

Oil Mist Separators

Your Benefits at a Glance

AS 600
AS 1100
AS 1600
AS 3000
AS 4000
AS 6000

- Compact unit for the extraction of oil and emulsion mist
- Easy installation above the processing machine

- Available in six different models
- Three stage filter system

Product Description

During the machining of metals the cutting fluids evaporate. The oil mist separator AS will be installed directly above the processing machine where it extracts the mist that is generated during the machining processes.

Features

- Application Range:**
- Extraction of lubricant mist and fumes
- Special Features:**
- Manual cleaning
 - Mechanical filtration



Oil Mist Separator AS 600



Oil Mist Separator in operation

Data dependent on equipment type

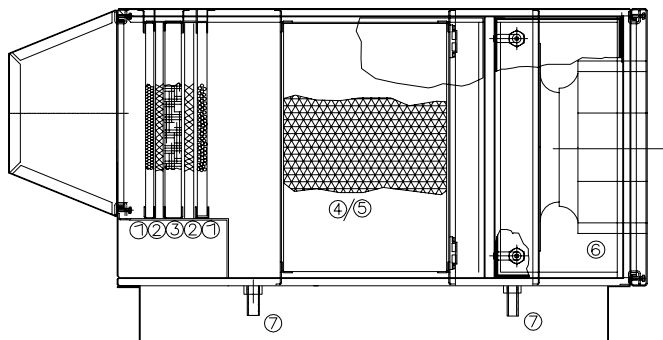
Technical Data

Oil mist separators		AS 600	AS 1100	AS 1600	AS 3000	AS 4000	AS 6000
Max. airflow	m ³ /h	600	1.100	1.600	3.000	4.000	6.000
Intake diameter	mm	150	200	200	300	300	300/400
Voltage	V	400	400	400	400	400	400
Motor	kW	0,5	0,8	1,2	2,8	3,2	4,5
Dimensions (L/W/H)	mm	775 x 400 x 400	1.175 x 470 x 510	1.175 x 470 x 510	1.345 x 740 x 675	1.345 x 740 x 675	1.345 x 740 x 675
Weight	kg	50	70	75	130	130	200
Sound level	dB(A)	71	73	75	77	79	80
Order Number		56.101	56.102	56.103	56.104	56.105	56.106

Oil Mist Separators

Your Benefits at a Glance

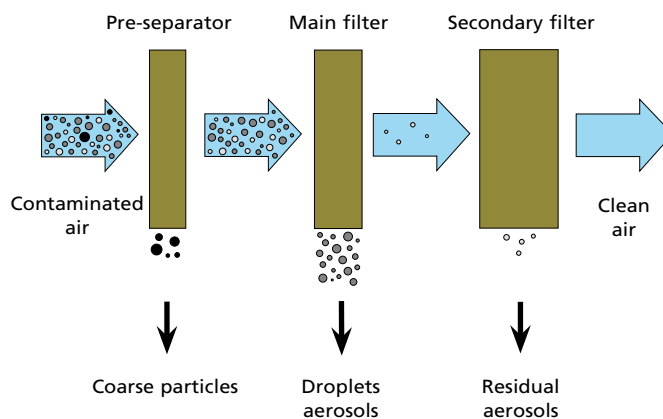
- High vacuum performance
- Large filter area
- Easy cleaning
- Cleanable long life filter



- 1 Pre-separator
- 2 Pre-filter
- 3 Main filter

- 4 Secondary filter
- 5 Secondary separator
- 6 Fan
- 7 Drain connection

Combined Filtration Process:



Functional Principle

Pre-Separator:

Oil and droplets of cutting fluid can be separated utilizing a wear resistant metal mesh separator and non-woven fabric of classification EU 5.

Main Filter:

Inside the highly durable plate collector heavy aerosols are separated from the air stream by redirecting the air stream multiple times. The droplets are forced down by gravity and the collected fluid can be removed at the drain connection.

Secondary Filter:

The remaining mist and aerosol particles will be extracted with a high efficiency sub-micron particulate air filter (EU 13) with an efficiency of nearly 100%. Alternatively a metal mesh separator can be used.

