cassette with activated carbon
- » Special voltage
- » Laboratory extraction arm 50D



Articulated extraction arms 50D



KAF-70 can be positioned under a work table



**ESTA PLUS**

### Special Features

- » Manual standard filter cleaning

### Your Benefits

- » Especially recommended for the extraction of soldering fumes
- » Compact and functional design
- » Mobile for versatile use
- » Odor reduction through optional activated carbon filter
- » Low operation noise

Data dependent on equipment type

### Technical Data

KAF		-70	-100
Max. Airflow	m <sup>3</sup> /h	500	700
Intake diameter	mm	50	2 x 50 or 1 x 100
Max. negative pressure	Pa	1.100	1.100
Voltage	V	230	230
Motor	kW	0.55	0.55
Dimensions (L/W/H)	mm	385 x 465 x 735	485 x 485 x 920
Weight	kg	30	42
Sound emission	dB(A)	65	68
<b>Order Number</b>		<b>07.071 L/S</b>	<b>07.101 L/S</b>

- Dust Extractors
- High Vacuum Extraction Units
- Welding Fume Filters**
- Oil Mist Separators
- Carbon Filter
- Downdraft Tables
- Extraction Fans
- Extraction Arms
- Filter Towers
- Central Extraction Systems
- Pipe Systems

# Welding Fume Filters

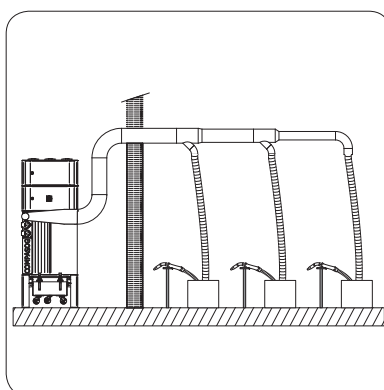
## High Vacuum Power Welding Fume Filter *COMPASOG SR*



High vacuum power welding fume filter  
COMPASOG SR

### Application Range

- » Central system for direct extraction at welding torches in industry and skilled trades



The COMPASOG SR can be used via pipelines for extraction at several workplaces



The detachable dust collection drawer makes for easy disposal of a dust

### ESTA PLUS

#### Special Features

- » Can be used as a central dust extractor for cleaning
- » Pulse-jet filter cleaning
- » Integrated cyclone separator for pre-separation and fire protection
- » Cleanable permanent filter cartridges (Dust Class M)
- » Brushless suction turbines (for continuous operation)

#### Your Benefits

- » High performance central plant for direct extraction at welding torch
- » Low operating costs with cleanable long life filter cartridges
- » The detachable dust collection drawer makes for easy disposal of a dust
- » Compact and user friendly design

#### Special Versions

- » With backup filter cassette (Dust class H)



Three connecting branch on the front

#### Technical Data

COMPASOG		SR
Max. Airflow	m <sup>3</sup> /h	980
Intake diameter	mm	3 × 50
Max. negative pressure	Pa	22.000
Voltage	V	400
Motor	kW	3 × 1.8
Filter elements	Pieces	1
Filter surface	m <sup>2</sup>	8.6
Dust collection container	l	40
Dimensions (L/W/H)	mm	840 × 670 × 1.800
Weight	kg	310
Sound emission	dB(A)	72
<b>Order Number</b>		<b>55.400</b>

## Mobile welding fume filter *DUSTOMAT 4*



DUSTOMAT 4



### Areas of application

- » Single and multiple extraction points in industry and crafts
- » Dry, free-flowing, non-combustible welding fumes
- » For extraction of fume from steel with alloy content of e.g. nickel and chrome ≤ 30% and high-alloy steels (according to DIN EN ISO 15012-1-2005)

### Special models

- » ATEX version
- » Spark pre-separator (optional)
- » Version with frequencyconverter
- » Stationary design
- » Special enamel
- » Also available as an untested variant for welding fumes
- » Other models on request

### Special features

- » Integrated impact separator for pre-separation of coarse and heavy particles
- » Sensor technology for volume flowmonitoring and output-control

### Benefits for you

- » Strong suction power in combination with high mobility
- » Innovative device design guarantees efficient air currentguidance, thus low operating costs
- » Very low operatingnoise; can, therefore, be installed directly in the working area
- » Mobile dust collectordrawer for easy disposal
- » New housing design, ensures small utility space
- » High operating and maintenance-friendliness

Data depending on model version

### Technical Data

DUSTOMAT		4-10 W3	4-24 W3	4-24 W3 <i>ecopower</i>
Max. Airflow	m <sup>3</sup> /h	2.000	3.300	3.500
Intake diameter	mm	160	200	200
Max. negative pressure	Pa	2.600	3.600	5.000
Voltage	V	400	400	400
Motor	kW	2.2	4.0	5.5
Filter elements	Piece	2	2	2
Filter surface	m <sup>2</sup>	10	24	24
Dust collection container l		90 (42*)	90 (42*)	90 (42*)
Dimensions (L/W/H)	mm	1.460 × 935 × 1.440	1.660 × 935 × 1.640	1.660 × 935 × 1.640
Weight	kg	230	260	280
Sound emission	dB(A)	68	70	70
<b>Order Number</b>				
Standard		<b>09.733</b>	<b>09.763</b>	–
With HEPA 14 filter		<b>On request</b>	–	–
<i>eco+</i>		<b>09.739</b>	<b>09.769</b>	<b>09.782</b>

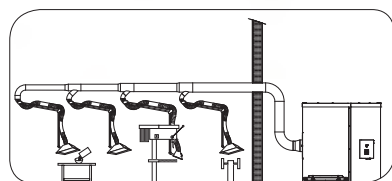
\* With disposal box / Extraction arm available separately

# Welding Fume Filters

## Stationary Welding Fume Filters *MOBEX F*



MOBEX F-60



With a pipe system or a hose, the MOBEX series can be connected to processing machines for direct extraction

### Application Range

- » Single- or multi-extraction of welding fumes
- » Welding of all metals
- » Extraction of robot welding booths

### Special Versions/Accessories

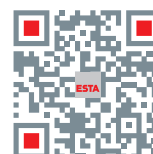
- » Available in a IFA-W3-tested version for extracting welding fumes from high-alloy steel
- » Special voltage
- » Exhaust air connection
- » **NEW** Pipe pre-separator
- » Spark pre-separator
- » Extinguishing device



Test certificates (optional)



W3



Product-Video



MOBEX F-40 with extraction arm

### Technical Data

**NEW**

MOBEX		F-40	F-60	F-80
Max. Airflow	m <sup>3</sup> /h	2.800	4.500	5.600
Intake diameter	mm	224	280	300
Max. negative pressure	Pa	3.400	3.400	3.300
Voltage	V	400	400	400
Motor	kW	3,0	4,0	4,0*
Filter elements	Piece	2	3	4
Filter surface	m <sup>2</sup>	40	60	80
Dust collection container	l	100 – 150 (2 x 38**)	100 – 150 (2 x 38**)	100 – 150 (2 x 38**)
Dimensions (L/W/H)	mm	1.910 x 1.040 x 2.030***	2.030 x 1.040 x 2.030***	2.030 x 1.040 x 2.030***
Weight	kg	310	350	415
Sound emission	dB(A)	71	74	77
<b>Order Number</b>				
Standard		<b>09.837</b>	<b>09.838</b>	–
With spark pre-separator		<b>09.837 FA</b>	<b>09.838 FA</b>	<b>09.853 FA</b>
With test certificate W3		<b>09.835</b>	<b>09.836</b>	–
<b>eco+</b>		<b>09.848</b>	<b>09.849</b>	<b>09.853</b>

\* Other impeller \*\* with dust collection box \*\*\* without spark trap

**ESTAPLUS**

### Special Features

- » A new sandwich-panel housing design
- » Pulse-jet filter cleaning
- » Integrated impact separator

### Your Benefits

- » Low operating costs thanks to cleanable permanent filter (Dust classification M)
- » Long filter life due to a pre-separation system
- » Low operating noise thanks to a sound-insulated housing
- » Minimal space requirements
- » Easy, dust-free removal of collected material through a new disposal system

**NEW**

## Stationary Welding Fume Filters

### MOBEX F *eco*<sup>+</sup>



The *eco*<sup>+</sup> series combine outstanding extraction and filtration performance for maximum efficiency at low operating costs. All thanks to the new **ESTA EasyControl device control** with sophisticated sensor technology and the application of frequency converters.

**MOBEX F *eco*<sup>+</sup> design:**

- » ESTA EasyControl device control
- » Frequency converter for fan motors
- » Programmable timer
- » Dust sensors in the raw gas and clean air areas for performance control as well as residual dust and filter break monitoring
- » Level measurement in collection container



**ESTA EasyControl** is a newly-developed device control that ensures energy-efficient device operation with state-of-the-art sensor technology. **Power savings of up to 50%** compared to conventional differential pressure controls are obtained through current volume flow measurement and the fully-automated regulation of the extraction performance based on the operating parameters.

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# Welding Fume Filters

## Modular Welding Fume Extraction System *DUSTMAC F*



DUSTMAC F

### Application Range

- » Central systems with multiple extraction locations
- » Large extraction hoods or cells, e.g. robotic welding stations
- » All types of steel



Test certificates (optional)



### Special Versions

- » IFA-Test Certificate W3 for high-alloy metals
- » **NEW** Pipe pre-separator
- » **Control cabinet series**  
Basic / Comfort / Special versions
- » Custom paint finish



Central welding fume extraction system DUSTMAC F in the chemical industry

**ESTA** PLUS

### Special Features

- » Pulse-jet filter cleaning system
- » Cleanable long life cartridge filters (Dust classification M)

### Your Benefits

- » High performance welding fume extraction from multiple locations, from welding cells or from large extraction hoods
- » Customer specific design of the system
- » Modular for future expansion
- » Low operating costs with cleanable long life filter cartridges

Data dependent on equipment type

### Technical Data










DUSTMAC		F-42	F-84	F-84	F-126	F-189
Max. Airflow	m <sup>3</sup> /h	3.500	7.800	9.700	10.300	14.000
Intake/outlet diameter	mm	224/300	280/400	315/450	355/500	450/560
Max. negative pressure	Pa	2.600	3.800	3.800	4.400	4.800
Voltage	V	400	400	400	400	400
Motor	kW	3.0	5.5	7.5	11.0	15.0
Filter surface	m <sup>2</sup>	42	84	84	126	189
Filter elements	Pieces	2	4	4	6	9
Dust collection container l		50	50	50	50	50
Dimensions (L/W/H)	mm	1.300 × 1.039 × 3.250	1.400 × 1.350 × 3.410	1.400 × 1.350 × 3.410	1.820 × 1.450 × 3.860	1.850 × 1.900 × 3.910
Weight	kg	440	540	540	740	880
<b>Order Number</b>		<b>663.042</b>	<b>663.084</b>	<b>663.085</b>	<b>663.126</b>	<b>663.189</b>

## Accessories & Attachments

**ESTA PLUS**

### Your Benefits

- » Designed for the ESTA product range
- » Can accommodate most customer requirements
- » High quality and durability

Product Description	Order-No.	SRF K-10	SRF K-15	SRF T-2	SRF T-4	SRF SK-2.2	SRF SK-5.5	SRF SK-7.5	SRF SK-13.0	KAF-70	KAF-100T	MOBEX F	WELDEX F-50 to F-150	WELDEX FE	DUSTMAC F	
<b>Extraction Arms</b>																
 <b>Extraction arm</b> with efficiency hood, 500 x 500 mm, Ø 140 mm, length 2.0 m	<b>14.204</b>	•	•													
 <b>Extraction arm</b> with efficiency hood, 500 x 500 mm, Ø 140 mm, length 3.0 m	<b>14.304</b>	•	•													
 <b>Extraction arm</b> with specialized square hood 600 x 600 mm, Ø 140 mm, length 2.0 m	<b>14.203</b>	•	•													
 <b>Extraction arm</b> with specialized square hood 600 x 600 mm, Ø 140 mm, length 3.0 m	<b>14.303</b>	•	•													
<b>Hoods / Nozzels</b>																
 <b>Flanged hood</b> Ø50 mm to Ø180 mm	<b>On request</b>	•	•									•				•
 <b>Efficiency hood</b> 500 x 500 mm, square design, Ø 140 mm	<b>030.00.201</b>	•	•													
 <b>Specialized square hood</b> made of metal, square design 600 x 600 mm, Ø 140 mm	<b>94.222</b>	•	•													
 <b>Funnel shaped nozzle</b> flexible, with magnetic mounting foot	<b>94.740</b>			•	•	•	•	•	•							
 <b>Slotted nozzle</b> 200 mm wide, with magnetic mounting foot	<b>94.741</b>			•	•	•	•	•	•							
 <b>Laboratory extraction arm 50 D</b> overall ext. 900 mm, with angled extraction Opening	<b>50.080</b>									•	•					

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
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Carbon Filter

Downdraft  
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Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# Welding Fume Filters

