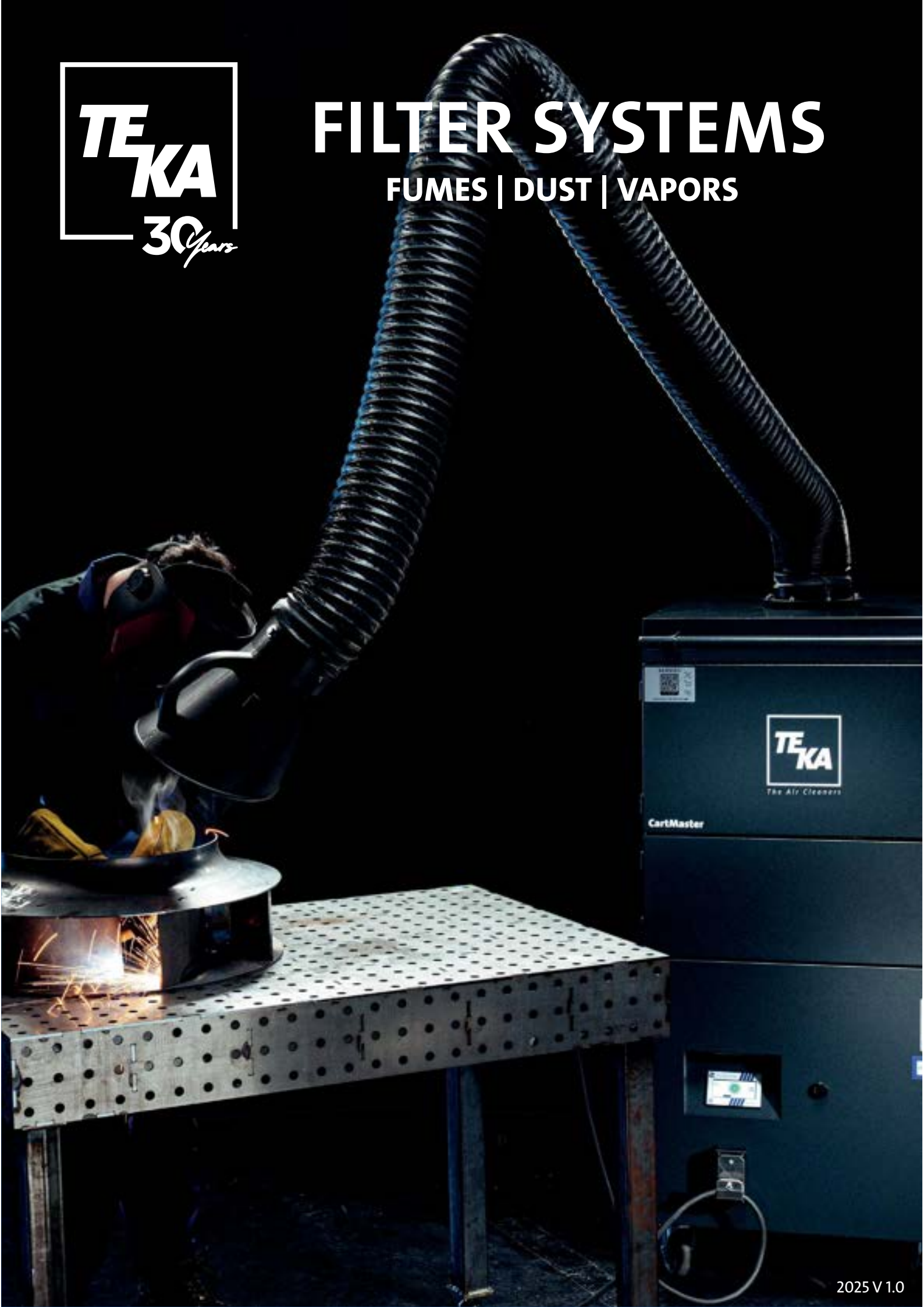
TEKA 30 Years

FILTER SYSTEMS

FUMES | DUST | VAPORS



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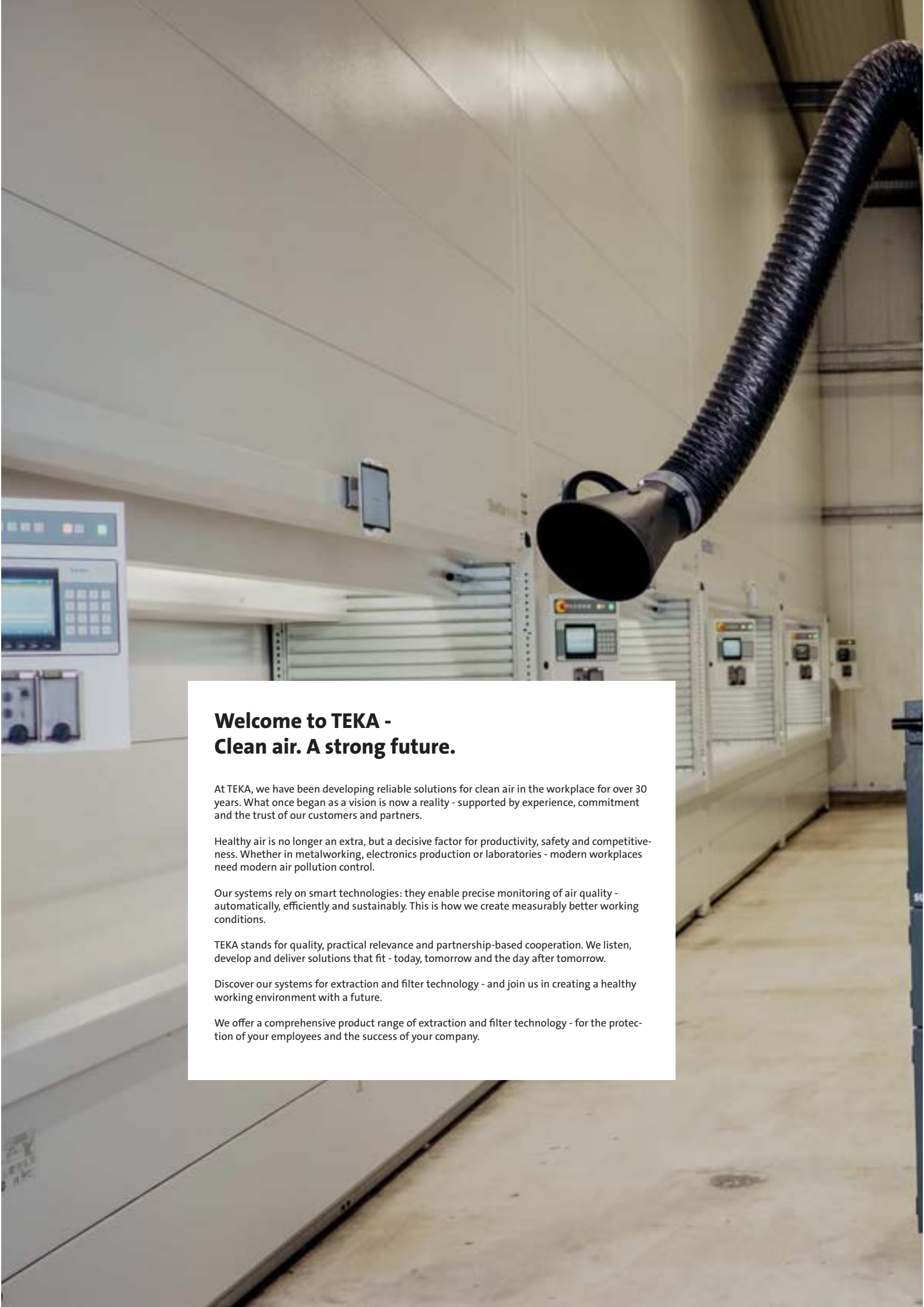

Welcome to TEKA - Clean air. A strong future.

At TEKA, we have been developing reliable solutions for clean air in the workplace for over 30 years. What once began as a vision is now a reality - supported by experience, commitment and the trust of our customers and partners.

Healthy air is no longer an extra, but a decisive factor for productivity, safety and competitiveness. Whether in metalworking, electronics production or laboratories - modern workplaces need modern air pollution control.

Our systems rely on smart technologies: they enable precise monitoring of air quality - automatically, efficiently and sustainably. This is how we create measurably better working conditions.

TEKA stands for quality, practical relevance and partnership-based cooperation. We listen, develop and deliver solutions that fit - today, tomorrow and the day after tomorrow.

Discover our systems for extraction and filter technology - and join us in creating a healthy working environment with a future.

We offer a comprehensive product range of extraction and filter technology - for the protection of your employees and the success of your company.


TEKA

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Good to know

What is dust/fume?

Dust/fume is finely distributed solid particles in the air, which are caused by thermal processes such as welding.

What causes dust/fume?

In welding technology dust/ fume and thus hazardous substances are produced

due to the use of

- base materials
- filler materials
- impurities
- ambient air

during processes such as

- evaporation
- condensation
- oxidation
- decomposition
- pyrolisis
- combustion

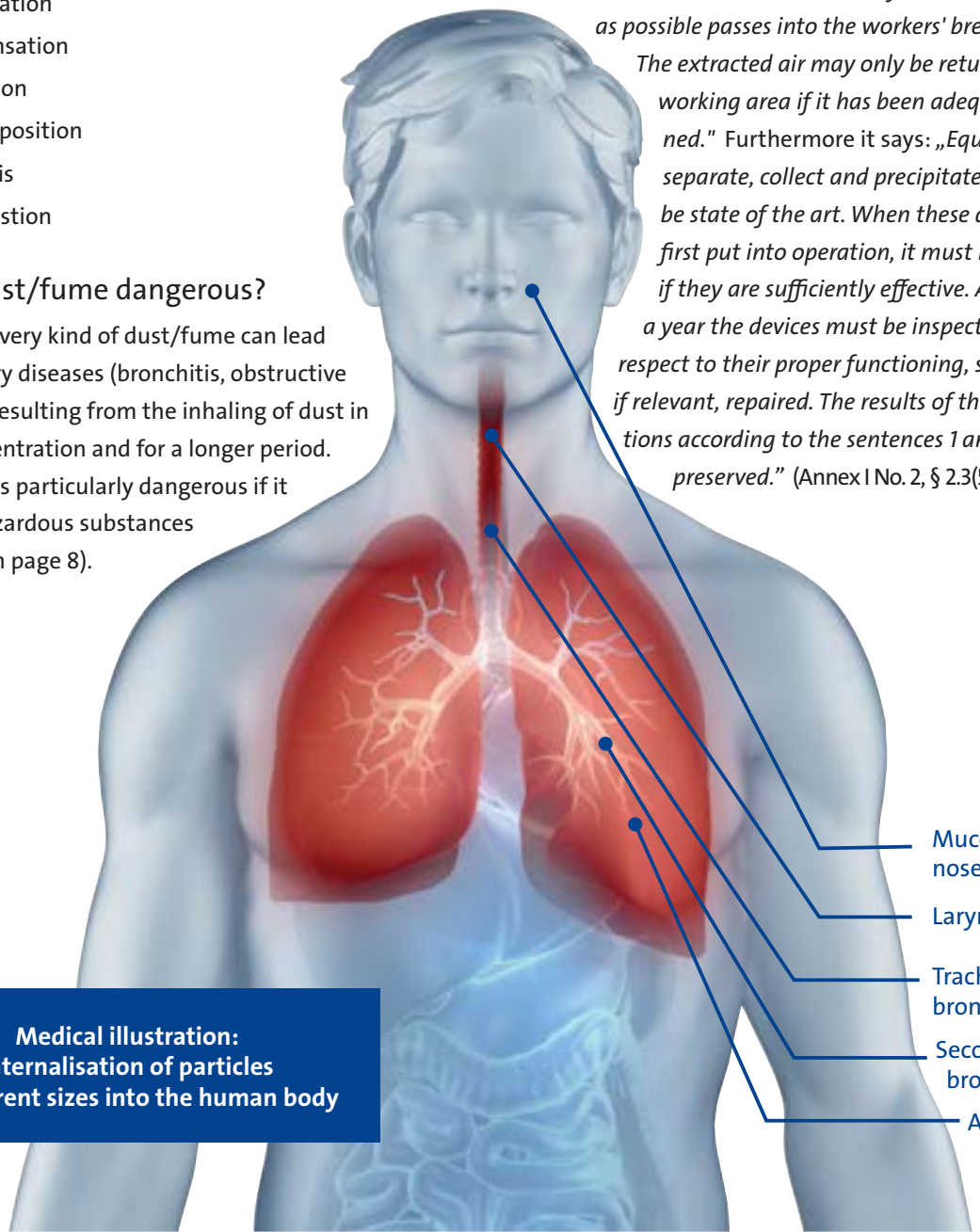
Why is dust/fume dangerous?

In general, every kind of dust/fume can lead to respiratory diseases (bronchitis, obstructive bronchitis) resulting from the inhaling of dust in a high concentration and for a longer period. Dust/fume is particularly dangerous if it contains hazardous substances (see table on page 8).

German framework regulation Ordinance on Hazardous Substances (GefStoffV) [1]

When it came into effect on January 1st, 2005, the Ordinance on Hazardous Substances restructured the occupational safety for activities involving hazardous substances as implementation of several EC directives. Welding fume is considered a hazardous substance, thus the Ordinance on Hazardous Substances applies.

Particles contained in welding fume are inhalable and respirable and in case of chromium-nickel steel, they are carcinogenic. The Ordinance on Hazardous Substances [1] requires a local extraction: *„"Dusts shall be collected and disposed of safely at the place of its origin. The extracted air shall be conducted in such a way that as little dust as possible passes into the workers' breathing air. The extracted air may only be returned to the working area if it has been adequately cleaned."* Furthermore it says: *„Equipment to separate, collect and precipitate dusts must be state of the art. When these devices are first put into operation, it must be checked if they are sufficiently effective. At least once a year the devices must be inspected with respect to their proper functioning, serviced and, if relevant, repaired. The results of the inspections according to the sentences 1 and 2 shall be preserved."* (Annex I No. 2, § 2.3(5,7))



Medical illustration: Internalisation of particles of different sizes into the human body

Air circulation when dealing with carcinogenic substances

"If activities involving carcinogenic, mutagenic, or fertility-damaging hazardous substances of categories 1 and 2 are carried out in a work area, the air extracted from that area must not be returned to the work area. This does not apply if the air is sufficiently cleaned of such substances using procedures or equipment recognized by the authorities or by the statutory accident insurance institutions... ". As there is currently no recognized procedure, this means that only filter systems with W3 approval from the IFA (Institute for Occupational Safety and Health of the German Social Accident Insurance) may be used for recirculation operation.

If the welding fumes contain carcinogenic parts – such as nickel compounds or chromates – the exhaust air has to be led to the outside. In exceptional cases, the cleaned air can be returned if the requirements of the TRGS 560 [3] *„Technical Rules for Hazardous Substances - Air return when handling carcinogenic, mutagenic substances and substances toxic to reproduction"* are met. According to this, the concentration of hazardous substances in the air which is returned into the working area (returned cleaned air) must not exceed a tenth of the former TRK (technical guideline concentration) value.

Tips for users

To comply with the regulations, operators have access to both mobile dust collectors and central stationary systems that are approved by the statutory accident insurance providers in accordance with TRGS 528. These are devices and systems that have been tested and certified by the IFA in accordance with the international standard DIN EN ISO 21904 Parts 1 and 2 [2].

Extract from TRGS 528 [2]

4.5 Air recirculation

(1) Extracted air may only be recirculated into the work area if it has been sufficiently cleaned. ....

.

.

(4) At workplaces where welding work involving the emission of carcinogenic, germ cell mutagenic or reprotoxic substances of category 1A or 1B is carried out (in particular when using materials containing chromium and nickel), the extracted air must not be recirculated there. Where possible, the extracted air in these cases must be discharged to the outside, e.g. at stationary workplaces. If welding fume extraction devices have to be operated in recirculation mode, e.g. at mobile workplaces, only devices approved by the authorities or by the statutory accident insurance institutions may be used, which have been tested in accordance with DIN EN ISO 21904 Parts 1 and 2 and are marked W3. ...

TRGS

The **Technical Rules for Hazardous Substances (TRGS)** reflect the **state of the art, occupational medicine and occupational hygiene**, as well as other established ergonomic findings for activities involving hazardous substances, including their classification and labelling. They are drawn up by the **Committee for Hazardous Substances (AGS)** with the participation of the Committee for Occupational Medicine (AfAMed) and published by the **Federal Ministry of Labour and Social Affairs (BMAS)** in the Joint Ministerial Gazette (GMBl).

1 **Ordinance on Hazardous Substances**
http://www.teka.eu/gefstoffv

2 **TRGS 528 (Welding work)**
http://www.teka.eu/trgs528

3 **TRGS 560 (Air recirculation)**
http://www.teka.eu/trgs560

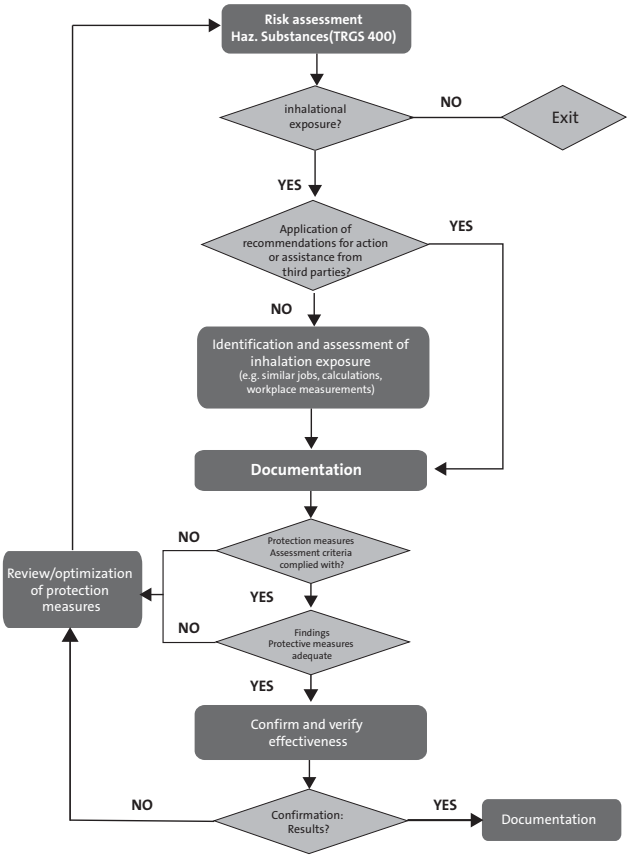
Good to know

Occupational exposure limits

Occupational exposure limits serve to **protect the employees and their health** against the dangers of inhalation of substances (TRGS 900). They came into effect in 2005 and replaced the maximum workplace concentration values that applied until then.

TRGS 400 clearly states that the **employer** needs to carry out an **assessment of the risks** and that the necessary protective measures must be taken **before starting the work** with hazardous substances (§ 3.1(2)). **The employer always has the overall responsibility** (§ 3.1(6)).

TRGS 402 informs about the measures which can be taken by an employer in order to comply with the occupational exposure limits. The decision tree on the right can be used as a first clue.



(Source: TRGS 402)

Hazardous substance	Chemical symbol	Occupat. exposure limit * (in mg/m³)	Health risk*
Aluminium oxide	Al_2O_3	1,25 (A) / 10 (E) **	Fibrosis, neuropsychic symptoms
Barium compounds	Ba	0,5 (E)	Acute toxicity
Chromium (III) compounds	Cr	2	Skin damage
Chromium (VI) compounds	Cr (VI)	0,001 (E) ****	Carcinogenic
Cobalt (compounds)	Co	0,005mg/m³ (A) ****	Carcinogenic
Ferric oxide	Fe_2O_3	1,25 (A) / 10 (E) **	Siderosis
Formaldehyde	CH_2O	0,37	Potentially carcinogenic
Carbon dioxide	CO_2	9100	Damage to nervous and circulatory system
Carbon monoxide	CO	23	Damage to cardiovascular system
Manganese oxide	Mn	0,02 (A) / 0,2 (E)	Damage to central nervous system/resp. tract
Nickel and nickel metal	Ni	0,006 (A) / 0,03 (E)	Potentially carcinogenic/skin damage
Nickel compounds	NiO u.a.	0,006 (A) ****	
Phosgene	$COCl_2$	0,41	Damage to lung
Nitrogen dioxide	NO_2	0,95	Lung-function abnormalities
Nitrogen monoxide	NO	2,5	Impact on vascular and nervous system
Zinc oxide	ZnO	0,1 (A) / 2 (E) *****	Metal fume fever/ skin damage
Tin compounds	Sn	8 (E) *****	Toxicity

* The information is taken from GESTIS substances database of the Institute for occupational safety and health (Institut for Arbeitsschutz – IFA) of the German Social Accident Insurance. We do not assume any liability for the accuracy of the data and for possible typing and transmission errors. In case of doubt, please consult the GESTIS database and/or a member of the IFA.
** General occupat. exposure limit
*** Biological limit value (BGW) according to TRGS 505
**** Tolerance concentration (TK) after TRGS 561
***** Recommendation of the MAK Commission

Good to know

Types of filters

Prefilters and particulate filters are classified into 17 different filter classes according to their separation efficiency ranging from the coarsest filter to the finest filter U17:

- **ISO Coarse: COARSE DUST FILTERS**
- **ePM10, ePM2.5, ePM 1: FINE DUST FILTERS**
- **E10, E11, E12, H13, H14, U15, U16, U17: PARTICULATE FILTERS**

(ISO 16890 and EN 1822-1:1998)

Depending on the norm the initial separation efficiency or the fractional separation efficiency are used as a performance criterion under standard load.

Initial separation efficiency: Ratio between the passing and the filtered material with a new filter.

Fractional separation efficiency: Separation efficiency of a filter concerning the particles of one specific size group (fraction).

Directly relevant norms			
DIN EN ISO 16890	DIN EN ISO 16890	DIN EN 1822	DIN EN 60335-2-69 Anhang AA
Coarse dust filter	**Fine dust filter**	**EPA, HEPA, ULPA** Initial separation efficiency **A** **DEHS, MPPS** **approx. 0,1-0,3 µm**	**Heavy particle filter** Transmission factor **D**
ISO Coarse ePM10 <50%	**ISO ePM10** ePM10 >= 50%	**E10** A (integral)>85%	**L** Quartz dust 90% 0,2 - 2µm D < 1%
	ISO ePM2,5 ePM2.5,min >= 50%	**E11** A (integral)> 95%	**M** Quartz dust 90% 0,2 - 2µm D < 0,1%
	ISO ePM1 ePM1,min >= 50%	**E12** A (integral)> 99,5%	**H** Paraffin oil mist 90% < 1µm D < 0,005%
		H13 A (integral)> 99,95%	
		H14 A (integral)> 99,995%	
		U15 A (integral)> 99,9995%	
		U16 A (integral)> 99,99995%	
		U17 A (integral)> 99,999995%	

EN 779:2012	ePM 1	ePM 2,5	ePM 10
M5	5% - 35%	10% - 45%	40% - 70%
M6	10% - 40%	20% - 50%	60% - 80%
F7	40% - 65%	65% - 75%	80% - 90%
F8	65% - 90%	75% - 95%	90% -> 100%
F9	80% - 90%	85% - 95%	90% -> 100%

(Source: Eurovent Recommendation 4/23 (2017))

The previous standard EN 779 has been replaced by the new standard ISO 16890. The adjacent table shows how the old filter classes carry over into the new standard.

Good to know

Particle sizes

Particles having a size between 1 mm and 0.1 mm can often be seen with the naked eye. Particles smaller than 100 µm (= 0.1 mm) are only visible by means of an optical microscope. These particle sizes correspond to the filter classes G3 and G4.

Coarse (>10 µm)

Particles which are smaller than 1 µm (= 0.001 mm) do not sink, but keep on floating almost permanently. Dust and oil mist produced during metal processing belong to this category. Filters of the filter classes ePM 10 thru ePM 1 are intended to be used for particles between 0.1 µm and 1 µm.

Fine (< 10 µm)

Smaller particles can only be seen with the help of a scanning electrode microscope. To filter these particles the finest filters of the classes E10-U17 must be used. Furthermore, activated carbon filters must be used for particles of 0.01 µm (= 0.00001 mm) and smaller.

Ultra fine (0,1 µm)

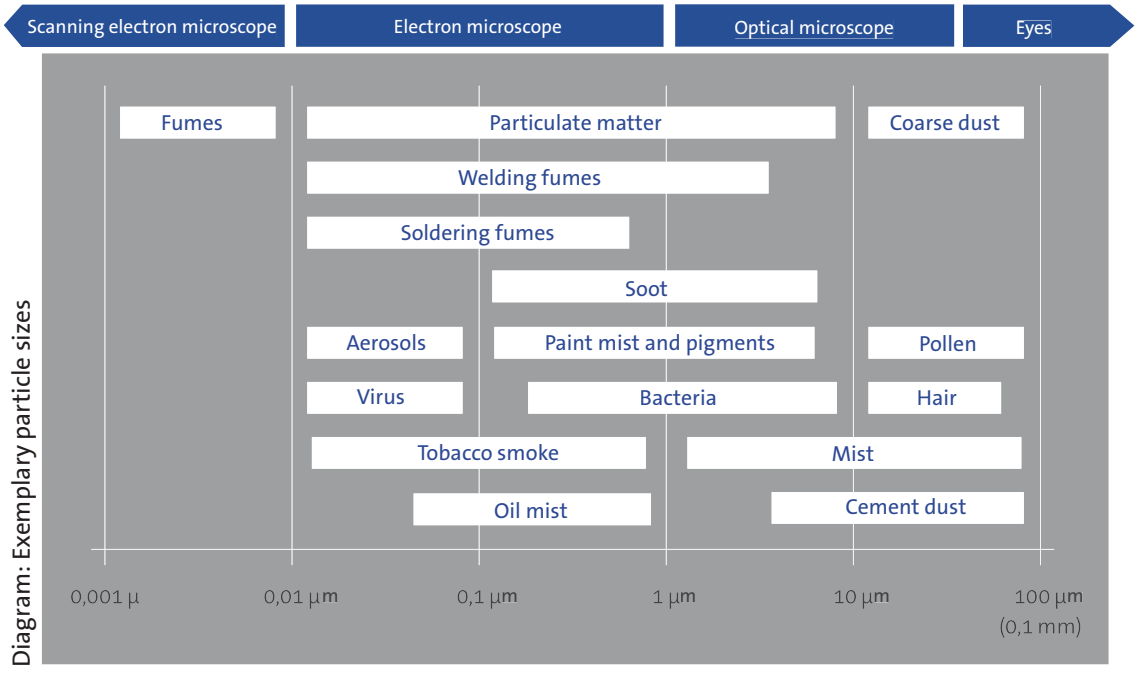
As the right choice of filters depends on many other factors such as the quantity and composition of pollutants and the operating conditions, a professional consultation and perhaps an assessment of the situation on site should take place. For this matter feel free to contact our team by using info@teka.eu.

Our Hotline

+49 25 41 84 84 1 300

PLEASE NOTE:

The employer must determine and evaluate the material-specific, process-specific, workplace-specific, and activity-specific factors, combine them into an overall assessment, and define the necessary protective measures in accordance with Section 4 of this TRGS. The overall assessment must also take into account the risk to other employees.
(TRGS 528 Section 3.2.5, August 2020 edition)



Settling times

Decisive for the settling time of particles are in particular their size and Weight. Small, light particles are held in the air by air vortices. Very small particles are in a permanent state of floating and may be inhaled if they are not extracted.

Inhalation may result in significant damage to the health or even cancer. The chart on the right shows the approximate settling times of particles.

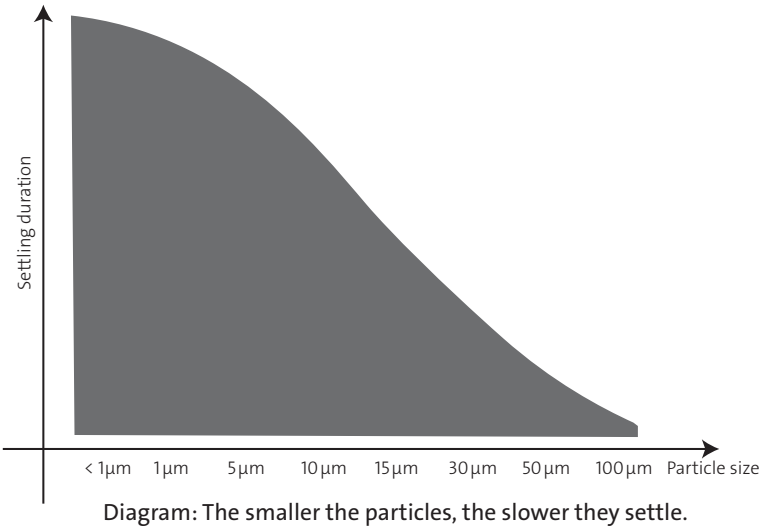


Diagram: The smaller the particles, the slower they settle.

Hazard classes of welding processes

Processes	Emission rate[3] (mg/s)	Emission group
Submerged arc welding	< 1	low
Gas welding (autogenous process)	< 1	low
TIG	< 1	low
Laser beam welding without filler material	1 to 2	medium
MIG/MAG (low-energy gas-shielded welding)	1 to 4	medium to high
Laser beam welding with filler material	2 to 5	high
MIG (solid wire, nickel, nickel-based alloys)	2 to 6	high
MIG (aluminum materials)	0,8 to 29	low to very high
MAG (solid wire)	2 to 12	high
LBH	2 to 22	high
MAG (flux-cored wire welding with shielding gas)	6 to > 25	high to very high
MAG (flux-cored wire welding without shielding gas)	> 25	very high
Soft soldering	< 1	low
Hard soldering	1 to 4	medium to high
MIG soldering	1 to 9	medium to high
Laser beam cutting	9 bis 25	high to very high
Oxy-fuel cutting	> 25	very high
Plasma cutting	> 25	very high
Arc spraying	> 25	very high
Flame spraying	> 25	very high

Source: Technical Rules for Hazardous Substances/Welding work/ TRGS 528, Issue February 2009

Good to know

IFA test certificate

Filter systems with an IFA certificate may be operated in recirculation mode if the air is captured at the source.

The Institute for occupational safety and health of the German Social Accident Insurance (Institut for Arbeitsschutz – IFA) – former BGIA – is a research and testing institute of the statutory accident insurance institutes in Germany. It is based in Sankt Augustin near Bonn.

Maximum health protection in the workplace – thanks to tested separation efficiency ≥ 99%.

DGUV Test
Gefahrstoffgeprüft
Schweißrauch-abscheideklasse W3

IFA test certificate

IFA certified products in this brochure

(all the systems are certified for the welding fume category W3)

filtoo® Welding fume filter, IFA certified
Suitable for: short-term fume and dust extraction.

CareMaster-IFA Mechanical filter unit with 1 suction elements
Suitable for: Fume extraction during welding work with unalloyed and stainless steel.

StrongMaster-IFA Cartridge filter unit with 1 suction elements
Suitable for: Long-lasting fume extraction during welding involving unalloyed and stainless steel, galvanized material and aluminium involving a strong fume production.

CartMaster-IFA Cartridge filter unit with 1 suction elements
Suitable for: Long-lasting fume extraction during welding involving unalloyed and stainless steel, galvanized material and aluminium involving a strong fume production.

CartMaster-IFA Stationary cartridge filter unit from 1.5 up to 2.0 kW compatible with 1 or 2 suction elements
Suitable for: Long-lasting fume extraction during welding involving unalloyed and stainless steel, galvanized material and aluminium involving a strong fume production (professional solution).

FilterCube 2-IFA Central filter units
Suitable for: Various suction problems at several working places at the same time for work involving unalloyed and stainless steel, galvanized material and aluminium.

FilterCube 4-IFA Central filter units
Suitable for: Various suction problems at several working places at the same time for work involving unalloyed and stainless steel, galvanized material and aluminium.

ZPF 9H-IFA Central suction and filter units
Suitable for: Various suction problems at several working places at the same time for work involving unalloyed and stainless steel, galvanized material and aluminium. Especially suitable for larger amounts of air.

AirTech P10/P18/P24/P30
Suitable for: Filtration of hall air containing pollutants as a supplementary measure.