Your Benefits at a Glance

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

- Extraction directly at the work-station
- Compact solution
- For variable use
- Easy disposal of coarse dirt

Description

The ESTA worktable is a complete solution for welding and grinding. It is adjustable in height and of rugged and safe construction. The hinged side panels can be swung out of the way to accommodate larger work pieces.

Advantages

- Strong sheet metal construction
- Sufficient leg room
- Galvanized metal grating
- Height adjustable (± 100 mm)
- Dust collection drawer for coarse dirt and debris
- Variable extraction port (right or left hand side)
- Hinged side panels can be swung backwards
- Rear wall extraction
- Cover for optimal air flow



Worktable for welding and grinding



Multiple ESTA welding tables connected to an extraction and filtration system

Technical Data

	A 880	A 1280	A 1680	A 2080
Welding a. Grinding Table without extraction fan				
Work surface (L/W) mm	800 x 700	1200 x 700	1600 x 700	2000 x 700
Extraction port diam. mm	160	160	200	200
Dimensions (L/W/H) mm (Standard-Model)	880 x 840 x 800	1280 x 840 x 800	1680 x 840 x 800	2080 x 840 x 800
Dimensions (L/W/H) mm (with side panels/ back wall extraction)	880 x 840 x 1600	1280 x 840 x 1600	1680 x 840 x 1600	2080 x 840 x 1600
Order-No.				
Standard	44.010	44.020	44.030	44.040
with side panels	44.011	44.021	44.031	44.041
with side panels a. back wall extr.	44.012	44.022	44.032	44.042

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

Features

- Application Range:**
- Welding, grinding, deburring of all types of metals
 - Also suitable for other applications (e.g. plastics processing, gluing processes)
- Special Feature:**
- Complete solution
 - Expandable components
 - Side panels
 - Back wall extraction
 - Cover on top (lid)

Extraction Tables

Your Benefits at a Glance

**Welding/Grinding
Downdraft Tables**
with extraction fan to
discharge the extracted
air outside

- Operate independently from a central extraction system
- Extraction directly at the workstation
- Compact solution
- For variable use
- Easy disposal of coarse dirt

Description

This model series has a built in extraction fan, which permits the use as a welding and grinding table independent from a central extraction system. Consequently the AV series has an even wider application range.



Side panel swung back for larger work pieces



Welding table with side panels and back wall

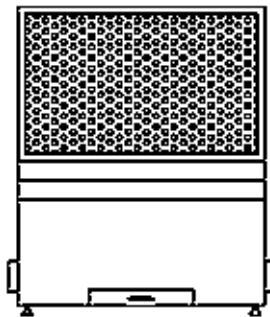
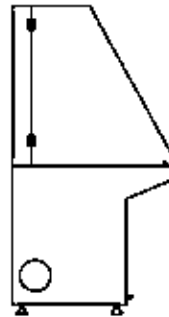


Table A 1280



The RG-200 fan supplies the necessary extraction performance

Technical Data

Welding a. Grinding Table with extraction fan	AV 880	AV 1280	AV 1680	AV 2080
Work surface (L/W) mm	800 x 700	1200 x 700	1600 x 700	2000 x 700
Extraction port diam. mm	160	160	200	200
Dimensions (L/W/H) mm (Standard-Model)	880 x 840 x 800	1280 x 840 x 800	1680 x 840 x 800	2080 x 840 x 800
Dimensions (L/W/H) mm (with side panels/ back wall extraction)	880 x 840 x 1600	1280 x 840 x 1600	1680 x 840 x 1600	2080 x 840 x 1600
Order-No.				
Standard	44.110	44.120	44.130	44.140
with side panels	44.111	44.121	44.131	44.141
with side panels a. back wall extr.	44.112	44.122	44.132	44.142

For the technical data of the RG-200 (extraction fan) see page 81

Optional Features

- Mobile unit on casters
- Lighting installed in the cover
- Version with T steel grating, wooden grating
- Customer specific dimensions available
- Rotary table that can be positioned on the grating
- Surface reinforcement for mounting a vise