## Accessories & Attachments

Product Description	Order-No.	SRF K-10	SRF K-15	SRF T-2	SRF T-4	SRF SK-2.2	SRF SK-5.5	SRF SK-7.5	SRF SK-13.0	MOBEX F	WELDEX F-50 TO F-150	WELDEX FE	DUSTMAC F
<b>Pipe pre-separator</b>													
 RVA 250	2.800 to 3.500 m³/h	<b>98250</b>									•	•	•
RVA 355	5.500 to 7.000 m³/h	<b>98355</b>									•	•	•
RVA 450	9.200 to 11.200 m³/h	<b>98450</b>									•	•	•
RVA 560	13.500 to 17.100 m³/h	<b>98560</b>									•	•	•
<b>Miscellaneous</b>													
 <b>Extraction hose</b> length 5.0m, including connector cuff		<b>45.500</b>		•	•	•	•	•	•				
 <b>Extraction hose</b> sold by the meter		<b>45.501</b>		•	•	•	•	•	•				
 <b>Wall mount bracket</b> for wall mounting of the welding fume filter		<b>604.00.001</b>	•	•									
 <b>Activated carbon filter</b> additional filter to eliminate odours		<b>702.68.129</b> <b>702.69.129</b>	•	•									
 <b>Extraction air outlet</b> for extracting the filtered air outside, Ø 180mm for extracting the filtered air outside, Ø 280mm		<b>702.68.111</b> <b>702.69.111</b>	•	•									

## Extraction of Oil and Emulsion Mist

OILMAC 400

OILMAC 800

OILMAC 1600

OILMAC 3000



### Application Range

- » Aircraft construction
- » Machine building industry
- » Metal construction and processing industry
- » Shipbuilding industry
- » Vehicle construction

Dust Extractors

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# Oil Mist Separators

## Oil Mist Separators OILMAC



Oil Mist Separator OILMAC 800

### Application Range

- » Extraction of oil and emulsion mist, minimal lubricant mist and smoke
- » For set-up and attachment to CNC machines

### Special features/Accessories

- » Special voltage
- » Exhaust air outlet
- » Special painting
- » Chassis (OILMAC 800/1600)



### Ideal for

Aerosols

Fumes

Mist particles



Product-Video



Pivoting fan module



Pivoting inlet module



OILMAC 800 on a universal lathe

**ESTAPLUS**

### Special Features

- » Patented housing design allows filter replacement without tools
- » Manual cleaning
- » Mechanical filtration
- » Also available as a filter unit, without fan

### Your Benefits

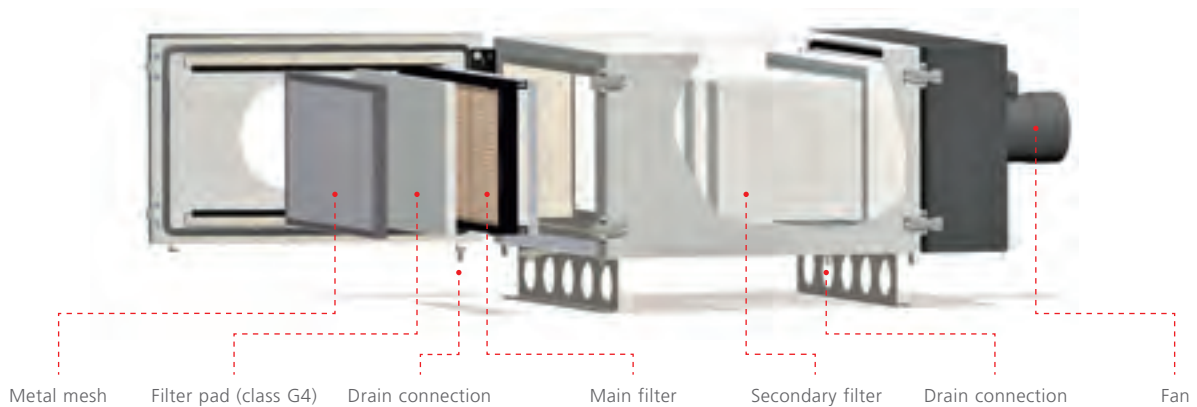
- » Easy attachment to the machine
- » Available in four performance levels
- » Compact shape
- » Multiple filter system for high filtration efficiency
- » Filter replacement and maintenance without tools

### Technical Data

OILMAC		400	800	1600	3000
Max. Airflow	m <sup>3</sup> /h	420	840	1800	3300
Intake diameter	mm	150	200	250	300
Voltage	V	230	400	400	400
Motor	kW	0,24	0.55	1.1	2.2
Dimensions (L/W/H)	mm	640 x 650 x 510	1.140 x 685 x 475	1.270 x 685 x 805	1.790 x 650 x 1.265
Weight	kg	50	80	130	220
Sound emission	dB(A)	66	69	71	74
<b>Order Number</b>					
Design with HEPA-filter		<b>56.200</b>	<b>56.201</b>	<b>56.202</b>	<b>56.203</b>
Design with Backup filter made of metal mesh		–	<b>56.211</b>	<b>56.212</b>	<b>56.213</b>
Filter unit without fan		–	<b>56.221</b>	<b>56.222</b>	<b>56.223</b>

All devices include a 5.0m siphon hose

## How the three-stage filter system works



### Pre-separator

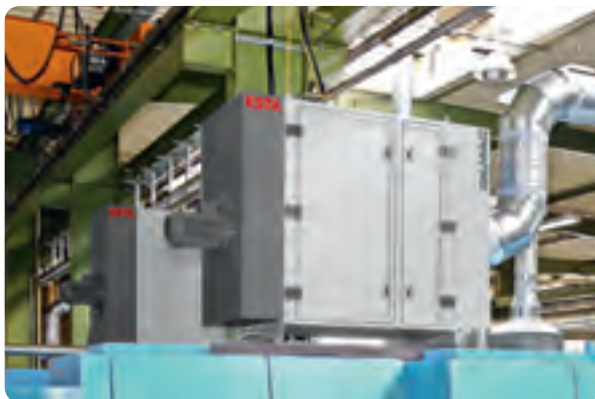
A wear-free separator made of metal mesh, and a class G4 filter pad, separate coarse and solid particles.

### Main separator

The washable main separator redirects the air stream to separate the aerosols. Gravity then directs these down through the siphon connection, where they can be discharged.

### Backup filter

A HEPA H13 filter extracts the remaining aerosols with 99.95% efficiency. Alternatively, a combination mesh separator can also be used.



# Carbon Filters

Compact device for filtering odors and slight chemical exposure

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VACUMAT 1000

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VACUMAT 2200

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## ***Application Range***

- » Metal processing industry
- » Plastics industry
- » Chemical industry
- » Pharmaceutical industry
- » Automotive industry
- » Textile, leather and clothing industry

## Carbon Filter **VACUMAT**

Also in  
**ATEX**-version  
available!



VACUMAT 2200

### Areas of application

- » Improving indoor air quality by reducing or removing unpleasant odours
- » Adsorption of gaseous environmental pollutants
- » For single and multi-location separation



### Ideal for

- Gaseous odors and pollutants
- Slight chemical exposure

### Sonderausführungen

- » **NEU** ATEX-Ausführung auf Anfrage
- » Stationäre Ausführung
- » Sonderlackierung
- » Weitere Ausführungen auf Anfrage



Control panel with operating hour meter



Active charcoal filter



VACUMAT for aspiration at a workplace

### Special features

- » Effective pre-filter system for separating coarse particles for a long filter service life spans of the main filter
- » Active charcoal filter cell with active charcoal granulate for effective odour filtering
- » For connection to extraction arm, cover or pipe
- » Mobile and space-saving design

### Your benefits

- » High-performance 2-level filter system
- » Low operating noise
- » Low operating costs
- » Operating hour counter for monitoring filter service life

### Technical Data

VACUMAT		1000	2200
Max. Airflow	m <sup>3</sup> /h	1.010	2.250
Max. negative pressure	Pa	1.250	2.550
Intake diameter	mm	150	200
Voltage	V	400	400
Motor	kW	1.1	2.2
Mass of active charcoal	kg	25	25
Dimensions (L/W/H)	mm	1.050 × 800 × 1.330	1.050 × 800 × 1.330
Weight	kg	215	218
Sound emission	dB(A)	62	71
<b>Order Number</b>		<b>07100</b>	<b>07220</b>

# Downdraft Tables

Welding/Grinding Downdraft Tables  
for connection to a mobile or stationary extraction system

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A 880 to A 2080

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360°-Suction-Table **NEW**

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Flame-cutting Table **NEW**

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## ***Application Range***

- » Aircraft construction
- » Automobile industry
- » Machine building industry
- » Metal industry
- » Plastics industry
- » Shipbuilding industry
- » Stone Industry
- » Vehicle construction

## Welding/Grinding Downdraft Tables *Series A*



Worktable for welding and grinding



Welding table with side panels and back wall

### Application Range

- » For connection to ventilator or extraction system
- » Working table for welding, grinding, deburring of all types of metals
- » Also suitable for other applications (e.g. plastics processing, gluing processes)



### Ideal for

- Metal dust
- Welding fume
- Plastic shavings
- Fumes
- CRP-/GRP-dusts
- Stone dust



Integrated coarse dirt collecting drawer



Side panel swung back for larger work pieces

### ESTA PLUS

#### Special Features

- » Galvanized grid
- » Height adjustable ( $\pm 100$  mm)
- » Drawer for coarse dirt
- » Variable connection piece (right or left)

#### Your Benefits

- » Extraction directly at the workstation
- » Compact solution
- » Plenty of knee and leg room
- » A stable steel plate housing
- » For variable use
- » Easy disposal of coarse dirt



Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

# Downdraft Tables

## Welding/Grinding Downdraft Tables

### Series A



#### Special Versions/Accessories

- » Side panels
- » Rear wall extraction
- » Lid for optimal airflow
- » Lighting installed in the cover
- » Mobile unit on casters
- » Version with steel T-grate, fiberglass or wood slat grate
- » Customer specific dimensions available
- » Rotary disk for placement on grate
- » Reinforcement plate for fastening a vice



#### Technical Data

Welding and Grinding Table without extraction fan		A 880	A 1280	A 1680	A 2080
Working surface (L/W)	mm	800 x 700	1.200 x 700	1.600 x 700	2.000 x 700
Intake diameter	mm	160	160	200	200
Dimensions (L/W/H) (Standard-Model)	mm	880 x 840 x 800	1.280 x 840 x 800	1.680 x 840 x 800	2.080 x 840 x 800
Dimensions (L/W/H) (with side panels/ back wall extraction)	mm	880 x 840 x 1.600	1.280 x 840 x 1.600	1.680 x 840 x 1.600	2.080 x 840 x 1.600

#### Order Number

Standard	<b>44.010</b>	<b>44.020</b>	<b>44.030</b>	<b>44.040</b>
with side panels	<b>44.011</b>	<b>44.021</b>	<b>44.031</b>	<b>44.041</b>
with side panels and back wall extraction	<b>44.012</b>	<b>44.022</b>	<b>44.032</b>	<b>44.042</b>

**NEW**

## Welding and grinding tables *360°-suction table*



### Areas of application

- » For connection to a fan or extraction system
- » For grinding, welding and deburring of metal parts
- » Can be used for further applications



### Ideal für

- Metallstaub
- Schweißrauch
- Kunststoffspäne
- Dämpfe
- CFK-/GFK-Stäube
- Rauche
- Mineralische Stäube
- Betonstaub

### Special version / accessories

- » Lighting
- » Individual pedestal
- » Optimum, infinitely variable electrical height adjustment
- » ATEX compliant
- » Hood
- » Unit support

### Special features

- » Workpiece accessible from all sides (360°)
- » Maximum workpiece width: 900 mm (with closed walls)
- » Height adjustment: 980 to 1,180 mm
- » Requires approx. 2,500 m<sup>3</sup>/h air volume
- » Suction nozzle in front area
- » Adjustable end stop
- » Vice
- » Foldable side panelling

### Benefits for you

- » More efficiency when machining workpieces
- » Time saving due to fewer transformer steps and process shortening due to shorter cycle times
- » Highest levels of ergonomics for employees
- » Less contamination of the workplace
- » Optimised occupational health and safety

Data depending on model version



Suction nozzle in front area



Side shelf for tools

### Technical data

360°-suction table		
Connection diameter	mm	250
Dimensions (W/H/D) without hood	mm	1,000 × 1,140 × 970
Dimensions (W/H/D) with hood	mm	1,000 × 1,400 × 970
Weight	kg	160

Order No.

On request

Vice included

ESTAPLUS

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# Downdraft Tables

**NEW**

## Welding and grinding tables *Flame-cutting Table*



### Area of use

- » Cutting table with water tanks for cutting and plasma cutting processes



### Ideal for

All mechanical and thermal separation and cutting processes

### Special design

- » Special enamel



Flat iron support and water trays

**ESTA PLUS**

### Special features

- » Water tanks as material and spark pre-separators
- » Multiple deflection of the airflow to reduce the risk of flying sparks
- » Flat iron support and water trays easy to remove
- » Inspection opening for cleaning the inner housing

### Benefits for you

- » Extraction directly at the workplace
- » Compact solution
- » Protection against harmful particles and smoke that occur during thermal separation
- » Easy disposal of coarse dirt and sludge slag via the water troughs

Data depending on model version

### Technical data

Separation cutting table		
Work surface (L/D)	mm	1,100 × 1,100
Working height min./max.	mm	880 / 950
Connection diameter	mm	200
Dimensions (L/W/H)	mm	1,104 × 1,100 × 900
Weight	kg	135
Allowed loading weight of consolidated cargo	kg	200

**Order No. 30013805**

For Easy and High Volume Extraction of Dust and Fumes

RG-100 – RG-800

RG with  
extraction arm

RG mobile

STYROSOG



### **Application Range**

- » Automotive Repair Shops
- » Chemical Industry
- » Construction Industry
- » Flocking Industry
- » Janitorial Cleaning Services
- » Joinery and Carpentry Shops
- » Machine Building Industry
- » Natural and Man Made
- » Paper Industry
- » Printing Industry
- » Stone Processing (Stone Masons)
- » Textile Industry
- » Transportation Businesses
- » Warehouses
- » Work Shops of Skilled Trades

Dust Extractors

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Systems

Pipe Systems

# Extraction Fans

## Introduction and Product Overview

### Introduction

The extractor fans in the **RG series** comprise medium pressure fans that are designed for a range of air extraction and circulation uses.