EcoCube
Suitable for: Almost all tasks in the field of smoke and dust filtration

Industry 4.0 stands for the networking of industrial production with state-of-the-art IT and communication technology. Digitalization is bringing about lasting change to the economy and the world of work.
Smart factories enable largely self-organized production through networked systems in which people, machines, and products communicate with each other. This makes production and logistics processes more efficient and flexible.
Real-time data allows for early responses to missing parts or malfunctions. TEKA sensors and actuators optimize production processes and save resources and energy.
Intelligent networking increases cost-effectiveness, competitiveness, and flexibility. TEKA – Industry 4.0 – The future is TODAY.

AirTracker Room monitoring system

Suitable for

Monitoring of air quality in the hall or workroom and control of the connected extraction and filter system.

AirTracker
Room monitoring system

Description

The European branch of the World Health Organisation (WHO) has called on the EU to tighten its air quality standards.

This is where TEKA's innovative, intelligent solution comes in.

The second generation of the TEKA AirTracker is a consistent further development at the highest level. It is used for precise monitoring of air quality in halls and workrooms and can automatically control a connected extraction and filter system from the TEKA series. The integrated screen enables convenient and quick initial commissioning. If an older AirTracker is already in use, the existing plug connection can continue to be used – the new AirTracker is backwards compatible.

It measures respirable PM2.5 particles relevant to fine dust with a display accuracy of 0.01 mg/m³. In addition, high-precision sensors for measuring air temperature and humidity are integrated as standard. The recorded values can be conveniently displayed in real time via smartphone, tablet or PC.

Limit values can be freely configured, allowing both legal national limits and individual company thresholds to be programmed. As soon as the specified threshold value is reached, the sensor signals the current status of the fine dust concentration via two large, clearly visible LED frames with a traffic light function. Optionally, this visual display can also be used to show freely definable temperature or humidity limits.

Technical Data

AirTracker Room monitoring system	
Wireless standard	WLAN interface 802.11b/g/n compliant wireless standard
Security	128-bit AES Encryption
Connections	Ethernet / Wifi / 4G
Interfaces	3 potential-free contacts for external devices
Data transfer	Data logger
Remote access	Via mobile device
Display	HMI - Touch Display 4,3"
Resolution	480 x 272 px
Voltage	230 V / 110 AC
Casing	Metal powder coated
Weight	approx. 12 kg
Measures (W x D x H)	574 x 285 x 446 mm
Temperature	-10°C to + 50°C
Humidity	0% to 90%
Fine dust	0,0 mg/m³ to 6,0 mg/m³

Our Hotline
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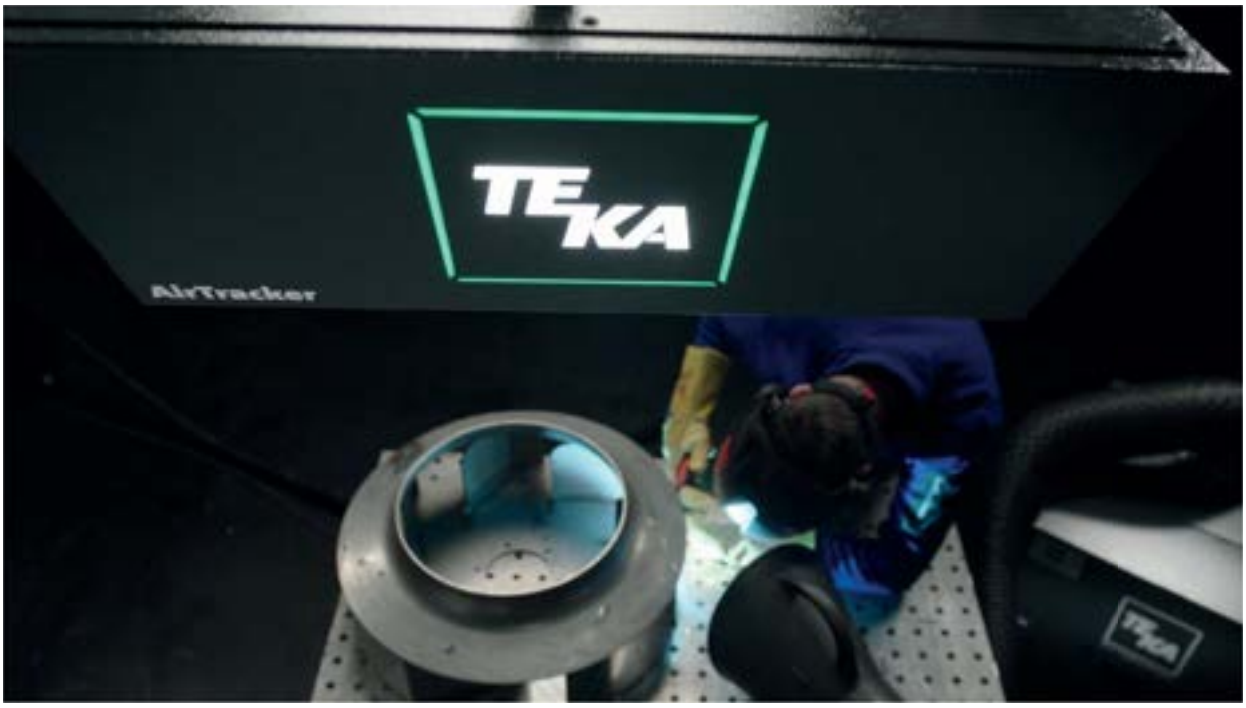

With the AirTracker, companies can document compliance with occupational health and safety regulations – manually or via the optionally available data logger – and thus transparently demonstrate their commitment to prevention and occupational safety. Industry 4.0 – Ready-to-Go with the TEKA AirTracker. An investment in safety, health and the future.

Available versions

AirTracker Room monitoring system	RGF
201701402024	

TEKA mobile suction and filter units make it possible for you to flexibly adapt to changing conditions. For situations that require dust and smoke extraction, we offer adequate solutions for metal processing (welding/ laser), electronic industry (soldering), dental and medical technology.

The TEKA HandyCart, for instance, is a compact, space-saving unit used for welding of small components. In a special version, this filter unit can be used for torch extraction.

On the other hand, the mobile TEKA cartridge filter units StrongMaster and CartMaster are a high-end solution in the field of mobile suction and filter units. These professional systems make it possible to realize long-lasting fume extraction during welding work involving non alloyed and stainless steel, especially with strong smoke production.

1. Mobile and wall-mounted suction and filtering systems

dustoo Mobile high-vacuum suction and filter system

Suitable for

Use on welding guns with integrated extraction or selective collection via extraction nozzle

dustoo

Description

Mobile high-vacuum cartridge filter in portable and mobile versions.
The system is particularly suitable for use with welding guns with integrated extraction. The housing is made of sturdy sheet steel and has a powder coating on the inside and outside.

The device has an integrated spark arrestor. The dust is collected in a dust collection tray and can then be easily disposed of. The filter cartridge works on the principle of surface filtration, i.e. the particles are deposited on the filter cartridge and do not penetrate the filter material.

The extraction unit has a continuously variable speed control via a potentiometer for adjusting the suction power. The extraction unit is equipped with two powerful high-pressure turbines.

The system is equipped with automatic filter cleaning. If the system is connected to compressed air, cleaning takes place at appropriately set intervals via a timer.

A filter monitoring system signals when a certain pressure value is reached, indicating that the filter cartridge should be replaced. The device is delivered ready to plug in with a IEC power cord.

Standard equipment

- Speed control
- 2 intake manifolds ∅ 50 mm
- 1 cover for intake
- Optical filter monitoring
- Automatic filter cleaning
- 5 m power cord
- 2.5 metre suction hose
- Round nozzle with magnetic base

Technical Data

dustoo Mobile high-vacuum suction and filter system	
Max. volumetric flow of the fan	0-340 m³/h
Max. pressure	20.000 Pa
Motor performance	1,6 (2x 0,8) kW
Separation efficiency	≥ 99%
Sound level	approx. 74 dB(A)
Inlet nozzle	2 × ∅ 50 mm
Filter equipment	Filter cartridge
Drive type	Carbon brushes motor
Dimensions	W: 300 mm D: 300 mm H: 810 mm
Weight	25 kg

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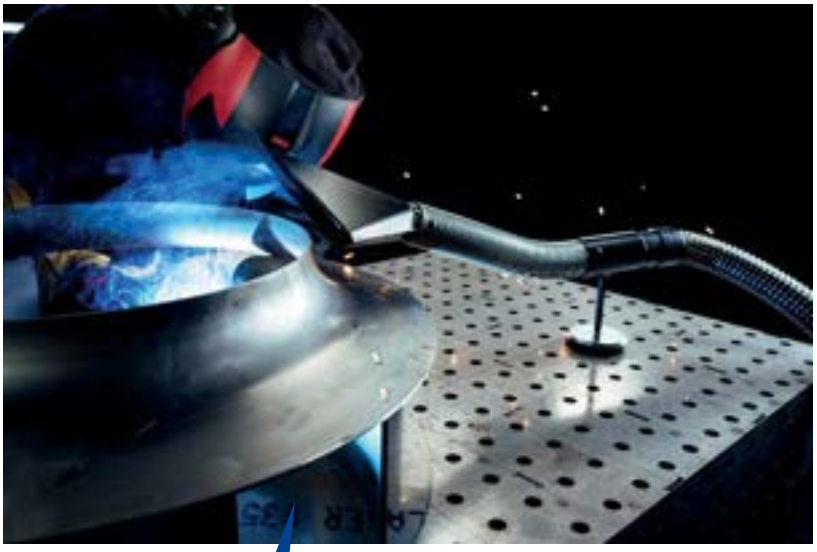
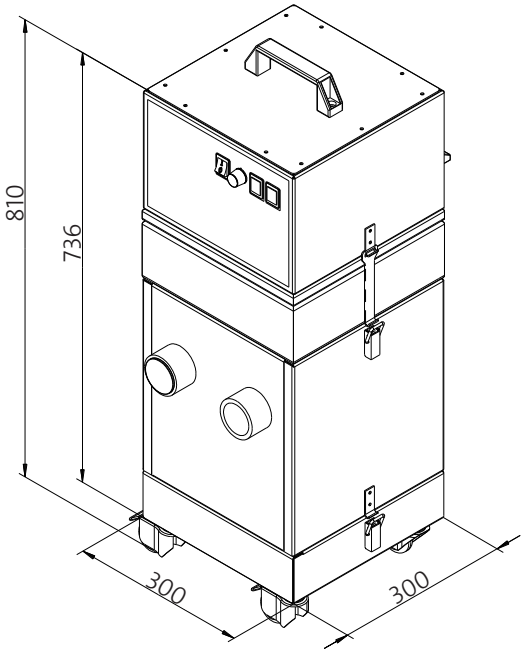
Available as an option

- Extensive selection of suction nozzles and hoses



Application example: Funnel nozzle



dustoo in **Action**

Available versions

dustoo Mobile high-vacuum suction and filter system	RGF
98 701	

dustoo Accessories

	Filter cartridge PTFE		9870003	RGF
	Set carbon brushes for turbine		9870004	RGB
	Suction hose with two rigid connectors Ø 45 mm	Length 2,5 m	9631925	RGB
		Length 5 m	9631950	RGB
		Length 10 m	9631910	RGB
	Funnel nozzle Ø 45 mm, flexible, with magnetic base		96317	RGB
	Round nozzle Ø 45 mm, flexible, with magnetic base		963171	RGB
	Slot nozzle Ø 45 mm, with magnetic base	Width 300 mm	96318	RGB
		Width 600 mm	938186	RGB

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	Floor suction nozzle, ∅45, width 500 mm	12201	RGB
	Suction pipe for floor suction nozzle, ∅45, length 1250mm	12202	RGB
	Coupling sleeve for hose ∅45 mm	12203	RGB
	Set: Floor suction nozzle, suction pipe, coupling sleeve	12200 10	RGB
	Pack of 10 PE-dust bags	10030252	RGB

HandyCart Cartridge filter unit

Suitable for

Extraction of welding fumes and dusts at frequently changing places (construction sites, shipbuilding, small parts welding stations, motor vehicle workshops)

Device with torch extraction includes fully automatic dedusting (Art.-No. 97904666)

Description

Mobile portable high-vacuum extraction unit with manual dedusting or fully automatic pneumatic dedusting.

The filter cartridge remains in the unit to prevent dust from reaching the workplace. The filter cartridge guarantees a separation efficiency ≥ 99 %.

The extracted dusts are collected in the dust tray. They can be disposed of by means of an inlaid polyethylene bag (optionally available).

Standard equipment

- Automatic speed control
- High quality PTFE filter cartridge
- 2 suction connections ∅ 50 mm
- 1 temporary cover for suction connection
- Service-friendly maintenance door
- Dust collecting tray
- Operating hours metres
- Optical filter monitoring
- 1,8 m power cord

Available as an option

- Outlet silencer
- Adaptable activated carbon cell (use for gases)
- Large number of accessories

Technical Data

HandyCart Cartridge filter unit	
Max. volumetric flow of the fan	320 m³/h
Max. pressure	21000 Pa
Motor performance	1,2 kW
Separation efficiency	≥ 99%
Sound level	approx. 62 dB(A)
Inlet nozzle	2 × ∅ 50 mm
Filter equipment	PTFE filter cartridge
Drive type	continuous running turbine
Dimensions	W: 300 mm D: 300 mm H: 679 mm
Weight	approx. 28 kg

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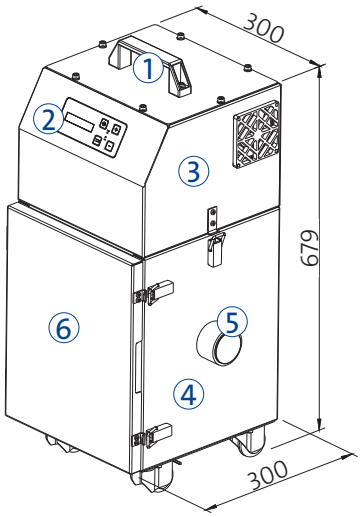
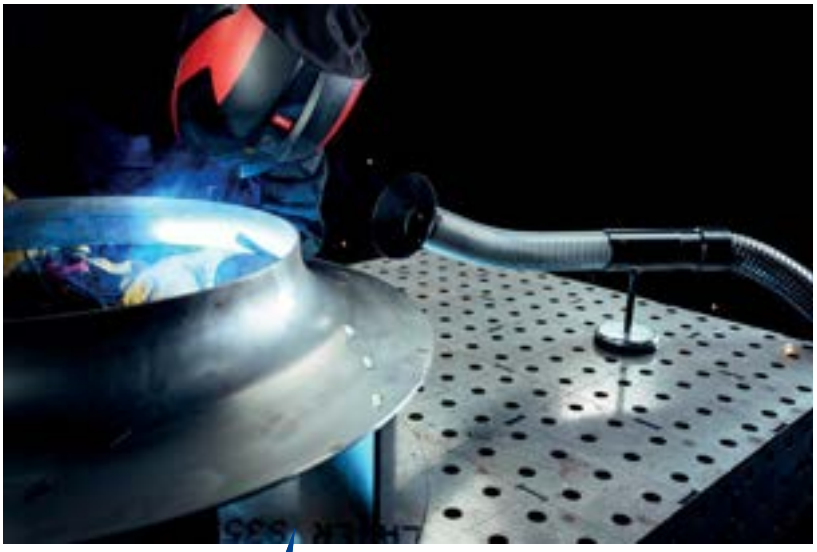


Illustration without automatic dedusting

1) *Handle*
2) *Display control*
3) *Motor housing*
4) *Cartridge housing*
5) *Suction nozzle*
6) *Maintenance door*



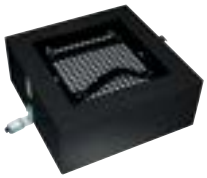
Application example: Round nozzle

HandyCart in **Action**

Available versions

HandyCart Cartridge filter unit			RGC
		Type of dedusting	
		manual Height: 670 mm	*automatic* Height: 797 mm
HandyCart HD		97902666	97904666

HandyCart Accessories

	Filter cartridge PTFE 0,8 m²	(Units from September 2003 on)	100281	RGD
	Activated-carbon filter, Conversion set		97901120	RGB
	Activated-carbon filter	250 x 250 x 100 mm	97901125	RGB
	Suction hose ∅ 45 mm with hard connection pieces	Length 2,5 m	9631925	RGB
		Length 5 m	9631950	RGB
		Length 10 m	96319 10	RGB
	Funnel nozzle ∅ 45 mm, flexible, with magnetic base		96317	RGB
	Round nozzle ∅ 45 mm, flexible, with magnetic base		96317 1	RGB
	Slot nozzle ∅ 45 mm, with magnetic base	Width 300 mm	96318	RGB
		Width 600 mm	938186	RGB

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	Floor suction nozzle, ∅45, width 500 mm	12201	RGB
	Suction pipe for floor suction nozzle, ∅45, length 1250mm	12202	RGB
	Coupling sleeve for hose ∅45 mm	12203	RGB
	Set: Floor suction nozzle, suction pipe, coupling sleeve	12200 10	RGB
	Silencer	97801130	RGB
	Pack of 10 PE-dust bags	10030252	RGB

filtoo® Mechanical filter unit with 1 suction element, IFA-certified

Suitable for

Welding fumes, cutting dust, laser fumes, plasma fumes, grinding dust, adhesive vapors, drilling dust and much more

filtoo with suction arm (Art.-No. 978100)

Description

The device can be used for numerous fields of application. The mobile suction and filter unit filters fume and dust and neutralizes odors. The suction arm (alternatively with hose) extracts polluted air exactly where it is produced. The device filters particles or gases in a four-level filter process including a gross filter, a prefilter, an activated carbon filter and a main filter.

The unit meets the security requirements of units of the welding fume category W3 (high alloy steels). If you handle the unit correctly, you can use it for circulating air operation because it fulfills the requirements of the exceptional rules according to the German Hazardous Substances Ordinance (GefStoffV).

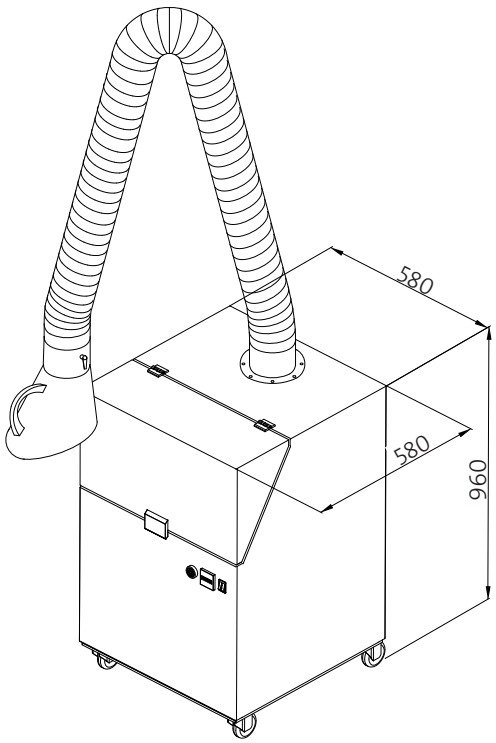
Standard equipment

- Gross filter with a large surface
- Prefilter
- Activated carbon filter
- Main filter with separation efficiency of ≥ 99 %
- Electronic filter monitoring
- Operating hours metre
- 5 m power cord
- Suction arm 3 m in hose version with internal joints

  or
- Suction hose 3 m with hood and magnetic base

Available as option

- Dust pre-separator StaVo
- Protection grille for extraction hood



Technical Data

filtoo® Mechanical filter unit	
Max. volumetric flow of the fan	1600 m³/h
Max. pressure	1800 Pa
Motor performance	1,1 kW
Separation efficiency	≥ 99 %
Sound level	approx. 72 dB(A)
Dimensions (W×D×H)	580 × 580 × 900 mm
Weight	approx. 80 kg

Our Hotline
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filtoo in **Action**

Available versions

filtoo® Mechanical filter unit with 1 suction element, IFA-certified	RGF
Suction arm *hose, internal joints, 3 metres*	978100
Hose *with hood and magnetic base, 3 metres*	978200

Accessories: **StaVo** Dust-pre-separator for filtoo

Suitable for

Retrofitting of filtoo® to increase filter life; serves as a spark arrester; easy installation

Description

This kit is used for preliminary dust separation in the filtoo®. The inserted baffle directs the airflow toward the dust collecting drawer. Possibly suctioned sparks are also captured effectively.

In the collecting drawer most of the dust is already pre-separated. The following 4 filter steps will be relieved and their lifetime will be increased. The collection charge can regularly be emptied in a simple manner.

- Longer filter life and thus very economical
- Easy removal of dust particles via dust collecting drawer
- Uncomplicated installation
- Can be retrofitted for each filtoo®
- Patented

The StaVo can be easily installed in just a few simple steps.

Available versions

Accessories: StaVo Dust-pre-separator for filtoo®	RGB
978013	

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Accessories for **filtoo®**

	Gross filter, set of 10, 490 x 490 x 20 mm	978003	RGE
	Prefilter 484 x 484 x 48 mm	978004	RGE
	Activated carbon filter 484 x 484 x 20 mm	978006	RGE
	Main filter 520 x 520 x 250 mm	978005	RGE
	Dust pre-separator StaVo	978013	RGB
	Protection grille for exhaust hood	10372	RGB
	Standard exhaust hood incl. throttle Ø 150	66200	RGB
	300x360 mm PVC, black	66210	RGF
	Adapter for exhaust hood round, 400mm PVC, black	66220	RGF

filtoo® WorkTable

Suitable for

Variable workplaces in workshops and in the metalworking industry. For welding, grinding and cutting with low amounts of fumes and dust.

filtoo® WorkTable

Description

The filtoo® WorkTable is a variant of our leading product, filtoo®, with an extraction arm. Customers not only receive a mobile workbench with downward extraction, but also a built-in particle pre-separator.

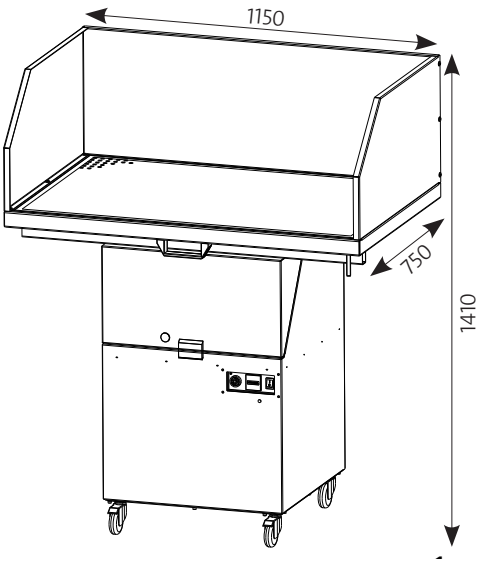
Thanks to the five-stage filter system, all hazardous particles are effectively filtered out of the air in the work area. The filtoo® WorkTable stands out thanks to its high-quality workmanship, designed by German engineers, and its unbeatable price.

Standard equipment

- StaVo
- Large coarse filter
- Pre-filter
- Activated carbon filter
- Main filter
- Electronic filtration control
- Operating hours counter
- 5m power cord

Available as option

- Expansion kit incl. replacement aluminium mesh filter
- Replacement aluminium mesh filter



filtoo® WorkTable in **Action**

Technical Data

filtoo® WorkTable	
Max. volumetric flow of the fan	1600 m³/h
Max. pressure	1800 Pa
Motor performance	1,1 kW
Separation efficiency	≥ 99 %
Sound level	approx. 68 dB(A)
Dimensions (W×D×H)	1150 x 750 x 1410 mm
Weight	approx. 120 kg

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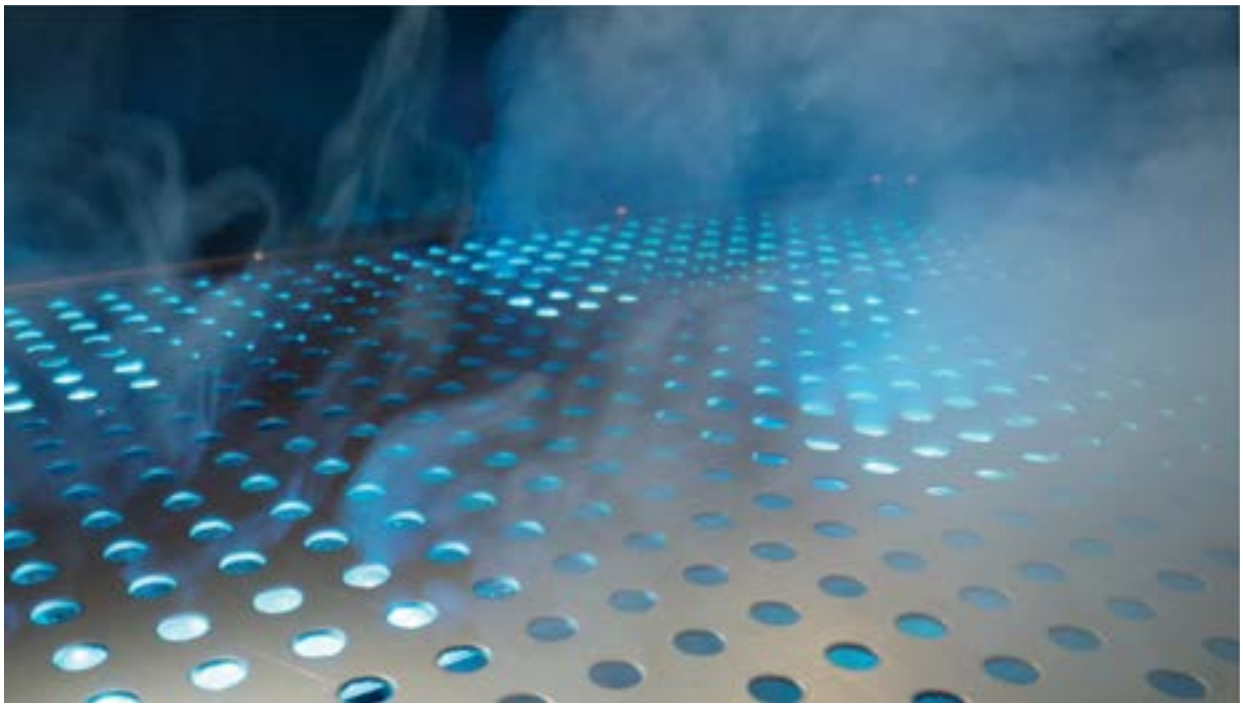

Accessories for **filtoo® WorkTable**

	Coarse filter set, Set of 10, 490 x 490 x 20 mm	978003	RGE
	Pre-filter 484 x 484 x 48 mm	978004	RGE
	Activated carbon filter 484 x 484 x 20 mm	978006	RGE
	Main filter 520 x 520 x 250 mm	978005	RGE
	Extension set for working surface incl. alu mesh filter	978018	RGB
	Replacement alu mesh filter for extension set	978017	RGE

Available versions

filtoo® WorkTable	RGF
978300	

CareMaster-IFA Mechanical filter unit with 1 suction element

Suitable for

Smoke extraction during welding work with unalloyed and stainless steel.
The device is IFA-tested for welding fume class W3.

CareMaster-IFA
(Art.-Nr. 97300101)

Description

This mobile welding fume filter is IFA certified in combination with all TEKA suction arms (Ø 150 mm). The separation efficiency is ≥ 99 %.

The unit meets the security requirements of units of the welding fume category W3 (highly alloyed steels). If you handle the unit correctly, you can use it for circulating air operation because it fulfills the requirements of the exceptional rules according to the new German Hazardous Substances Ordinance (GefStoffV).

A stable construction made of steel plate with consistent powder coating guarantees a low maintenance operation even under rough conditions.

The gross particles are separated in the pre-filter. Afterwards the air is guided through the particle filter where even finest fumes and dusts are separated. The tight lifting device guarantees an absolute impermeability and therefore the separation efficiency of the filter unit.

The air is let out on the backside of the unit through an outlet grill and rises up. Thus, at a distance of 1 m you cannot perceive a disturbing air flow any more.

The unit is fitted with a high-capacity fan with high negative pressure which guarantees a high volumetric flow even if the filter is saturated.

Standard equipment

- Baffle plate
- Extensive pre-filter mat
- Particle filter with separation efficiency ≥ 99%
- Optical and acoustic filter monitoring
- Sealing device
- Operating hours meter
- Operation control lamp
- Suction arm Ø 150 mm or suction hose 12 m Ø 150 mm
- 5 m power cord

Available as an option

- Automatic start/stop system
- Lighting kit
- On/off switch via suction hood
- Aluminium mesh pre-filter
- Protection grille for extraction hood

CareMaster in **Action**

Technical Data

CareMaster-IFA Mechanical filter unit	
Max. volumetric flow of the fan	2 500 m³/h
Max. pressure	2 500 Pa
Motor performance	1,1 kW
Separation efficiency	≥ 99 %
Sound level	approx. 70 dB(A)
Dimensions (W×D×H)	665 × 681 × 995 mm
Weight	approx. 122 kg

Our Hotline
+49 25 41 84 84 1 300

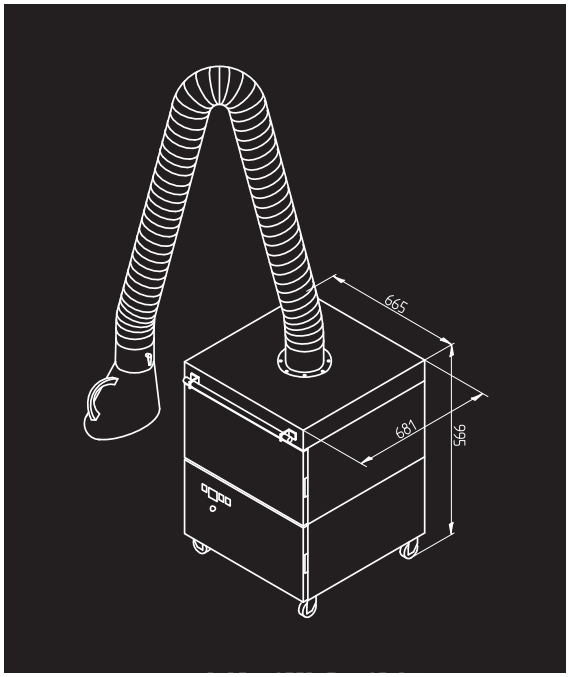

Image shows optional equipment with activated carbon filter

Available versions

CareMaster-IFA Mechanical filter unit with 1 suction element				RGA
		Length		
		3 metres	*4 metres*	*12 metres*
Arm, hose type	*Internal joints*	97300101	97300102	
	External joints	97300111	97300112	
Hose with hood and magnetic base				97300140

Accessories for **CareMaster mobile**

	Pre-filter mats 10 pieces per set	610x610x20 mm	10032	RGE
	Particle filter F9 (Standard)	610x610x292 mm	10029	RGE
	Particle filter H13 (Optionally usable instead of particle filter F9)	610x610x292 mm	10030	RGE
	Particle filter H13	610x610x186 mm (when used with activated carbon cassette, Art.-No. 97053)	100357	RGE
	Activated carbon filterin replaceable housing	610x610x100 mm (only in conjunction with particle filter H13, Art.-No. 100357)	97053	RGE
	Aluminium wire mesh filter	610x610x15 mm	100008	RGB
	Protection grille for exhaust hood (not in conjunction with lighting kit)		10372	RGB

Our Hotline
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	Standard exhaust hood incl. throttle	⌀ 150	66200	RGB
	Metal exhaust hood incl. throttle	⌀ 150	104901	RGB
	On/off switch via exhaust hood, preassembled	only on initial order	96313321	RGB
	Lighting kit, pre-assembled (not in conjunction with protection grille)	only on initial order	96323	RGB
	Adapter for exhaust hood angular (only for plastic hoods)	300x360 mm PVC, black	66210	RGF
	Adapter for exhaust hood round (only for plastic hoods)	400mm PVC, black	66220	RGF

StrongMaster-IFA Mobile cartridge filter unit, 1 suction element

Suitable for

Long-lasting fume extraction involving unalloyed and stainless steel, galvanized material and aluminium involving a strong fume production. This unit is IFA certified for welding fume class W3.

StrongMaster-IFA (Art.-Nr. 97030101)

Description

Mobile cartridge filter unit, IFA certified in combination with all TEKA suction arms for the welding fumes class W3. The separation efficiency is ≥ 99 %.

As the filter cartridge is dedustable, the unit only generates minimal follow up costs. The filter cartridge remains within the unit during dedusting which makes sure that no dust can reach the working space.