Custom Unit

- Complete solution with integrated extraction fan and filter for applications where the exhaust air must be returned into the work area

Your Benefits at a Glance

Grinding Table "CleanAir" for Sanding and Grinding

- Dry dust extraction of fine dust
- Complete system solution: Workstation with integrated extraction and filtration system
- Dust free disposal of the captured dust
- Dust collection airflow velocity > 5 m/sec.
- Dust technological analysis for returning the clean air into the workplace (marble/granite/sandstone)



Grinding table "CleanAir" for sanding and grinding

Technical Data

Grinding table "CleanAir"		3010 AVF	3010 AVF-Stein
Max. airflow	m ³ /h	4.000	4.000
Max. negative pressure	Pa	1.500	1.500
Voltage	V	400	400
Motor	kW	0,9/3,5	0,9/3,5
Filter surface	m ²	30	30
Dust collection container	Ltr	2 x 30	2 x 30
Weight	kg	430	430
Dimensions (L/W/H)	mm	3.000 x 1.025 x 930	3.000 x 1.025 x 930
Sound level	dB(A)	-	57
Order No.		44.600	44.550

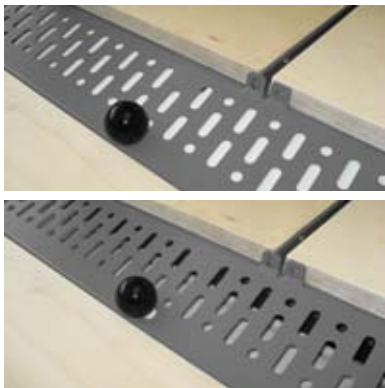
Product Description

ESTA's "CleanAir" grinding table for sanding applications removes even the finest dust generated during sanding, polishing or deburring work. It consists of a detachable extraction fan and filtration unit.

The work pieces to be machined can be positioned on the large wooden work surface of the downdraft table. Edge finishing tasks can be performed with the help of the fixture at the front of the worktable. By extracting the dust directly on each side of the work surface the breathing zone of the worker remains dust free. The retractable rear extraction wall captures the dust from the rear work surface. Dust technological testing performed by the Employers' Liability Insurance Association (type test certificate) certifies that the maximum tolerance values for clean air are met. Consequently, no energy intensive extraction system is required to discharge the filtered air outside. The filtered air can simply be returned into the work area. The downdraft worktable is adjustable in height and GS certified. An automatic pulse-jet cleaning system activated by monitoring the differential pressure cleans the filters during operation and ensures consistently high extraction performance. A 2-stage motor allows for variable airflow speed depending on the application requirements.

Extraction Tables

Grinding table
 "CleanAir" for sanding
 and grinding applications



Closable extraction vents



Detachable fan unit for easy access to the cartridge filter



Retractable rear extraction wall

In the stone processing industry (mineral dust types) dry dust extraction has proven to be far more effective

than conventionally known wet separation processes.

30 % Grant
 Member companies of the Employers' Liability Insurance Association for quarries and stone processing companies (StBG) are eligible to receive a grant in the amount of 30% of their net investment.

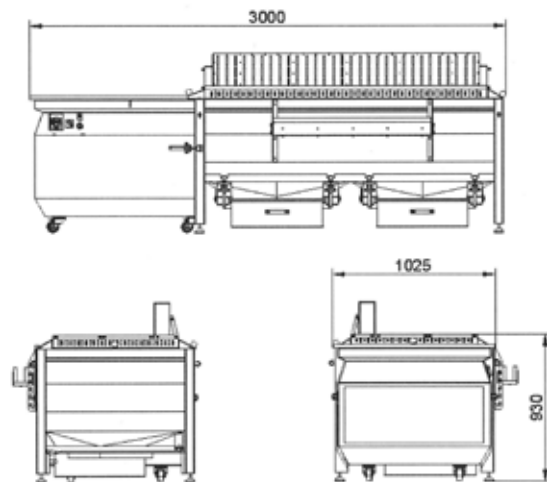
Features

Application Range:

- Extraction of fine dust particles (e.g. plastics, concrete, mineral dust types, etc.) generated during sanding and polishing work

Special Features:

- Automatic pulse-jet filter cleaning system
- Optimised capturing of the dust
- Detachable extraction fan unit



Data dependent on equipment type

Extraction Fans

***For Easy and High
Volume Extraction of
Dust and Fumes***

RG-100 – 800
RG with extraction arm
RG mobile
STYROSOG

Application Range

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



RG with extraction arm



RG for ceiling mounting



RG mobile unit



RG with filter bag



RG for stand pipe mounting



RG for wall mounting

Extraction Fans

ESTA Extraction Fan – Introduction and Product Overview

Introduction

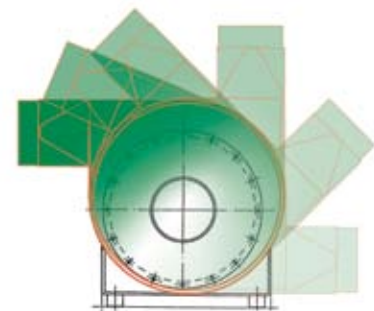


Extraction fans in combination with ESTA extraction arms are a cost efficient and effective way of extraction. The dust or fumes are extracted through the extraction arm with a fan and discharged (for example to the outside) without filtration. The purpose is to transport the exhaust air to a different area inside or outside the building.



Product Overview

In addition to the wall mounted equipment mobile versions are available such as the mobile dust and chip collectors (with RG extraction fans) and the Styrofoam chip extractors STYROSOG. The extraction arms are available in different lengths. The extraction hoods are available in oval and square designs.



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

Your Benefits at a Glance

RG-100 through -800

- High performance
- Heavy duty construction
- Low operating costs
- Wide range of applications

Product Description

For simple, cost effective and highly efficient extraction of dust, vapours and fumes. Also suitable as conveyor blower for granulates or as fresh air fan for rooms, tanks or underground shafts.

Features

Application Range:

- Extraction of individual and multiple workstations in industrial and skilled trade applications



Extraction Fan RG-300



RG-500 in separate room

Optional Features

- **AC current** for RG-100 and RG-200
- **Stainless steel (V2 A)** for the food industry
- **Motor mounted on the left hand side**
- **Adjustable exhaust air outlet**
- **Explosion proof** for extraction of highly flammable substances

Technical Data

RG		100	200	300	400	500	600	700	800
Max. airflow	m ³ /h	1.000	2.000	3.000	4.200	5.000	6.500	7.000	9.000
Intake/outlet diameter	mm	100	150	180	224	250	280	315	355
Max. negative pressure	Pa	1.250	1.650	2.200	2.650	3.200	3.000	3.500	3.600
Voltage	V	400	400	400	400	400	400	400	400
Motor	kW	0,55	1,1	2,2	3,0	4,0	5,5	5,5	7,5
Dimensions (L/W/H)	mm	535 x 450 x 480	595 x 520 x 555	640 x 535 x 610	965 x 750 x 890	1.050 x 950 x 1.050	1.093 x 950 x 1.005	1.116 x 950 x 1.036	1.116 x 950 x 1.036
Sound level	dB(A)	60	70	72	73	75	77	82	85
Order Number		01.011	01.021	01.031	01.041	01.051	01.061	01.071	01.081

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

Extraction Fans

Your Benefits at a Glance

Extraction Fan RG with Extraction Arm

- Captures the dust or fumes at the source with powerful extraction performance
- Simple and efficient
- Different blower sizes

Product Description

Smoke or fumes do not always need to be filtered. Often it is sufficient to discharge it outdoors. In this case a cost efficient combination of an extraction fan model type RG and an extraction arm can be used.

The smoke or fumes will be captured at the source with the extraction arm and transported through a flexible hose or a suitable pipe system.