### Product overview

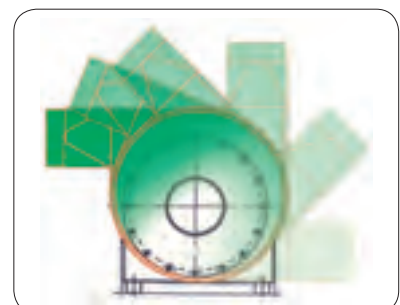
ESTA extractor fans **RG-100 to RG-800**, with their radial design, take care of airflow and negative pressure in the medium pressure range. They extract smoke-laden air from the extraction point via a suction line to a filter unit, which then separates the particles. Alternatively, the filtering process can be bypassed so that the air is released into the open.

**RG extraction fans with extraction arm** are an effective, economical means of extraction. A fan helps the extraction arm capture the dust or smoke and guide it unfiltered to the desired location (usually outdoors). The idea is to transport the exhaust air to another location inside or outside the building.

The **RG extraction unit with ball joint extraction arm** has a fastening console for wall or ceiling installation. The extraction arm has an oval hood and is two to three metres long.

**RG mobile extraction units** offer a simple, effective, economical solution for dust extraction at changing workstations. The devices are available in three performance levels with filter bag or cartridge filter for recirculation mode.

For extracting styrofoam chips from packing boxes, **STYROSOG** devices are the best choice. The chips are collected in a large plastic bag and can then be reused.



The exhaust outlet of the extracting fans can be adjusted to the desired position (up to and including model RG 300)

## Extraction Fans

### RG-100 to RG-800



Extraction fan RG-300



Extraction fan RG-400

#### Application Range

- » Extraction of individual and multiple workstations in industrial and skilled trade applications
- » In combination with filter units
- » For the extraction mode without filtration
- » For connection to extraction hoods

#### Special features

- » AC current for RG-100 and RG-200
- » Stainless steel (V2A) for the food industry
- » Motor mounted on the left hand side
- » Adjustable exhaust air outlet
- » Explosion proof



#### Ideal for

- Dusts
- Gases
- Odors
- Fumes



RG-300 in separate room

#### Technical Data

RG		100	200	300
Max. Airflow	m <sup>3</sup> /h	1.000	2.000	3.000
Intake/outlet diameter	mm	100	150	180
Max. negative pressure	Pa	1.400	1.600	2.300
Voltage	V	400	400	400
Motor	kW	0.55	1.1	2.2
Dimensions (L/W/H)	mm	535×450×480	595×520×555	640×535×610
Sound emission	dB(A)	80	82	84
<b>Order Number</b>		<b>01.011</b>	<b>01.021</b>	<b>01.031</b>

#### Technical Data

RG		400	500	600	700	800
Max. Airflow	m <sup>3</sup> /h	3.200	4.000	5.500	7.000	8.000
Intake/outlet diameter	mm	250/315	250/315	315/355	315/400	355/400
Max. negative pressure	Pa	3.150	3.400	3.500	3.400	3.950
Voltage	V	400	400	400	400	400
Motor	kW	3.0	4.0	5.5	5.5	7.5
Dimensions RG (L/W/H)	mm	711 × 700 × 1.012	711 × 700 × 1.012	737 × 700 × 1.062	762 × 700 × 1.062	820 × 1.000 × 1.198
Sound emission	dB(A)	84	84	84	83	84
<b>Order Number</b>		<b>01.441</b>	<b>01.451</b>	<b>01.461</b>	<b>01.471</b>	<b>01.481</b>

#### Your Benefits

- » High performance
- » Heavy duty construction
- » Low operating costs
- » Wide range of applications
- » Small space requirement due to compact design

For other sizes/performance ratings please inquire with us. All equipment will be supplied without motor protection switch.

# Extraction Fans

## Extraction Unit

### RG with Extraction Arm



Extraction unit RG-300/extraction arms

#### Application Range

- » Extraction of individual and multiple workstations in industrial and skilled trade applications
- » Direct extraction of smoke, gases and fumes
- » Extracting air without filtration



#### Ideal for

- Welding fume
- Soldering fume
- Dusts
- Vapors



Extraction unit RG-200 with 3.0m extraction arm

## ESTAPLUS

#### Special Feature

- » AC current for RG-100 and RG-200 (optional special order models)

#### Your Benefits

- » Complete solution made up of an RG extraction fan and extraction arm
- » Source capture with high extraction performance
- » Simple and efficient
- » Different blower sizes
- » Small space requirement due to compact design

#### Technical Data

Extraction unit (RG with extraction arm)		RG-100	RG-200	RG-300
Max. Airflow	m <sup>3</sup> /h	1.000	2.000	3.000
Intake diameter	mm	100	150	180
Max. negative pressure	Pa	1.400	1.600	2.300
Voltage	V	400	400	400
Motor	kW	0.55	1.1	2.2
Dimensions RG (L/W/H)	mm	400 × 550 × 500	490 × 600 × 550	540 × 630 × 600
Sound emission	dB(A)	80	82	84

#### Order Number

with extraction arm, 2,0 m	<b>01.111</b>	<b>01.123</b>	–
with extraction arm, 3,0 m	–	<b>01.121</b>	<b>01.131</b>
with extraction arm, 4,0 m	–	<b>01.122</b>	–

## Extraction Unit

### RG with Ball-Joint Extraction Arm



Extraction unit RG-200/ball joint extraction arm

#### Application Range

- » Extraction of individual and multiple workstations in industrial and skilled trade applications
- » Direct extraction of smoke, gases and fumes with ball-joint extraction arm
- » Extracting air without filtration



#### Ideal for

- Welding fume
- Fumes
- Odorants



RG-200 with ball joint extraction arm

**ESTA PLUS**

#### Special Features

- » AC current for RG-100 and RG-200 (optional special order models)
- » The installation bracket for ceiling mounting or wall mounting will be included in the scope of supply

#### Your Benefits

- » Complete solution made up of an RG extraction fan and ball-joint extraction arm
- » Source capture with high extraction performance
- » Small space requirement due to compact design
- » Easy handling

#### Technical Data

Extraction unit (RG with extraction arm)	RG-200	
Max. Airflow	m <sup>3</sup> /h	2.000
Intake diameter	mm	150
Max. negative pressure	Pa	1.600
Voltage	V	230/400
Motor	kW	1.1
Dimensions RG (L/W/H)	mm	400 × 600 × 550
Sound emission	dB(A)	82

#### Order Number

with extraction arm, 3,0 m	<b>01.121D</b>
with extraction arm, 4,0 m	<b>01.122D</b>

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

# Extraction Fans

## Mobile Extraction Unit

### RG with Dust Filter Bag



Mobile extraction unit RG-300 with dust filter bag

#### Application Range

- » Mobile filter system for dust
- » Connection to processing machines
- » Extraction of individual and multiple workstations in industrial and skilled trade applications



#### Ideal for

Plastic dust

Metal dust

#### Special features

- » AC current for RG-100 and RG-200
- » Wall-mount bracket



Wall-mount bracket with extension

**ESTA**PLUS

#### Special Feature

- » Available with dust filter bag or long life cartridge

#### Your Benefits

- » Simple and effective filter system
- » Mobile device for flexible use
- » Universal and versatile use

#### Technical Data

Extraction unit, mobile		RG-100	RG-200	RG-300
Max. Airflow	m <sup>3</sup> /h	1.000	2.000	3.000
Intake diameter	mm	100	150	180
Max. negative pressure	Pa	1.400	1.600	2.300
Voltage	V	400	400	400
Motor	kW	0.55	1.1	2.2
Dimensions (L/W/H)	mm	400 × 550 × 500	490 × 600 × 550	540 × 630 × 600
Sound emission	dB(A)	80	82	84
<b>Order Number</b>				
with filter bag		<b>04.011</b>	<b>04.021</b>	<b>04.031</b>
with cartridge filter		<b>04.111</b>	<b>04.121</b>	<b>04.131</b>
<b>Wall mount bracket</b>				
with filter bag		<b>08.011</b>	<b>08.021</b>	<b>08.031</b>
with cartridge filter		<b>08.111</b>	<b>08.121</b>	<b>08.131</b>

All extraction units are supplied with an extraction hose of 3.0 m length

## Packing Chips Vacuum Cleaner *STYROSOG*



STYROSOG 1000

### Application Range

- » Extracting styrofoam packing chips
- » Warehouse and packaging areas



### Ideal for

Styrofoam chips from packaging



An ideal combination:  
Chip separator and STYROSOG 1000



STYROSOG 1000  
for extracting packing chips

**ESTA PLUS**

### Your Benefits

- » Easy handling
- » Cost efficient through reuse of the Styrofoam packaging chips

### Technical Data

STYROSOG		1000	2000
Max. Airflow	m <sup>3</sup> /h	1.000	2.000
Intake diameter	mm	100	125
Max. negative pressure	Pa	1.300	1.800
Voltage	V	230	230
Motor	kW	0.55	1.3
Dimensions (L/W/H)	mm	400 x 550 x 500	400 x 600 x 550
Sound emission	dB(A)	80	82
<b>Order Number</b>			
with extraction hose 2.5 m, extraction pipe and extraction nozzle made of plastic		<b>03.011</b>	-
with extraction hose 3.0 m, extraction pipe and extraction nozzle made of metal		-	<b>03.021</b>

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

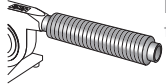










# Extraction Fans

## Accessories & Attachments

**ESTA**PLUS

### Your Benefits

- » Best Quality
- » Solid workmanship
- » Tight fit with ESTA products

Product Description	Order Number	RG-100	RG-200	RG-300	RG-400	RG-500	RG-600	RG-700	RG-800	STYROSOG
 <p><b>Muffler</b> flexible</p>	30.000.702	•								
	30.000.703		•							
	30.000.704			•						
	30.000.705				•					
	30.000.706					•				
	30.000.707						•			
	30.000.708							•		
	30.000.709								•	
 <p>Clamping ring for filter bag</p>	90.211	•								
	90.221		•							
	90.231			•						
 <p><b>Quick clamping device</b> for filter bag for cartridge filter for filter bag for cartridge filter</p>	90.411	•								
	90.412	•								
	90.421			•	•					
	90.431			•	•					
 <p><b>Filter bag</b> paper filter bag to be inserted in the fabric filter bag</p>	90.017	•	•	•						
 <p><b>Filter bag</b> fabric filter bag</p>	90.311	•								
	90.321		•	•						
 <p><b>Collection bag</b> made of plastic (1 Set = 10 pieces)</p>	90.116	•								
	90.117		•	•						•
 <p><b>Filling funnel</b> with spring loaded door for exact dosing of the desired filling quantity</p>	91.301									•
 <p><b>Rubber band</b> for secure attachment of the collection bag to the funnel</p>	91.303									•
 <p><b>Bag hanging bracket</b> grips the folds on the side of the bag</p>	91.305									•
 <p><b>Pulley with rope</b> for filtering small parts</p>	91.307									•
 <p><b>Chip pre-separator for STYROSOG 1000</b> for filtering small parts</p>	91.302									•

Effective and Targeted Source Capture of Dust and Fumes

With flanged hood **NEW**

With efficiency hood **NEW**

With square hood

Ball-joint extraction arms

Laboratory extraction arm



### Application Range

- » Automotive Repair Shops
- » Chemical Industry
- » Construction Industry
- » Flocking Industry
- » Joinery and Carpentry Shops
- » Janitorial Cleaning Services
- » Machine Building Industry
- » Metal Industry
- » Natural and Man Made
- » Paper Industry
- » Plastic Industry
- » Printing Industry
- » Stone Processing (Stone Masons)
- » Textile Industry
- » Transportation Businesses
- » Warehouses
- » Work Shops of Skilled Trades

### Test Certification:



# Extraction Arms

## Introduction and Product Overview



### Introduction

ESTA extraction arms are the best solution for the precise, flexible capturing of dusts, vapor and fumes. The ESTA extraction arm's hood can easily be moved to any extraction point and held there reliably. This ensures that your extraction device's suction performance is directed to the exact place where it is needed. Because even the most powerful extraction system is useless if the dust-laden air does not get to the device.

This makes ESTA extraction arms ideal wherever manual work is done or where machines without pipe connections are used. The extraction arm and extraction system must be matched for air performance. For this purpose, ESTA offers a broad selection of extraction arms of various diameters and lengths.

Their great flexibility, easy handling and exterior support structure frame offer the best possible efficiency. Furthermore, premium workmanship gives ESTA extraction arms a long service life.

A wide range of suitable extraction hoods and ATEX versions or high-alloy designs are also available.