The unit meets the security requirements of the welding fume category W3 (highly alloyed steels). If you handle the unit correctly, you can use it in recirculation mode because it fulfills the requirements of the exceptional rules according to the new German Hazardous Substances Ordinance (GefStoffV).

A stable sheet steel construction with consistent powder coating ensures a low maintenance operation even under rough conditions.

A baffle plate serves to pre-separate gross particles. Afterwards, the filter cartridge separates the remaining dusts and fumes. The filter is dedusted via a maintenance door by means of a compressed air pistol on the clean air side. The particles are collected in a dust collecting tray and can be disposed of afterwards.

The air is exhausted on the backside of the unit through an outlet grill and rises up. Thus, at a 1 m distance, no disturbing air flow can be perceived any more.

The unit is fitted with a high-capacity snail fan with high negative pressure that guarantees a high volumetric flow even if the filter is saturated.

The filter cartridge (dust category M) is precoated with a special powder that increases its lifetime compared to regular filter cartridge enourmously.

StrongMaster in **Action**

Technical Data

StrongMaster-IFA Cartridge filter unit	
Max. volumetric flow of the fan	1860 m³/h
Max. pressure	2900 Pa
Motor performance	1,1 kW
Separation efficiency	≥ 99 %
Sound level	approx. 70 dB(A)
Dimensions (W×D×H)	665 × 820 × 1365 mm
Weight	approx. 130 kg

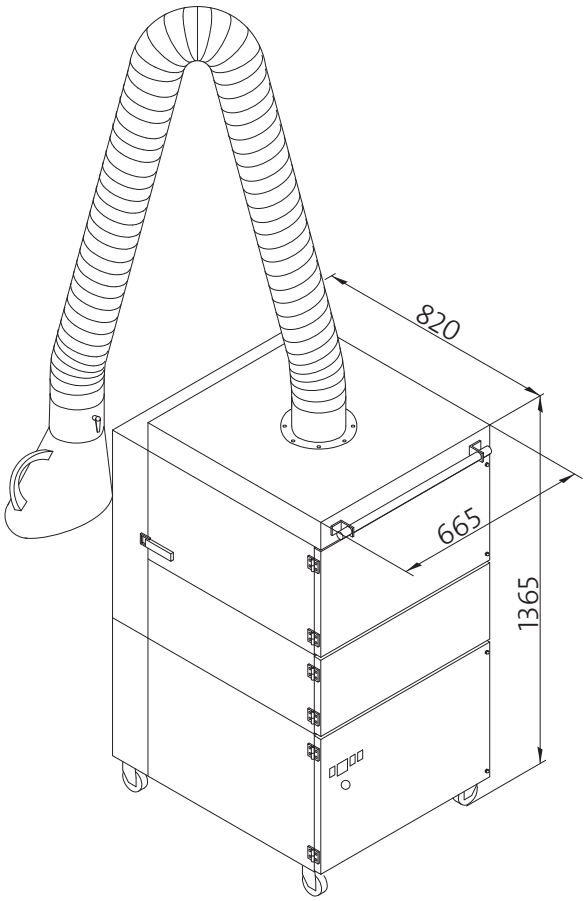
Our Hotline
+49 25 41 84 84 1 300

Standard equipment

- Baffle plate
- Long lasting, dedustable filter cartridge
- Optical and acoustic filter monitoring
- Sealing device
- Operating hours meter
- Suction arm ⌀ 150 mm or
  12 m suction hose ⌀ 150 mm
- 5 m power cord
- PE bag for the dust collecting tray

Available as an option (with IFA Certificate)

- Automatic start/stop system
- On/off switch via suction hood
- Lighting kit
- Protection grille for extraction hood



Available versions

StrongMaster-IFA Cartridge filter unit, 1 suction element RGA

		Length		
		3 metres	*4 metres*	*12 metres*
Arm, hose type	*Internal joints*	97030101	97030102	
	External joints	97030111	97030112	
Hose with exhaust hood and magnetic base				97030140

Accessories for **StrongMaster-IFA**

	Filter cartridge, filter area 10m² 327×600 mm, 10m², dust class M (Standard)		6160600110008	RGD
	Filter cartridge, type easy clean plus, 327 x 600 mm, 12,5 m²		6160600212508	RGD
	Protection grille for exhaust hood (not in conjunction with lighting kit)		10372	RGB
	PE bags (pack of 10)		10030250	RGB
	NANNOX P50, 100 g (in bucket)		68130000100	RGB
	Standard exhaust hood incl. throttle	NW 150	66200	RGB

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	Metal exhaust hood incl. throttle	⌀ 150		104901	RGB
	On/off switch via exhaust hood, preassembled	only on initial order		96313321	RGB
	Lighting kit, pre-assembled (not in conjunction with protection grille)	only on initial order	only on initial order	only on initial order	RGB
	Adapter for exhaust hood angular (only for plastic hoods)	300x360 mm PVC, black	300x300mm PVC, black	300x300mm PVC, black	RGF
	Adapter for exhaust hood round (only for plastic hoods)	400mm PVC, black	400mm PVC, black	400mm PVC, black	RGF

CartMaster-IFA Mobile Cartridge filter unit, 1 suction element and automatic dedusting

Suitable for

Long-lasting fume extraction involving unalloyed and stainless steel, galvanized material and aluminium involving a strong fume production. This unit is IFA certified for welding fume class W3.

CartMaster
(Art.-Nr. 97000101)

DGUV Test
Gefahrstoffgeprüft
Schweißrauch-abscheideklasse W3

INCLUDING
POWER SPRAY-SYSTEM
further information on page 54

Description

Mobile cartridge filter unit with suction arm or 12 m suction hose.

The specially developed dedusting system guarantees optimal separation efficiency during the whole operation. The advantage of the POWER SPRAY-SYSTEM is not only its low maintenance construction without rotating jets (which wear off easily) but also the low dedusting pressure respectively low consumption of compressed air. The dedusted particles are collected in the dust collecting tray and can be disposed of afterwards.

The control contains a subsequent cleaning when the fan stands still.

A stable steel plate construction with consistent powder coating guarantees a low maintenance operation even under rough conditions.

A baffle plate serves as pre-separator for gross particles. The filter cartridge of the filter category BIA M separates the remaining fumes and dusts (separation efficiency ≥ 99 %). The cartridge is coated ex works with a special filter medium. Thus, the lifetime increases considerably compared to that of standard filter cartridges.

The enormous advantage of this unit is its user-friendly construction with maintenance doors for all control areas and very low consequential costs because the cartridge is dedustable.

Standard equipment

- Fully automatic, contamination-related dedusting via POWER SPRAY-SYSTEM
- Pre-separator
- Durable filter cartridge with large filter surface
- Control with display
- Compressed air container
- Optical filter monitoring
- Sealing device
- Operating hours meter

CartMaster in **Action**

Technical Data

CartMaster-IFA Cartridge filter unit	
Max. volumetric flow of the fan	1860 m³/h
Max. pressure	2900 Pa
Motor performance	1,1 kW
Separation efficiency	≥ 99 %
Sound level	approx. 70 dB(A)
Dimensions (W×D×H)	665 × 1100 × 1495 mm
Weight	approx. 160 kg

Our Hotline
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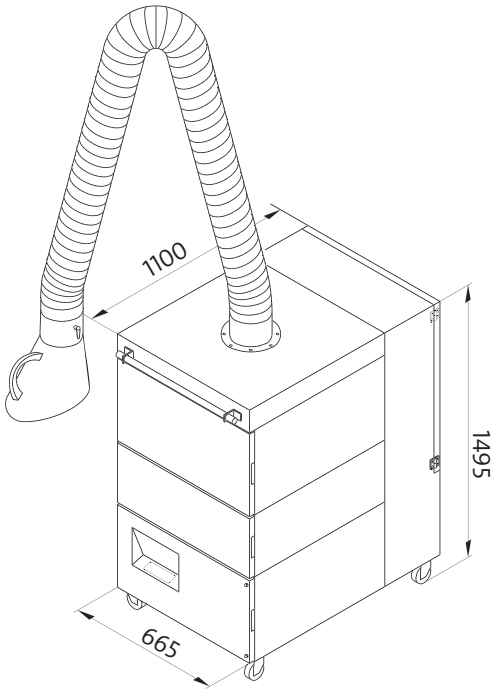
- Suction arm ⌀ 150 mm or
  12 m suction hose ⌀ 150 mm
- 5 m power cord
- PE bag for the dust collecting try

Available as an option

- Lighting kit
- On/off switch via suction hood
- Protection grille for extraction hood



Available versions

CartMaster Cartridge filter unit with 1 suction element RGA

		Length		
		3 metres	*4 metres*	*12 metres*
Arm, hose type	*Internal joints*	97000101	97000102	
	External joints	97000111	97000112	
Hose with exhaust hood and magnetic base				97000140

Accessories for **CartMaster-IFA**

	Filter cartridge, filter area 10m² 327×600 mm, 10m², dust class M (Standard)	6160600110008	RGD
	Filter cartridge, type easy clean plus, 327 x 600 mm, 12,5 m²	6160600212508	RGD
	Protection grille for exhaust hood	10372	RGB
	PE bags (pack of 10)	10030250	RGB
	NANNOX P50 for filter cartrdiges, 100 g (in bucket)	68130000100	RGB
	Standard exhaust hood incl. throttle ⌀ 150	66200	RGB

Our Hotline
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	Metal exhaust hood incl. throttle	⌀ 150	104901	RGB
	On/off switch via exhaust hood, preassembled	only on initial order	96313321	RGB
	Lighting, preassembled	only on initial order	96323	RGB
	Adapter for exhaust hood angular (only for plastic hoods)	300x360 mm PVC, black	66210	RGF
	Adapter for exhaust hood round (only for plastic hoods)	400mm PVC, black	66220	RGF

CareMaster Wall-mounted mechanical filter unit with 1 or 2 suction elements

Suitable for

Fume extraction involving unalloyed steels

CareMaster
(Art.-Nr. 97400101)

CareMaster
(Art.-Nr. 97420101)

Description

A stable steel plate construction with consistent powder coating guarantees a low maintenance operation even under rough conditions.

The gross particles are separated in the pre-filter. Afterwards the air is guided through the particle filter where even finest fumes and dusts are separated. The sealing device guarantees an absolute impermeability and therefore the separation efficiency of the filter unit.

The unit is fitted with a high-capacity fan with high negative pressure which guarantees a high volumetric flow even if the filter is saturated.

From a length of 5 m on, the suction arm/ crane is equipped with an additional wall bracket.

Standard equipment

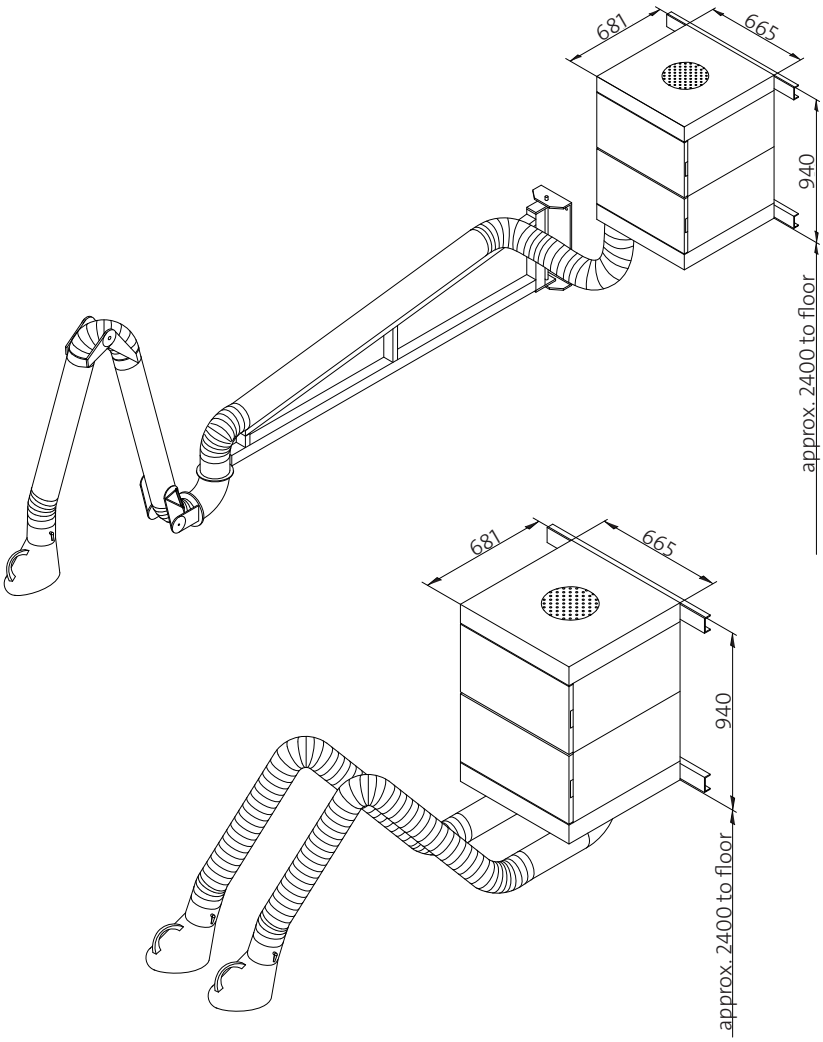
- Extensive pre-filter mat
- Particle filter with separation efficiency ≥ 99%
- Optical filter monitoring
- Sealing device
- Operating hours meter
- External control
- Wall mount
- 5 m connection cable
- 1 or 2 suction arm ∅ 150 mm with hood (synthetics) incl. throttle valve
  or
  nozzle ∅ 160 mm

Available as an option

- Aluminium mesh pre-filter
- Activated carbon filter cartridge
- Automatic start/stop system
- Lighting kit
- On/off switch via suction hood
- Exhaust air connection
- Protection grille for suction hood

Technical Data

CareMaster Wall-mounted mechanical filter unit	
Max. volumetric flow of the fan	1800–3500 m³/h
Max. pressure	2500 –3000 Pa
Motor performance	1,5 – 2,2 kW
Separation efficiency	≥ 99 %
Sound level	approx. 70 dB(A)
Dimensions (W×D×H)	665 × 681 × 940 mm
Weight	approx. 122 - 142 kg



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Example of application: CareMaster wall mounted with additional nozzle plate attached to the suction hood

Available versions

CareMaster Wall-mounted mechanical filter unit with 1 suction element

RGA

		Length					
		3 metres	*4 metres*	*5 metres*	*6 metres*	*7 metres*	*8 metres*
1 x Arm, hose type	*Internal joints*	97400101	97400102	97400103	97400104	97400105	97400106
with 3500 m³/h, 1,5 kW	*External joints*	97400111	97400112	97400113	97400114	97400115	97400116
Nozzle	*Ø 160*	97430 *with 3500 m³/h, 1,5 kW*					

CareMaster Wall-mounted mechanical filter unit with 2 suction elements

RGA

		Length					
		3 metres	*4 metres*	*5 metres*	*6 metres*	*7 metres*	*8 metres*
2 x Arm, hose type	*Internal joints*	97420101	97420102	97420103	97420104	97420105	97420106
with 3500 m³/h, 2,2 kW	*External joints*	97420111	97420112	97420113	97420114	97420115	97420116
Nozzle	*2 × Ø 160*	97440					
	1 × Ø 250	97443					

Accessories for **CareMaster wall-mounted**

	Pre-filter mats 10 pieces per set	610x610x20 mm	10032	RGE
	Particle filter F9 (Standard)	610x610x292 mm	10029	RGE
	Particle filter H13 (Optionally usable instead of particle filter F9)	610x610x292 mm	10030	RGE
	Particle filter H13	610x610x186 mm (when used with activated carbon cassette, Art.-No. 97053)	100357	RGE
	Activated carbon filterin replaceable housing	610x610x100 mm (only in conjunction with particle filter H13, Art.-No. 100357)	97053	RGE
	Aluminium wire mesh filter	610x610x15 mm	100008	RGB
	Protection grille for exhaust hood		10372	RGB
	Standard exhaust hood incl. throttle	⌀ 150	66200	RGB

Our Hotline
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	Metal exhaust hood incl. throttle	NW 150	104901	RGB
	On/off switch via exhaust hood, preassembled	only on initial order	96313321	RGB
	Lighting, preassembled (only on initial order)	for one arm	96323	RGB
		for two arms	96324	RGB
	Adapter for exhaust hood angular (only for plastic hoods)	300x360mm PVC, black	66210	RGF
	Adapter for exhaust hood round (only for plastic hoods)	400mm PVC, black	66220	RGF
	Master-Slave-Control 400V / 16A	automatic powering of a filter unit by connected devices	150010016	RGB
	Master-Slave-Control 400V / 32A	automatic powering of a filter unit by connected devices	150010032	RGB
	Master-Slave-Control 230V / 16A	automatic powering of a filter unit by connected devices	15001001602	RGB
	Master slave junction box	for the control of up to 3 master-slave controllers simultaneously	15001001604	RGB

CartMaster-IFA Wall-mounted cartridge filter unit, for up to 2 suction elements

Suitable for

Long-lasting fume extraction for welding involving unalloyed and stainless steel, galvanized material and aluminium involving a strong fume production. The unit is IFA certified for welding fume class W3.

CartMaster-IFA (Assembly example)

DGUV Test
Gefahrstoffgeprüft
Schweißrauch-abscheideklasse W3

INCLUDING
POWER SPRAY-SYSTEM
further information on page 54

Description

Stationary cartridge filter unit which is IFA-certified in combination with all TEKA suction arms or cranes according to DIN EN ISO 21904-1/-2.

The separation efficiency is ≥ 99 %.

The unit corresponds to the security requirements of units of the welding fume category W3 (highly alloyed steels). If you handle the unit correctly, you can use it in a recirculation mode because it fulfills the requirements of the exceptional rules according to the new German Hazardous Substances Ordinance (GefStoffV).

A stable sheet steel construction with consistent powder coating guarantees a low maintenance operation even under rough conditions.

The specially developed dedusting system guarantees optimal separation efficiency during the whole operation. The advantage of the POWER SPRAY-SYSTEM is not only its low maintenance construction without rotating jets which are susceptible to wear, but also the low dedusting pressure and low consumption of compressed air.

The cleaned particles are collected in a freely accessible dust bin and can then be disposed of.

A baffle plate serves as protection device for the filter cartridges. The fumes and dusts are separated from the filter cartridges. They are coated ex works with a special filter agent. This increases their lifetime considerably compared to standard filter cartridges.

From a length of 5 m on, the suction arm/crane is equipped with an additional wall bracket.

Standard equipment

- Automatic filter monitoring
- Operating hours meter
- Fully automatic cleaning via POWER SPRAY-SYSTEM
- 2 durable filter cartridges (10 m² filter surface each)
- Dust collection bin
- Compressed air container
- Wall bracket
- Silencer

Technical Data

CartMaster-IFA Wall-mounted cartridge filter unit	
Max. volumetric flow of the fan	3500 m³/h
Max. pressure	3000 Pa
Motor performance	2,2 kW
Separation efficiency	≥ 99 %
Sound level	approx. 72 dB(A)
Dimensions (W×D×H)	665 × 681 × 2100 mm
Weight	approx. 200 kg

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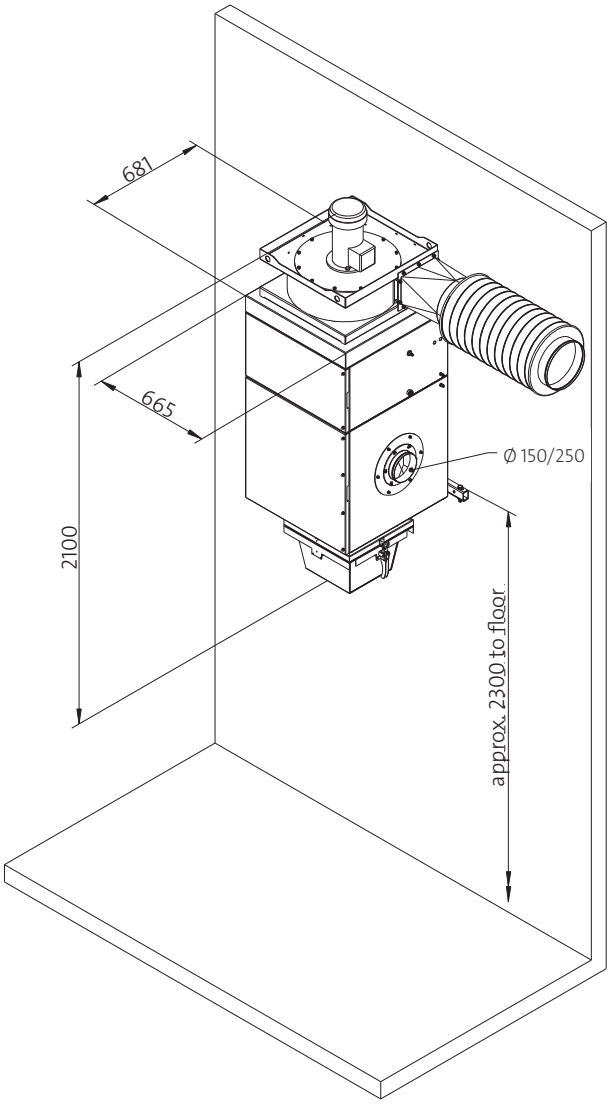
- 2 suction nozzles ∅ 150 mm or 1 suction nozzle ∅ 250 mm
- PE bag for the dust collecting tray

Available as an option (with IFA Certificate)

- Automatic start/stop system
- Lighting kit
- On/off switch via suction hood
- Protection grille for suction hood



suitable suction elements can be found on page 125

Available versions

CartMaster-IFA Wall-mounted cartridge filter unit, for up to 2 suction elements		RGA
Nozzle	*2x ∅ 150*	97530
	1x ∅ 250	97532

Accessories for **CartMaster wall-mounted**

	1x suction arm, length 4m (additional extraction elements can be found on page 125)	Ø 150mm	97603	RGF
	Filter cartridge, filter area 10m² 327×600 mm, 10m², dust class M (Standard)		6160600110008	RGD
	Filter cartridge, type easy clean plus, 327 x 600 mm, 12,5 m²		6160600212508	RGD
	PE bags (pack of 10)		10030251	RGB
	NANNOX P50, 100 g (in bucket, per m² of filter surface 10g are required)		68130000100	RGB
	Standard exhaust hood incl. throttle	Ø 150	66200	RGB
	Metal exhaust hood incl. throttle	Ø 150	104901	RGB
	Protection grille for exhaust hood (not in conjunction with a lighting kit)		10372	RGB
	On/off switch via exhaust hood, preassembled	only on initial order	96313321	RGB

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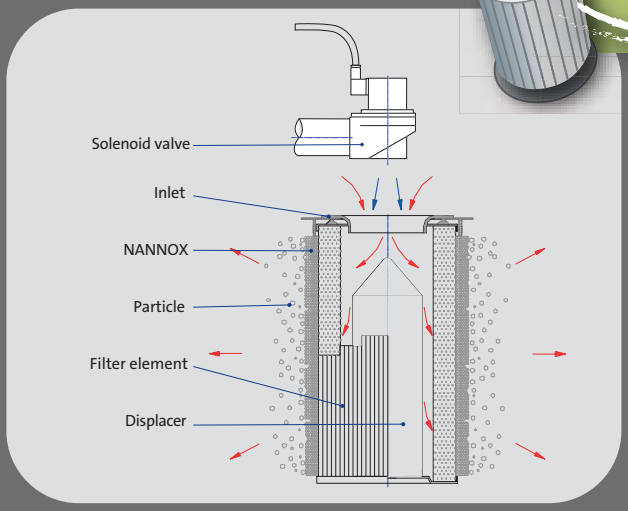
	Lighting, preassembled (only on initial orde, not in conjunction with a protection grille)	for one arm	96323	RGB
		for two arms	96324	RGB
	Adapter for exhaust hood angular (only for plastic hoods)	300x360mm PVC, black	66210	RGF
	Adapter for exhaust hood round (only for plastic hoods)	only on initial order	66220	RGF
	Master-Slave-Control 400V / 16A	for one arm	150010016	RGB
	Master-Slave-Control 400V / 32A	for two arms	150010032	RGB
	Master-Slave-Control 230V / 16A	Automated control of the filter system by upstream devices	15001001602	RGB
	Master slave junction box	for controlling up to 3 master-slave controls simultaneously	15001001604	RGB

In the field of large-scale air pollution control systems, we offer devices for medium and high emission levels with fully automatic cleaning.

In addition, you will find high-performance systems in this area that can be installed at fixed locations in production halls and enable simultaneous extraction at several workstations via pipes or hoses. Our technicians optimally coordinate the various components for each customer.

TEKA POWER SPRAY-SYSTEM – Fully automatic dedusting



TEKA implements a fully automated dedusting systems for almost all units in the following category: the microprocessor-controlled POWER SPRAY-SYSTEM! Instead of the usual 8 bar with jet-/rotating nozzles this system requires barely 4 bar pressure. There are no follow-up costs for worn out rotating nozzles.

This intelligently developed system dispenses the air within the filter cartridge optimally.
If the filter has to be changed after extensive use at some point, the filter cartridge with the displacer is easily removable (common jet-/rotating nozzles have to be disassembled tediously.
The core piece of the POWER SPRAY-SYSTEM is the displacer within the filter cartridge. This displacer dispenses the incoming air evenly onto the Filter surface.
The cartridge is dedusted gently and effectively.

FilterCube 2-IFA Central filter units

Suitable for

Various suction problems at several working places at the same time for work involving unalloyed metals and stainless steel, galvanized material and aluminium. The units are IFA certified for welding fume class W3.

FilterCube 2H with safety upgrade (available as an option)

Description

The stationary filter units FilterCube 2 is certified according to DIN EN ISO 21904-1/-2. The separation efficiency is ≥ 99 %.

The unit meets the security requirements of units of the welding fume category W3 (highly alloyed steels). If you handle the unit correctly, you can use it for circulating air operation because it fulfills the requirements of the exceptional rules according to the new German Hazardous Substances Ordinance (GefStoffV).

The smoke and dust released are collected by suitable collection elements and fed into the filter system. A copper deflector plate serves as a pre-separator.

All filter units are fitted with hanging filter cartridges. Thus, the admission of the cartridges is carried out on the side. Heavy particles fall down directly into the dust container.The filter cartridges are precoated ex works with a special filter medium. This increases their lifetime compared to standard cartridges considerably.

The dedusting is controlled by a microprocessor by means of the display control via the POWER SPRAY-SYSTEM.

Standard equipment

- Fully automatic dedusting via POWER SPRAY-SYSTEM
- Display control unit
- 2 large filter cartridges, each 600 or 1,200 mm long
- Dust collecting tray with sealing device
- Fan within a soundproof housing
- Integrated compressed air container
- Control unit for the fan
- Maintenance doors for all operating areas
- Suction nozzle according to type Ø 160 – 280 mm
- PE bag for the dust collecting tray

Available as an option (with IFA-Certificate)

- Safety device with particle sensor, extinguishing device and door with viewing window(s)
- Continuous precoating device
- Spark pre-separator
- Easy-Clean-Plus filter cartridges

Technical Data

FilterCube 2 Central filter units	
Max. volumetric flow of the fan	2500 – 5000 m³/h
Max. pressure	2900 – 3600 Pa
Motor performance	1,5 – 4,0 kW
Separation efficiency	≥ 99 %
Sound level	approx. 72 dB(A)
Dimensions (W×D×H)	665 x 982 x 2.129–2.729 mm

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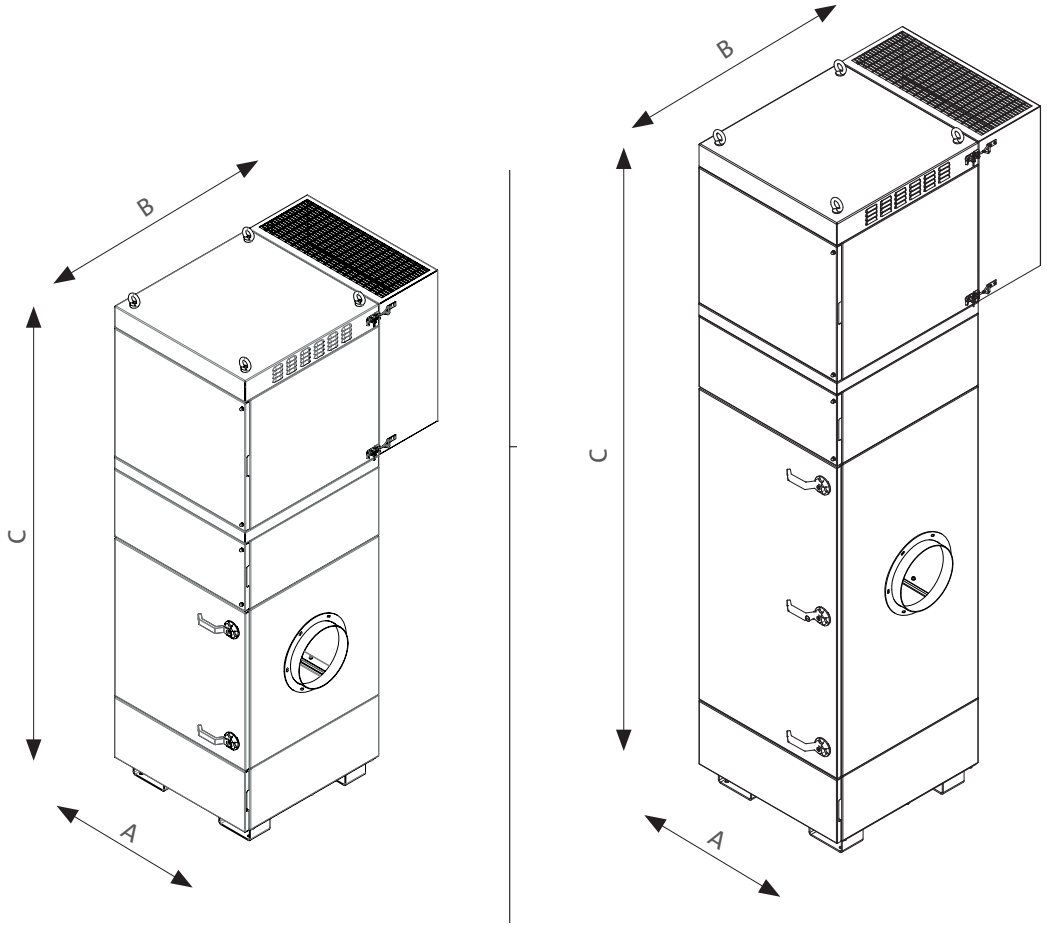

		1,5 kW	2,2 kW	3,0 kW	4,0 kW
FilterCube 2N	**A**	665 mm	665 mm	-	-
	B	982 mm	982 mm	-	-
	C	2129 mm	2129 mm	-	-
FilterCube 2H	**A**	-	-	665 mm	665 mm
	B	-	-	982 mm	982 mm
	C	-	-	2729 mm	2729 mm

Available versions

FilterCube 2 Central filter units, IFA-certified — RGC

Type	Motor performance	Filter cartridge	Max. volumetric flow of the fan	Max. pressure	Item number
FilterCube 2N	*1,5 kW*	*2x 7,8 m²*	*2500 m³/h*	*2900 Pa*	9501420015015300
FilterCube 2N	*2,2 kW*	*2x 10,0 m²*	*3500 m³/h*	*2900 Pa*	9501420022020300
FilterCube 2H	*3,0 kW*	*2x15,6 m²*	*4000 m³/h*	*3300 Pa*	9501421030031300
FilterCube 2H	*4,0 kW*	*2x 20,0 m²*	*5000 m³/h*	*3600 Pa*	9501421040040300

FilterCube 4-IFA Central filter units

Suitable for

Various suction problems at several working places at the same time for work involving unalloyed metals and stainless steel, galvanized material and aluminium. The units are IFA certified for welding fume class W3.

FilterCube 4H with safety upgrade (available as an option)

further information on page 54

Description

The stationary filter units FilterCube 4 is certified according to DIN EN ISO 21904-1/-2. The separation efficiency is ≥ 99 %.

The unit meets the security requirements of units of the welding fume category W3 (highly alloyed steels). If you handle the unit correctly, you can use it for circulating air operation because it fulfills the requirements of the exceptional rules according to the new German Hazardous Substances Ordinance (GefStoffV).

The released fumes and dusts are extracted via appropriate suction elements and guided into the filter unit. A perforated plate with large surface serves as pre-separator and distributes the particles on the whole filter surface.

