

For precise capture and extraction of welding smoke

SRF K-10/K-15

MOBEX F

SRF T-2/T-4

DUSTMAC F

DUSTOMAT DRY



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



Welding Fume Filters

Introduction and Product overview

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 compact welding fume filters of the **DUSTOMAT DRY**-series are suitable for almost all purposes thanks to their versatile configurations, and, among other things, effectively extract the welding and soldering fumes generated during the processing of different metals (separation efficiency of up to 99.995 %).

Thanks to aerodynamic optimisation, the welding fume filters of the DUSTOMAT DRY series have even higher energy efficiency compared to their predecessors. The innovative filter cleaning system also offers users significant savings potential: thanks to compressed air savings of up to 50 percent and extended filter service life, follow-up costs are reduced to a minimum.



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 m³ per hour.

The systems of the **DUSTMAC F**-series have a modular structure and can therefore be used as welding fume filter systems for any required air volume be combined.

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 or rotary cleaning (manually)
- » 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. volume flow	m ³ /h	950
Intake opening	mm	140
Max. negative pressure	Pa	2,800
Nominal power	V/kW	230 / 1.3
Main filter surface	m ²	10
Dimensions (L/W/H)	mm	946 × 761 × 1,361
Weight	kg	69
Sound pressure level	dB(A)	72

Order Number

Standard	55.203
Standard with IFA „W3“ Test. Cert.	55.235
Man. operated rotating filter cleaning	70 268 130

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
- » Exhaust air connection



Test certificates (optional)



SRF K-15 with pipe system

ESTA PLUS

Special Features

- » Filter cleaning with compressed air gun or rotary cleaning (manually)
- » 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
- » Dust-free disposal of the separated smoke particles

Data dependent on equipment type

Technical Data

Welding fume filter model SRF		K-15
Max. volume flow	m³/h	1,500
Intake opening	mm	2 × 140
Max. negative pressure	Pa	2,500
Motor Power	V/kW	400 / 2.2
Main filter surface	m²	15
Dimensions (L/W/H)	mm	946 × 761 × 1,361
Weight	kg	74
Sound pressure level	dB(A)	77

Order Number

Standard	55.212
Standard with IFA „W3“ Test. cert.	55.229
Man. operated rotating filter cleaning	70 269 130

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 Filters/
Air Purifier

Downdraft
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction
Systems

Pipe Systems

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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

Special Versions

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



Test certificates (optional)

W3



SRF T-2



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. volume flow	m³/h	200	400
Intake opening	mm	50	2 × 50
Max. negative pressure	Pa	19.000	19.000
Mains voltage	V	230	230
Nominal power	kW	1.1	2.2
Main filter surface	m²	0,8	1,6
Dimensions (L/W/H)	mm	390 × 210 × 500	490 × 400 × 560
Weight	kg	15	27
Sound pressure level	dB(A)	66	78
Order Number		55.101	55.102

* available in W3-tested Version

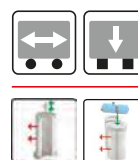
Mobile welding fume filter *DUSTOMAT DRY*



DUSTOMAT DRY

Application Range

- » Single or multiple user extraction of welding fumes
- » Welding of all metals
- » Depending on the version, also suitable for carcinogenic welding fumes
- » For direct extraction on processing machines and welding robots
- » For connection to extraction arms, extraction tables, extraction hoods and shorter pipe systems



Test certificates (optional)

W3

Special models

- » Pre-separator for sparks, chips and dusts
- » HEPA H 14 filter (separation efficiency $\geq 99.995\%$)
- » Downstream activated carbon filter for odour neutralisation
- » Version with frequency converter
- » Stationary version
- » Version with exhaust air connection piece
- » Variable positioning of intake connection piece, touch display, control cabinet, etc.
- » Other versions on request