## Extraction Arms *Flanged Hood*



Extraction arm with flanged hood

### Application Range

- » Extraction of individual and multiple workstations in industrial and skilled trade applications
- » For connection to extraction unit or pipework



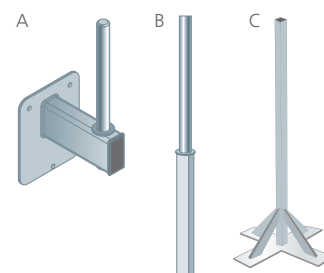
### Ideal for

- Fumes
- Vapors
- Dusts
- Shavings



Extraction arm at a welding station

### Mounting Possibilities



- A Wall-mount console (standard model)
- B Standpipe (for positioning in a suitable holding device at a machine or at the extraction equipment)
- C Floor standpipe, height: 1.000 mm, for extraction arm with standpipe

**ESTA PLUS**

### Special Features

- » External beam construction
- » Unobstructed air flow inside the extraction arm
- » Gas springs for easy adjustment
- » Optional: reducer and gate valves available for regulating the airflow
- » Optional: installation of lighting
- » Optional: ATEX version

### Your Benefits

- » Large selection of diameters and sizes
- » High flexibility
- » Easy handling
- » Targeted extraction

### Technical Data

Extraction arms with flanged hood										
	Ø 50	Ø 70	Ø 80	Ø 100	Ø 125	Ø 140	Ø 150	Ø 160	Ø 180	Ø 200
<b>Length / Order Number</b>										
1.500 mm	50.152	70.152	80.152	10.152	12.152	14.152	15.152	16.152	18.152	–
2.000 mm	50.202	70.202	80.202	10.202	12.202	14.202	15.202	16.202	18.202	20.202
3.000 mm	50.302	70.302	80.302	10.302	12.302	14.302	15.302	16.302	18.302	20.302
4.000 mm	–	–	–	10.4024	12.4024	14.4024	15.4024	16.4024	–	–
4.000 mm <sup>1)</sup>	–	–	–	10.402	12.402	14.402	15.402	16.402	18.402	20.402
5.000 mm <sup>1)</sup>	–	–	–	10.502	12.502	14.502	15.502	16.502	18.502	20.502
6.000 mm <sup>2)</sup>	–	–	–	10.602	12.602	14.602	15.602	16.602	18.602	20.602
8.000 mm <sup>3)</sup>	–	–	–	10.8024	12.8024	14.8024	15.8024	16.8024	–	–

<sup>1)</sup>inkl. 2.0m extension boom / <sup>2)</sup>inkl. 3.0m extension boom / <sup>3)</sup>inkl. 4.0m extension boom

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
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Filter Towers

Central Extraction  
Systems

Pipe Systems

# Extraction Arms

Suction arms

## Efficiency hood



Suction arm with efficiency hood

### Areas of application

- » For precise detection of smoke and dust
- » Single and multiple extraction points in industry and crafts
- » For connection to suction unit or pipeline

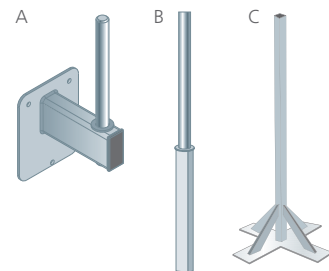


### Ideal for

- Fumes
- Vapors
- Dusts
- Shavings

Enlargement of the detection area  
**up to 30%**

### Mounting Possibilities



A Wall-mount console (standard model)

B Standpipe (for positioning in a suitable holding device at a machine or at the extraction equipment)

C Floor standpipe, height: 1.000 mm, for extraction arm with standpipe

**ESTA PLUS**

### Special features

- » External carrierconstruction
- » Air flow inside is not hindered
- » Gas springs for easy mobility
- » Optional: throttle and shut-off valves for control of suction air available
- » Optional: installation of lighting possible
- » Optional: ATEX version

### Benefits for you

- » High flexibility
- » Easy handling
- » Exact detection

Data depending on model version

### Technical Data

#### Extraction arms with efficiency hood

Ø 140

#### Length / Order Number

1.500 mm	<b>14.154</b>
2.000 mm	<b>14.204</b>
3.000 mm	<b>14.304</b>
4.000 mm <sup>1)</sup>	<b>14.404</b>
5.000 mm <sup>1)</sup>	<b>14.504</b>
6.000 mm <sup>2)</sup>	<b>14.604</b>

<sup>1)</sup>incl. 2,0m extension boom / <sup>2)</sup>incl. 3,0m extension boom

## Extraction Arms *Square Hood*



Extraction arm with square hood

Absaugarm mit quadratischer Haube

### Application Range

- » For large-area sensing of dust and fume
- » Extraction of individual and multiple workstations in industrial and skilled trade applications
- » Connection to extraction unit or pipework



### Ideal for

- Fumes
- Vapors
- Dusts



Square hood with baffle plate at a weighing station

**ESTAPLUS**

### Special Features

- » External beam construction
- » Unobstructed air flow inside the extraction arm
- » Gas springs for easy adjustment
- » Optional: reducer and gate valves available for regulating the airflow
- » Optional: ATEX version

### Your Benefits

- » Large capturing area
- » Easy handling
- » High Flexibility

### Technical Data

Extraction arms with square hood						
	Ø 100	Ø 125	Ø 140	Ø 150	Ø 160	Ø 180
Hood: 500 x 500 mm	✓	✓	-	-	-	-
Hood: 600 x 600 mm	-	-	✓	✓	✓	✓
Length / Order Number						
1.500 mm	10.153	12.153	14.153	15.153	16.153	18.153
2.000 mm	10.203	12.203	14.203	15.203	16.203	18.203
3.000 mm	10.303	12.303	14.303	15.303	16.303	18.303
4.000 mm	10.4034	12.4034	14.4034	15.4034	16.4034	-
4.000 mm <sup>1)</sup>	10.403	12.403	14.403	15.403	16.403	18.403
5.000 mm <sup>1)</sup>	10.503	12.503	14.503	15.503	16.503	18.503
6.000 mm <sup>2)</sup>	10.603	12.603	14.603	15.603	16.603	18.603
8.000 mm <sup>3)</sup>	10.8034	12.8034	14.8034	15.8034	16.8034	-

<sup>1)</sup> incl. 2.0m extension boom / <sup>2)</sup> incl. 3.0m extension boom / <sup>3)</sup> incl. 4.0m extension boom

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

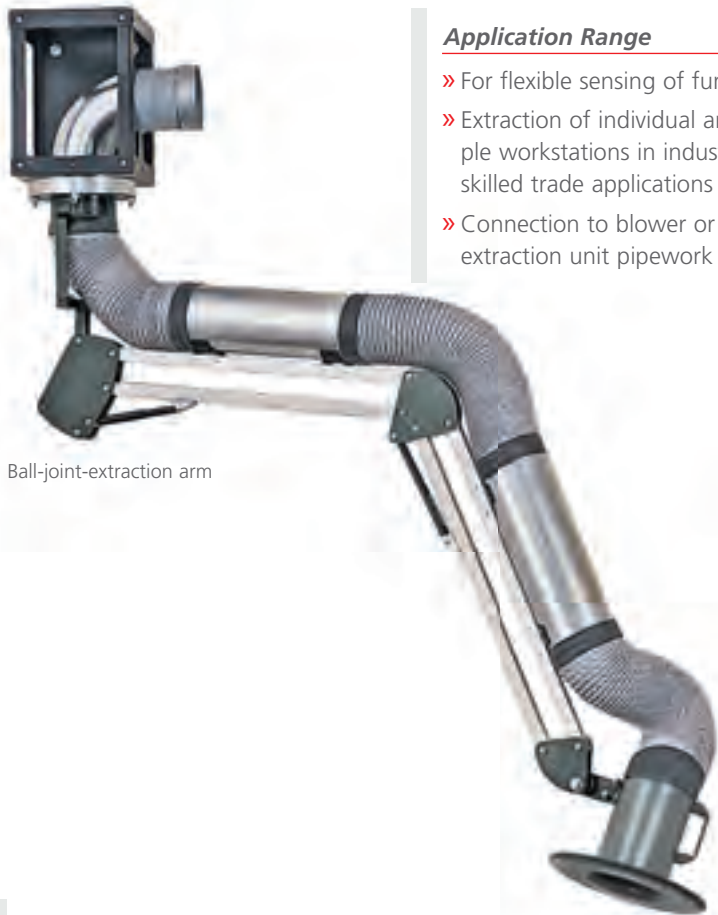
Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## Ball-Joint Extraction Arms



Ball-joint-extraction arm

### Application Range

- » For flexible sensing of fume
- » Extraction of individual and multiple workstations in industrial and skilled trade applications
- » Connection to blower or extraction unit pipework



### Ideal for

- Welding fume
- Vapors



Ball-joint-extraction arm in use

**ESTA PLUS**

### Special Features

- » Swivel range:
  - ceiling mounted unit 360°
  - wall mounted unit 180°
- » External beam construction
- » Unobstructed air flow inside the extraction arm
- » Gas springs for easy adjustment
- » Optional reducer and gate valves available for regulating the airflow
- » Optional installation of lighting
- » Optional ATEX version

### Your Benefits

- » Low maintenance
- » For ceiling and wall mounting
- » Easy handling
- » Can accommodate large work areas

### Technical Data

#### Ball-joint extraction arm with oval hood

	Ø 80	Ø 100	Ø 125	Ø 140	Ø 150	Ø 160	Ø 180
<b>Length / Order Number</b>							
2.000 mm	80.202D	10.202D	12.202D	14.202D	15.202D	16.202D	18.202D
3.000 mm	80.302D	10.302D	12.302D	14.302D	15.302D	16.302D	18.302D
4.000 mm	-	10.402D	12.402D	14.402D	15.402D	16.402D	18.402D

#### Ball-joint extraction arm with square hood

<b>Length / Order Number</b>							
2.000 mm	-	10.203D	12.203D	14.203D	15.203D	16.203D	18.203D
3.000 mm	-	10.303D	12.303D	14.303D	15.303D	16.303D	18.303D
4.000 mm	-	10.403D	12.403D	14.403D	15.403D	16.403D	18.403D

## Laboratory Extraction Arm 50 D



Laboratory extraction arm 50 D

### Application Range

- » Extraction of individual and multiple workstations in laboratories, industrial and skilled trade applications
- » For the precise sensing of fine dusts and fumes
- » Dental laboratories

### Ideal for

- Soldering fumes
- Dusts
- Odorants
- Vapors



Multiple extraction units for the extraction of solder fumes



Extraction hood with round orifice and integrated lighting



Airflow valve to regulate the extraction volume

ESTA PLUS

### Special Features

- » Airflow control valve
- » Wall mounting, table mounting or clamping fixture
- » Ceiling mounting is possible with a special bracket
- » Choice of six different types of extraction hoods
- » Optional integrated lighting
- » Optional ATEX version

### Your Benefits

- » Precise sensing
- » Space saving
- » Extraction hood for any application
- » Easy handling

### Technical Data

<b>Laboratory extraction arm incl. table mounting device</b>	<b>50D</b>
Total extension mm	<b>900</b>
<b>Order Number</b>	<b>50.080</b>

Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

# Filter Towers

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FILTOWER F – for fumes

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FILTOWER D – for dusts

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FILTOWER L – for oil- and emulsion mist

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FILTOWER *ecolight/eco<sup>+</sup>/4.0/ecotemp*

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## ***Application Range***

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- » Aircraft construction
- » Automobile industry
- » Chemical industry
- » Food industry
- » Machine building industry
- » Metal industry
- » Plastics industry
- » Shipbuilding industry
- » Stone Industry
- » Vehicle construction

## FILTOWER-F

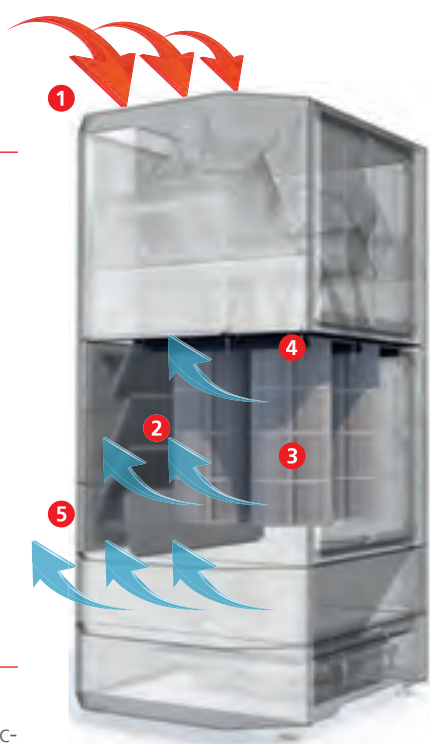


### 3 Different Applications 3 Different Sizes

**FILTOWER-F** – Welding Fume  
**FILTOWER-D** – Dust  
**FILTOWER-L** – Oil- & Emulsion Mist

**FILTOWER-100** – 10.000 m<sup>3</sup>/h  
**FILTOWER-160** – 15.000 m<sup>3</sup>/h  
**FILTOWER-200** – 20.000 m<sup>3</sup>/h

## Up to 70% Heating cost savings!



- 1 Extraction of contaminated air
- 2 **Pre-separation system**  
(calculated separation efficiency >80% for particles ≥ 50 µm) serves as a spark pre-separation system and filters coarse particles.
- 3 Filtration of residual dust particles through long life cartridge filters with nanofibers of dust class M (99.9% separation efficiency)
- 4 Easy filter change of highly-effective long life cartridge filters thanks to the newly-developed, **ESTA QuickChange filter change system**
- 5 Low-draft recirculation via outlets on side

**ESTAPLUS**

#### Special Features

- » Two parallel-connected fans, separately switchable
- » Three power stages – suitable for each application
- » New, patented filter change system for low-dust filter exchange
- » Highly effective pre-separation system
- » Low-impulse air leakage
- » Mobile dust collection drawer with disposal box and with collection insert for FILTOWER L

#### Your Benefits

- » Best air quality in the workplace
- » Plug & Play: Position, connect electricity and compressed air – done!
- » Powerful and low-noise suction
- » Can be placed in the work area (no pipe installation)
- » Flexible deployment; easy to move with forklift or crane
- » Low operating costs thanks to cleanable permanent filter cartridges

Data dependent on equipment type



Movable dust collection drawer



Intuitive device control

Dust Extractors

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Welding Fume  
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Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## FILTOWER-F



FILTOWER-F 50

For welding fume



Ideal for

Welding fume

Soldering fume



Product Video

### Application Range

- » Supplementary solution for maintaining dust limits, where extraction at certain points alone will not suffice
- » For welding processes, for which suction at specific points is impractical
- » For supporting direct extraction
- » For improving room air quality

### Special Versions

- » With IFA test certificate "W3" for extraction during welding of high-alloy steel
- » Optionally with activated carbon applications for the filtration of gases and odorous substances
- » With frequency converter for regulating extraction performance
- » Special voltage
- » Special paint



FILTOWER-F 160



## FILTOWER-D und FILTOWER-L



FILTOWER-D 160

### For dusts

#### Ideal for

- Fine, floating particulate matter
- Plastic dust
- Chemical dust
- Bulk material applications

#### Application Range

- » Supplementary solution for maintaining dust limits, where extraction at certain points alone will not suffice
- » For improving room air quality

#### Special Versions

- » Optionally with activated carbon applications for the filtration of gases and odorous substances
- » With frequency converter for regulating extraction performance
- » Special voltage
- » Special paint



FILTOWER-L 160

### For Oil- and emulsion mist

#### Ideal for

- Aerosols
- Oilmist
- Emulsion mist
- Fumes

#### Application Range

- » Supplementary solution for maintaining limits
- » For supporting direct extraction on cutting
- » Production machinery (CNC-processing)
- » For improving room air quality

#### Special Versions

- » Optionally with activated carbon applications for the filtration of gases and odorous substances
- » With frequency converter for regulating extraction performance
- » Special voltage
- » Special paint

Dust Extractors

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Extraction Units

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Central Extraction  
Systems

Pipe Systems

**NEW**

## FILTOWER *ecolight* and FILTOWER *eco*<sup>+</sup>



FILTOWER *ecolight*

The *ecolight* design ensures that the FILTOWER's extraction performance can be adjusted manually **as appropriate** during operation, which raises the level of efficiency and optimises operating costs.