All filter units are fitted with hanging filter cartridges. Thus, the admission of the cartridges is carried out on the side. Heavy particles fall down directly into the dust container.The filter cartridges are precoated ex works with a special filter medium. This increases their lifetime compared to standard cartridges considerably.

The dedusting is controlled by a microprocessor by means of the display control via the POWER SPRAY-SYSTEM.

Standard equipment

- Fully automatic dedusting via POWER SPRAY-SYSTEM
- Display control unit
- 4 large filter cartridges, each 600 or 1,200 mm long
- Dust collecting tray with sealing device
- Fan with silencer
- Integrated compressed air container
- Control unit for the fan
- Maintenance door in the filter cartridge housing
- Suction nozzle according to type Ø 160 – 315 mm
- PE bag for the dust collecting tray

Available as an option (with IFA Certificate)

- Safety device with particle sensor, extinguishing device and door with viewing window(s)
- Continuous precoating device
- Spark pre-separator
- Easy-Clean-Plus filter cartridges
- Silence module for ventilator
- Soundproof housing (only in conjunction with silence module, only for 4H)

Technical Data

FilterCube 4 Central filter units	
Max. volumetric flow of the fan	3.500–10.000 m³/h
Max. pressure	2.700–4.600 Pa
Motor performance	2,2–11,0 kW
Separation efficiency	≥ 99 %
Sound level	approx. 72 dB(A)
Dimensions (W×D×H)	800 x 800 x 2.590–3.170 mm

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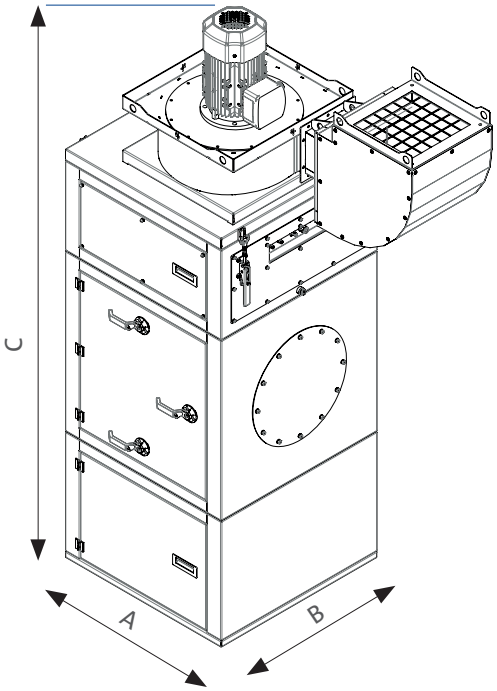

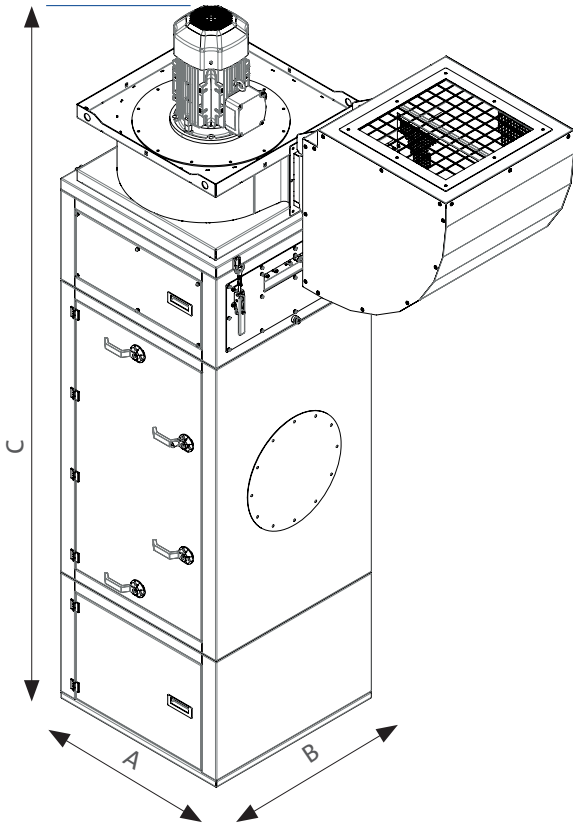

		2,2 kW	3,0 kW	4,0 kW	5,5 kW	7,5 kW	11,0 kW
FilterCube 4N	**A**	800 mm	800 mm	800 mm	-	-	-
	B	800 mm	800 mm	800 mm	-	-	-
	C	2590 mm	2590 mm	2590 mm	-	-	-
FilterCube 4H	**A**	800 mm	800 mm	800 mm	800 mm	800 mm	800 mm
	B	800 mm	800 mm	800 mm	800 mm	800 mm	800 mm
	C	3040 mm	3040 mm	3040 mm	3170 mm	3170 mm	3170 mm

Available versions

FilterCube 4 Central filter units, IFA-certified

Typ	Motor performance	Filer cartridges	Max. volumetric flow of the fan	Max. pressure	Item No.
FilterCube 4N	*2,2 kW*	*4x 7,8 m²*	*3.500 m³/h*	*2.900 Pa*	9501440022031100
FilterCube 4N	*3,0 kW*	*4x 10,0 m²*	*4.000 m³/h*	*3.300 Pa*	9501440030040100
FilterCube 4N	*4,0 kW*	*4x 10,0 m²*	*5.000 m³/h*	*3.600 Pa*	9501440040040100
FilterCube 4H	*2,2 kW*	*4x 7,8 m²*	*3.500 m³/h*	*2.900 Pa*	9501441022031100
FilterCube 4H	*3,0 kW*	*4x 7,8 m²*	*4.000 m³/h*	*3.300 Pa*	9501441030031100
FilterCube 4H	*4,0 kW*	*4x 10,0 m²*	*5.000 m³/h*	*3.600 Pa*	9501441040040100
FilterCube 4H	*5,5 kW*	*4x 15,6 m²*	*6.000 m³/h*	*4.100 Pa*	9501441055062100
FilterCube 4H	*7,5 kW*	*4x 20 m²*	*7.500 m³/h*	*3.950 Pa*	9501441075080100
FilterCube 4H	*11,0 kW*	*4x 25 m²*	*10.000 m³/h*	*4.600 Pa*	9501441110100100

Accessories for **FilterCube-IFA**

			4H	4N	2H	2N		
Standard		Filter Cartridge 7,8 m² Standard, 327 x 600 mm (Standard for 4H: 2,2 kW/3,0 kW - 4N: 2,2 kW - 2N: 1,5 kW)	2,2 kW 3,0 kW	2,2 kW	-	1,5 kW	6160600107808	RGD
		Filter Cartridge 10 m² Standard, 327 x 600 mm (Standard for 4H: 4,0 kW - 4N: 2,2 kW/3,0 kW - 2N: 2,2 kW)	4,0 kW	3,0 kW 4,0 kW	-	2,2 kW	6160600110008	RGD
		Filter Cartridge 15,6 m² Standard, 327 x 1200 mm (Standard for 4H: 5,5 kW - 2H: 3,0 kW)	5,5 kW	-	3,0 kW	-	6161200115608	RGD
		Filter Cartridge 20 m² Standard, 327 x 1200 mm (Standard for 4H: 7,5 kW - 2H: 4,0 kW)	7,5 kW	-	4,0 kW	-	6161200120008	RGD
		Filter Cartridge 25,3 m², Easy Clean Plus, 327 x 1200 mm (Standard for 4H: 11,0 kW)	11,0 kW	-	-	-	6161200225308	RGD
Cartridges, Length 600 mm								
Length 600 mm		Filter cartridge, Type easy clean plus, Dim.: 327 x 600 mm, Filter surface: 7,7m²	2,2 kW 3,0 kW 4,0 kW	2,2 kW 3,0 kW 4,0 kW	-	1,5 kW 2,2 kW	6160600207706	RGD
		Filter cartridge, Type easy clean nano, Dim.: 327 x 600 mm, Filter surface: 7,7m²	2,2 kW 3,0 kW 4,0 kW	2,2 kW 3,0 kW 4,0 kW	-	1,5 kW 2,2 kW	6160600307706	RGD
		Filter cartridge, Type easy clean plus, Dim.: 327 x 600 mm, Filter surface: 12,5m²	2,2 kW 3,0 kW 4,0 kW	2,2 kW 3,0 kW 4,0 kW	-	1,5 kW 2,2 kW	6160600212508	RGD
		Filter cartridge, Type easy clean nano, Dim.: 327 x 600 mm, Filter surface: 12,6m²	2,2 kW 3,0 kW 4,0 kW	2,2 kW 3,0 kW 4,0 kW	-	1,5 kW 2,2 kW	6160600312606	RGD
Cartridges, Length 1200 mm								
Length 1200 mm		Filter cartridge, Type easy clean plus, Dim.: 327 x 1200 mm, Filter surface: 15,6 m² (for FilterCube 4 mit 5,5 kW/7,5 kW/11,0kW)	5,5 kW 7,5 kW 11,0 kW	-	3,0 kW 4,0 kW	-	6161200215606	RGD
		Filter cartridge, Type easy clean nano, Dim.: 327 x 1200 mm, Filter surface: 15,6m² (for FilterCube 4 mit 5,5 kW/7,5 kW/11,0kW)	5,5 kW 7,5 kW 11,0 kW	-	3,0 kW 4,0 kW	-	6161200315606	RGD
		Filter cartridge, Type easy clean plus, Dim.: 327 x 1200 mm, Filter surface: 25,3m² (for FilterCube 4 mit 5,5 kW/7,5 kW/11,0kW)	5,5 kW 7,5 kW 11,0 kW	-	3,0 kW 4,0 kW	-	6161200225308	RGD
		Filter cartridge, Type easy clean nano, Dim.: 327 x 1200 mm, Filter surface: 25,3m² (for FilterCube 4 mit 5,5 kW/7,5 kW/11,0kW)	5,5 kW 7,5 kW 11,0 kW	-	3,0 kW 4,0 kW	-	6161200325308	RGD

		4H	4N	2H	2N		
	Extension set H13 filter Silence module with maintenance door, unit height increases by approx. 500 mm	■	■			4000950144002	RGC
	Extension set for activated carbon filter, only on initial order, Filter housing with maintenance door, Unit height increases by approx. 602 mm, suitable for all FilterCubes	■	■			40009501440	RGC
	Cartridge protection NANNOX, 100g (in bucket, per m² filter surface 10g is required)	■	■	■	■	68130000100	RGB
	Cartridge protection NANNOX, 400g (in bucket, per m² filter surface 10g is required)	■	■	■	■	68130000400	RGB
	Cartridge protection NANNOX, 10kg (in bag, per m² filter surface 10g is required)	■	■	■	■	68130010000	RGB
	PE-bags (pack of 10)	■	■			10030251	RGB
				■	■	10030250	RGB
	Frequency converter with pressure transmitter incl. intelligent filter control	■	■			962002009022	RGC
		■	■			962002009030	RGC
		■	■			962002009040	RGC
		■				962002009055	RGC
		■				962002009075	RGC
		■				962002009110	RGC
	Option silence module, blowing left	■	■			950144194712	RGC
	Option silence module, blowing right	■	■			950144194718	RGC
	Option silence module with soundproof housing on the back	2,2 kW 4,0 kW				950144194012	RGC
	Option silence module with soundproof housing on the back	5,5 kW 7,5 kW 11,0 kW				950144194011	RGC
	Adapter (soundproof housing) to diam. 500mm, required when venting to atmosphere	■				9501441940111	RGC
	Safety system with particle sensor, extinguishing device and door with viewing window(s)	■				99920441	RGC
			■			99920440	RGC
				■		99920421	RGC
					■	99920420	RGC

Accessories for **FilterCube-IFA**

	4H	4N	2H	2N		
 Master-Slave Control, 400V / 16A	■	■	■	■	150010016	RGB
 Master-Slave Control, 400V / 32A	■	■	■	■	150010032	RGB
 Master-Slave Control, 230V / 16A	■	■	■	■	15001001602	RGB
 Master slave junction box 24 V DC / 230 V AC	■	■			15001001604	RGB
 Dust discharge system "barrel", with hand flap, barrel included (requires additional frame Art. No. 8000950140203)	■				20189501401	RGC
 Dust discharge system "barrel", with rotary gate barrel included (requires additional frame Art. No. 8000950140203)	■				20189501402	RGC
 Frame for Dust discharge system "barrel" (Unit height increases by 1615 mm)	■				8000950140203	RGC
 Dust discharge system "BigBag", with rotary gate (requires additional frame Art. No. 8000950140204)	■				20189501404	RGC

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			4H	4N	2H	2N		
	Frame for dust discharge system "BigBag" (Unit height increases by 1615 mm)		■				8000950140204	RGC
	Disposable BigBag with 4 slings, Dim. 910 x 910 x 850 mm		■				5030909185	RGB
	Steel sheet barrel 200 l, RAL 7035, incl. lid		■				80000583	RGB
	Protection system with particle sensor and shutdown system for filter damages (e.g. because of a fire)		■				99920401	RGF
	Galvanized housing and heat tracing for the solenoid valves for outdoor installation		■				on request	
	Transition piece for for TEKA elbow silencer	300 x 300 to dia. 280 mm	2,2 kW	2,2 kW			7045040001	RGC
		300 x 300 to dia. 315 mm	3,0 kW	3,0 kW			7045050001	RGC
		300 x 300 to dia. 355 mm	4,0 kW	4,0 kW			7045060001	RGC
		450 x 450 to dia. 400 mm	5,5 kW				7045010001	RGC
		450 x 450 to dia. 450 mm	7,5 kW				7045020001	RGF
		450 x 450 to dia. 500 mm	11,0 kW				7045030001	RGC
	Stand console for electrical cabinet, color: RAL 7035		■	■			96200300	RGC

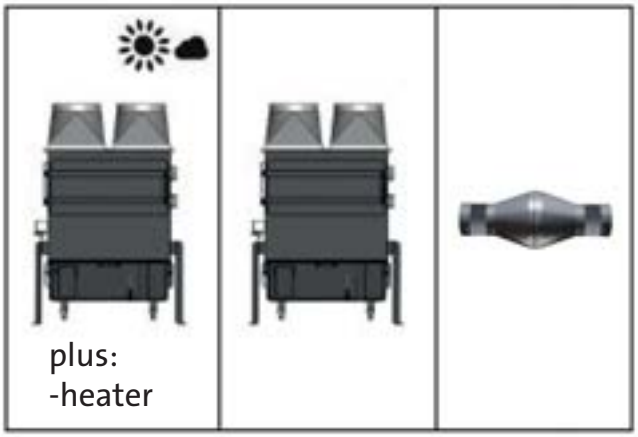
Variants of the FilterCube 4H-IFA

Motor performance [kW]

2,2 - 11,0

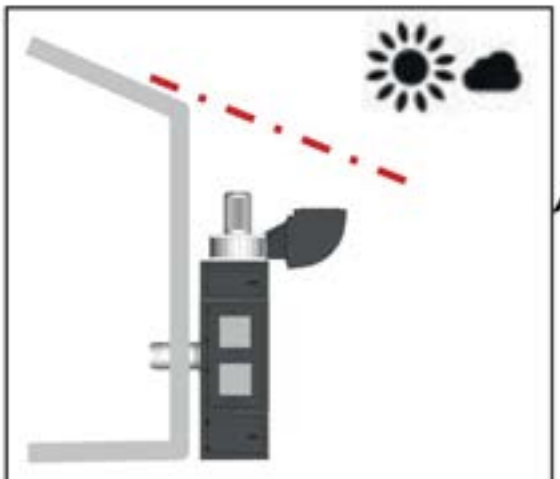
Add-On: Protection against sparks

#1 **#2** **#3**



plus:
-heater

Outdoor use



plus:
-heating valve
-galvanized housing
-Weather protection / enclosure
(by operator!)

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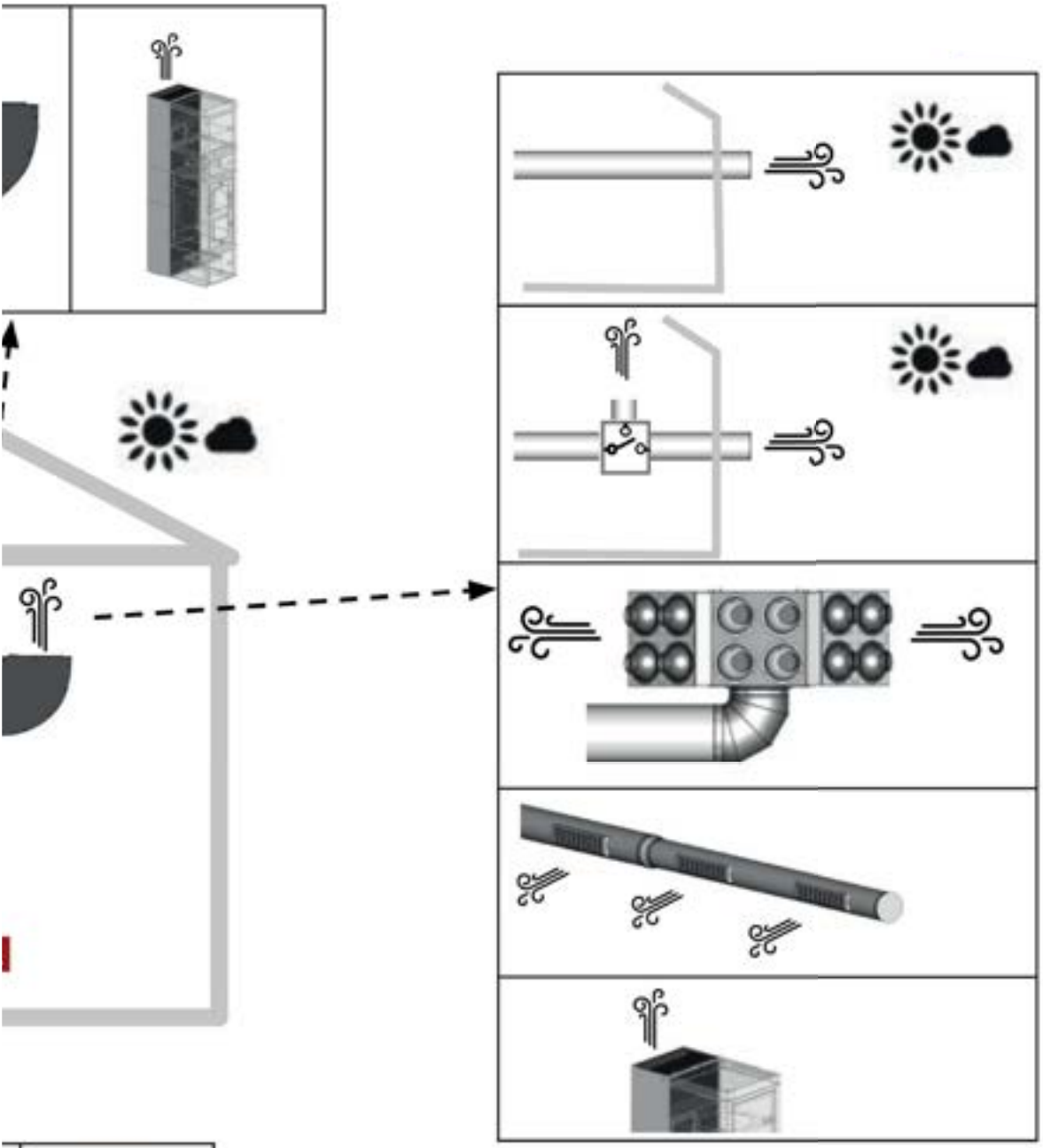

Advantages of the FilterCube 4H-IFA

- energy efficient engine
- low-wear direct drive
- Performance optimized impellers
- low noise level

- demand-dependent cleaning
- wear-free cleaning
- low compressed air consumption through power spray system

- variable filter setting (can be adapted to application)
- user-friendly through maintenance doors and easy removal of the filters
- checks are possible at any time via the optional viewing windows

- simple dust discharge
- further discharge systems possible

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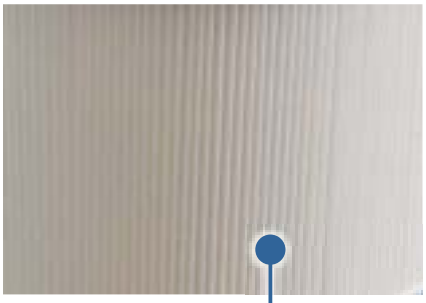
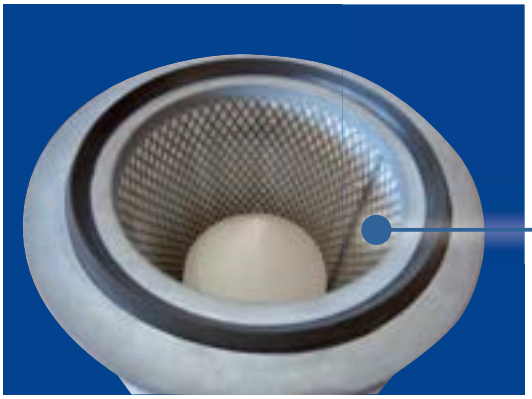
Advantages of our filter cartridges



- different filter materials for a variety of applications
- high separation efficiency with low pressure loss
- mechanical stability through use of support belts and support cage
- self-extinguishing
- washable
- no cellulose material
- long service life



ZPF Central suction and filter unit

Suitable for

Various extraction tasks at several working places at the same. Especially suitable for large amounts of air. This unit is IFA certified for welding fume class W3.

GIGANTIC Filter area

ZPF with fan on top

Description

The central, self-dedusting cartridge filter system cleans the polluted air that is guided by an extraction element suitable for practical application through a specially designed ducting system.

All filter units are equipped with hanging filter cartridges of the dust category M (separation efficiency ≥ 99 %). Thus, the cartridges are admitted on the side. Heavy particles immediately fall into the dust collecting container.

The filter cartridges are coated ex works with a special filter medium. This increases their lifetime compared to standard cartridges.

The advantages of this self-dedusting system are the optimal dedusting performance (high lifetime of the cartridges, high extraction performance), the user-friendliness and the low maintenance. The dedusting is controlled by a microprocessor by means of the display control via the POWER SPRAY-SYSTEM.

Standard equipment

- Fully automatic cleaning via POWER SPRAY system
- 6 to 27 large filter cartridges with 25 m² filter surface
- Dust bin with snap closures
- Powerful fan with control
- Integrated compressed air tank
- Maintenance doors for all operating areas
- Display control
- Filter protection NANNOX
- PE bags for the dust collection unit

Available as an option

- Silence module
- Spark pre-separator
- Safety device with particle sensor, extinguishing device and door with viewing window(s)

INCLUDING POWER SPRAY-SYSTEM

further information on page 54

DGUV Test

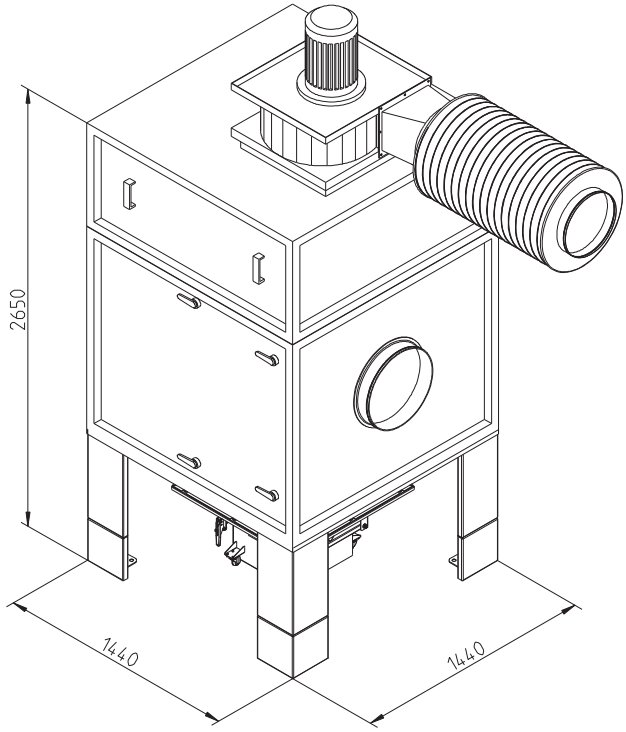
Gefahrstoffgeprüft
Schweißrauch-abscheideklasse W3

Let us configure your ZPF version!

Technical Data

ZPF Central suction and filter unit	
Max. volumetric flow of the fan	5000 – 42000 m³/h
Max. pressure	2500 – 5 600 Pa
Motor performance	5,5 – 55,0 kW
Separation efficiency	≥ 99 %
Filter surface	150 m² - 675 m²

ZPF with adjacent fan in a soundproof housing



ZPFs set up modularly with increased suction power and filter surface

Accessories for **ZPF**

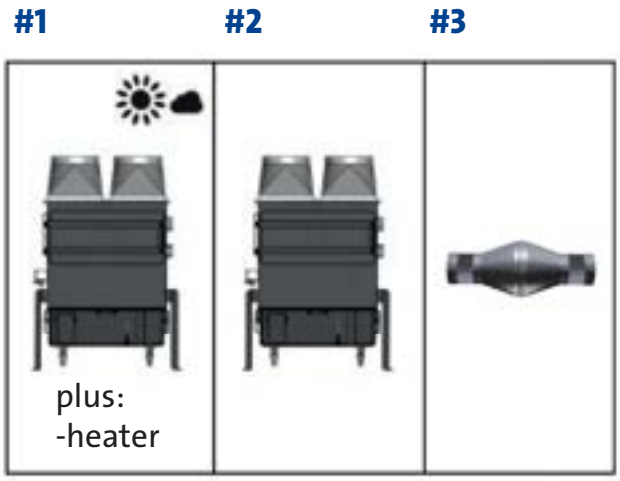
	Filter cartridges 15,6 m², 327 x 1200 mm 6 to 9 cartridges per module		6161200115608	RGD
	Filter cartridges 20 m², 327 x 1200 mm 6 to 9 cartridges per module		6161200120008	RGD
	Filter cartridge 25,3 m², Easy Clean Plus, 327 x 1200 mm 6 to 9 cartridges per module		6161200225308	RGD
	Master-Slave-Control 400V / 16A	valve control and automatic powering of a filter unit by connected devices	150010016	RGB
	Master-Slave-Control 400V / 32A	valve control and automatic powering of a filter unit by connected devices	150010032	RGB
	Master-Slave-Control 230V / 16A	valve control and automatic powering of a filter unit by connected devices	15001001602	RGB
	Master-Slave connection unit	for the control of up to 3 master-slave controllers simultaneously	15001001604	RGB

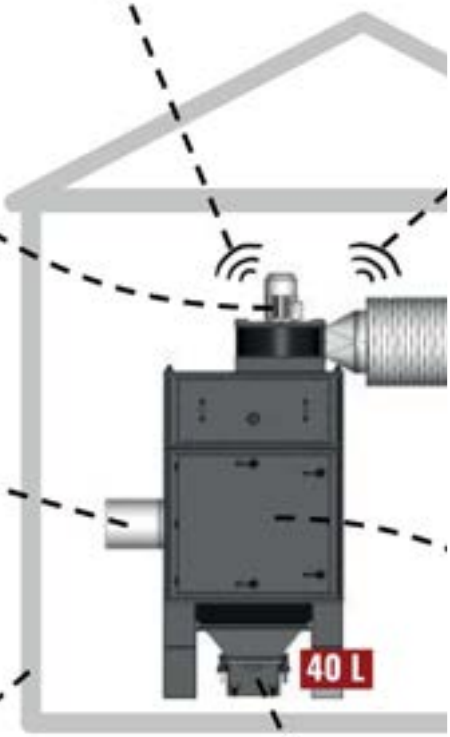
Variants of ZPF

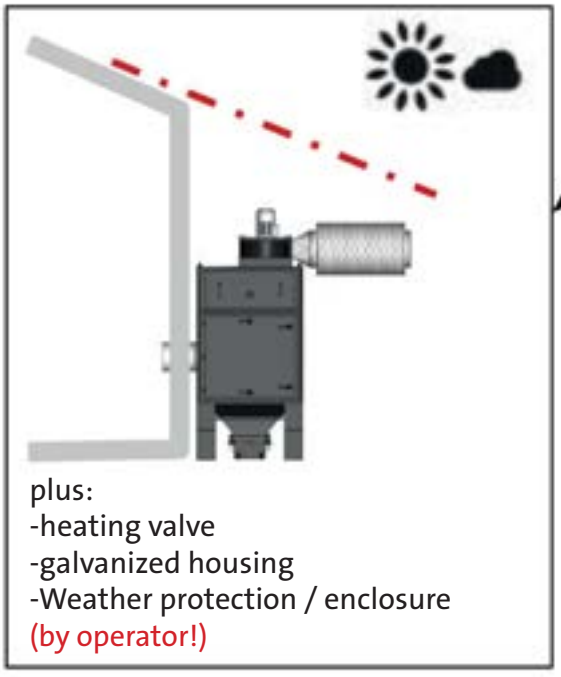
Motor performance [kW]

5,5 / 7,5
11,0 / 15,0
18,5 / 22,0
30,0 / 37,0
45,0 / 55,0

Add-On: Spark protection







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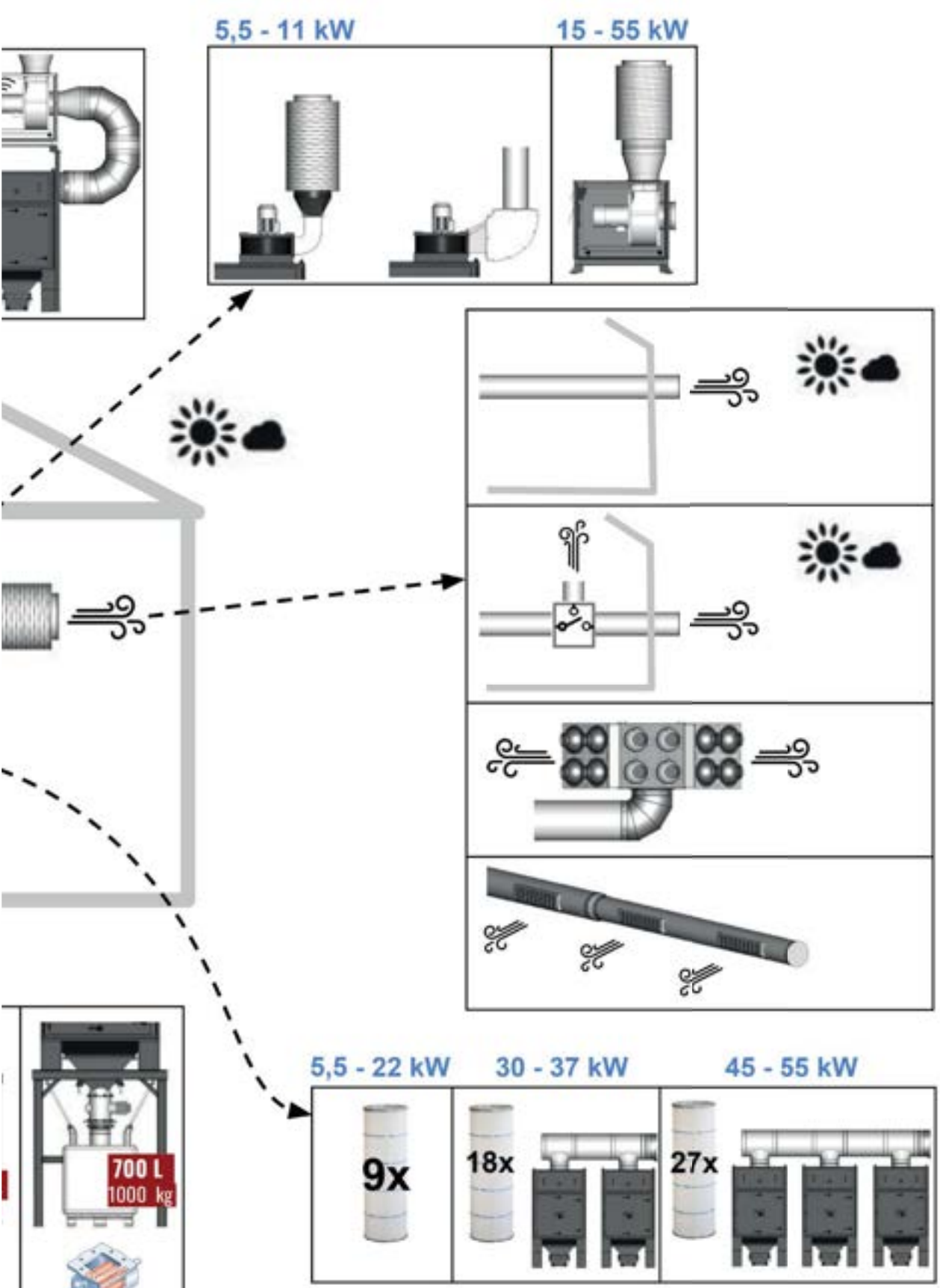

Filter cartridges available in different materials

CleanAirCube

Suitable for

Supplementary room ventilation system

CleanAirCube

Description

The CleanAirCube is a room ventilation extraction and filtration system with disposable filter. It is mainly used in industrial plants, in particular in welding shops. The standalone unit removes dust and smoke, for example, and is suitable as a supplement to the point extraction systems.