RG-300/extraction arms



RG-200 with 3 m extraction arm

Technical Data

Extraction unit (RG/extraction arm)		RG-100	RG-200	RG-300
Max. airflow	m ³ /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 x 550 x 500	490 x 600 x 550	540 x 630 x 600
Sound level	dB(A)	61	71	72
Order Number				
Including extraction arm, 2 m		01.111	01.123	-
Including extraction arm, 3 m		-	01.121	01.131
Including extraction arm, 4 m		-	01.122	-

Features

Application Range:

- Extraction of individual and multiple workstations in industrial and skilled trade applications

Special Features:

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

Your Benefits at a Glance

Extraction Fan RG with Ball-Joint Extraction Arm

- Source capture with high extraction performance
- Compact design
- Easy handling

Product Description

The ball joint extraction arm combined with the RG extraction fan are a complete extraction unit. The extraction fan will be mounted at the ceiling or on the wall. The extraction arm can swivel freely over

the entire work area and can be positioned precisely where it is needed. This saves space without compromising the flexible application possibilities.

The installation bracket for ceiling mounting (360° swivel range) or wall mounting (180° swivel range) will be included in the scope of supply.



RG-200/ball joint extraction arm



RG-200 with ball joint extraction arm

Technical Data

Extraction fan unit (RG/extraction arm)		RG-200
Max. airflow	m ³ /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 x 600 x 550
Sound level	dB(A)	71
Order Number		
Including extraction arm, 3 m		01.121D
Including extraction arm, 4 m		01.122D

Features

Application Range:

- Extraction of individual and multiple workstations in industrial and skilled trade applications

Special Features:

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

Extraction Fans

Your Benefits at a Glance

Mobile RG Extraction and Filtration Units

- Simple and effective filter system
- Mobile for easy positioning
- Universal and versatile use



Mobile extraction unit RG-300

Product Description

The mobile RG extraction fans are suitable for cost efficient extraction of dust and chips in a variety of applications. We offer two different types of filters: One type is a fabric filter and the other type is a long life



Mobile extraction unit with cartridge filter

cartridge filter element. In commercial woodworking applications this type of equipment is not approved according to regulation TRG 553. For these applications we can offer you our certified DUSTOMAT dust extractor models (see pages 10-15).



Wall-mount bracket with cyclone

Technical Data

Mobile extraction unit		RG-100	RG-200	RG-300
Max. airflow	m ³ /h	1.000	2.000	3.000
Intake diameter	mm	100	150	180
Max. negative pressure	Pa	1.400	1.950	2.300
Voltage	V	400	400	400
Motor	kW	0,55	1,1	2,2
Dimensions RG (L/W/H)	mm	400 x 550 x 500	490 x 600 x 550	540 x 630 x 600
Sound level	dB(A)	61	71	73
Order Number				
With filter bag		04.011	04.021	04.031
With cartridge filter		04.111	04.121	04.131
Wall mount bracket				
With filter bag		08.011	08.021	08.031
With cartridge filter		08.111	08.121	08.131

All extraction units are supplied with an extraction hose of 3 m length

Features

Application Range:

- Extraction of individual and multiple workstations in industrial and skilled trade applications

Special Features:

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

Your Benefits at a Glance

STYROSOG

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

Extraction Fans

Product Description

The STYROSOG was developed specifically for the extraction of Styrofoam chips from packages and has proven itself in this application for many years. The extracted Styrofoam chips are collected into a plastic bag for reuse.

Chip-Separator

The chip pre-separator is an add on equipment for the STYROSOG, which is used to separate small parts that are mixed in with the Styrofoam packing chips.



STYROSOG 1000



STYROSOG 2000



Technical Data

STYROSOG		1000	2000
Max. airflow	m³/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 RG (L/W/H)	mm	400 x 550 x 500	400 x 600 x 550
Sound level	dB(A)	72	74
Order Number			
With extraction hose 2,5 m, extraction pipe and extraction nozzle made of plastic		03.011	-
With extraction hose 3 m, extraction pipe and extraction nozzle made of metal		-	03.021

Features

Application Range:

- Warehouse and packaging areas

Special Features:

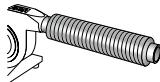










- Developed specifically for Styrofoam packaging chips

Extraction Fans

Your Benefits at a Glance

Accessories & Attachments

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