This is made possible by the new **ESTA EasyControl** controller and the use of frequency converters to **regulate the air volume flow**.

**FILTOWER *ecolight* design:**

- » ESTA EasyControl device control
- » Frequency converter
- » Adjustable timer



FILTOWER *eco*<sup>+</sup>

The FILTOWER *eco*<sup>+</sup> series combine outstanding extraction and filtration performance for maximum efficiency at low operating costs. All thanks to the new **ESTA EasyControl device control** with sophisticated sensor technology and the application of frequency converters.

**FILTOWER *eco*<sup>+</sup> design:**

- » ESTA EasyControl device control
- » Frequency converter for fan motors
- » Programmable timer
- » Dust sensors in the raw gas and clean air areas for performance control as well as residual dust and filter break monitoring
- » Level measurement in collection container



**ESTA EasyControl** is a newly-developed device control that ensures energy-efficient device operation with state-of-the-art sensor technology. **Power savings of up to 50%** compared to conventional differential pressure controls are obtained through current volume flow measurement and the fully-automated regulation of the extraction performance based on the operating parameters.

**NEW**

## FILTOWER 4.0 and FILTOWER ecotemp

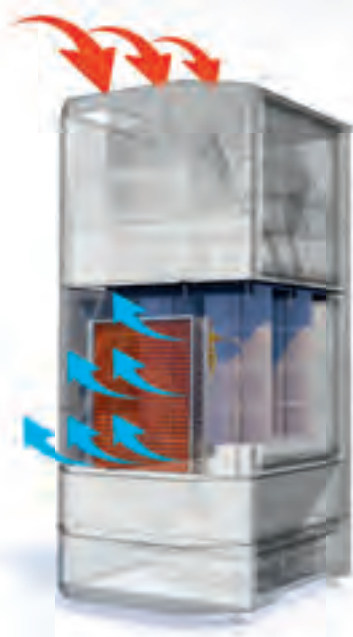


FILTOWER 4.0

Intelligently connected and energy-saving: the FILTOWER 4.0 models have integrated protocol and network functions. Measurement and operating data can be processed quickly and easily in digital form. In addition to the **ESTA EasyControl device control**, frequency converters ensure efficient operation.

### FILTOWER 4.0-design:

- » Protocol and network functions via customer's LAN network
- » Digital installation support
- » ESTA EasyControl device control
- » Frequency converter for fan motors
- » Programmable timer
- » Dust sensors in the raw gas and clean air areas for performance control as well as residual dust and filter break monitoring
- » Level measurement in collection container



FILTOWER ecotemp

In addition to the outstanding extraction and filtration abilities, the filter towers in the **ecotemp** range also create a comfortable room climate in the working area.

### FILTOWER ecotemp design:

- » Energy-efficient cooling or heating possible by two slatted heat exchangers
- » Stepless regulation of temperature
- » Environmentally friendly (water quantity: 4 m<sup>3</sup>/h / Connection: 1 inch)
- » Low maintenance costs through clean gas side installation
- » Drain taps for condensation
- » Stainless steel drip tray
- » Low loss of pressure through large vector surface



Fully equipped industrial coolers ready for connection, suitable for indoor and outdoor installation

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## FILTOWER-Series at a glance

	Standard	ecolight	eco <sup>+</sup>	4.0
ESTA QuickChange filter changing system	●	●	●	●
Jet pulse filter cleaning	●	●	●	●
Fans with IE3 motor drive	●	●	●	●
ESTA Easy Control controller	×	●	●	●
Frequency converter	×	●	●	●
Simple volumetric flow control	×	●	●	●
Timer	×	○	○	○
Automatic control of the suction power using dust sensors	×	×	●	●
Residual dust and filter monitoring	×	×	●	●
Level measurement in the dust collection vessel	×	×	●	●
Digital erection aid	×	×	○	●
Recording of the operational data	×	×	○	●
Remote maintenance and control via LAN/WiFi	×	×	×	●
<i>ecotemp</i>	○	○	○	○

● = included    ○ = optional    × = not included

## OPTIONS AND SPECIAL VERSIONS – ACCOMODATING INDIVIDUALITY

- » Fire sensor with extinguishing system
- » Ecotemp design with heating and/or cooling module\*
- » Activated carbon inserts for filtering gases and odorous substances
- » Special coating in RAL colour
- » IFA test certificate W3 for extraction when welding high-alloy steels\*\*



\* Only available as a new purchase  
 \*\* FILTOWER F

## FILTOWER

### Technical Data

FILTOWER		50	100	160	200
Max. Airflow	m <sup>3</sup> /h	5.600	10.000	15.000	20.000
Max. negative pressure	Pa	3.300	2.800	2.800	2.800
Voltage	V	400	400	400	400
Motor	kW	4.0	2×3.0	2×4.0	2×7.5
Filter surface	m <sup>2</sup>	56	100	160	200
Filter elements	Piece	4	4	4	4
Dust collection container	l	100 – 150	150	150	150
Dimensions (L/W/H)	mm	2.180×3.000×2.400	2.060×1.510×2.950	2.060×1.510×3.350	2.060×1.510×3.850
Weight	kg	445	1.100	1.200	1.500
Sound emission	dB(A)	78	71	75	77

### Order Number

	50	100		160		200	
			ecotemp		ecotemp		ecotemp
<b>FILTOWER F</b> Standard	–	667100	690100	667160	690160	–	–
With test certificate W3	–	664100	703100	664160	703160	680200003	699200003
ecolight	680050	680100	699100	680160	699160	680200	699200
eco+	–	670100	696100	670160	696160	670200	696200
4.0	–	673100	691100	673160	691160	673200	691200
<b>FILTOWER D</b> Standard	–	663100	694100	663160	694160	–	–
ecolight	676050	676100	701100	676160	701160	676200	701200
eco+	–	671100	698100	671160	698160	671200	698200
4.0	–	674100	695100	674160	695160	674200	695200
<b>FILTOWER L</b> Standard	–	660100	692100	660160	692160	–	–
ecolight	–	677100	700100	677160	700160	677200	700200
eco+	–	672100	697100	672160	697160	672200	697200
4.0	–	675100	693100	675160	693160	675200	693200



# Central Extraction Systems

Central Extraction Systems Tailored to Your Application

Side Channel  
Blowers

High and Medium  
Pressure Fans

Rotary Piston  
Blowers

Filter Cyclones

Modular  
Filter Systems

Ventilation of  
Production Facilities

Extraction Hoods

Soundproofed Cabins



## ***Application Range***

- » Agricultural Processing
- » Aircraft Industry
- » Automotive Repair Shops
- » Automotive Supplier Industry
- » Construction Industry
- » Electronics Industry
- » Engine Manufacturing Plants
- » File Shredding
- » Food Processing Industry
- » Machine Building Industry
- » Metalworking Industry
- » Mills
- » Paper Industry
- » Pharmaceutical Industry
- » Plastics Processing Plants
- » Precision Mechanical Industry
- » Printing Industry
- » Processing Facilities
- » Recycling and Waste
- » Research and Development
- » Ship Building Industry
- » Shoe Manufacturing Plants
- » Tobacco Companies
- » Vacuum Systems
- » Vehicle and Auto Body Plants
- » Welding Facilities

## Introduction and Product Overview



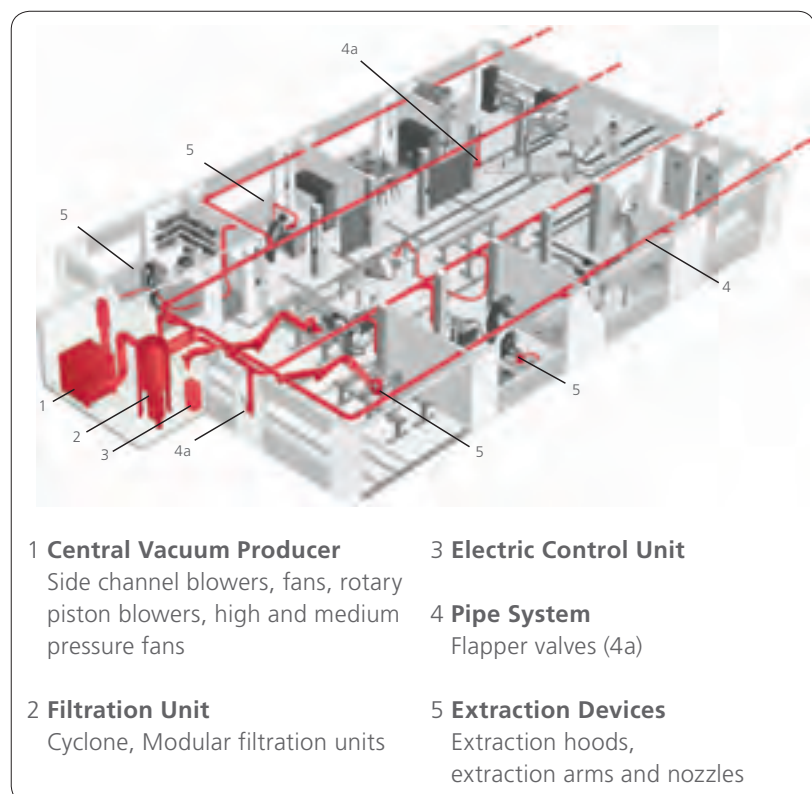
### Introduction

Central extraction systems can extract dust simultaneously from multiple nozzles or machines through a suitable pipe system. Whether you need to extract coarse or fine dust, wet or dry, vapours or smoke - ESTA extraction systems can be adapted to the requirements of each specific application. The modular design of ESTA central dust extraction systems makes it possible to offer systems that are customized to your specific application. Our sales engineers will configure the optimal system including a suitable pipe system, filtration unit and a central vacuum generator.

### ESTA central extraction systems offer many advantages:

- » Very high efficiency of the vacuum generator
- » Quiet operation through sound insulation and if necessary special sound dampening enclosures
- » Wear resistant and maintenance free design
- » Low operating costs through cleanable long life filters and high energy efficiency of the systems
- » Modern control cabinets in all variants **NEW**
- » Complete service – from design through installation to start-up operation and maintenance

**Benefit from our over 45 years of experience with extraction technology.**



Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

**Central Extraction  
Systems**

Pipe Systems

## Side Channel Blowers



Schematic illustration of a side channel blower with direct drive



ESTA side channel blowers are assemblies used when strong suction power is needed. This includes central dust extraction systems in production areas, power plants, trash incinerators, manufacturing areas, etc.

The compressors are also available in an ATEX-compliant design.



Central vacuum unit equipped with two side channel blowers

**ESTA PLUS**

### Application Range

- » Extraction from multiple workstations in industrial manufacturing and processing
- » Multi-shift operation possible
- » Optional: ATEX version

### Your Benefits

- » High negative pressure
- » Quiet operation through sound insulation and suitable positioning
- » Wear and maintenance free design
- » Low operating costs through high energy efficiency

### Technical Data

Side Channel Blowers		TDS-13	TDS-18.5	TDS-22	TDP-11	TDP-18.5	TDP-22	TDP-26
Max. Airflow	m <sup>3</sup> /h	1.140	1.140	1.140	790	2.100	2.100	2.100
Intake diameter	mm	140	140	140	100	180	180	180
Max. negative pressure	Pa	23.500	38.000	40.500	30.000	23.500	27.000	31.500
Voltage	V	400	400	400	400	400	400	400
Motor	kW	13.0	18.5	22.0	11.0	18.5	22.0	26.0
Motor speed	1/min	3.000	3.000	3.000	3.000	3.000	3.000	3.000
Dimensions (W×H×D)	mm	990 × 1.730 × 1.200						
Sound emission	dB(A)	78	96	90	85	93	88	93

**Order Number**      301.101 301.103 301.105 301.100 301.102 301.104 301.106

Please inquire with us about additional units

## High and Medium Pressure Fans



Schematic illustration of a direct drive high pressure ESTA fan

ESTA fans are designed and built to the latest flow standards. This guarantees high performance with low energy consumption.