The CleanAirCube serves as a preventive measure, which takes effect before there is any danger from dangerous dust. As an alternative, the CleanAirCube can also be used to keep the hall air clean.

CleanAirCube-Filter

Clear controls with operating hours counter and signal horn

Technical Data

CleanAirCube	
Max. volumetric flow of the fan	8000 m³/h
Motor performance	550 W
Voltage	230 V / 50 Hz
Separation efficiency	> 99%
Current consumption	4 A
Noise level	65 dB(A)
Dimensions (W x D x H)	865 x 682 x 2778 mm

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Application example: CleanAirCube in a storage area

Available versions

CleanAirCube	RGC
20170201	

OctaVent

Suitable for

Supplementary room ventilation system

OctaVent

Description

The OctaVent is an effective room ventilation, extraction and filter system. It was developed to reliably clean the air within a radius of up to 9 m, which corresponds to an area of approximately 250 m².

The air is extracted at a height of 4 m. The inlet is equipped with baffle plates that removes coarse particles directly and increase the service life of the filter.

The air is cleaned of contaminants by four large filter cartridges. In addition, the OctaVent contains an activated carbon afterfilter to remove unpleasant odours.

The OctaVent blows the purified air out near the floor, creating a circulating air flow. The underlying operating principle here is layer ventilation.

The system enables low-dust disposal via a sealable dust container.
The filter cartridges are cleaned automatically.

A 7-inch touchscreen with user-friendly software allows easy control of the OctaVent.
The system has built-in sensors that measure dust levels, temperature, humidity, CO_2, NOx and VOC.

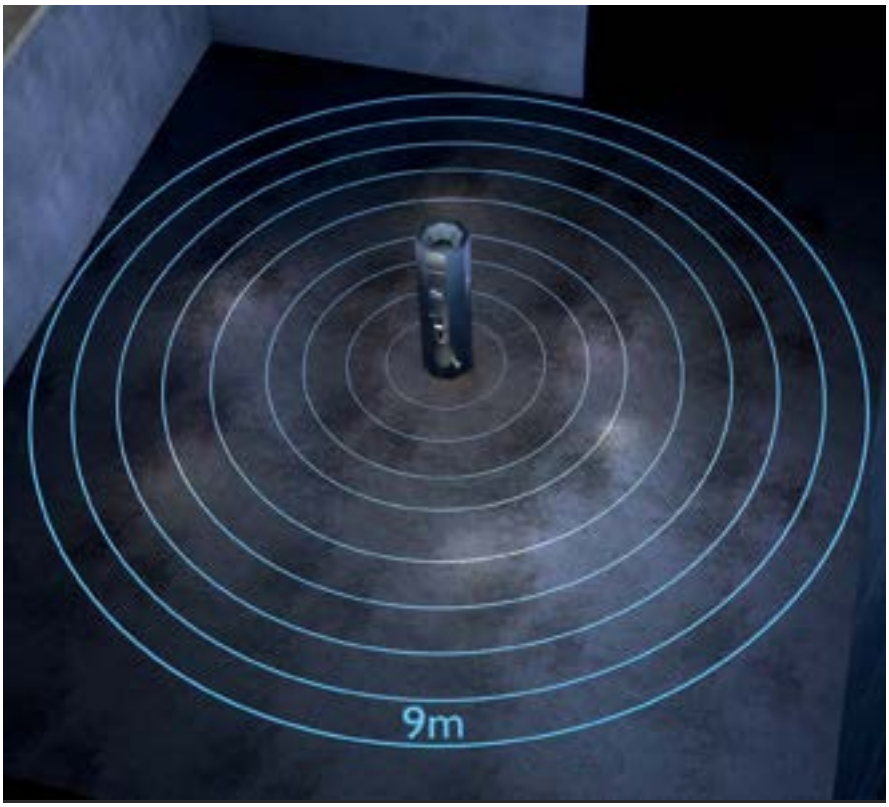
Standard equipment

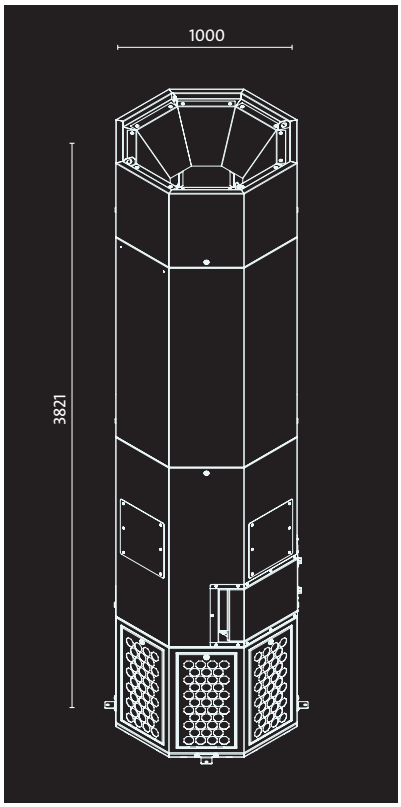
- Environmental sensors
- Four nano filter cartridges with 20m² filter surface each
- Local area network connectivity
- Wifi connectivity
- GSM Mobile connectivity, worldwide accessability
- USB-A and USB-C charge connections
- Signal horn
- Activated Carbon Post-Filter
- 10 l dust bin
- EC-Motor (electronically commutated)
- Pressure reducer
- Pressure sensor
- Integrated baffle plate

Technical Data

OctaVent	
Max. volumetric flow of the fan	6.500 m³/h
Max. pressure	2.800 Pa
Motor performance	6,0 kW
Voltage	380-480 V, 50/60 Hz
Separation efficiency	> 99%
Current consumption	12 A
Dimensions (W x D x H)	1.000 x 1.000 x 3.821 mm

Airflow schematic



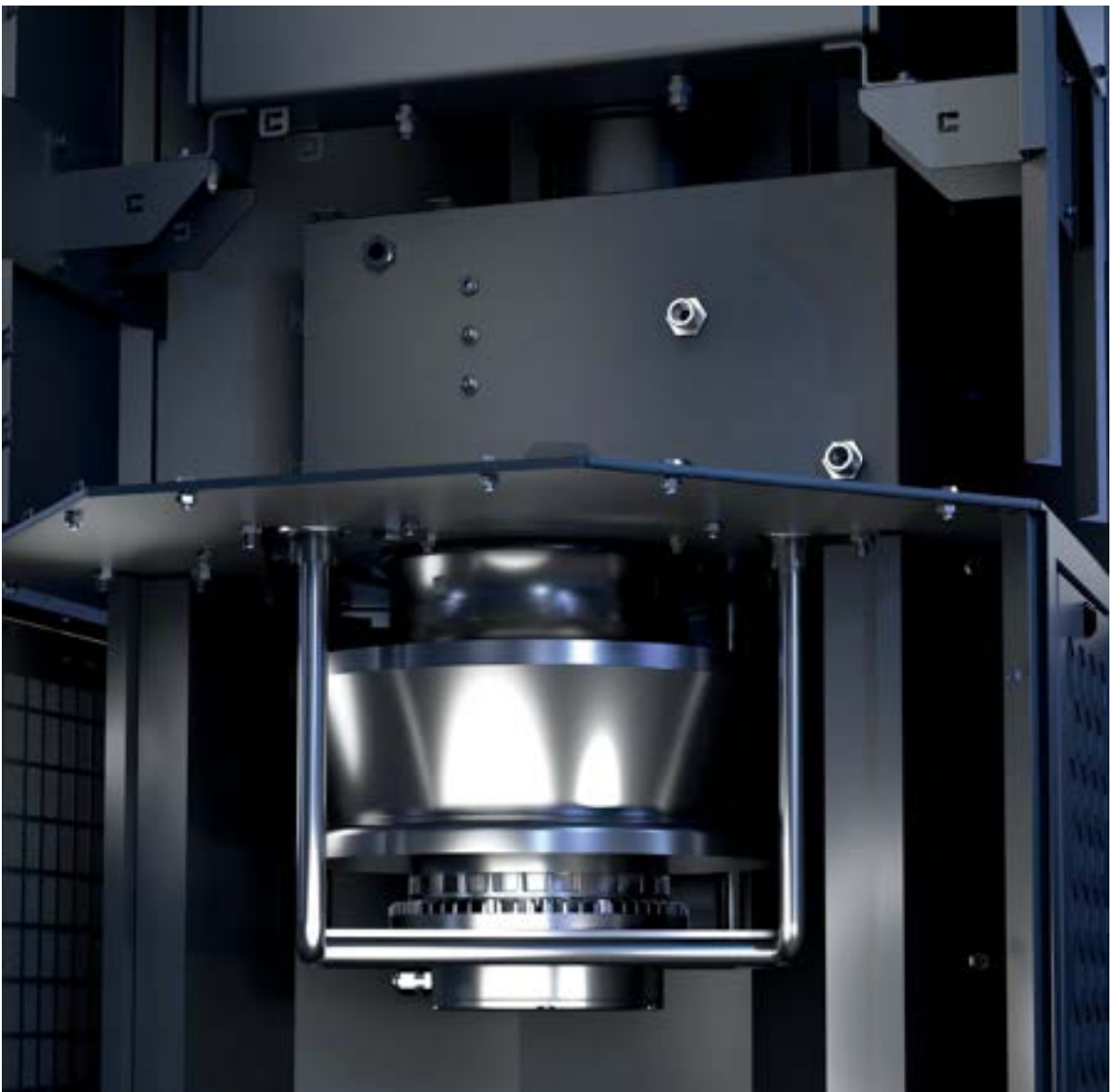


OctaVent coverage

Available versions

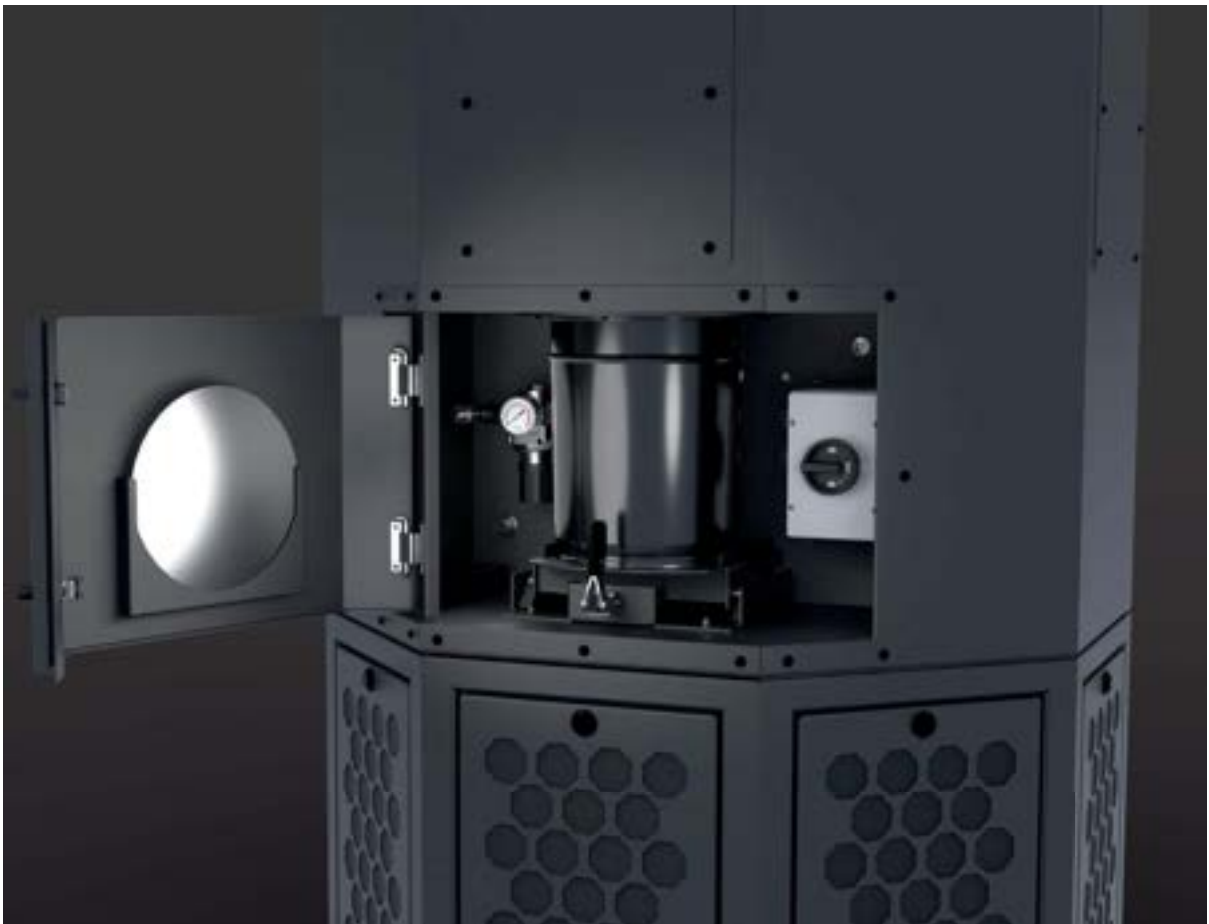
OctaVent	RGF
952020055	


Auto
% full
Filter
Dust exposure
0.00
mg/m³
Speed
0 %
0
I
TEKA
Userlevel:
0
Status:
Run




TEKA


The Air Cleaners



AirTech P10

Suitable for

Circulation of large volumes of air

AirTech P10 (image includes options)

Description

The main areas of application are industrial plants/welding shops where localised extraction is not possible and/or where the AirTech system is to be used in addition to keeping the air in the hall clean.

The polluted air is sucked in through the side-mounted intake ducts, whose collection point is located at a height of approx. 3 m, and fed into the filter section. Here, the particulate pollutants are deposited on the surface of the filter cartridges.

The filter cartridges are cleaned fully automatically at the required intervals using compressed air. The particles adhering to the cartridges are loosened by the compressed air blast and collected in a dust collection container. The cleaned air is fed back into the work area via individually adjustable long-range nozzles. This also directs the polluted air towards the intake ducts.

In the event of an error message, the fan is automatically switched off. At the same time, the system control unit emits a visual and acoustic signal to warn the user.

The AirTech series is certified in accordance with DIN EN ISO 21904-1/-2 and has been tested for hazardous substances by the IFA (Institute for Occupational Safety and Health of the German Social Accident Insurance - formerly BGIA) and approved for welding fume class W3 as a stationary welding fume extraction device. However, this approval is only valid if the system is used to capture fumes at the point of origin.

Many types of dust, including welding fume particles, are combustible when exposed to ignition sources. The user must take appropriate measures to avoid these specific hazards. In particular, care must be taken to ensure that no ignition sources are sucked in during operation of the system. For explosive substances, please request a separate quote in accordance with ATEX.

Systems that serve as welding fume extraction systems do not release the system operator from the obligation to provide

Technical Data

AirTech P10	
Max. volumetric flow of the fan	10 000 m³/h
Motor performance	11,0 kW
Separation efficiency	≥ 99 %
Dimensions (W x D x H)	800 x 1200 x 3990 mm (Width incl. canals 5130 mm, depth incl. jets 1455 mm)

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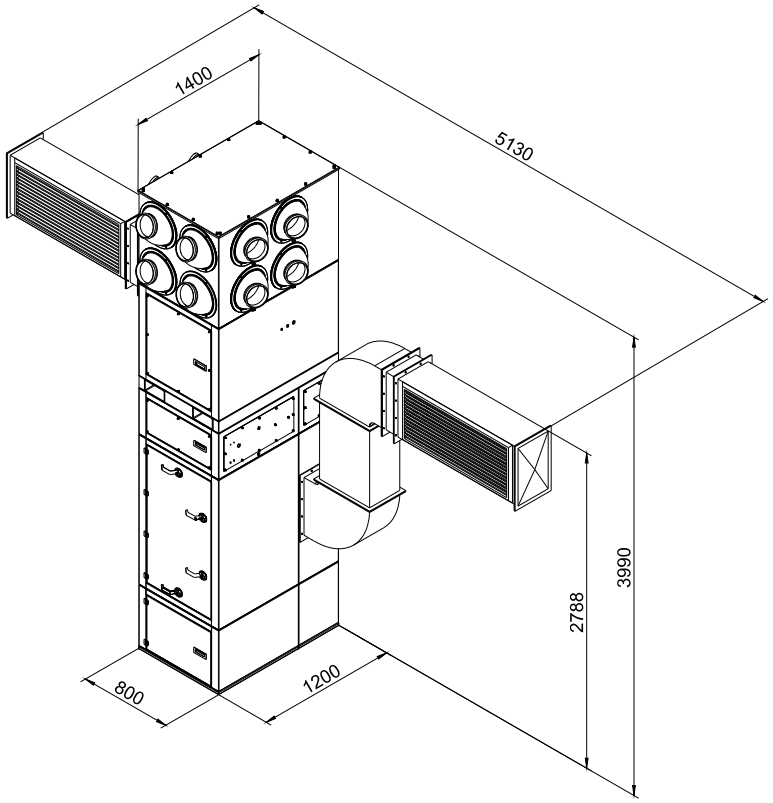
appropriate personal protective equipment for his employees.
When processing stainless steels, collection elements must be used.

Standard equipment

- Housing made of sturdy sheet steel (powder-coated inside and outside)
- Wear- and maintenance-free, fully automatic cleaning via POWER-SPRAY system
- Filter housing with air inlet openings on both sides
- Cleaning system with compressed air tank
- Fan with soundproof housing
- Filter cartridges of dust class M
- Intake ducts
- Display control
- NANNOX filter aid
- PE bag for the dust collection tray

Available as an option

- Frequency converter
- Spark trap (set of 2)
- Safety system with particle sensor, extinguishing device and door with viewing windows



Available versions

AirTech P10	Spark latches, set of 2
950141610	9501491906

AirTech Central suction and filter unit

Suitable for

Circulation of large volumes of air

AirTech P30

Description

The filter system is IFA-tested in accordance with DIN EN ISO 21904-1/-2. However, the IFA certificate is only valid if the system is used to capture fumes at the point of origin.

In many cases, local exhaust ventilation alone is not sufficient to fall below the legally prescribed workplace limits and thus eliminate any danger to humans. In such cases, it is necessary to additionally ventilate the room.

The polluted air is sucked in through grilles at a height of approx. 3-4 m and then filtered. The purified air is returned to the room via nozzles at ceiling height.

The advantages of the AirTech system lie in its optimal suction performance of the filter system (long cartridge service life, excellent suction power), user-friendliness and low maintenance requirements.

Since no piping is required, the location of the system is flexible.
Heating costs can be significantly reduced by recirculating air into the workroom. However, the provisions of the new Hazardous Substances Ordinance (GefStoffV) must be taken into account.

The filter systems are equipped with dust class M filter cartridges (separation efficiency ≥ 99%) and feature a specially developed cleaning system consisting of a combination of display control and the POWER-SPRÜH system. This combination ensures excellent cleaning performance of the filter cartridges, guaranteeing optimum extraction performance throughout the entire operation.

Technical Data

AirTech Central suction and filter unit	
Max. volumetric flow of the fan	18000 – 30000 m³/h
Motor performance	11,0 – 22,0 kW
Separation efficiency	≥ 99 %

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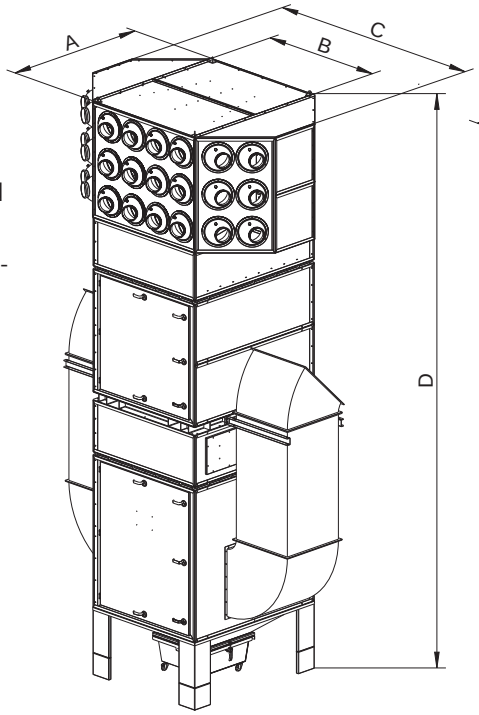
Standard equipment

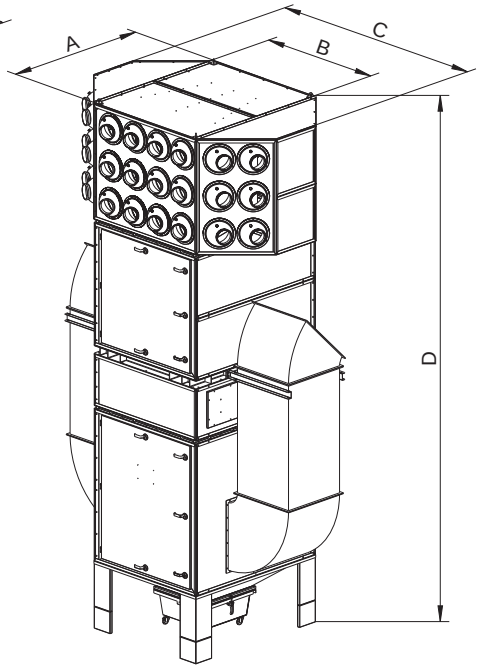
- Sturdy sheet steel housing (powder-coated inside and out)
- Wear- and maintenance-free, fully automatic cleaning via POWER-SPRAY system
- Filter housing with air inlet openings on both sides
- Cleaning system with compressed air tank
- Fan with soundproof housing
- Filter cartridges of dust class M
- Intake ducts
- Display control
- NANNOX filter aid
- PE bag for the dust collection tray

Available as an option

- Intake pipe
- Device for connecting pipes
- Frequency converter
- Safety system with particle sensor, extinguishing device and door with viewing windows



Unit with silencer housing



Unit without silencer housing

Dimensions		A	B	C	D	Amount of nozzles
with silencer housing	AirTech P18	1440 mm	1440 mm	3200 mm	6570 mm	17
	AirTech P24	1880 mm	1600 mm	3510mm	6810 mm	20
	AirTech P30	1880 mm	1600 mm	3510 mm	6810 mm	24
without silencer housing	AirTech P18	1440 mm	1440 mm	3200 mm	6000 mm	17
	AirTech P24	1880 mm	1600 mm	3510mm	6240 mm	20
	AirTech P30	1880 mm	1600 mm	3510 mm	6240 mm	24

Available versions

AirTech Central suction and filter unit for clean indoor air			
Max. volumetric flow of the fan	*18000 m³/h*	*24000 m³/h*	*30000 m³/h*
Motor performance	*11,0 kW*	*15,0 kW*	*22,0 kW*
Filter surface	*324 m² (9 x 36 m²)*	*324 m² (9×36 m²)*	*432 m² (12×36 m²)*
	AirTech P18 940141618	**AirTech P24** 940141624	**AirTech P30** 940141630

Replacement cartridges for **AirTech** (standard P18/P24 = 9 cartridges, P30 = 12 cartridges)

	Filter cartridge 36 m², 327 x 1715 mm	6161720136008	RGD

BlowTec Central suction and filter unit

Suitable for

Cleaning of polluted room air in a modular design for perfect adjustment to the architecture of the room. The unit is IFA certified for welding fume class W3.

Example: BlowTec

Description

BlowTec is a modular, space-saving extraction system. This central suction and filter unit is the perfect solution for every kind of work that requires more than extraction right at the source.

The biggest advantage: the efficient use of energy and reduction of cost. During heating times the energy costs are considerably reduced by recirculating the cleaned, warm air back into the working area. Alternatively it can also be led outside.

The modular setup of the BlowTec is perfectly adaptable to the architecture of the room. The ducting that extracts the air and guides it to the movable jets can vary in height and length.

Standard equipment

- Housing made of stable steel plate (powder coating inside and outside)
- Fully automatic dedusting via POWER SPRAY-SYSTEM
- Fan with soundproof housing
- Filter cartridges, category M
- Filter unit
- Fan section
- Control (filter/motor)
- Nozzle head
- Silencer
- Connection between filter unit fan unit and nozzle head
- NANNOX filter aid
- PE-Beutel for die Staubsammellade

Available as an option

- Extraction ducting
- Frenquency converter
- Safety system with particle sensor, extinguishing device and door with viewing window(s)

INCLUDING

POWER SPRAY-SYSTEM

further information on page 54

NOTE:

The ducting installation is designed to project requirements!

Technical Data

BlowTec Central suction and filter unit	
Max. volumetric flow of the fan	7500–10000 m³/h
Motor performance	7,5–11,0 kW
Separation efficiency	≥ 99 %

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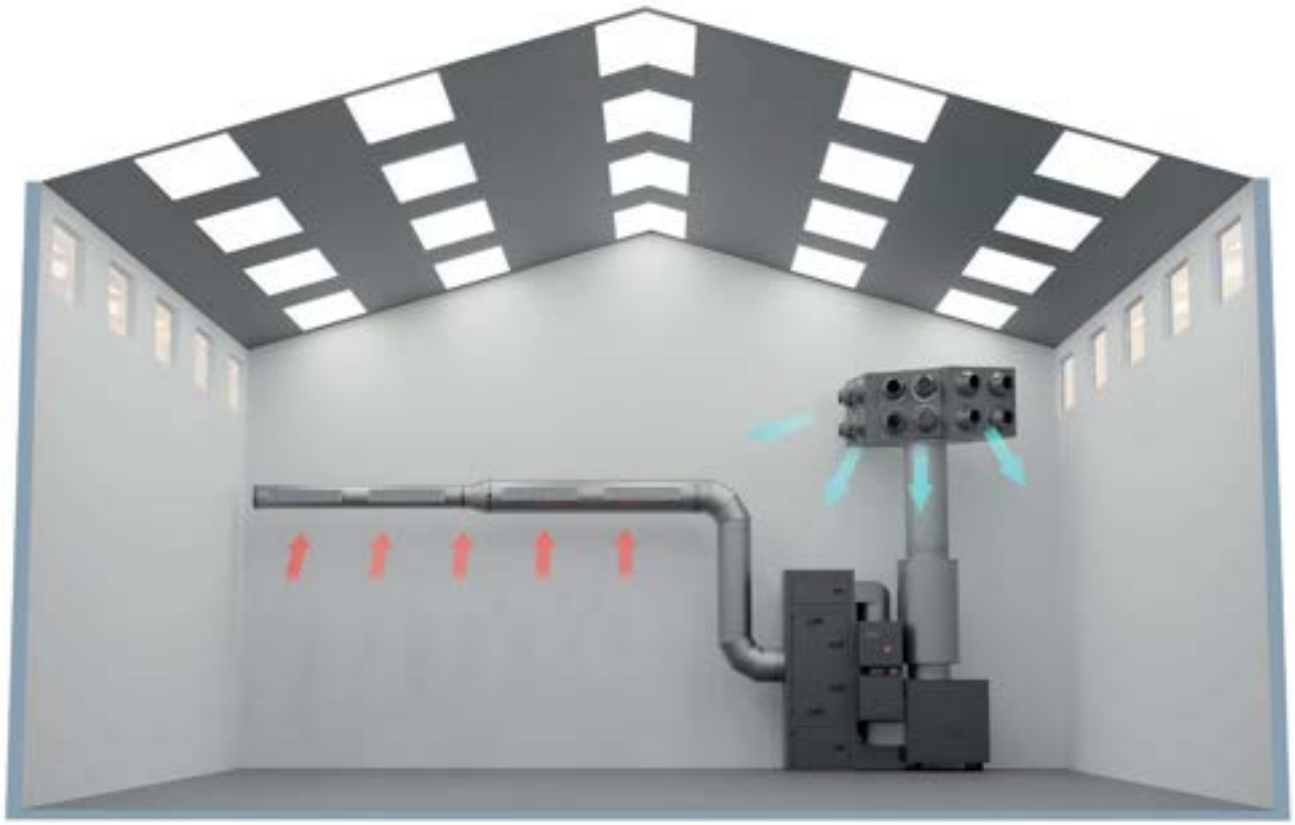
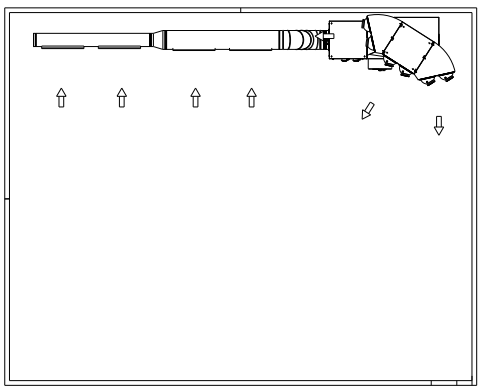
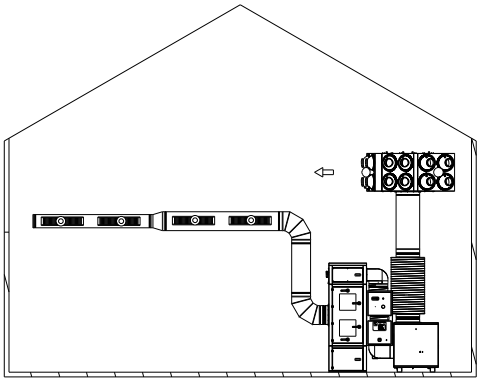


Installation example: BlowTec system in a hall





Available versions

BlowTec Central suction and filter unit		
Max. volumetric flow of the fan	*7500 m³/h*	*10000 m³/h*
Motor performance	*7,5 kW*	*11,0 kW*
Filter surface	*100 m² (4 x 25 m²)*	*100 m² (4×25 m²)*
	BlowTec 7,5 9501441075100358	**BlowTec 10** 9501441110100358

Layer ventilation Central suction and filter unit

Suitable for

Cleaning of contaminated indoor air

ZPF from System Layer Ventilation

Description

In many cases, localised extraction at the workplace is not sufficient to filter the polluted air adequately. In this case, the layered ventilation system from TEKA Absaug- und Entsorgungstechnologie GmbH offers a useful addition.

Pipes along the centre of the hall extract the warm, rising, polluted air and direct it to one or more ZPFs or FilterCubes. After being cleaned by the filter system, the purified air is directed to the sides of the hall and released via so-called source outlets near the floor.

This creates an air flow in which the particle-laden air is carried upwards and the purified air is distributed throughout the working environment.