Special features

- » Suitable for medium performance ranges from 2,000 to 3,500 m³/h
- » Available in four output levels
- » Variable cleaning system, depending on the application
- » 50 % compressed air savings thanks to innovative jet pulse filter cleaning system
- » Integrated impact separator for pre-separation of coarse and heavy particles

Your Benefits

- » Configurable: extraction power, filter package and system design
- » Strong extraction power for optimal extraction results
- » Aerodynamically optimised design for efficient air flow, resulting in low operating costs
- » Low-noise system operation
- » Recirculation/exhaust air operation possible
- » Smooth-running castors
- » Compact design
- » Mobile dust collection drawer for easy disposal
- » Sturdy, durable steel construction
- » Intuitive operation via a convenient touch display
- » High level of operation and maintenance friendliness

Data depending on model version

Technical Data

DUSTOMAT DRY		2000	2700	3300	3500
Max. volume flow	m ³ /h	2.000	2.700	3.100	3.500
Max. negative pressure	Pa	2.400	2.900	3.400	4.500
Intake opening	mm	160	180	200	200
Mains voltage	V	400	400	400	400
Nominal power	kW	2,2	3,0	4,0	5,5
Circuit breaker	A	C16	C16	C16	C16
Compressed air connection	Inch	¾"	¾"	¼"	¼"
Main filter quantity	Piece	2	2	2	2
Main filter surface	m ²	10	10	20	20
Collection volume	l	50	50	50	50
Dimensions (L/W/H)	mm	1.630	1.630	1.630	1.630
		× 840	× 840	× 840	× 840
		× 1.430	× 1.430	× 1.680	× 1.680
Weight	kg	300	300	330	330
Sound pressure Level	dB(A)	66	68	71,5	75
Order Number					
Standard		X09700	X09701	X09702	X09703

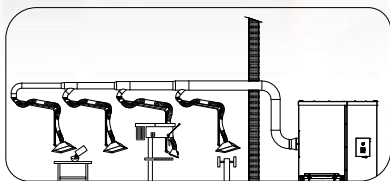
Welding Fume Filters

Stationary Welding Fume Filters

MOBEX F



MOBEX F-40



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



Test certificates (optional)

W3



Product-Video

Special Versions/Accessories

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



MOBEX F-60 with extraction arm

Technical Data

MOBEX		F-40	F-60	F-80
Max. volume flow	m³/h	2.800	4.500	5.600
Intake opening	mm	224	280	300
Max. negative pressure	Pa	3.400	3.400	3.300
Mains voltage	V	400	400	400
Nominal power	kW	3,0	4,0	4,0*
Main filter quantity	Piece	2	3	4
Main filter surface	m²	28	42	56
Collection volume	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 pressure level	dB(A)	71	74	77
Order Number				
Standard		09.837	09.838	–
With spark pre-separator		09.837 FA	09.838 FA	09.853 FA
With test certificate W3		09.835	09.836	–
eco+		09.848	09.849	09.853

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

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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

Stationary Welding Fume Filters *MOBEX F*

ESTA Control 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 Filters/
Air Purifier

Downdraft
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction
Systems

Pipe Systems

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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
- » Pipe pre-separator
- » ATEX-version
- » **Special Control cabinet series**
- » Custom paint finish



Central welding fume extraction system DUSTMAC F in the chemical industry

ESTAPLUS

Special Features

- » Control cabinet series Basic or Comfort
- » 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. volume flow	m³/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
Mains voltage	V	400	400	400	400	400
Nominal power	kW	3.0	5.5	7.5	11.0	15.0
Main filter surface	m²	42	84	84	126	189
Main filter quantity	Pieces	2	4	4	6	9
Collection volume	l	50	50	50	50	50
Dimensions (L/W/H)	mm	1.300	1.400	1.400	1.820	1.850
		× 1.039	× 1.350	× 1.350	× 1.450	× 1.900
		× 3.250	× 3.410	× 3.410	× 3.860	× 3.910
Weight	kg	440	540	540	740	880
Order Number		663.042	663.084	663.085	663.126	663.189