They can be used as vacuum generators in extraction systems or as blowers for extracting welding fumes, dusts and shavings.



High pressure fans combined with ESTA filter cyclones

**ESTA PLUS**

### Application Range

- » High-pressure fans for multi-user extraction
- » Ideal component for a central extraction system
- » Supply and extraction fan (e.g. for cooling)
- » Central welding fume extraction
- » Applications in which a very constant negative pressure is required at a high air flow rate

### Your Benefits

- » Constant high airflow volume
- » Quiet operation through sound insulation and remote positioning
- » Industrial strength and maintenance free design
- » Low operating costs through high energy efficiency

### Technical Data

High and Medium pressure fans		MDV-7,5	MDV-15	HDV-11	HDV-18,5	HDV-22	HDV-30
Max. Airflow	m³/h	3.400	6.700	2.000	3.000	3.800	6.000
Intake diameter*	mm	280	355	260	250	280	355
Max. negative pressure	Pa	4.400	4.500	8.200	10.300	10.400	10.300
Voltage	V	400	400	400	400	400	400
Motor	kW	7.5	15.0	11.0	18.5	22.0	30.0
Motor speed	1/min	3.000	3.000	3.000	3.000	3.000	3.000
Dimensions (W×H×D)	mm	1.310 × 1.676 × 1.600					
Sound emission	dB(A)	69	73	73	73	76	79
<b>Order Number</b>		<b>301.000</b>	<b>301.001</b>	<b>301.002</b>	<b>301.003</b>	<b>301.004</b>	<b>301.005</b>

Please inquire with us about additional units  
\* = Depending on the type of application

Dust Extractors

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## Rotary Piston Blowers



Rotary piston blower



ESTA rotary blowers are intended for use where there is high negative pressure while air flow remains constant.

Their combination with the ESTA FZ cyclone filter is the core of a reliable high-vacuum extraction system.

Especially for process extraction systems, or for long, wide-branching pipeline systems, rotary blowers are the right choice.



Rotary piston blower application photo

### ESTA PLUS

#### Application Range

- » Extraction from multiple workstations in industrial manufacturing and processing
- » Applications where constant negative pressure is required

#### Your Benefits

- » Extremely constant negative pressure
- » Quiet operation through sound insulation and remote positioning
- » Industrial strength and maintenance free design
- » Low operating costs through high energy efficiency

#### Technical Data

Rotary piston blowers		DKG-11	DKG-15	DKG-37	DKG-75
Max. Airflow	m <sup>3</sup> /h	510	840	1.860	3.720
Intake diameter	mm	80	100	150	200
Max. negative pressure	Pa	40.000	40.000	40.000	40.000
Voltage	V	400	400	400	400
Motor	kW	11.0	15.0	37.0	75.0
Motor speed	1/min	2.915	2.925	2.945	2.970
Dimensions (W×H×D)	mm	1.230 × 1.306 × 1.200	1.230 × 1.306 × 1.200	1.655 × 1.820 × 1.600	2.110 × 2.330 × 1.750
Weight	kg	550	600	1.180	2.500
Sound emission	dB(A)	71	72	78	85
<b>Order Number</b>		<b>302.101</b>	<b>302.102</b>	<b>302.103</b>	<b>302.104</b>

Please inquire with us about additional units

## Cyclonic Filtration Units



Cyclonic filtration unit

### Application Range

- » Extraction from multiple workstations in industrial manufacturing and processing
- » As a filter for high-vacuum extraction
- » For the deposition of dust, shavings and fumes



### Ideal for

- Metal dust
- Plastic dust
- Shavings of all kinds
- CRP-/GRP-dusts
- CRP-/GRP-shavings
- ... and much more



Two cyclonic filters as part of an extraction system

### Special Version

- » ATEX version

### Special Features

- » Compact design
- » Suitable for continuous operation

### Your Benefits

- » The dual filter system is suitable for coarse and fine dust
- » Quiet operation through sound insulation and remote positioning
- » Industrial duty and maintenance free design
- » Low operating costs through cleanable filters and high energy efficiency
- » Suitable for applications requiring high negative pressure

### Technical Data

Cyclonic filtration unit	FZ-1003	FZ-1503	FZ-3003	FZ-5003	FZ-7003	FZ-11003
Cartridge filter (dia./L)	150/660	150/1.000	325/600	325/1.000	325/600	325/1.000
Intake diameter* mm	159	159	355	355	400	400
Filter elements Pieces	4	4	3	3	7	7
Filter surface per cartridge m <sup>2</sup>	2.5	3.6	10	16.7	10	16.7
Filter surface m <sup>2</sup>	10	14.4	30	50	70	117
Dust collection container l	100	100	100	100	200	200
Dimensions (dia./H) mm	674 / 2.280	674 / 2.580	1.335 / 3.120	1.335 / 3.450	1.915 / 3.866	1.915 / 4.270
Diameter mm	600	600	1.259	1.259	1.800	1.800
<b>Order Number</b>	<b>300.027</b>	<b>300.031</b>	<b>300.032</b>	<b>300.033</b>	<b>300.034</b>	<b>300.035</b>

Please inquire with us about additional units

\* Depending on the type of application

## Modular Extractors DUSTMAC



Filter unit DUSTMAC P

### Application Range

- » Extraction from multiple workstations in industrial manufacturing and processing
- » As a filter unit for medium pressure systems up to 15,000 Pascal

### Ideal for

- Metal dust
- Welding fume
- Concrete dust
- Plastic dust
- Fibrous materials



DUSTMAC F-144 in the metalworking industry

### ESTA PLUS

#### Special Features

- » Highly efficient filter cleaning process during operation of the system
- » The modular design makes it possible to adapt the system to each specific application
- » Special design features make use of pre-separation principles
- » Supplied with cartridge or tubular bag filter

#### Your Benefits

- » Modular design (expandable as your production expands)
- » Adaptable to "Your" particular type of dust
- » Customer specific system configuration
- » Low operating costs due to cleanable filter media
- » Small space requirement due to compact design

Data dependent on equipment type



DUSTMAC P (with cartridge filters)



DUSTMAC S (with tubular bag filters)

### Technical Data

	Page
<b>DUSTMAC P</b> with cartridge filters – Complete system	31
<b>DUSTMAC S</b> with tubular bag filters – Complete system	32
<b>DUSTMAC F</b> for welding fume – Complete system	66
<b>DUSTMAC X</b> for custom configurations	109

## Custom Configurations DUSTMAC X

With DUSTMAC-series modular filter units, individual system designs can be created for central multi-user extraction – for nearly any type of dust and almost any industry.

Based on the type, volume and amount of dust, an appropriate filter is used in the system housing. Even a suitable fan (such as MDV or RG) can be integrated into the system design based on specific requirements. Then a pipe system can connect the system to any number of extraction points.



Individual plant concept with DUSTMAC filter units in the shoe industry

### Dust Removal

Collection and removal of the extracted dust – with three different methods depending on your application. For additional collection and removal options kindly contact us.



Mobile dust collection container



Removal through rotary valve



Directly into a container

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## Cyclonic Filtration Units

The modular design of the ESTA DUSTMAC model series makes it possible to adapt these central extraction systems to the individual applications and conditions at the customer's production facilities. This guarantees that our customers receive the most suitable extraction system for their particular situation.

Our sales engineers are always available for a personal consultation at your company to determine the best possible configuration of your extraction system.



### Extraction Fans

Generally there are two types of extraction fans – high and medium pressure fans. Medium pressure fans are characterized by high airflow volumes to ensure the most complete extraction of the dust or fumes to be captured.

High pressure fans produce high air velocity to capture dust or fumes at the source. Fans with an output of up to 15 kW are usually mounted on the filtration unit. Larger fans will be positioned as stand alone units next to the filtration units (see Page 99).

### Filtration Unit

The filtration unit(s) is (are) the “heart” of the central extraction system. Depending on the type of dust, quantity of dust and its composition the filtration units will be equipped with different types of filters.

During and after operation the filters will automatically be cleaned with a pulse-jet cleaning system. The geometry of the filter housing is a key factor for a long filter life and for effective filter cleaning. It ensures the ventilation technologically correct airflow conditions inside the filter housing.

### Dust Removal

There are several methods available to collect the material that has been filtered out. In most cases the dust will be collected in a drum that is positioned at the tapered bottom of the filtration units.

For this purpose we have drums of 50, 100 or 200 Litres capacity available. Other methods are rotary valves for continuous removal, high capacity containers, shuttle valves or pinch valves.

**NEW**

Modular welding smoke filter unit

**WELDEX**



Central filter unit with extinguishing system in a welding fume extraction system



### Areas of application

- » Spatial ventilation for welding-work, push-pull processes and layer ventilation
- » Welding fume extraction on hoods and extraction arms
- » Cabin extraction
- » Extraction with robotwelding and on automated production lines
- » Extraction on flame, plasma and laser cutting tables

**ESTA PLUS**

### Special features

- » For welding fume extraction for air volumes up to 150,000 m<sup>3</sup>/h
- » Modular design and expandable
- » Filter materials suitable for the application
- » Registered for W3 examination (IFA)
- » Pre-separator and extinguishing system to minimise fire risks
- » Can be combined with heat recovery systems

### Benefits for you

- » Compact design
- » All components are integrated in weatherproof housing
- » **ESTA Quick-Change filter-changing system** for fast and low dust filter change
- » Optimum accessibility of all system components
- » Wide range of control variants including ESTA *eco*<sup>+</sup> control for minimum energy consumption

Data depending on model version

Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

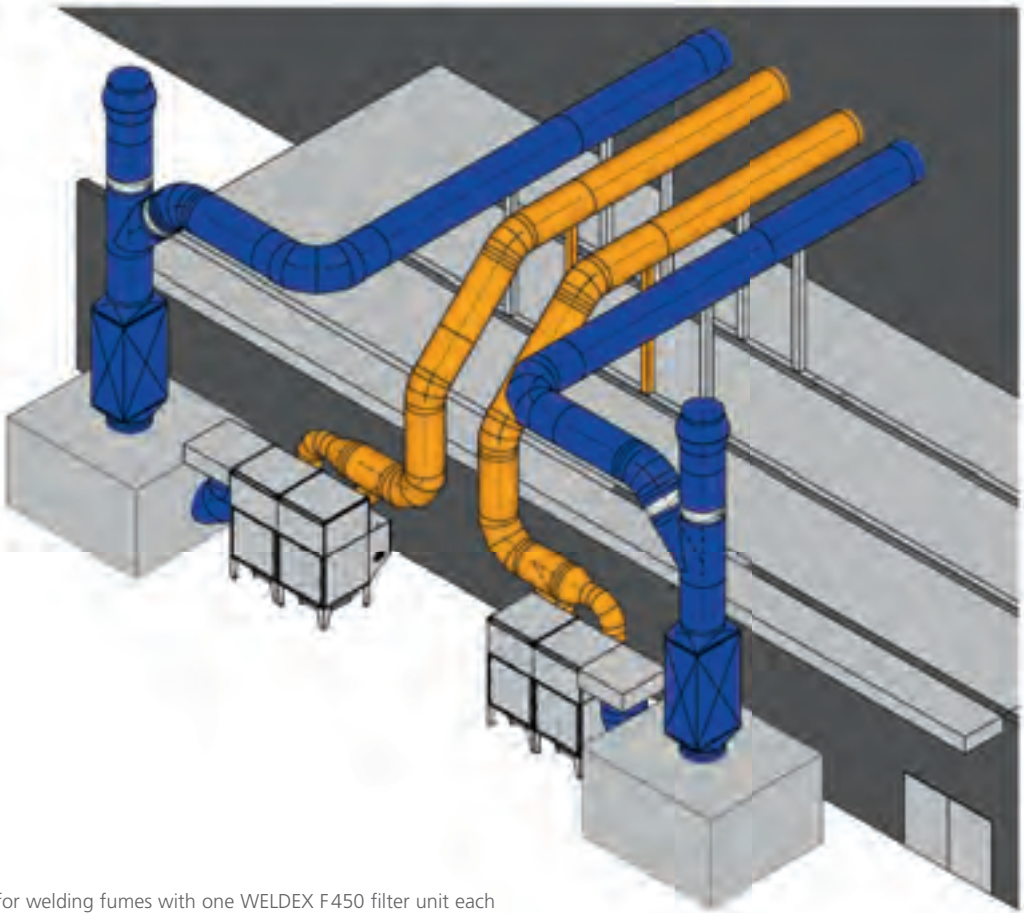
Extraction Arms

Filter Towers

**Central Extraction Systems**

Pipe Systems

# Central Extraction Systems



Two extraction systems for welding fumes with one WELDEX F450 filter unit each

### Details

Modular design of WELDEX filter units



WELDEX F225 with one module



WELDEX F450 with two modules

### Technical data

WELDEX filter unit		F225	F450	F675
Filter area	m <sup>2</sup>	225	450	675
Filter elements	Unit	9	18	27
Dimensions (D/W/H)	approx. mm	2,130 × 1,510 × 2,970	2,130 × 4,150 × 2,970	2,130 × 5,600 × 2,970
Weight	approx. kg	800	1,550	2,300

Technical data per filter unit  
Other model sizes on request!

## Ventilation of Production Facilities

In some production areas or manufacturing processes, particle size or other production conditions make it impossible to extract fumes directly. For this, ESTA offers various concepts for hall ventilation.