Standard equipment

- Fully automatic cleaning via POWER-SPRÜH system
- 6 to 27 large filter cartridges with 25 m² filter area each
- Dust collection container with quick-release fasteners
- Powerful fan
- Integrated compressed air tank
- Maintenance doors for all operating areas
- Display control
- Filter aid NANNOX
- PE bag for the dust collection drawer

Technical Data

Layer ventilation Central suction and filter unit	
Max. volumetric flow of the fan	10.000–42.000 m³/h
Motor performance	11 kW–55 kW
Separation efficiency	≥ 99 %

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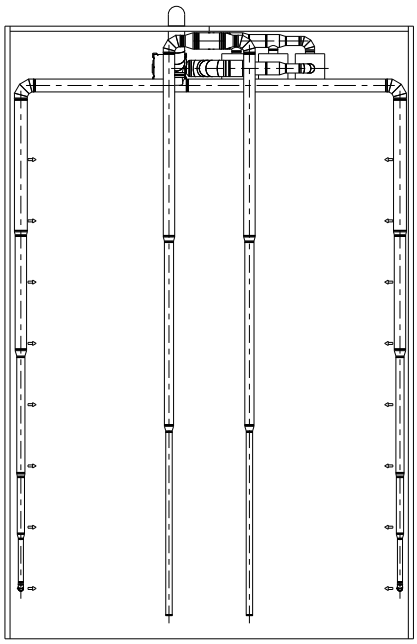
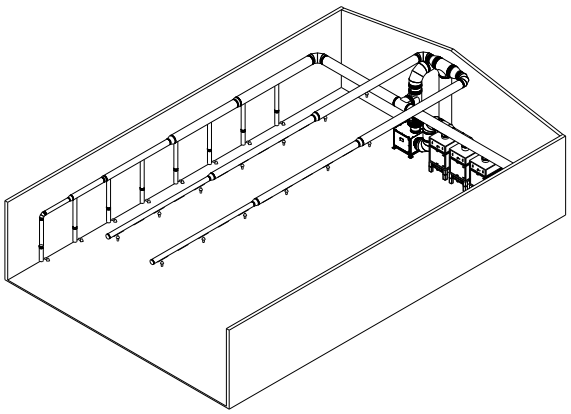
Installation example: Layered ventilation system in a hall





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Available versions

Layer ventilation Central suction and filter unit		
Max. volumetric flow of the fan	*10.000 m³/h*	*42.000 m³/h*
Motor performance	*11 kW*	*55,0 kW*
Filter surface	*150 m² (6x25 m²)*	*675 m² (27×25 m²)*

PushPull Central suction and filter unit

Suitable for

Cleaning of polluted ambient air in a production hall

particularly even AIR CAPTURE

FilterCube 4H from System PushPull (with options)

Description

A suction at the source often is not enough to undercut the occupational exposure limits for working places and thus to exclude any risk for humans. Therefore it is necessary to additionally ventilate the room.

The pollutants on one side of the hall are extracted by sufficiently dimensioned ventilation grilles and filtered afterwards. On the other side of the hall, the cleaned air is returned into the room – either via ventilation grilles or via nozzles.

Die FilterCube is certified from the Institute of Work Safety (IFA, formerly BGIA) and approved for the welding fume class W3 as a stationary welding fume suction device. A big advantage: the automated filter control allows for a filter cleaning on demand.

Standard equipment

- Fully automatic dedusting via POWER SPRAY-SYSTEM
- Display control unit
- Maintenance doors for all operational areas
- Maintenance door for the filter cartridges housing with inspection window made of laminated safety glass
- Filter medium NANNOX
- PE bag for the dust collecting tray

NOTE:

The ducting installation is designed to project requirements!

INCLUDING

further information on page 54

Technical Data

PushPull Central suction and filter unit	
Max. volumetric flow of the fan	7500 – 10000 m³/h
Motor performance	7,5 – 11,0 kW
Separation efficiency	≥ 99 %

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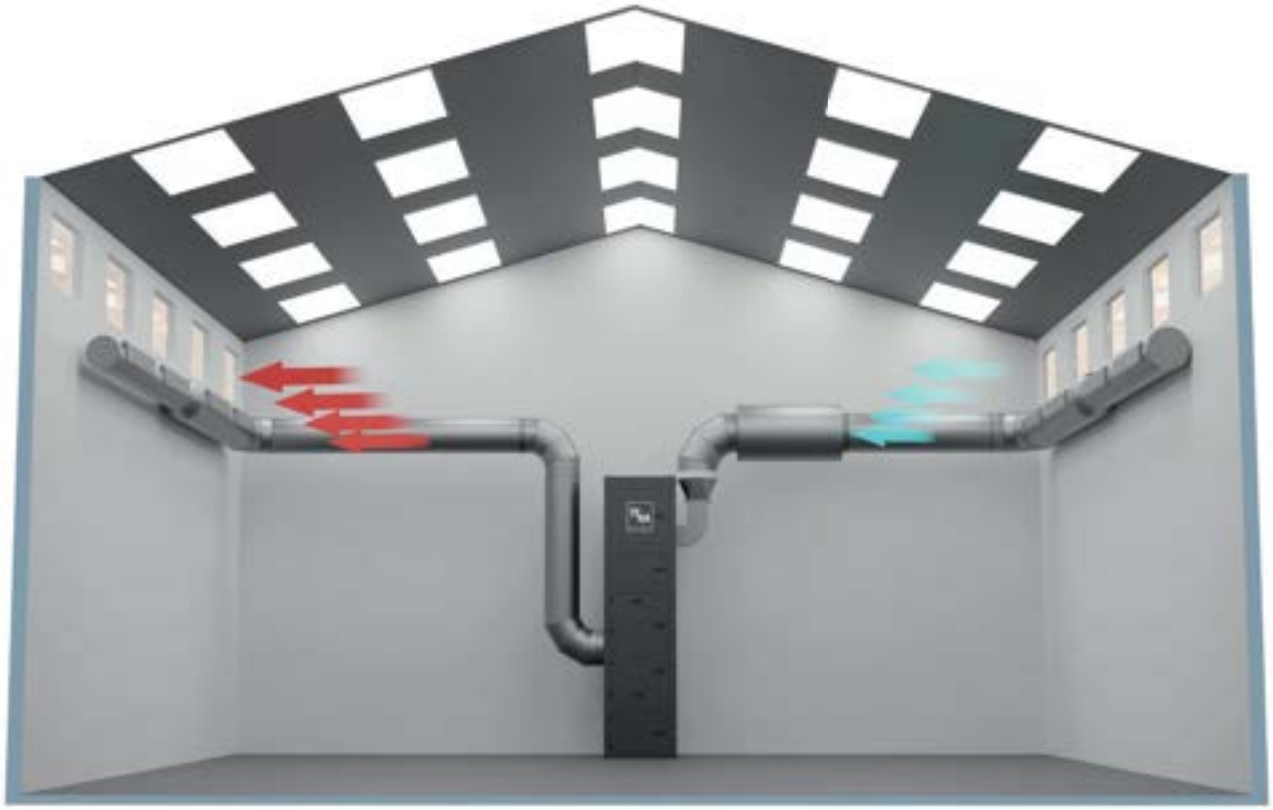

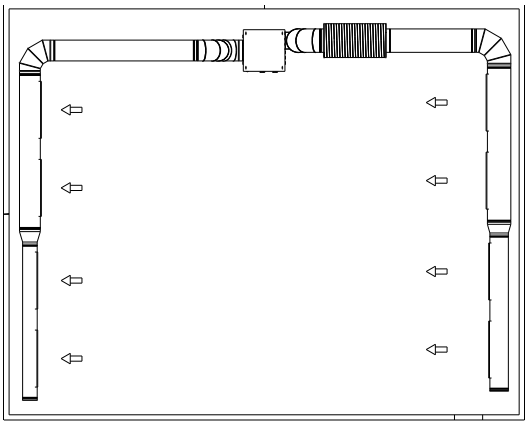

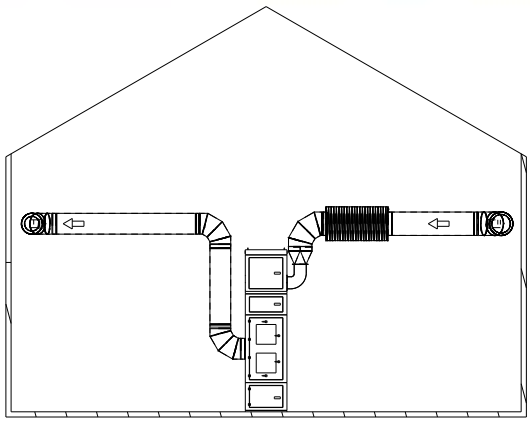

Example of set up: PushPull system in a production hall

Available versions

PushPull Central suction and filter unit		
Max. volumetric flow of the fan	*7500 m³/h*	*10000 m³/h*
Motor performance	*7,5 kW*	*11,0 kW*
Filter surface	*100 m² (4 x 25 m²)*	*100 m² (4×25 m²)*

Wet Cyclone Separator

Suitable for

Extraction of grinding dust – in special version also suitable to extract aluminium dust

Wet cyclone separator, Example with connected exhaust pipe

Description

The advantages of the unit are its simple and trouble-free operation. Pumps or jets which could create troubles are not used.

The air is cleaned by swirling the dust with water. The particles in the air flow are enclosed by water and bonded.

The extracted dust particles set down in the lower water tank and can be discharged by the ball valve which is installed at the lowest position of the unit and can be removed through a maintenance flap.

The fan is suitable for continuous operation and is placed onto the unit by standard.

The engine of the wet cyclone separator requires very low maintenance

Standard equipment

- Stable, high performance fan with silencer
- Housing made of galvanized steel
- Ball valve for water outlet
- Water tanks
- Level control
- Shut-off valve
- Adjustable feet, 420 mm (use optional)

Technical Data

Wet cyclone separator	
Max. volumetric flow of the fan	1500 – 9 000 m³/h
Max. pressure	1400 – 2 700 Pa
Motor performance	1,5 – 11,0 kW

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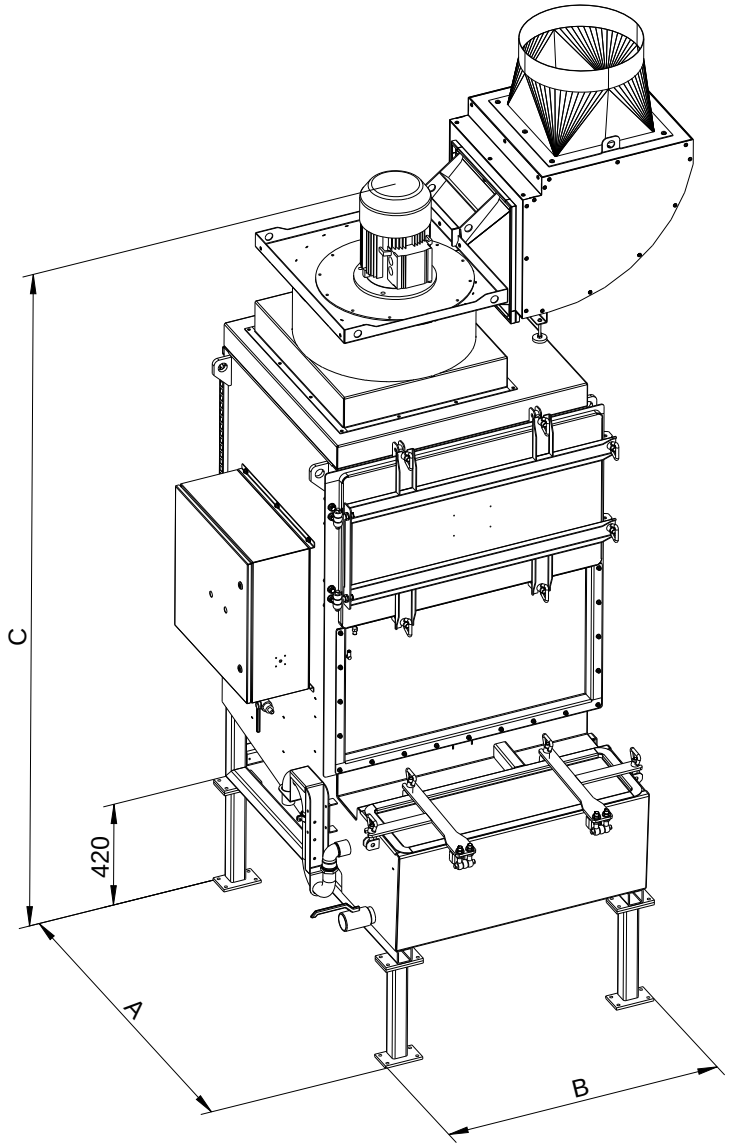


Dimensions

	A	B	C
WNA 1500	1160 mm	850 mm	2660 mm
WNA 2000	1360 mm	1050 mm	2575 mm
WNA 3000	1360 mm	1050 mm	2625 mm
WNA 3500	1360 mm	1050 mm	2635 mm
WNA 5000	1560 mm	1250 mm	3220 mm
WNA 7500	1760 mm	1450 mm	3310 mm
WNA 9000	1760 mm	1550 mm	3320 mm

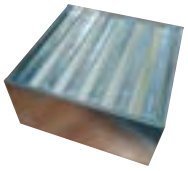
Available versions

Wet cyclone separator

RGC

Max. volumetric flow of the fan	*1500 m³/h*	*2000 m³/h*	*3000 m³/h*	*3500 m³/h*	*5000 m³/h*	*7500 m³/h*	*9000 m³/h*
Motor performance	*1,5 kW*	*2,2 kW*	*3,0 kW*	*4,0 kW*	*5,5 kW*	*7,5 kW*	*11,0 kW*
Standard	**WNA 1500** 200350015	**WNA 2000** 200350022	**WNA 3000** 200350030	**WNA 3500** 200350040	**WNA 5000** 200350055	**WNA 7500** 200350075	**WNA 9000** 20035001502
For aluminium dust	**WNA-AL 1500** 20035001577	**WNA-AL 2000** 20035002277	**WNA-AL 3000** 20035003077	**WNA-AL 3500** 20035004077	**WNA-AL 5000** 20035005577	**WNA-AL 7500** 20035007577	**WNA-AL 9000** 2003500150277

Accessories for **Wet Cyclone Separator**

	Recirculating air filter attachment for WNA-1500 / WNA-1500-AL		20035015007	RGC
	Recirculating air filter attachment for WNA und WNA AL 2000/3000		20035025007	RGC
	Recirculating air filter attachment for WNA-3500 / WNA-3500-AL		20035035007	RGC
	Recirculating air filter attachment for WNA und WNA AL 5000/7500		20035045007	RGC
	Recirculating air filter attachment for WNA-9000 / WNA-9000-AL		20035055007	RGC
	Replacement filter for post-filter: Hepa filter H13 for Recirculating air filter attachment for WNA	(up to WNA 3500 one cassette is required, as of WNA 5000 two cassettes are required)	10030200350	RGC
	Wire mesh filter in aluminium 295 x 595 x 50 mm for WNA-1500 / WNA-1500-AL	Two filters per unit	200351500	RGC
	Wire mesh filter in aluminium 405 x 795 x 50 mm for WNA and WNA AL 2000/3000/3500	Two filters per unit	200353500	RGC

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	Wire mesh filter in aluminium 995 x 515 x 50 mm for WNA-5000 / WNA-5000-AL	Two filters per unit	200355000	RGC
	Wire mesh filter in aluminium 625 x 1195 x 50 mm for WNA und WNA AL 7500	Two filters per unit	200357500	RGC
	Wire mesh filter in aluminium 680 x 1195 x 50 mm for WNA-9000 / WNA-9000-AL	Two filters per unit	200359000	RGC

VarioCube

Suitable for

Robust extraction for welding work in shipyards and large halls for up to twelve extraction points. The system can be used flexibly, stationary or mobile, since it is easy to move over skids and crane eyelets.

VarioCube

DGUV Test
Gefahrstoffgeprüft
Schweißrauch-abscheideklasse W3

Description

This unit is specially designed for the shipbuilding industry and can be used as a central or mobile unit thanks to its design.

The advantages of this self-dedusting filter system are the optimum dedusting performance (long service life of the cartridges, good extraction capacity), the ease of operation and the minimal need for maintenance.

The housing is made of a massive sheet steel construction and gets an undercoat and a paint coating on the outside - the inner side is prime-coated. The individual unit parts are equipped with user-friendly maintenance doors or masks for optimum and fast maintenance. The switch cabinet doors can be opened with conventional switch cabinet keys.

The filter units are equipped with filter cartridges of the filter category BIA M. These cartridges are precoated with a special filter aid at the factory. This procedure considerably extends the service life compared to standard filter cartridges.

The units have a specially developed dedusting system consisting of a combination of a Siemens control (S7) and the power spray system. This combination provides a very good dedusting performance of the filter cartridges which ensures an optimal extraction capacity during the entire operation. The advantage of this system is not only its low-maintenance design without rotating nozzles subject to wear but also the use of low dedusting pressure and low consumption of compressed air. The control is supplied completely preset.

If you want to change the control parameters it can be done with an external control unit with Siemens S7 menu navigation. This control unit will then be connected to a Harting interface. This control unit is not included in the delivery and can be purchased separately. Set parameters can only be displayed and changed with the help of the control unit.

The pressure difference of the filters as well as the negative pressure at the clean-air side are measured in the filter unit. The filters are permanently monitored. When a preset

Technical Data

VarioCube-IFA	
Max. volumetric flow of the fan	2000 m³/h
Max. pressure	10000 Pa
Motor performance	11,0 kW
Supply voltage	400 V/50 Hz
Motor control	Star-delta circuit
Sound level	approx. 78 dB(A)
Separation efficiency	≥ 99 %
Dimensions (W x D x H)	800 x 1200 x 2900 mm

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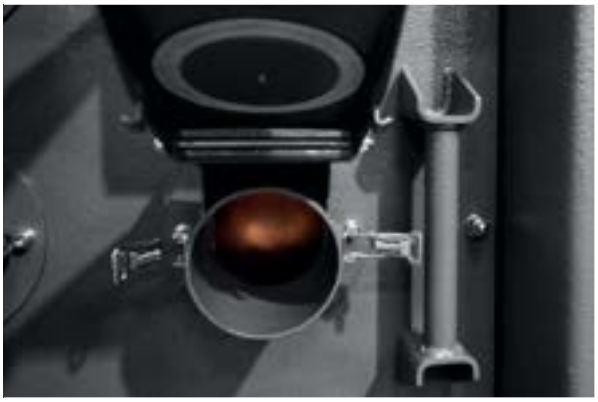
pressure difference is reached, pulses are consecutively sent to the individual magnet valves. The magnet



Front connections for up to 6 hoses

valves open briefly and supply compressed air to the individual filter cartridge at the clean-air side. The dust particles (dust cake) adhering at the raw gas side are detached and get into the dust collector. This dedusting process is repeated until a preset bottom switching value is reached. Furthermore, the dedusting can be started according to a certain time interval or manually. When a fault occurs the red signal lamp lights up. The unit is equipped with an on/off switch as well as with an emergency stop switch and a connector is supplied.

Standard equipment

- pressure regulator with a manometer 1/2" for 0.5-10 bar
- pressure controller which gives a signal if the pressure in the compressed air tank is below 2 bar and which then switches off the system
- timer with battery module to automatically start and stop the unit
- dust sensor for the dust collector to mechanically monitor the dust fill level in the container
- signal lamp for compressed air
- signal lamp dedusting alarm / filter condition
- signal lamp engine malfunction

Easily accessible controls

- signal lamp to show full dust collector
- Harting interface to connect the external control unit
- button for the manual dedusting of the cartridges
- on/off switch with an integrated signal lamp
- main switch (supplies the unit with voltage)
- emergency stop switch
- strobe lights to signal malfunctions

Available as an option

- Hoses and suction hoods
- Mobile control unit

Available versions

VarioCube-IFA	RGC
9501442110201402	

Accessories for **VarioCube**

	Filter cartridge 10 m², 327 x 600 mm (4 cartridges required by default)	6160600110008
	External Siemens S7 control unit	15000007

ExCube

Suitable for

Extra safety thanks to protection against explosive substances of class ST1. A significantly cleaner solution compared to the cyclone wet separator.

ExCube

Description

The advantages of the ExCube lie in its high safety standard and reliable dry extraction, especially for explosive substances of class ST1.

Explosive particles are safely separated using modern filter technology with an antistatic surface. The filter cartridges used offer a large filter area with high separation efficiency. The fan is directly driven and designed for continuous operation. A frequency converter controls the motor efficiently.

The system meets the highest explosion protection requirements and is equipped with an ATEX check valve that provides additional protection in case of an emergency. The housing is made of extra-strong materials for extreme durability in industrial use.

Standard equipment

- High-performance fan, direct drive
- Silencer on the outlet nozzle (NW 400 mm)
- Antistatic filter cartridges (4x 25 m²)
- Control via Siemens S7
- Frequency converter for motor control
- ATEX non-return valve
- Ready for connection to 3Ph+N+PE, 50/60 Hz

Technical Data

ExCube	
Max. volumetric flow of the fan	5.000 - 10.000 m³/h
Max. pressure	3.500 - 4.600 Pa
Motor performance	4,0 - 11,0 kW
Voltage	380 V/480 V
Motor control	Frequency converter
Sound level	approx. 73 dB(A)
Separation efficiency	≥ 99 %
Dimensions (W x D x H)	800 x 800 x 3.960 mm

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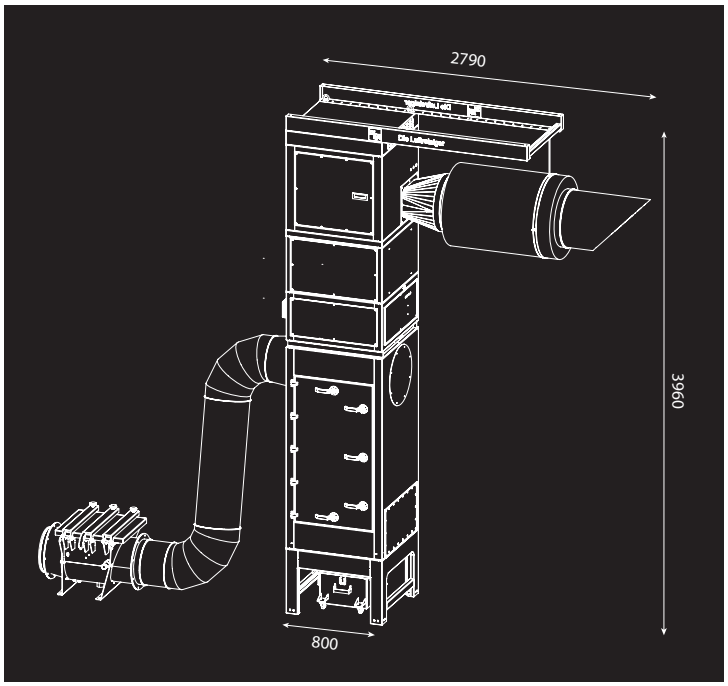

Available versions

ExCube			
ExCube 4,0 kW 950EX41040100300	**ExCube 5,5 kW** 950EX41055100300	**ExCube 7,5 kW** 950EX41075100300	**ExCube 11,0 kW** 950EX41110100300

At TEKA we use intelligently designed filter systems and high-quality filter materials to reduce the risk of fire.
However, it can never be completely ruled out that a spark will cause the process dust to ignite. We have therefore developed a multi-stage fire protection concept that works preventively but can also minimise damage in the event of a fire.

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sparktoo

Suitable for

Additional fire prevention for your extraction system; spark separator for installation in pipes

sparktoo

Description

Installed in the pipe system as part of the extraction system, the sparktoo greatly reduces the risk of fire in the filter system by minimising the sparks that reach the separator through the pipe network. The effectiveness of the spark separator is based on the simple principle of interrupting the air flow to cool and extinguish sparks before they reach the separator.

The spark separator is easy to remove and clean. Calibration of the spark separator by a service technician is not necessary.

sparktoo in **Action**

Diameter mm	Item no.	Pressure loss at 15 m/sec	Height mm	Length mm	Weight kg
Ø 100	80001920100	212	180	466	2,8
Ø 125	80001920125	212	224	466	3,2
Ø 160	80001920160	224	280	546	3,7
Ø 200	80001920200	274	350	606	5,0
Ø 250	80001920250	299	400	606	5,9
Ø 315	80001920315	336	500	676	6,8
Ø 400	80001920400	361	630	766	7,3
Ø 450	80001920450	299	710	826	15
Ø 500	80001920500	311	810	926	21
Ø 560	80001920560	300	920	1026	26
Ø 630	80001920630	315	1020	1086	33
Ø 710	80001920710	320	1150	1186	39

Visible sparks upon entering the spark separator (enlarged view below)

sparktoo (shown with Plexiglas control tubes)

Air flow after leaving the spark separator (enlarged view below)

How the sparktoo works

On one side, the sparks enter the spark separator. They hit a cone that deflects the air flow, including the sparks and dust particles, to the sides.

On the opposite side, the pipe is pushed a short distance into the sparktoo, ensuring that the air around the air outlet is swirled, sparks are deflected several times and extinguished.
The risk of ignition of the filter material is minimised.

Available versions

sparktoo							RGF
Nozzle	*Ø 100 mm*	*Ø 125 mm*	*Ø 160 mm*	*Ø 200 mm*	*Ø 250 mm*	*Ø 315 mm*	*Ø 355 mm*
	80001920100	80001920125	80001920160	80001920200	80001920250	80001920315	80001920355
	Ø 400 mm	*Ø 450 mm*	*Ø 500 mm*	*Ø 560 mm*	*Ø 630 mm*	*Ø 710 mm*	
	80001920400	80001920450	80001920500	80001920560	80001920630	80001920710	

Spark pre-separator

Suitable for

Central suction and filter units. Ideal protection device against fire risk of filter units.

Spark pre-separator

Description

Metal working produces not only respirable pollutants, but also sparks and glowing parts – such as during grinding or cutting.

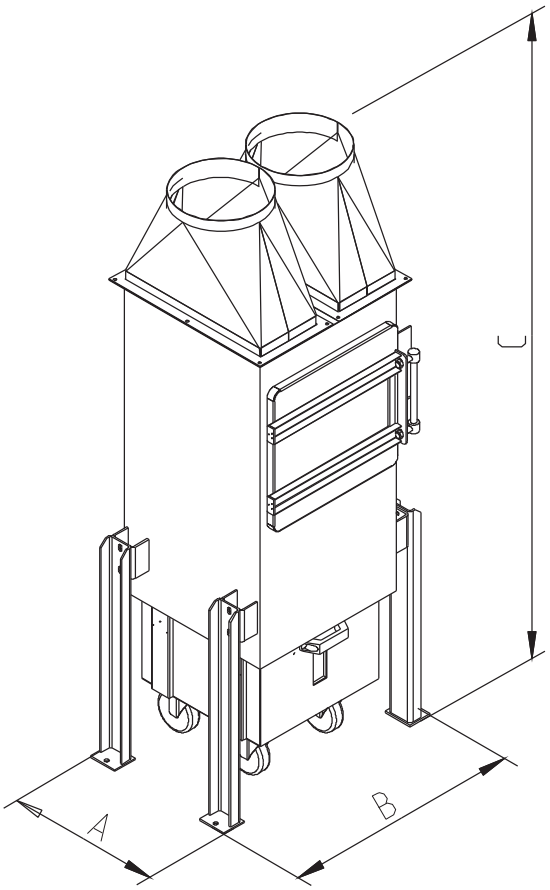
The special diversion of the polluted air inside the unit guides heavy and especially glowing parts into the water.

Standard equipment

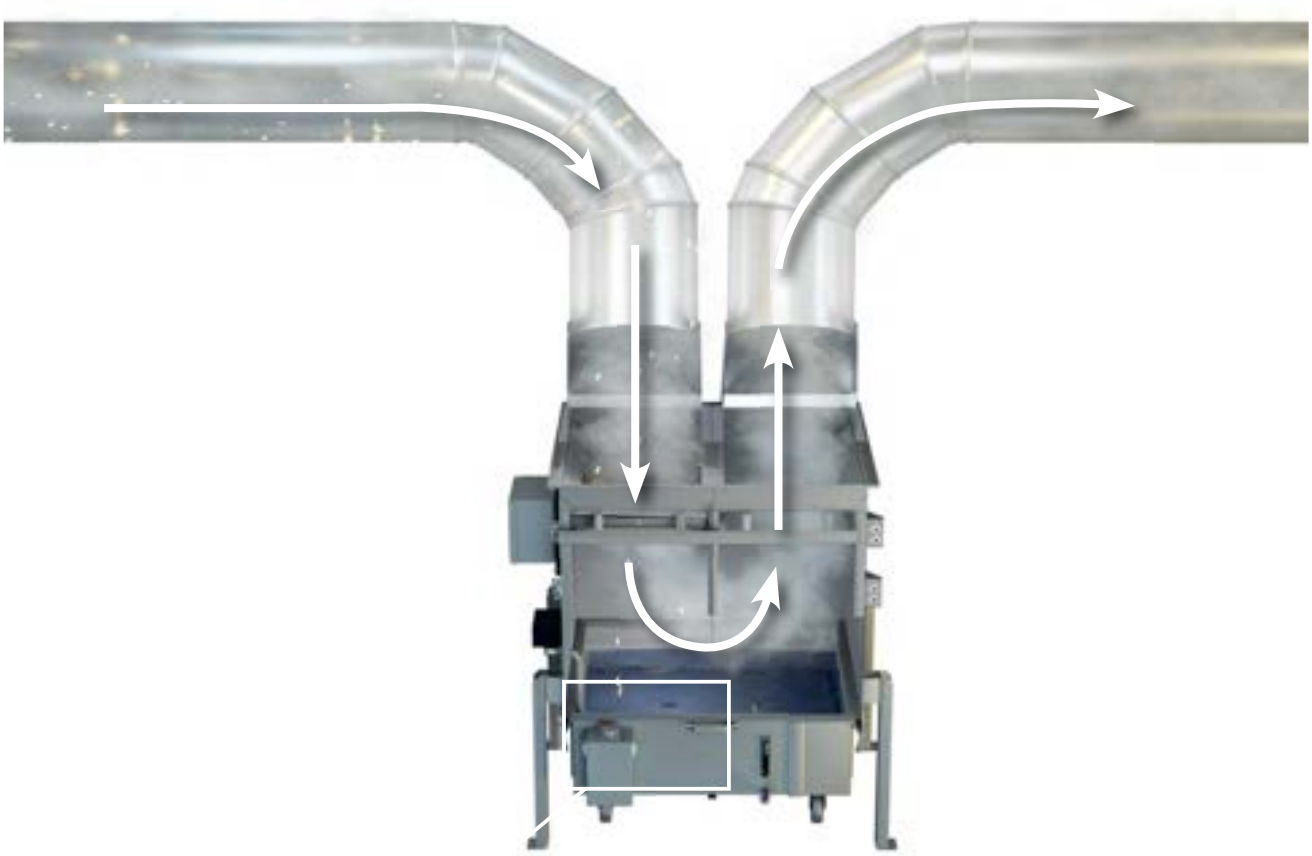
- Level control
- Housing made of galvanized steel
- Inspection glass for monitoring the water level
- Control and maintenance door with snap-fasteners
- Collecting container
- Water connection
- Transition piece for ducting
- Shut-off valve

Available as an option

- Housing made of stainless steel
- Collecting container made of stainless steel



	A	B	C
FVS 1000 - 3000	560 mm	760 mm	1430 mm
FVS 4000 - 6000	760 mm	960 mm	1445 mm
FVS 7000 - 12000	1060 mm	1260 mm	1433 mm
FVS 12000 - 15000	1230 mm	1500 mm	1980 mm



The sparks drop into the water and extinguish

Functional principle of the spark pre-separator

The mixture of sparks and grinding, cutting or welding smoke is fed through the pipe to the spark pre-separator. Inside the housing, the air flow is deflected by 180 degrees. Due to their own weight, the sparks fall into the water bath of the spark pre-separator and extinguish.

What remains is an air flow that can usually be safely led to the filter section of the following extraction system.

Available versions

Spark pre-separator RGC			
max. volumetric flow			
up to 3 000 m³/h	*up to 5 000 m³/h*	*up to 12 000 m³/h*	*up to 15 000 m³/h*
FVS 1000 - 3000 201010205	**FVS 4000 - 6000** 201040205	**FVS 7000 - 12000** 201080205	**FVS 12000 - 15000** 201150205

TEKA fire protection concept

There are different ways to equip a filter system with options that make a system safer overall. It is important to realize that there is no 100% protection to prevent a filter fire.

The measures that can be taken should always be in proportion to the effort involved.

In most cases, the listed preventive measures already offer very good protection; depending on the main application, it can be useful to supplement the preventive measures with further sensor, detection and extinguishing systems and thus minimise the risk of greater damage.