Here all the air in these spaces is cleaned of smoke and dust particles to comply with applicable regulations and to create a pleasant environment in the hall.

The core of this concept is the WELDEX series. Its modular design handles any volume of air and allows combination with additional devices, such as heat exchangers, heating and cooling registers, etc.

The ESTA FILTOWER series filter tower works as a free-standing system to clean the air in the hall without a pipeline connection.

### Ideal for

Cleaning the hall's air of welding fumes, oil mist and airborne dusts through thermal ventilation.

This allows the system to be moved anywhere within the hall, at any time, and at no cost.



WELDEX FE



FILTOWER Series



ESTA Upstream Stratification Ventilation

ESTAPLUS

### Your Benefits

- » Reduction of the operating costs through energy efficient designs including heat reclamation
- » Flexibility in the work area (no changes in the pipe systems are required in the event of machine layout changes)
- » Constantly optimised fresh air quality
- » Minimal life cycle costs with ESTA filter cleaning service

### ESTA Upstream Stratification Ventilation

- » Building ceiling height > 7,5 m
- » High thermal loads, welding rod consumption > 10 tons per year
- » Fresh air supply vents near the floor to generate a layer of cool air
- » Sensors for continuous temperature measuring and fully automated control of the fresh air volume
- » Low air flow rates sufficient
- » Suitable for cooling

### ESTA Push Pull Mixing Ventilation

- » Building ceiling height < 7,5 m
- » Low thermal loads, welding rod consumption < 10 tons per year
- » Special long-range air jets
- » Two pipe systems located opposite of each other
- » Suitable for heating and cooling

Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

## Ventilation of Production Facilities

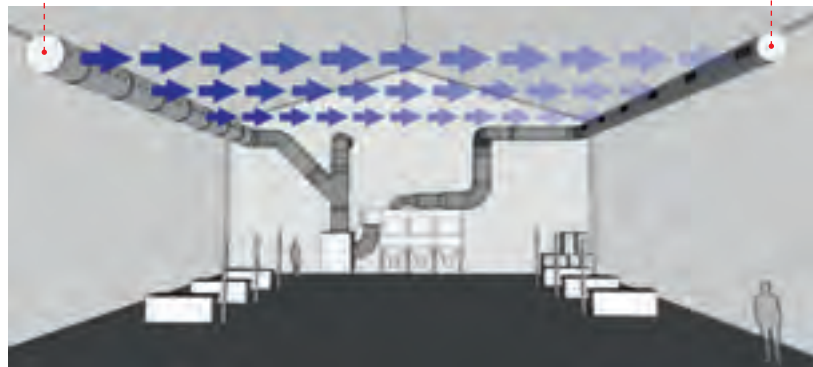
### ESTA Push Pull Mixing Ventilation

#### Operating Principle:

- » Fresh air supply and contaminated room air are mixed vigorously
- » Temperature and contaminant concentration are equally distributed in the work area
- » A stream of air is blown into the room from the wall on one side – horizontally to the room – and then extracted at the wall on the opposite side of the room
- » The filtered air can be returned and summer/winter operation is possible through an air handling unit with optional heat reclamation, heating and cooling

Incoming air pipe system with long-range nozzles

Extraction pipe system with intake vents



Product-Video

### ESTA Upstream Stratification Ventilation

#### Operating Principle:

- » The plume generated at the welding location transports heat and contaminants to the upper area of the manufacturing facility
- » At the floor level of the plant the flow volume generated by the updraft is replaced by a cooler low flow air supply

- » Consequently two separate layers of air are forming in the production facility – one with fresh air in the work area and one with contaminated air in the upper part of the facility

- » Return of filtered air and summer/winter switchover through an air handling unit with optional heat reclamation, heating and cooling
- » Fully automated control of the fresh air volume via temperature sensors

Fresh air intake (Optional: Cooling)

Low flow air supply into the plant with room temperature <math>< 4^\circ\text{C}</math> at air inleat

Extraction pipe system

Air supply pipe system

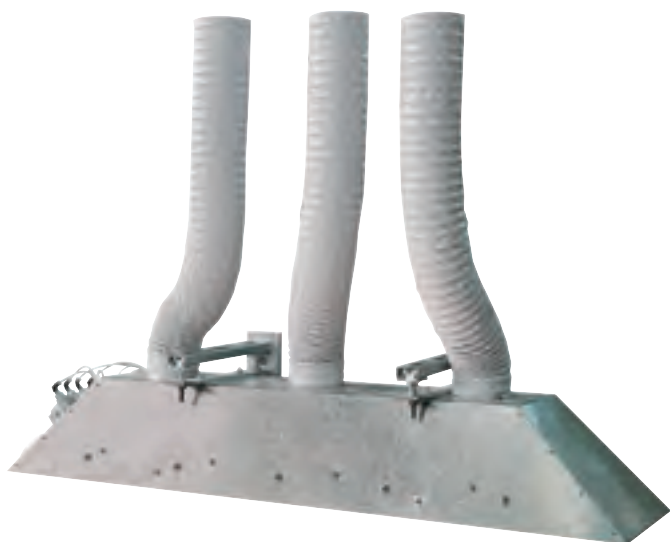


**ESTA** PLUS

#### Your Benefits

- » ESTA layout planning according to VDI/DVS guideline 6005 and TRGS regulation 528/560
- » Software supported customised consulting at the customer's premises
- » Visualisation of the ventilation system prior to the installation

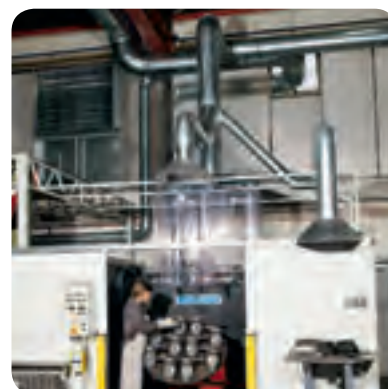
## Extraction Hoods



Extraction hood with compressed air injection

### Ideal for

All manufacturing processes in which dust, shavings, fumes and smoke gases to be detected and derived



Extraction at a robotic workstation

### Application Examples



Slotted extraction hoods in the automotive industry



Extraction wall with perforated metal insert



Large surface extraction hood in the concrete industry



Extraction wall on a DUSTOMAT-S



Specialized hood 120 x 30 cm



Extraction of aluminium shavings

ESTA PLUS

#### Special Features

- » Wide range of standard hoods
- » Individual calculation of the extraction hoods according to ventilation technologically optimised principles
- » **NEW** Pipe pre-separator
- » Recommended for the best possible extraction of dust and fumes-Maßgeschneiderte Haube

#### Your Benefits

- » Tailor-made hoods for almost any application
- » Wear resistant and low maintenance designs

Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filter

Downdraft Tables

Extraction Fans

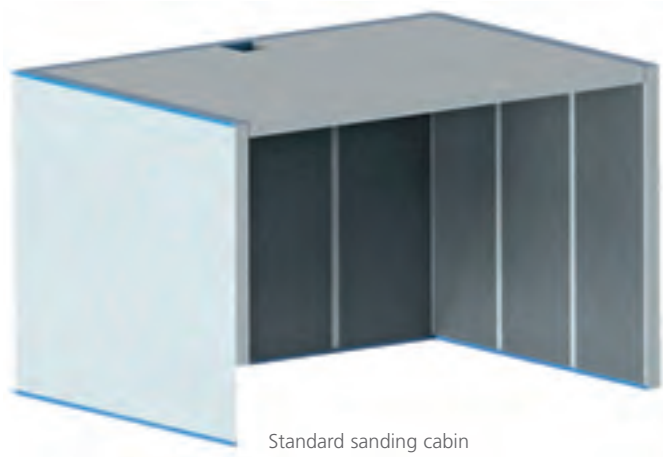
Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

## Soundproofed extraction cabins



Standard sanding cabin

ESTA extraction cabins offer extraction and sound insulation in one. They enclose dust and smoke generating workplaces or machines and prevent the release of pollutants into adjacent work areas. Furthermore, with the appropriate extraction technology, the exposure of employees to dust or smoke can be reduced and statutory regulations can be complied with.

The cabins are suitable, among other things, for extraction during welding, grinding, cutting, polishing and for almost all materials (metal, stone, plastic, etc.) which produce particles during processing.

### Ideal for

Machine or robot housings

Work cabins

Grinding workstations

Welding smoke/dust



Mobile suction cabin for rotor blade production



4-fold grinding cabin with rolling doors

### Accessories/special equipment

- » Lamella curtain, fixed
- » Lamella curtain, slidable
- » Industrial curtain  
Industrial curtain, DIN 1598 (welder)  
Sight window made of safety glass
- » LED lighting (IP65, ATEX)

### Application

- » Extraction of dust and smoke particles as well as sound-reduction at workplaces or machines

### Special features

- » Modular design
- » Integral construction
- » Flexible setup
- » Optionally with powder-coated exterior in RAL colour
- » Optionally with viewing windows

### Benefit

- » Wide range of applications
- » Noise protection and suction in one
- » No contamination of adjacent areas
- » Easy assembly

Data depending on model version

### Technical data

Width mm*	Height mm*	Depth mm*	Item no.
2,000	2,500	2,000	30008500
2,500	2,500	2,000	30008501
2,500	2,800	2,500	30008502
3,000	2,500	2,000	30008503
3,000	2,800	3,000	30008505
4,000	2,500	3,000	30008506
5,000	2,800	3,000	30008512
6,000	2,800	3,500	30008516

\* = Internal dimensions (wall thickness = 60 mm)

Other sizes on request

## References

### Holz Carwash Systems – Senden, Germany

ESTA Sales and Distribution Partner



#### Dust extraction system for cleaning car interiors at car washes, filling stations and auto dealers

Central vacuum systems are gaining increasing popularity for commercial use in cleaning the interior of vehicles.

Theoretically an unlimited number of vacuum stations can be set up whereby the vacuum performance remains constant.

Central vacuum systems make much more efficient use of your property (number of possible vehicle vacuum stations) compared to solutions with individual vacuum systems.



Central Car Cleaning System for outdoor installation



Inner workings of the CENTRAL CAR CLEANING SYSTEM



Dust extraction at multiple vacuum locations



With crevice tool for easy cleaning of the interior space



The mobile dust collection container with an inserted plastic bag allows easy, dust-free disposal of extracted dirt



A rigid pipe installation connects the vacuum locations with the cyclonic filter



Contact us for a brochure with more detailed information.

- Dust Extractors
- High Vacuum Extraction Units
- Welding Fume Filters
- Oil Mist Separators
- Carbon Filter
- Downdraft Tables
- Extraction Fans
- Extraction Arms
- Filter Towers
- Central Extraction Systems
- Pipe Systems

## Giesselmann - Bad Oeynhausen

Metalworking industry



Extraction at the workplace



MOBEX F-60 in the production hall

MOBEX F-60  
with spark pre-separator  
(4,500 m<sup>3</sup>/h at 3,400 Pa)

DUSTOMAT 4-10  
with cyclone water pre-separator  
(2,000 m<sup>3</sup>/h at 2,600 Pa)

Three extraction arms with  
hoods for welding fumes

Piping system

## FAIST Anlagenbau GmbH – Krumbach (Schwaben), Germany

System design

Hall ventilation system for welding fumes (ESTA Push Pull mixing ventilation)



Production hall with 24 welding workplaces



DUSTMAC Filtration unit with Extraction fan  
and Supply air fan

Filtration unit DUSTMAC F-567

Extraction fan 75 kW  
(45.000 m<sup>3</sup>/h bei 3.800 Pa)

Supply air fan 11 kW  
(13.500 m<sup>3</sup>/h bei 1.500 Pa)

Control unit  
with frequency converter

Pipe system with return air grille

## References

### Daimler Research Centre, Ulm

Research and Development (Automotive Industry)

Direct extraction of dust and shavings in model building applications and from different machines



Research centre, Ulm Germany



Extraction system with custom paint finish positioned outside

High vacuum extraction system with a 13 kW side channel blower and cyclonic filter FZ-1500 for general clean-up purposes and for direct extraction from different machines

Medium pressure system with 7.5 kW fan unit and cyclonic filter FZ-5000 for direct extraction of dust and shavings in model building

### Philip Morris, Berlin

Tobacco Industry

Extraction of tobacco particles at several extraction locations and on several production levels



Pipe system for exhaust air with integrated cooling system



Filter system with dust removal through rotary valves and parallel operating rotary piston blowers

Two separate systems with 86 and 65 extraction locations (flapper valves where hoses can be plugged in) on five and three production levels

Simultaneous operation of up to eight extraction locations at each production level

Operating Point:  
Appr. 4,200 m<sup>3</sup>/h at 220 mbar

Five rotary vane vacuum pumps  
DKG 18.5 kW

Two cyclonic filters FZ-5000

## References

### BBS – Schiltach

Automobilzulieferindustrie

Direktabsaugung an Schleif- und Bürstmaschinen sowie Handarbeitsplätzen



Absaugsystem in separatem Raum



Produktionshalle

Filtereinheit DUSTMAC F-567 mit drei Filtermodulen

Mitteldruckventilator MDV 75 kW (46.000 m<sup>3</sup>/h bei 3.900 Pa)

Schaltschrank Komfort Frequenzumrichter

3 Staubsammelbehälter mit je 50 Litern

Verzinkte Längsnahtglattrohre

### PERI GmbH – Weißenhorn

Shuttering · Formwork · Engineering

Welding fumes are extracted from the air in the production hall with the extraction system attached to the roof. Hall extraction system for 23 welding workstations (ESTA upstream stratification ventilation).