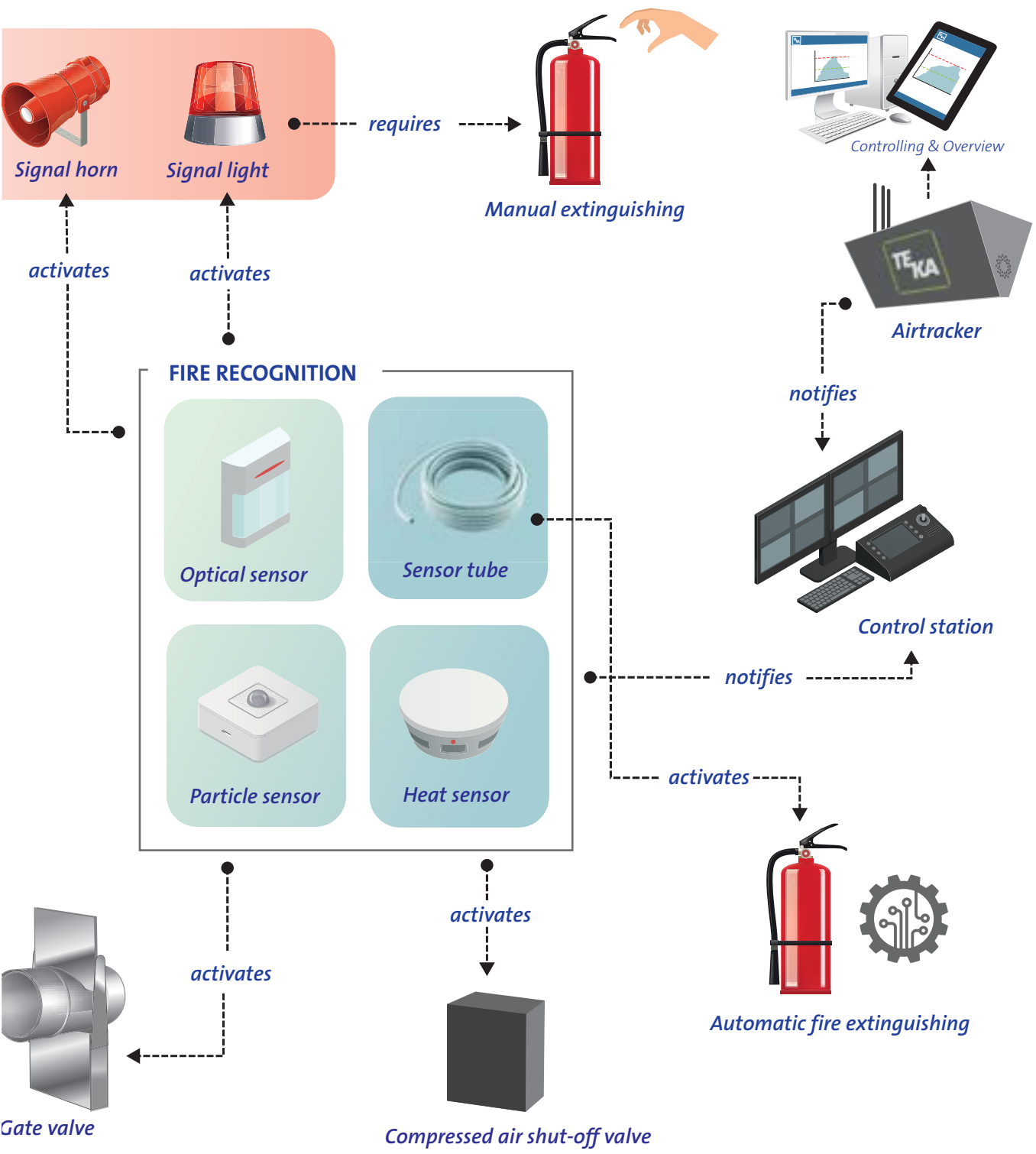
Note: TEKA extraction and filter systems are designed for smoke detection in thermal and mechanical metalworking. The systems must not be used for other purposes.

PREVENTIVE MEASURES

Spark pre-separator

are supplemented by

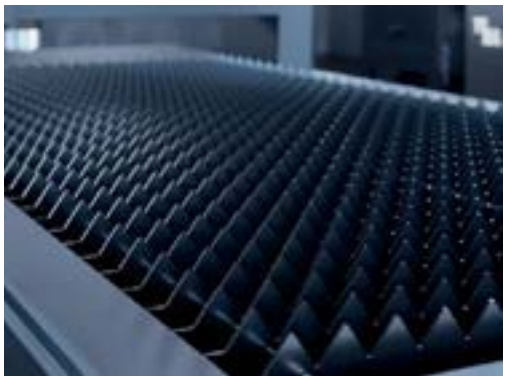
Sparktoo



The TEKA AirCut plasma cutting system offers an efficient and precise solution for the metalworking industry. The set consists of a stable cutting table, intuitive controls and the TEKA EcoCube filter system.

The TEKA AirCut offers user-friendliness at a moderate cost. The robust construction and precise rack and pinion drive guarantee stability and durability.
The advantages include:

- *Plug & Play ready to cut within one day*
- *CAD/CAM software included*
- *High cutting quality at an attractive purchase price*



AirCut Plasma cutting table with EcoCube

Suitable for

Powerful cutting of steel and stainless steel at high cutting speeds with precise cutting results

Description

The TEKA AirCut plasma cutting system offers an efficient and precise solution for the metalworking industry. With a stable cutting table, intuitive controls and the TEKA EcoCube filter system, it impresses with its quality and user-friendliness at a moderate cost.

The cutting table ensures high load capacity, while the intuitive controls make it easy to operate, even for less experienced users.

Equipped with the innovative TEKA EcoCube filter system, the system not only ensures clean cutting results, but also a healthy working environment. The robust construction, combined with a precise rack and pinion drive, guarantees durability, stability and reliable results – all at a moderate cost.

This complete solution meets the highest standards of quality and cost-effectiveness.

Standard equipment

- Hiwin linear rails
- Powerful servo motors
- Steel cutting grid surface with quick-change system
- CPC connector interface for remote start and power supply to the filter system
- Free-standing control terminal with industrial PC, 19" screen and I5 processor
- CAD CAM software
- Status LED display
- Collision protection system
- CPC connector interface for Hypertherm and Kjellberg
- Panasonic I4C InfoHub with cloud access
- Industry 4.0 connection via OPC-UA and MQTT services

Technical Data

AirCut Plasma cutting table		
	Medium format	Large format
Effective cutting area	1250mm x 2500mm	1500mm x 3000mm
Positioning speed	up to 21.000 mm/min	
Positioning accuracy (DIN 28206)	≤ 0,15 mm/m	
Drive / guide Z-axis	ball screw	
Main control panel	Ergonomic 19" touchscreen control panel	
Connection voltage	400 V/50 Hz	
Current consumption	11,5 A	14,5 A
Colour	RAL 7016	

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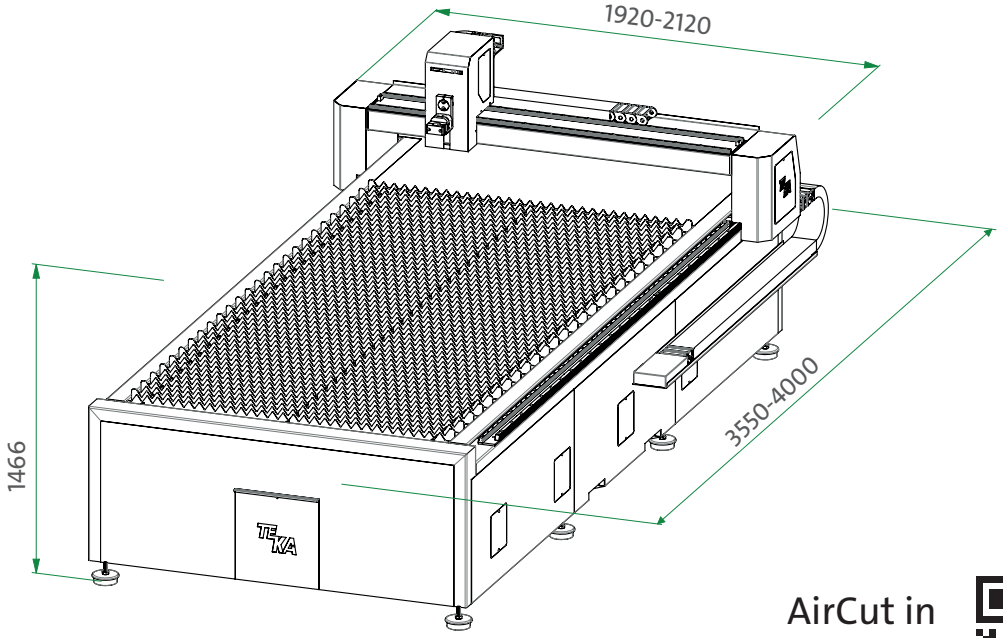

AirCut in **Action**

Available versions

AirCut Plasma cutting table with EcoCube	
Medium format	924500
Large format	927000

LasCut Pro Compact CNC fibre laser with EcoCube

Suitable for

Highly precise cutting of metals at high cutting speeds with excellent cutting results

Description

The compact LasCut Pro fibre laser from TEKA is one of the most advanced laser cutting systems on the market. With proven laser technology in the power range from 3.0 to 6.0 kW and high-end software from Raycus, it enables fast, precise and efficient processing of a wide variety of metals.

The LasCut Pro series sets new standards in fibre laser cutting technology: with up to 6 kW of power, it meets demanding manufacturing requirements and offers a highly efficient alternative to plasma and flame cutting processes.

The design concept is based on a compact construction: minimum space requirements with maximum processing performance – and thus noticeable advantages for everyday production. Thanks to intelligent CNC CAD/CAM control, the LasCut Pro is stable, reliable and particularly user-friendly. It is conveniently operated via a panel and an additional handheld device. The system is well prepared for Industry 4.0: interfaces such as Modbus or OPC UA enable seamless integration into cross-manufacturer systems.

In addition, Airtracker sensor units and state-of-the-art EcoCube filter technology ensure maximum production reliability, clean exhaust air and improved operating efficiency.

The LasCut Pro series impresses with its high cost-effectiveness, strong performance and attractive investment and operating costs.

Technical Data

LasCut Pro Compact CNC fibre laser with EcoCube	
	Large format
Effective cutting area	3000 mm x 1500 mm
Cutting table	Included as standard
Number of tools	1
Cutting process	Fibre laser
Transverse speed	Up to 120 m/min
Positioning accuracy	+/- 0,03 mm/m
X-Y-Z axis	Linear guide, Panasonic servo, driven on both sides and with helical racks
Portal	Solid steel portal
Control & software	Integrated CNC CAD/CAM software, Raycus control, Windows, Intel Core I5
Main control panel	Ergonomic 24" touchscreen control panel
Filter system interface	Available
Connection voltage	400 V / 50 Hz
Power type	3Ph+N+PF
Colour	RAL 7016/RAL 7035

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Available versions

LasCut Compact CNC fibre laser with EcoCube						
Performance	Structural steel (St)	Stainless steel (VA)	Aluminium (Al)	Brass (CuZn)	Copper (Cu)	Item No.
3 kW	18 mm	10 mm	12 mm	6 mm	5 mm	93270003
6 kW	25 mm	20 mm	20 mm	15 mm	10 mm	93270006

Select sheet metal formats corresponding to the maximum permissible workpiece weight. Additional laser sources/power ratings up to 12 kW are possible.

EcoCube

Suitable for

Almost all tasks in the field of smoke and dust filtration

Description

The EcoCube is supplied as a standard filter system in a package with the AirCut, but can also be ordered without the plasma cutting table. The filter system complies with the EN 21904-1/-2 standard. This gives the end user the assurance of being protected from hazardous substances and reduces operating costs for the operator compared to exhaust air operation. Air is drawn in via a side intake duct with a NW 400 connection. The system is equipped with a spark labyrinth.

Dust separation is achieved using four self-cleaning cartridge filters of class BIA M. The filter surface area and geometry, as well as the use of Power Jet cleaning, enable optimum cleaning, ensure a long service life and contribute to energy savings due to lower compressed air consumption. Filter replacement is quick and easy, facilitated by maintenance doors.

During the plant design phase, attention was paid to ensuring easy access to important plant areas, thereby emphasising user-friendliness.

The actual cleaning of the dust is carried out by a compressed air pulse from a storage tank, which knocks the dust off the surface. This is controlled fully automatically by a PLC control system. All relevant plant parameters can be read out, displayed or adjusted if necessary. The use of a touch screen display is optional.

The cleaned dust is temporarily stored in a dust container. After filtration, the clean air is fed through the fan, which is located at the top of the system in an open design, and directed into the workroom via a silencer elbow. Thanks to its compact design, this system can be set up quickly and easily. Transport by crane is possible because of the mandatory crane eyes.

Technical Data

EcoCube	
Max. volumetric flow of the fan	6.000–10.000 m³/h
Motir performance	5,5 kW–11 kW
Voltage	400–480V; 50/60Hz
Separation efficiency	≥ 99 %
Sockets	5,5 kW: 315 mm 7,5 kW: 355 mm 11 kW: 400 mm
Sound level	approx. 75 dB(A)
Weight	approx. 470–480 kg

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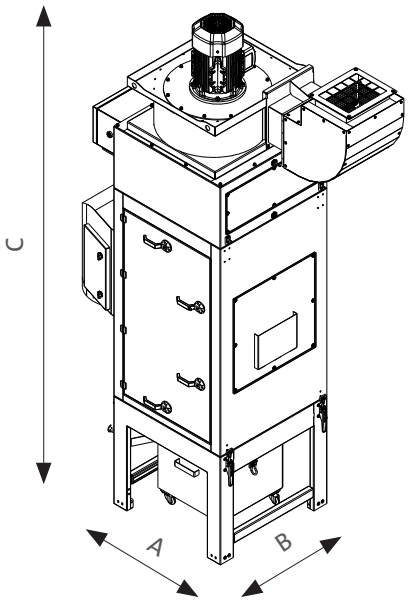

		5,5 kW	7,5 kW	11 kW
EcoCube	A	800 mm	800 mm	800 mm
	B	800 mm	800 mm	800 mm
	C	3174 mm	3174 mm	3229 mm

Standard equipment

- 4 latest-generation filter cartridges
- Siemens PLC control system
- Integrated spark labyrinth
- Maintenance flaps
- Intelligent eco-management
- Quick assembly system
- Ready-to-go 4.0
- Interface for sensor technology
- Frequency converter

Available versions

EcoCube	RGC
EcoCube 5,5 kW	20170050
EcoCube 7,5 kW	20170070
EcoCube 11,0 kW	20170090

We offer different welding benches, among others a special welding bench for education purposes that is often applied in companies with a training programme and can be used flexibly.

Our grinding benches are characterized by rear wall extraction and extraction from below and are optionally fitted with lamellas. Since there are no metal side walls, it is also possible to handle long and bulky objects in an ergonomic way.

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Suction table

Suitable for

Extraction from below of fumes and dusts – e.g. for manual plasma arc cutting

Suction table 900mm

Description

Stable construction for extraction from below. A baffle plate distributes the pollutants inside the bench and calms the air flow.

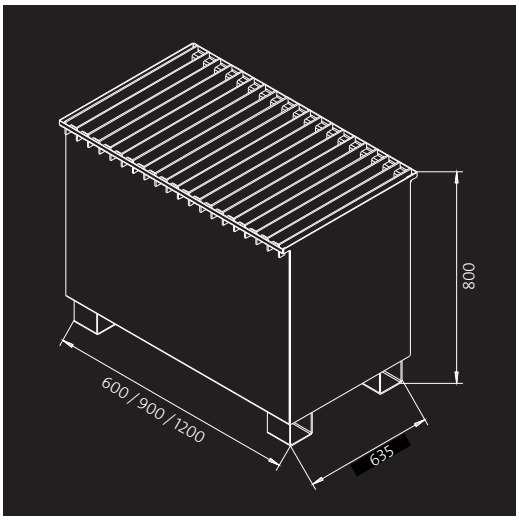
We would be glad to advise you regarding the choice of the appropriate filter units or fans.

Standard equipment

- Support made of flat iron
- Baffle plate

Available as an option

- Support made of refractory bricks
- Special dimensions on request



Technical Data / Available versions

Suction table			RGF
Depth: 635 mm · Height: 800 mm			
Width	*Required volumetric flow of the fan*	*Suction nozzle*	
600 mm	*1500 m³/h*	*Ø 160 mm*	56200
900 mm	*2000 m³/h*	*Ø 200 mm*	56210
1200 mm	*2500 m³/h*	*Ø 250 mm*	56220

Welding bench

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Suitable for

Education and training centres as well as industrial plants

Description

Stable welding bench made of sectional steel.
A simple assembly is ensured.

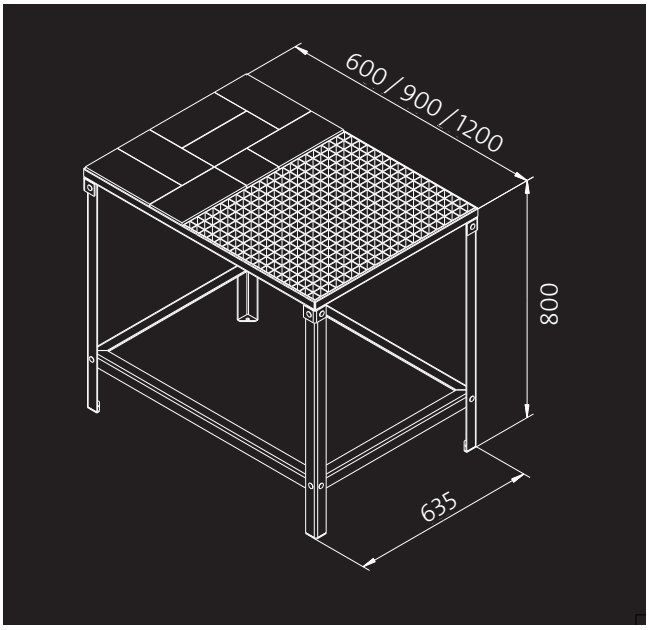
Available as an option

- Downhand welding device
- Special dimensions on request

Standard equipment

- Bar iron grating
- Refractory bricks

Welding bench



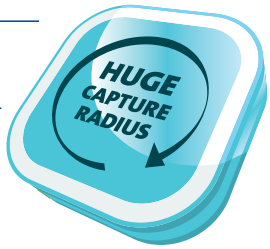
Technical Data / Available versions

Welding bench	RGF
Depth: 635 mm · Height: 800 mm	
Width	
600 mm	56100
900 mm	56110
1200 mm	56120

Grinding bench

Suitable for

Rear wall extraction and extraction from below for grinding tasks.



Description

Here you find a selection of standard grinding benches.

The dusts are extracted on the back and below. 90 % of the extracted particles are already extracted by the rear wall and can safely and easily be disposed of by means of the dust collecting tray.

We gladly advise you regarding the choice of filter units or fans.

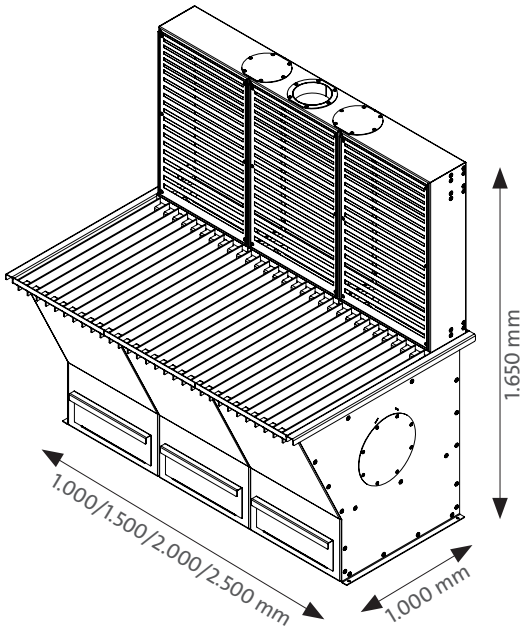
Available as an option

- Side panels
- Lamella curtains folding type
- Partial roof with lighting
- Special dimensions on request
- Wooden bars (set of 10)

Standard equipment

- Rear wall extraction
- Flat iron support or wooden support
- Pre-separator
- Dust collecting tray
- 2 temporary covers for nozzles

Modular extraction wall for floor mounting 500 mm (Item no. 182350019)



Modular extraction wall for wall mounting 750 mm (Item no. 182375023)

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Installation example: Two grinding tables (2000 mm) with a wet cyclone separator

Item no.	Type	Dimensions	Rear panel connection	Connection at the table	Required air volume
56400	Grinding bench	1000 x 1000 x 1650 mm	1x Ø 150 mm	1x Ø 200 mm	1650 - 3150 m³/h
56410	Grinding bench	1500 x 1000 x 1650 mm	1x Ø 150 mm	1x Ø 200 mm	1950 - 3150 m³/h
56420	Grinding bench	2000 x 1000 x 1650 mm	2x Ø 150 mm	1x Ø 200 mm	3450 - 4300 m³/h
56430	Grinding bench	2500 x 1000 x 1650 mm	2x Ø 150 mm	1x Ø 200 mm	3900 - 4300 m³/h

Item no.	Type	Dimensions	Connection	Required air volume
182350023	Extraction wall for wall mounting	500 x 200 x 1000 mm	1x Ø 150 mm	1000 - 1300 m³/h
182350019	Extraction wall for floor mounting	500 x 200 x 1000 mm	1x Ø 150 mm	1000 - 1300 m³/h
182375023	Extraction wall for wall mounting	750 x 200 x 1000 mm	1 x Ø 150 mm	1000 - 1300 m³/h
182375019	Extraction wall for floor mounting	750 x 200 x 1000 mm	1 x Ø 150 mm	1000 - 1300 m³/h

Technical Data / Available versions

Grinding bench

RGF

		Width			
		1000 mm	*1500 mm*	*2000 mm*	*2500 mm*
Grinding bench	*with rear panel*	56400	56410	56420	56430

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Accessories

		Welding bench	Grinding table		
	Clamp welding device	■		56130	RGF
	Pivotable side panels (2 pieces)		■	999200040	RGF
	Rib suspension, pivotable (2 pieces)		■	999200005	RGF
	Roof with lighting 1 m		■	999200016	RGF
	Roof with lighting 1,5 m		■	999200014	RGF
	Roof with lighting 2 m		■	999200012	RGF
	Roof with lighting 2,5 m		■	999200018	RGF
	Wooden bars for grinding benches (set of 10, fitting for 500 mm surface area)		■	819194	RGF

Manual cutting table

Suitable for

Fixing and processing workpieces, for example for plasma hand cutting, can be combined with air filter systems

Description

The manual cutting table is particularly suitable for manual flame cutting and is ideal for teaching, testing and training facilities as well as for training departments in companies. Thanks to the innovative foot pedal mechanism of the workpiece clamping device, it is possible to work freely with both hands, which increases flexibility and precision. The robust material support ensures safe working, while the integrated slag drawer allows for easy disposal of the deposited particles.

The ergonomically adapted sheet steel construction also contributes to a comfortable working environment.

Special features include the workpiece clamping device with foot mechanism for secure mounting of flame cutting equipment, the integrated slag drawer and the suitability for connection to central extraction and filter systems.

The robust sheet steel construction ensures high stability and durability of the device.

Standard equipment

- Slag drawer
- Two extraction openings ⌀ 200 mm
- One blind cover for the second extraction opening

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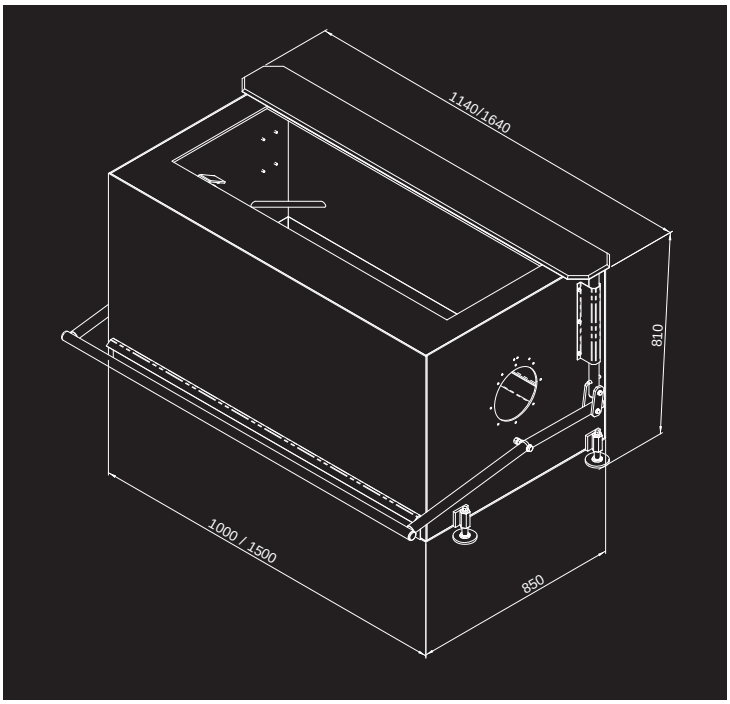

Technical Data / Available versions

Manual cutting table	RGF
Depth: 850 mm · Height: 810 mm · Recommended air volume: 1.800 m³/h	
Width	
1000 mm	56819201000
1500 mm	56819201500

TEKA offers a wide range of suction and-collecting elements for various solutions. Our suction arms range from small diameters, e.g. 50 mm for laboratories, dentistry or beauty salons up to large diameters for the extraction of high amounts of welding fume.

Additionally, the TEKA product portfolio consists of suction arms, cranes and hoses made of materials which are optimized for different applications such as arms made of aluminium that are chemically resistant or antistatic.

A hood is installed at the tip of every suction element to make sure of an efficient extraction. You can choose between different versions.

Our extraction elements are available for table, wall or ceiling attachment, or they are connected directly to the filter unit and positioned by means of joints or jib cranes. It would be our pleasure to advise you in finding the appropriate solution for you.

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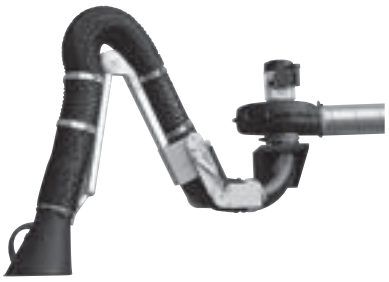
Suction arm ∅ 150 mm

Suitable for

Welding fume extraction – The arms can either be connected to individual fans or to central suction and filter systems



Suction arm (Art.-No. 97621)

Description

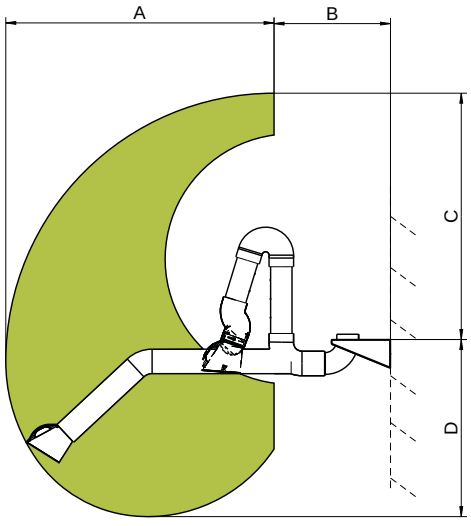
The suction arms Ø 150 mm are available in different versions and lengths.

Due to the spring-support, all arms are easily positioned and self-supporting in the adjusted position.

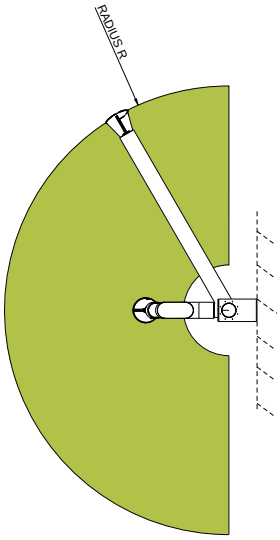
The volumetric flow can be individually regulated via a throttle valve that is integrated in the suction hood.

Standard equipment

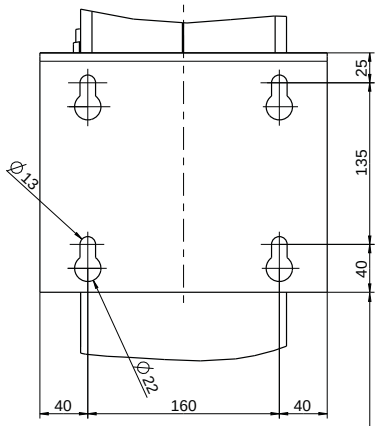
- Oval suction hood Ø 270 mm made of synthetics with throttle valve
- From a length of 5 m on, additional wall bracket with C-rail
- Stable wall bracket made of powder-coated steel plate
- Connection nozzle ∅ 160 mm
- Wall bracket with support for ducting connection
- 3 joints with spring control and friction plates
- Flexible suction hose (PVC) with welded steel wire spiral (temperature-resistant up to +120°C)

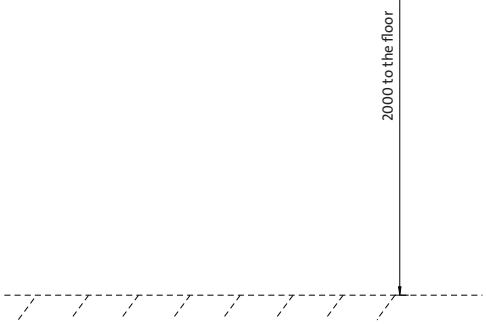


Side view



Top view





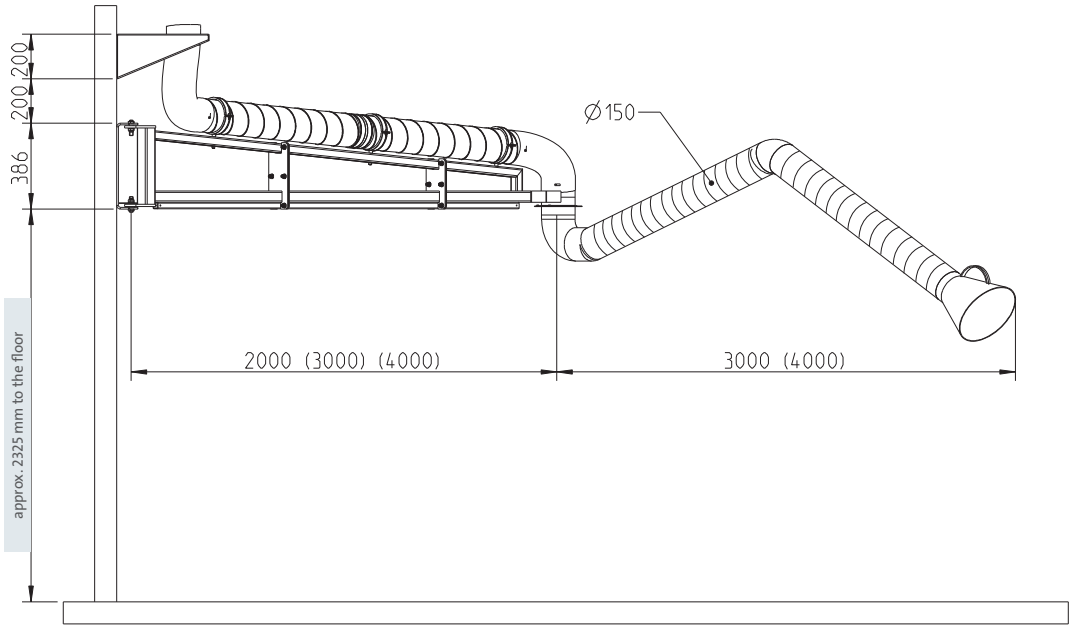
Dimensions

		Art. No.	A	B	C	D	R
Hose	*internal joints*	**97601**	1900 mm	815 mm	1730 mm	1242 mm	2410 mm
	external joints	**97620**	1800 mm	750 mm	1640 mm	1150 mm	2315 mm

Available as an option

- Other arm lengths on request
- Suction hood made of metal
- Nozzle plate for an even more effective extraction of fumes and dusts
- Lighting kit for suction hood
- High-temperature hoses
- Spark arrester grill
- Spark arrester grill made of aluminium including metal hood
- Wall bracket with counter nozzles for TEKA fans

Suction arm with wall bracket and guide rail



Available versions

Suction arm Ø 150 mm

RGF

			Length						
			2 metres	*3 metres*	*4 metres*	*5 metres*	*6 metres*	*7 metres*	*8 metres*
recommended volumetric flow of the fan:			*1000–2000 m³/h*	*2000 m³/h*	*2000 m³/h*	*2000–2500 m³/h*	*2000–2500 m³/h*	*2500 m³/h*	*2500–3000 m³/h*
for wall assembly	**Hose**	*Internal joints*	97601	97602	97603	976022	976032	976024	976034
		External joints	97 620	97 621	97 622	97 621 2	97 622 2	97 621 4	97 622 4
for mobile units	**Hose**	*Internal joints*	976010001	976020001	976030001				
		External joints	976200001	976210001	976220001				

Suction arm ∅ 200 mm

Suitable for

Larger amounts of air, e.g. for flux-cored arc welding with high tensions or gross welding rod

Suction arm (Art.-No. 97622)

Description

The suction arms ø 200 mm are available in different versions and lengths.