Hall ventilation system on the roof of the production hall

DUSTMAC F-945 filter unit

ATEX design

Two medium-pressure fans MDV-45 kW (75.000 m<sup>3</sup>/h bei 3.500 Pa)

Heat recovery

Pipe system with return air grille

Discharge through screw conveyor

## References

### IVECO MAGIRUS – Ulm, Germany

Automotive Manufacturer

Extraction of plastic dust from glass fibre reinforced materials used in manufacturing automotive components



Downdraft table with wood lattice grate work surface and extraction arm



Extraction unit DUSTMAC-F-64

Filtration unit DUSTMAC F-64 (7.300 m<sup>3</sup>/h at 3.800 Pa)

Downdraft table A2080 with wood work surface

Pipe system and Extraction arm

### Robert Bosch – Stuttgart, Germany

Automotive Supplier

Residual dust extraction during the cleaning of the production line



Control unit with monitoring lamps



Cyclonic filter FZ-1003 with 100Litre collection container

Cyclonic filter FZ-1003 with fill level monitoring

Side channel blower TDP-22 kW (2,100 m<sup>3</sup>/h at 27,000 Pa)

Control unit Comfort

Pipe system

Vacuum accessories

## References

### SAF – Wörth am Main

Auto Body Production

Extraction of welding fumes and grinding dust from nine workstations and two welding robots



Extraction at a robotic welding station



Modular filtration unit

Filtration unit DUSTMAC-XF 432

Medium pressure fan MDV-45 kW  
(22,000 m<sup>3</sup>/h at 2,800 Pa)

Pipe system  
Nine extraction arms,  
Total length of the pipe system:  
90 m

### Sunseeker – Rostock, Germany

Ship Building

Extraction of glass fibre reinforced plastic dust, in the ship building industry



Dust extraction with an application specific pipe system



Filtration unit with explosion protection

Cyclonic filter FZ-5003

Side channel blower with  
Housing TDP-18.5  
(2,100 m<sup>3</sup>/h at 15,000 Pa)

Control cabinet Comfort

Pipe system with 100 flapper valves

Explosion protection

## References

### SAF-Holland GmbH

Vehicle construction  
Welding fume extraction at manual workstations and robotic systems



DUSTMAC filter units



Acoustic-protection booth

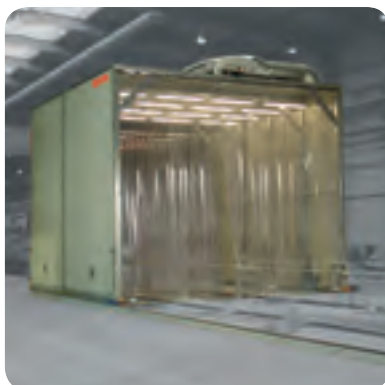
Filter unit DUSTMAC-F 567  
2 x WELDEX F-150

Medium-pressure fan MDV-75 kW  
2 x medium-pressure fan MDV-15 kW

15 hoods  
at robotic workstations  
30 extraction arms  
at welding stations

### Groß Rotorblattfertigung GmbH

Wind energy sector  
Extraction of GRP /CFRP dust created during the sanding of rotor blades



Mobile sanding station



DUSTMAC filter unit on sanding station

Filter unit DUSTMAC-F 144  
with police filter H 13

Medium-pressure fan MDV 15 kW  
ex-model in device group II, zone 22 (non-conductive dust), category 3D, temperature class T3, added to filter unit in accordance with explosion-protection directive 94/9/EG (Atex)

50m mobile sanding station,  
soundproof, in torsion-resistant  
design with static proof

Dust-free removal  
with PVC bag

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## References

### AWS Abfall Wirtschafts Service GmbH

Recycling

Extraction of dust created during slag processing



Extraction unit DUSTMAC S-66 and medium-pressure fan



Extraction hoods over conveyor belts

DUSTMAC S-66 including burst disc and coarse separator

Medium-pressure fan MDV 22 kW

Comfort switchgear cabinet

Discharge via 2 rotary valves in big bags

### ALUTECH – Poland

Metal processing industry

Extraction of aluminium dust in grinding processes



Pipeline system in the production hall



DUSTMAC F-567 filter unit

Filter unit DUSTMAC-F 567

Medium-pressure fan MDV 55 kW

Comfort control unit

Jacob pipe system

Discharge via screw conveyor in customer container

## References

### Additional References



Schwenk, Ulm, Germany



Braas, Altheim, Germany



Uhlmann, Laupheim, Germany



Thyssen Krupp Nirosta, Düsseldorf, Germany



OWB, Kisslegg, Germany



Sofragraf, Saint Ame, France

**Schwenk – Ulm**  
Cement Industry

**Braas – Altheim**  
Tile Manufacturing Plant

**Uhlmann – Laupheim**  
Packaging Systems

**Thyssen Krupp Nirosta – Düsseldorf**  
Metal Production Plant

**OWB – Kisslegg**  
Metalworking Industry

**Sofragraf – Saint Ame – Frankreich**  
Metalworking Industry

**ZI-Jena, Jena**  
Metalworking Industry

**Solidschuhwerk – Tuttlingen**  
**HAIX – Mainburg**  
**GABOR – Rosenheim**  
Shoe Industry

**Wacker Siltronic – Burghausen**  
Chemical and Semiconductor Industry

**EADS Deutschland – Augsburg**  
Aerospace Industry

**Liebherr-Aerospace – Lindenberg**  
Aerospace Industry

**Wieland Werke – Ulm**  
Metalworking Industry

**H. C. Starck – Hermesdorf**  
Metalworking Industry

**Daimler – Bremen**  
Automotive Industry

**Lamilux – Rehau**  
Plastics Industry

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Spiral Seam Pipes

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Steel pipes

---

Longitudinally welded pipes

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## ***Application Range***

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- » Agricultural Businesses
- » Aircraft Industry
- » Automotive Repair Shops
- » Automotive Supplier Industry
- » Construction Industry
- » Engine Manufacturing Plants
- » Electronics Industry
- » File Shredding
- » Food Processing Industry
- » Machine Building Industry
- » Metalworking Industry
- » Mills
- » Paper Industry
- » Pharmaceutical Industry
- » Precision Mechanical Industry
- » Printing Industry
- » Plastics Processing Plants
- » Recycling and Waste Processing Facilities
- » Research and Development
- » Ship Building Industry
- » Shoe Manufacturing Plants
- » Tobacco Industry
- » Vehicle and Auto Body Plants
- » Welding Plants

## Introduction and Product Overview

### Introduction

Even the best engineered extraction system is of little use if the design of the pipe system is not optimised. We use only high quality parts and materials for our pipe systems. In addition, our engineers calculate a ventilation technologically ideal design of the pipe system to ensure the best possible extraction performance of our equipment.

This type of care and thoroughness forms the basis of the “professional dust extraction” that customers expect from company ESTA.

For medium-pressure applications, ESTA offers a comprehensive selection of spiral seam ducts and moulded parts.



Extract air pipe with deflector hood

Steel pipes are used in high-vacuum extraction systems. Here also, ESTA offers all the pipes and moulded parts required for a complete solution to your system needs.



Dust Extractors

High Vacuum  
Extraction UnitsWelding Fume  
FiltersOil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## Spiral Seam Pipes

Pipeline systems are connected to the dust or smoke source for optimal flow to the extraction system. ESTA has a comprehensive selection of spiral seam ducts whose robust, premium workmanship and flexibility make them excellent for your specific requirements.

Correct design is important to achieving maximum suction, because a tight network of pipelines ensures an economical system.

This is why all ESTA moulded parts have a double-lipped seal. ESTA also has the connectors and fasteners you need.



**ESTA**PLUS

### Application Range

- » Pipe system in the medium pressure range
- » Suction or pressure side

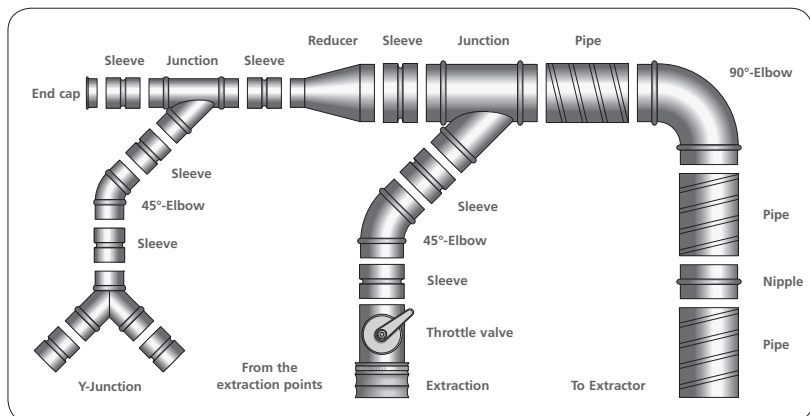
### Features

- » Galvanised sheet metal according to DIN \*) standard 24145
- » Standard length up to 3.0m
- » Ø 71 mm – 450 mm in stock \*\*)
- » Sheet metal thickness from 0.4 mm to 1.2 mm depending on pipe diameters

### Your Benefits

- » Extensive range of parts
- » Ventilation technologically optimised
- » Heavy duty workmanship
- » Easy installation

\*) DIN = German Industry Standard  
\*\*) Larger diameters are available on short notice



## Longitudinally welded pipes

As an alternative to the classic spiral seam tube, there is the longitudinally welded tube.

The main difference is the processing and joining of the individual shaped and pipe parts.

The spiral seam tube consists of a sheet metal strip coiled at an angle using a seam connection. Thus it forms a straight or bent pipe over the edges.

The longitudinally welded tube, on the other hand, is already produced as a welded tube. First, a hollow body is produced by bending or rolling sheet metal, which is then welded at the joints. Tubes up to 1,400 mm in diameter can be longitudinally welded, larger tubes are welded as winding tubes spirally welded, and large tubes are bent from heavy plates and welded in pieces.

By a simple connection with a clamp or clamping ring, the assembly (and disassembly for maintenance purposes) of the individual elements is very simple.



ESTA PLUS

### Area of use

- » Oil vapour
- » Abrasive media

### Features

- » From DN 80 to DN 1400 mm diameter
- » Material thickness from 0.6- 3 mm
- » Galvanised, coated sheet metal or stainless steel possible
- » No sources of interference within the pipes
- » Increased resistance at same material thickness

### Benefits for you

- » High quality
- » Longevity due to low wear
- » Quick and easy installation

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filter

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

## Steel Pipes

In contrast to spiral seam ducts, steel pipes are used for extraction systems in the high vacuum range. Whether moulded parts, gate valves or flap valves, ESTA offers a diverse range of products for custom-rolled steel pipes.

The steel pipe components are precisely adapted to one another to make air leaks almost impossible. Both their robust workmanship and their optimal flow characteristics get maximum performance from your extraction system.



Pipe system



**ESTAPLUS**

### Application Range

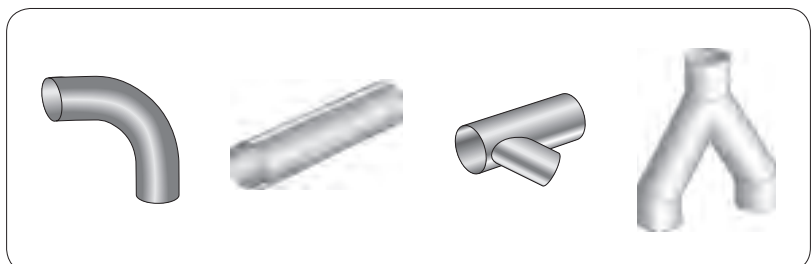
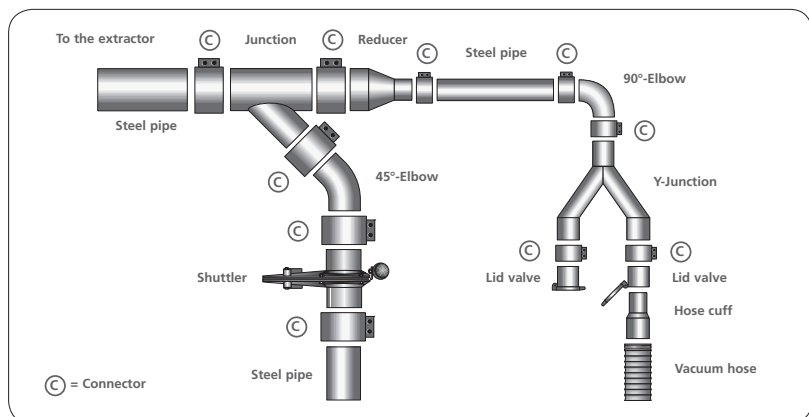
- » Pipe system in the high pressure range
- » Suction or pressure side

### Features

- » Standard length up to 6.0 m
- » Outside diameters Ø 50 up to 159 mm available from stock
- » Patented pipe connector for potential equalization

### Your Benefits

- » Extensive range of parts
- » Ventilation technologically optimised
- » Heavy duty workmanship
- » Easy installation

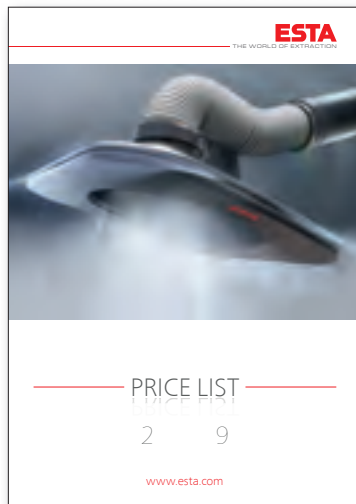


Steel pipes





Information and communication are very important to us.  
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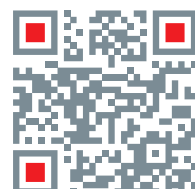
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