Due to the spring-support, all arms are easily positioned and self-supporting in the adjusted position.

The volumetric flow can individually be regulated via the throttle valve integrated in the suction hood.

Standard equipment

- Oval suction hood made of metal (Ø 315 mm) with throttle valve
- From a length of 5 m on with an additional wall bracket
- Stable wall bracket made of powder-coated sheet steel
- Connection nozzle
- Wall bracket with counter nozzle for TEKA fans
- 3 joints with spring support
- Flexible suction hose (PVC) with welded steel wire spiral (temperature-resistant up to +120°C)

Available as an option

- Other lengths on request
- Lighting kit for suction hood
- Spark arrester grill
- Wall mount with counter-pipe for TEKA fans

Available versions

Suction arm ∅ 200 mm			RGF						
			Length						
			2 metres	*3 metres*	*4 metres*	*5 metres*	*6 metres*	*7 metres*	*8 metres*
recommended volumetric flow of the fan:			*3 000 m³/h*	*3 000 m³/h*	*3 000 m³/h*	*3 500 m³/h*	*3 500 m³/h*	*3 500 m³/h*	*3 500 m³/h*
for wall assembly	**Hose**	*Internal joints*	97661	97662	97663	976622	976632	976624	976634
for mobile units	**Hose**	*Internal joints*	976610001	976620001	976630001				

Suction crane

Suitable for

Connection to central units and individual fans

Description

Suction cranes are available indifferent versions and lengths.

Regarding suction cranes Ø 160 mm up to a reach of 6 meters, it is possible to attach tools due to the two part supporting construction. At the first outrigger, you can attach charges up to a weight of 50 kg (e.g. a mechanical wire travel). The second outrigger can be charged with up to 10 kg (e.g. tube package).

The internal construction of the telescopic arm allows a smooth adjustment at every height.

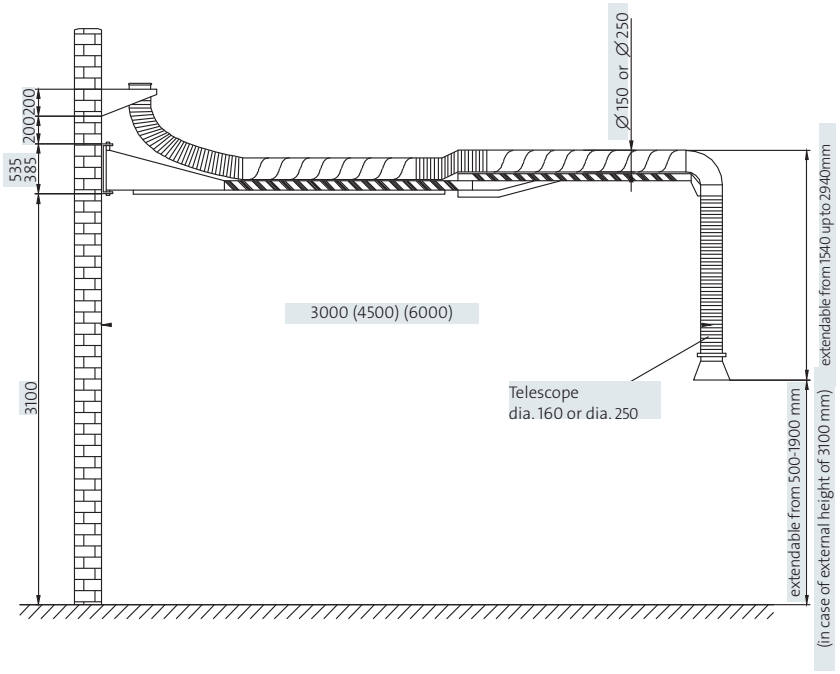
Available as an option

- Lighting kit for suction hood
- High-temperature hoses
- Spark arrester grill

Suction crane (Art.-No. 97641)

Standard equipment

- Pivoted, powder-coated supported construction made of sectional steel
- Adjustable brakes for the joints
- Connection of the suction pipes to flexible hoses at the joints
- Smoothly telescopable extension with suction hood situated at the front outrigger
- Wall bracket incl. pipe elbow and drive flange



Available versions

Suction crane			RGF
	Length		
	3 metres	*4,5 metres*	*6 metres*
Ø 160	97640	97641	97642
Ø 250	97649	97650	97651

Telescopic suction arm

Suitable for

Connection to central units and individual fans. Ideal to extract pollutants produced by fixed welding benches, e.g. in welding booths.

Telescopic suction arm (Art.-No. 97616)

Description

The telescopic suction arms are available in different versions. Due to the little space required, they are optimally appropriate to be applied in training and education centres.

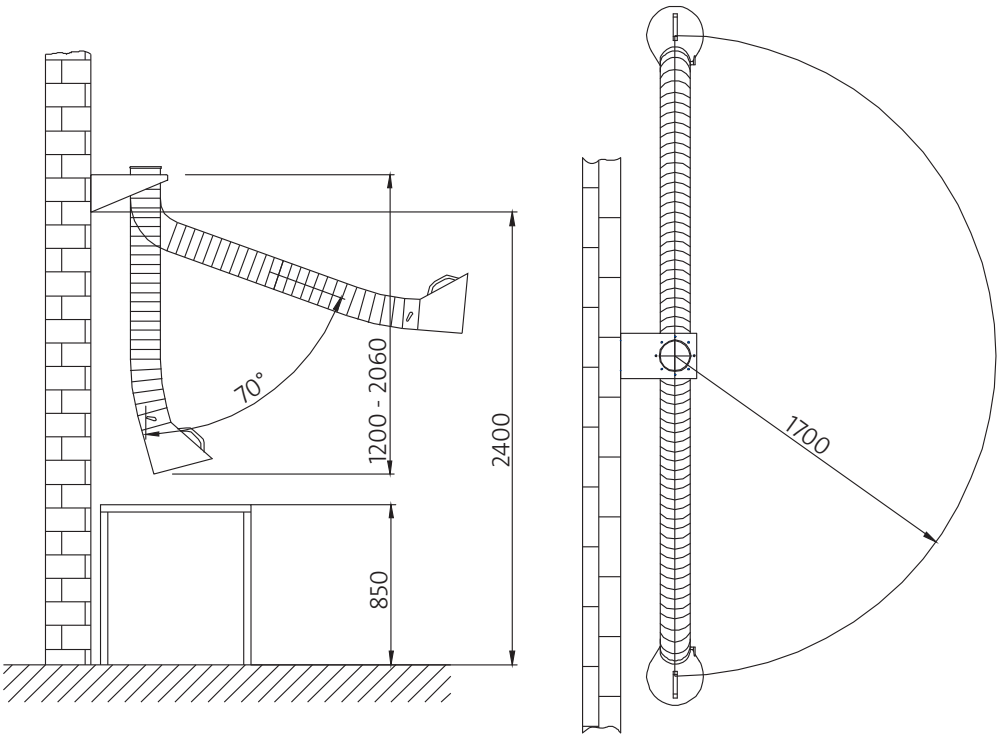
The version fitted with external joints guarantees a fume extraction with considerably lower fan performance. This reduces the noise level.

Standard equipment

- Smoothly vertically adjustable
- Pivoted to the front
- Rotating by 180°
- Extendable from a length of 1.20 to 2.06 m
- Low wear telescopic function (without counterweight)
- Suction hood ø 150 mm made of synthetics with integrated throttle valve
- Suction hoods ø 100 mm and ø 200 mm made of metal with integrated throttle valve
- Wall bracket with support for ducting connection
- Connection nozzle Ø 160 mm
- Suction hood

Available as an option

- Lighting kit for suction hood
- High temperature hoses
- Spark arrester grill
- Wall bracket with spigot for TEKA fans



Example of application: Telescopic suction arm in a welding booth

Available versions

Telescopic suction arm			RGF
Length: 1,2 – 2,06 m			
		⌀	
		100	*150*
Hose	*Internal joints*	97616100	97616
	External joints	97626100	97626

Accessories
for suction arms, cranes and telescopic arms

	Description			Art.-No.	Suction arm Ø 150 mm	Suction arm Ø 200 mm	Suction crane	Telescopic suction arm
	Nozzle plate, angular 300 × 360 mm, PVC, black		RGF	66210	■			
	Nozzle plate, round Ø 400 mm, PVC, black		RGF	66220	■			
	Connection material Ø 160 mm (nozzle, flange and hose clamp)		RGB	96301	■			
	Outlet air hose, multilayer aluminium foil, length for delivery 1,25 m, extendable up to 5,0 m	Ø 160 mm	RGB	96303	■			
		Ø 250 mm	RGB	96304	■	■		■
	Lighting kit incl. transformer unit		RGB	96313	■	■	■	■
	Support column for arm 2 - 4 m long, with base plate, height 2 500 mm		RGB	900000005	■			
	Spare hose for arm, pipe type, incl. rubber bands		RGB	100043	■			
	Spare hose for arm, hose type (Dia 150)	Length 2,0 m	RGB	101925	■			■
		Length 3,0 m	RGB	101926	■			
		Length 4,0 m	RGB	101927	■			
	Spare hose for arm, hose type (Dia 200)	Length 2,0 m	RGB	101925200		■		■
		Length 3,0 m	RGB	10192620030		■		
		Length 4,0 m	RGB	10192620040		■		
	Suction hood PVC, incl. throttle valve		RGB	66200	■			
	Protective grille (fine-meshed) for integration in suction hood		RGB	10372	■			

	Description		Art.-No.	Suction arm Ø 150 mm	Suction arm Ø 200 mm	Suction crane	Telescopic suction arm
	Suction hood PVC incl. throttle valve and integrated spark protection grille	RGB	662000003	■			
	Suction hood (metal), incl. throttle valve	RGB	104901	■			
	Fan 3 000 m³/h, 1,5 kW incl. fixing plate and snap fastener	RGB	9610341		■		
	Fan 3 500 m³/h, 2,2 kW incl. wall bracket and flexible aluminium ducting	RGB	9610441		■		

Extraction hood/plate extraction

Suitable for

Application above booths and welding robots

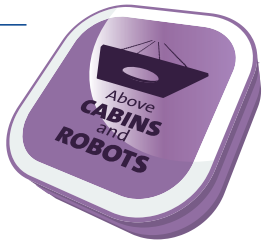


Plate extraction with lamellas

Description

The suction hoods operate according to the principle of the nozzle plate. Due to this, the necessary air amount is applied much more effectively.

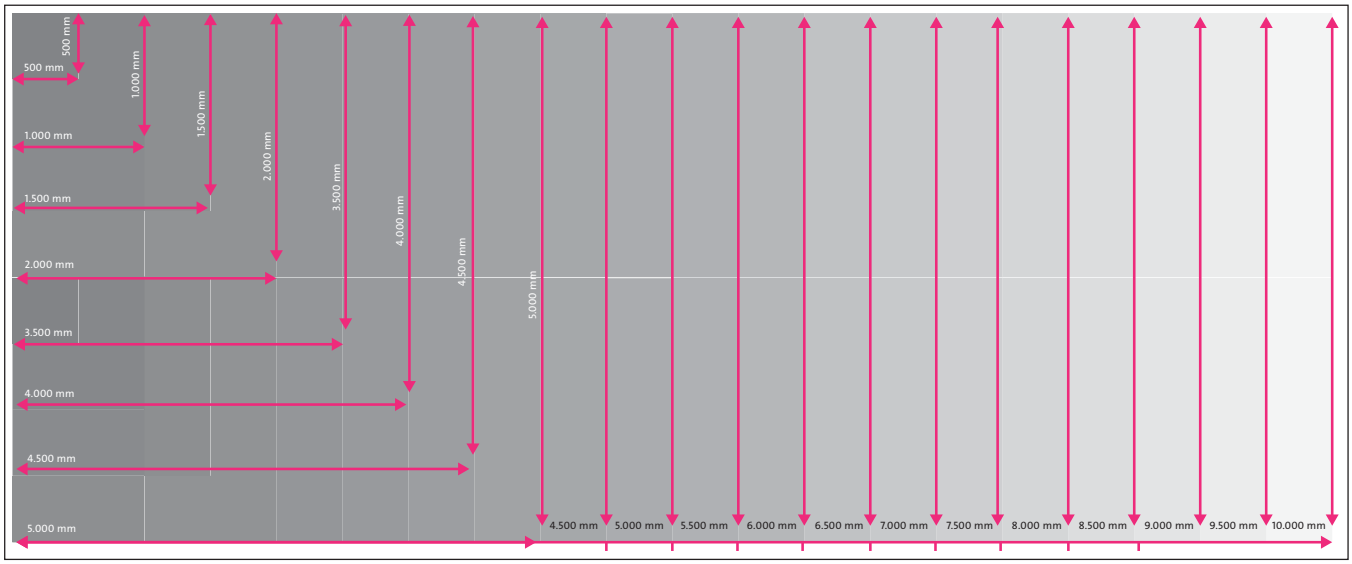
Special versions can be realized at every time. Our employees would be glad to advise you in your request, also regarding required curtains and lamellas.

Standard equipment

- Stable steel plate
- Suction nozzles
- Eye hooks

Available as an option

- Different dimensions on request
- Curtains
- Lamellas
- Different versions (e.g. brim extraction) on request
- Made of galvanised steel plate



Thanks to our modular design, we offer panel extraction systems in almost any size.

Available versions

Extraction hood/plate extraction			RGF
Inlet nozzle	*Required volumetric flow of the fan*	*Dimensions (W x D)*	
Ø 200 mm	*1700 m³/h*	*1000 × 1000 mm*	56610
Ø 250 mm	*2600 m³/h*	*1500 × 1500 mm*	56611
Ø 2×200 mm	*3400 m³/h*	*2500 × 1500 mm*	56612

TEKA fans are efficiently applicable for aeration and ventilation of working places and halls. Polluted air can be extracted by means of a hose or a pipe fitted with an extraction element at the suction nozzle and can afterwards be guided outside by means of the outlet nozzle and the connected ducting. Optionally, the air can be guided from outside to inside in order to provide working places or spaces with fresh air.

Our high-quality fans that are made of steel plate or silumin casting are stable and thus suitable for continuous operation. Additionally, a very calm operation is made sure by the static and dynamic balance.

The fans are also integrated in our economical, universally applicable exhaust fans. They are the central part of our filter devices, in this case in combination with disposable filters or filter cartridges.

The air is guided via the ducting from the working places to the unit with almost no loss. If required, the ducting can easily and professionally be installed by our technicians.

Our Hotline
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Fan

Suitable for

Connection to suction arms, in order to evacuate pollutants from the extraction point

ROBUST RUNNER

Silumin fan

Description

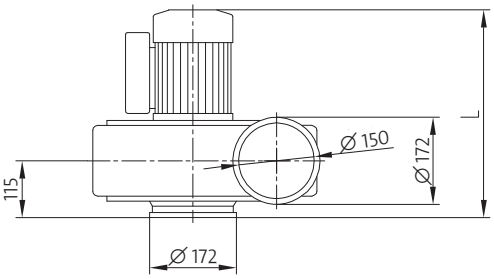
The fans are available in different versions and performances. Due to the stable construction, they are suitable for continuous operation.

Available as an option

- Wall bracket
- Protective grating
- Silencer box
- Connection material

Standard equipment

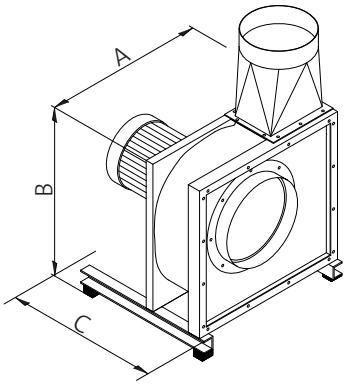
- Up to 3 000 m³/h made of silumin casting (with snap fastener)
- From 3 500 m³/h on made of silumin casting (with vibration absorber)
- Static and dynamic balanced impellers (guarantees a calm operation)
- Low maintenance engine

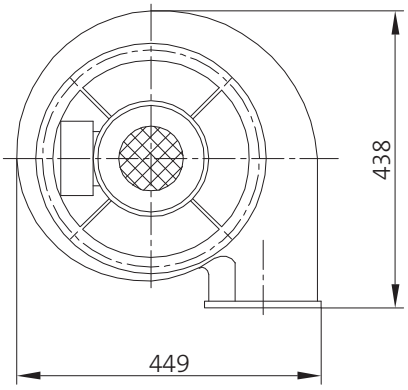


Fan made of steel sheet

Dimensions

	A	B	C
Fan 3500 m³/h	615 mm	650 mm	550 mm
Fan 4000 m³/h	615 mm	650 mm	550 mm
Fan 5000 m³/h	615 mm	650 mm	570 mm
Fan 6000 m³/h	740 mm	770 mm	720 mm
Fan 7500 m³/h	740 mm	770 mm	720 mm
Fan 10000 m³/h	740 mm	770 mm	720 mm





Available versions

Fan										RGB
		Volumetric flow of the fan								
		2000 m³/h	***2500 m³/h***	***3000 m³/h***	***3500 m³/h***	***4000 m³/h***	***5000 m³/h***	***6000 m³/h***	***7500 m³/h***	***10000 m³/h***
	Motor performance	*0,75 kW*	*1,1 kW*	*1,5 kW*	*2,2 kW*	*3,0 kW*	*4,0 kW*	*5,5 kW*	*7,5 kW*	*11,0 kW*
	Dimensions in mm	*449×438×410*	*449×438×410*	*449×438×438*	*615×650×550*	*615×650×550*	*615×650×570*	*740×770×720*	*740×770×720*	*740×770×720*
	Connection nozzle	*Ø 160 mm*	*Ø 160 mm*	*Ø 160 mm*	*Ø 250 mm*	*Ø 250 mm*	*Ø 315 mm*	*Ø 355 mm*	*Ø 400 mm*	*Ø 450 mm*
	Weight	*approx. 27 kg*	*approx. 27 kg*	*approx. 27 kg*	*approx. 45 kg*	*approx. 60 kg*	*approx. 50 kg*	*approx. 100 kg*	*approx. 107 kg*	*approx. 160 kg*
Voltage	***230 V / 50 Hz***	9610123	9610223	9610323						
	400 V / 50 Hz	961014	961024	961034	961044	961054	961064	961074	961084	961094

Mobile exhaust fan

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Suitable for

Evacuation of pollutants from the extraction point, e.g. fresh air supply for containers, pipes and boxes. Also suitable for the extraction of emissions

Description

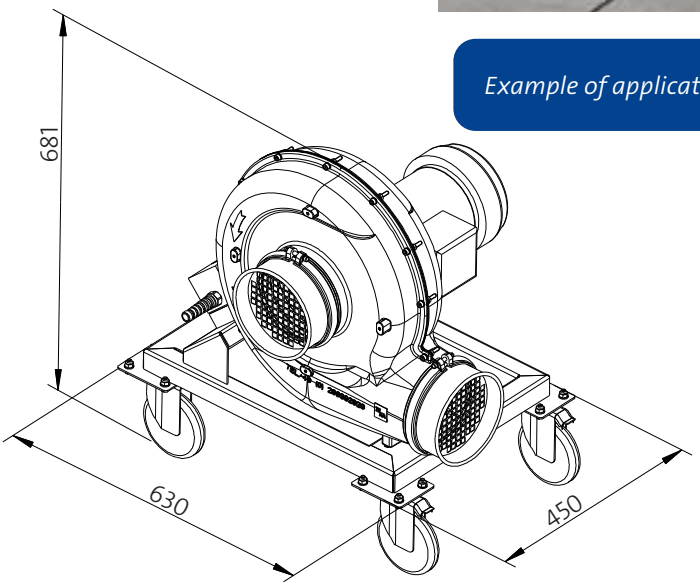
The mobile exhaust fan can be used very flexibly due to its low design and the low weight.

Connected to a suction hose, the exhaust fan is suitable for the application to workplaces which are difficult to access (e.g. shipbuilding).

Example of application: Mobile exhaust fan

Standard equipment

- Housing and impeller made of resistant aluminium casting (up to 1,5 kW) or steel plate (from 1,5 kW on)
- Powder-coated housing and chassis
- Ready to plug in
- Protective grating on the suction and pressure side
- Motor circuit breaker
- 5 m mains cable



Available as an option

- Suction hose with suction hood and magnetic base
- Other voltages on request
- Exhaustion hose

Available versions

Mobile exhaust fan						RGB
		Volumetric flow of the fan				
		2000 m³/h	2500 m³/h	3000 m³/h	3500 m³/h	4000 m³/h
	Motor performance	0,75 kW	1,1 kW	1,5 kW	2,2 kW	3,0 kW
	Suction nozzle	Ø 160 mm	Ø 160 mm	Ø 160 mm	Ø 250 mm	Ø 250 mm
Voltage	230 V / 50 Hz		97102230	97103230		
	400 V / 50 Hz	97101	97102	97103	97104	97105

Accessories

Description	Art.-No.	Fan 2000 m³/h, 0,75 kW	Fan 2500 m³/h, 1,1 kW	Fan 3000 m³/h, 1,5 kW	Fan 3500 m³/h, 2,2 kW	Fan 4000 m³/h, 3,0 kW	Fan 5000 m³/h, 4,0 kW	Fan 6000 m³/h, 5,5 kW	Fan 7500 m³/h, 7,5 kW	Fan 10000 m³/h, 11,0 kW	Mobile exhaust fan
Wall bracket RGB	96010	■	■	■							
	96015				■	■	■				
	96020							■	■	■	
Protective grille RGB	41501	■	■	■							
	41502				■	■	■				
	41503							■	■		
	41504									■	
Silencer box for upright version RGB	960101	■	■	■							
	960151				■	■	■				
	960201							■			
	960251								■		
	960301									■	
Automatic start/stop system with field sensor Maxi-Control RGB	963131220123	*230 V*	*230 V*	*230 V*	*230 V*						
	963131220140	*400 V*	*400 V*	*400 V*	*400 V*						
	963131220141					*400 V*	*400 V*				
Automatic start/stop system with magnetic field sensor for electropneumatic slide valve or motor shut-off valve	963131220224	■	■	■	■	■	■	■	■	■	
Motor circuit breaker RGB	9620100	*500 V*									
	9620101	*400 V*	*500 V*								
	9620102		*400 V*	*400 V* *500 V*	*500 V*						
	9620103	*230 V*			*400 V*	*500 V*					
	9620104		*230 V*	*230 V*		*400 V*	*400 V* *500 V*	*500 V*			

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Description			Art.-No.	Fan 2000 m³/h, 0,75 kW	Fan 2500 m³/h, 1,1 kW	Fan 3000 m³/h, 1,5 kW	Fan 3500 m³/h, 2,2 kW	Fan 4000 m³/h, 3,0 kW	Fan 5000 m³/h, 4,0 kW	Fan 6000 m³/h, 5,5 kW	Fan 7500 m³/h, 7,5 kW	Fan 10000 m³/h, 11,0 kW	Mobile exhaust fan
Automatic star-delta connection 50 Hz	400 V	RGB	9620007							■			
			9620010								■		
			9620020									■	
Connection material Ø 160 mm (nozzle, flange and hose clamp)		RGB	96301	■	■	■							
Suction hose, glass fibre fabric hose with steel wire spiral, length 6 m, incl. suction nozzle with magnetic base as well as connection material and reduction	Ø 100 mm	RGB	96314										■
	Ø 150 mm		96316										■
	Ø 250 mm		96343										■
Exhaust air hose, glass fibre fabric hose with steel wire spiral, length 6 m, incl. connection material	Ø 160 mm	RGB	963104										■
	Ø 250 mm		96344										■

Hoses and accessories

Hoses and accessories							
Field of application	***High vacuum***		***Mid vacuum***		***High temperature***	***Mid vacuum***	***Hose clip***
Type	*Superflex*		*Klimaflex*		*Klimaflex HT*	*Aluflex*	
Temperature resistance	*0° to +85°C*		*-30° to +80°C*		*-85° to +310°C*	*-50° to +200°C*	
							
Length	*10 metres*	*15 metres*	*6 metres*	*12 metres*	*4 metres*	*5 metres*	*1 piece*
Ø 35 mm	51100	511001	51120	511201	51140		51180
Ø 45 mm	51101	511011	51121	511211	51141		51181
Ø 50 mm	51102	511021	51122	511221	51142	51162	51182
Ø 75 mm	51103	511031	51123	511231	51143	51163	51183
Ø 100 mm	51104	511041	51124	511241	51144	51164	51184
Ø 125 mm	51105	511051	51125	511251	51145	51165	51185
Ø 150 mm	51106	511061	51126	511261	51146	51166	51186
Ø 160 mm			51127	511271	51147	51167	51187
Ø 180 mm			51128	511281	51148	51168	51188
Ø 200 mm			51129	511291	51149	51169	51189
Ø 250 mm			51130	511301	51150	51170	51190
Ø 300 mm			51131	511311	51151	51171	51191
Ø 355 mm			51132	511321		51172	
Ø 400 mm			51133	511331		51173	
Ø 450 mm			51134	511341		51174	
Ø 500 mm			51135	511351		51175	

Pipes, moulded parts and acc.

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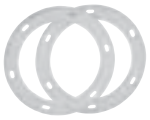
Pipes, moulded parts and accessories							RGF
	Roof cowl 	**Deflection cowl** 	**Outlet nozzle with protective grille** 	**Shut off valve airtight** 	**Regulating valve** 	**Flange collar** 	**Flange ring** 
Ø 63 mm					40360	40390	
Ø 80 mm			40301		40361	40391	
Ø 100 mm	40242	40272	40302	40332	40362	40392	40422
Ø 125 mm	40243	40273	40303	40333	40363	40393	40423
Ø 150 mm	40244	40274	40304	40334	40364	40394	40424
Ø 160 mm	40245	40275	40305	40335	40365	40395	40425
Ø 180 mm	40246	40276	40306	40336	40366	40396	40426
Ø 200 mm	40247	40277	40307	40337	40367	40397	40427
Ø 224 mm	40248	40278	40308	40338		40398	40428
Ø 250 mm	40249	40279	40309	40339	40369	40399	40429
Ø 315 mm	40250	40280	40310	40340	40370	40400	40430
Ø 355 mm	40251	40281	40311	40341	40371	40401	40431
Ø 400 mm	40252	40282	40312	40342	40372	40402	40432
Ø 450 mm	40253	40283	40313	40343		40403	40433
Ø 500 mm	40254	40284	40314	40344		40404	40434

All moulded parts and connection elements are equipped with a double rubber lip seal.

Pipes, moulded parts and accessories

Pipes, moulded parts and accessories									
	Bow 15° 	Bow 30° 	Bow 45° 	Bow 60° 	Bow 90° 	Nipple for pipes 	Sleeve for moulded parts 	End cap for pipes 	Endcap for moulded parts 
Ø 63 mm	40000	40015	40030	40060	40090	40120	40150	40180	40210
Ø 80 mm	40001	40016	40031	40061	40091	40121	40151	40181	40211
Ø 100 mm	40002	40017	40032	40062	40092	40122	40152	40182	40212
Ø 125 mm	40003	40018	40033	40063	40093	40123	40153	40183	40213
Ø 150 mm	40004	40019	40034	40064	40094	40124	40154	40184	40214
Ø 160 mm	40005	40020	40035	40065	40095	40125	40155	40185	40215
Ø 180 mm	40006	40021	40036	40066	40096	40126	40156	40186	40216
Ø 200 mm	40007	40022	40037	40067	40097	40127	40157	40187	40217
Ø 224 mm	40008	40023	40038	40068	40098	40128	40158	40188	40218
Ø 250 mm	40009	40024	40039	40069	40099	40129	40159	40189	40219
Ø 315 mm	40010	40025	40040	40070	40100	40130	40160	40190	40220
Ø 355 mm	40011	40026	40041	40071	40101	40131	40161	40191	40221
Ø 400 mm	40012	40027	40042	40072	40102	40132	40162	40192	40222
Ø 450 mm	40013	40028	40043	40073	40103	40133	40163	40193	40223
Ø 500 mm	40014	40029	40044	40074	40104	40134	40164	40194	40224

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Pipes, silencers and accessories

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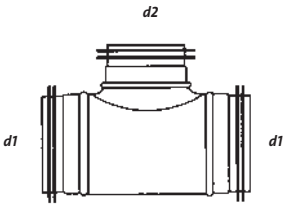
Pipes, silencers and accessories

Type	***Pipe***		***Silencer***				***Pipe clip***
							
Length	*3 metres*	*6 metres*	*300 mm*	*600 mm*	*900 mm*	*1200 mm*	
Ø 63 mm	41300	41301					
Ø 80 mm	41302	41303	41351				41411
Ø 100 mm	41304	41305	41352				41412
Ø 125 mm	41306	41307	41353				41413
Ø 150 mm	41308	41309	41354				41414
Ø 160 mm	41310	41311	41355				41415
Ø 180 mm	41312	41313		41356			41416
Ø 200 mm	41314	41315		41357			41417
Ø 224 mm	41316	41317		41358			41418
Ø 250 mm	41318	41319		41359			41419
Ø 315 mm	41320	41321			41360		41420
Ø 355 mm	41322	41323			41361		41421
Ø 400 mm	41324	41325				41362	41422
Ø 450 mm	41326	41327				41363	41423
Ø 500 mm	41328	41329				41364	41424

All moulded parts and connection elements are equipped with a double rubber lip seal.

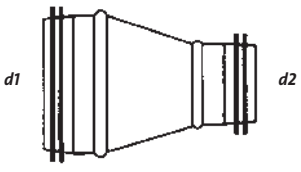
T-pieces

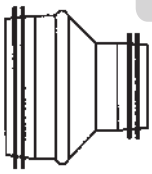


T-pieces												
d2 / d1	Ø 63 mm	Ø 80 mm	Ø 100 mm	Ø 125 mm	Ø 150 mm	Ø 160 mm	Ø 180 mm	Ø 200 mm	Ø 224 mm	Ø 250 mm	Ø 315 mm	Ø 355 mm
Ø 63 mm	40870	40900	40930									
Ø 80 mm	40871	40901	40931	40961								
Ø 100 mm	40872	40902	40932	40962	40992	41022	41052	41082	41112	41142		
Ø 125 mm	40873	40903	40933	40963	40993	41023	41053	41083	41113	41143		
Ø 150 mm	40874	40904	40934	40964	40994	41024	41054	41084	41114	41144		
Ø 160 mm	40875	40905	40935	40965	40995	41025	41055	41085	41115	41145		
Ø 180 mm	40876	40906	40936	40966	40996	41026	41056	41086	41116	41146		
Ø 200 mm	40877	40907	40937	40967	40997	41027	41057	41087	41117	41147	41207	
Ø 224 mm		40908	40938	40968	40998	41028	41058	41088	41118	41148	41208	41238
Ø 250 mm		40909	40939	40969	40999	41029	41059	41089	41119	41149	41209	41239
Ø 315 mm		40910	40940	40970	41000	41030	41060	41090	41120	41150	41210	41240
Ø 355 mm			40941	40971	41001	41031	41061	41091	41121	41151	41211	41241
Ø 400 mm			40942	40972	41002	41032	41062	41092	41122	41152	41212	41242
Ø 450 mm				40973	41003	41033	41063	41093	41123	41153	41213	41243
Ø 500 mm						41034	41064	41094	41124	41154	41214	41244

All moulded parts and connection elements are equipped with a double rubber lip seal.

Reductions





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Reductions

d \ d2	Ø 63 mm	Ø 80 mm	Ø 100 mm	Ø 125 mm	Ø 150 mm	Ø 160 mm	Ø 180 mm	Ø 200 mm	Ø 224 mm	Ø 250 mm	Ø 315 mm	Ø 355 mm
Ø 80 mm	40481											
Ø 100 mm	40482	40512										
Ø 125 mm	40483	40513	40543									
Ø 150 mm	40484	40514	40544	40574								
Ø 160 mm	40485	40515	40545	40575	40605							
Ø 180 mm		40516	40546	40576	40606	40636						
Ø 200 mm		40517	40547	40577	40607	40637	40667					
Ø 224 mm			40548	40578	40608	40638	40668	40698				
Ø 250 mm		40519	40549	40579	40609	40639	40669	40699	40729			
Ø 315 mm			40550	40580	40610	40640	40670	40700	40730	40760		
Ø 355 mm					40611	40641	40671	40701	40731	40761	40821	
Ø 400 mm						40642	40672	40702	40732	40762	40822	40852
Ø 450 mm								40703	40733	40763	40823	40853
Ø 500 mm										40764	40824	40854

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