



FILTER SYSTEMS

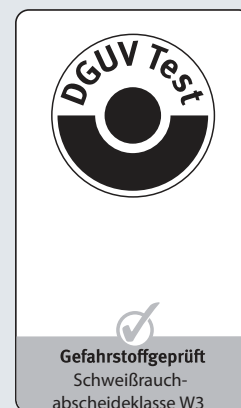
Die Luftreiniger

 CATALOGUE 2023/24



FUMES DUSTS VAPOUR



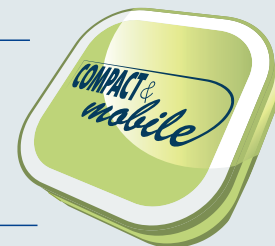




HandyCart Cartridge filter unit

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 $\geq 99\%$.

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 GORE-TEX filter cartridge
- ▶ 2 suction connections $\varnothing 50$ mm
- ▶ 1 temporary cover for suction connection
- ▶ Service-friendly maintenance door
- ▶ Dust collecting tray
- ▶ Operating hours metres
- ▶ Optical filter monitoring
- ▶ 1,8 m mains cable

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 m ³ /h
Max. pressure	21000 Pa
Motor performance	1,2 kW
Separation efficiency	$\geq 99\%$
Sound level	approx. 62 dB(A)
Inlet nozzle	2 × $\varnothing 50$ mm
Filter equipment	filter cartridge GORE-TEX
Drive type	continuous running turbine
Dimensions	W: 300 mm D: 300 mm H: 679 mm
Weight	approx. 28 kg

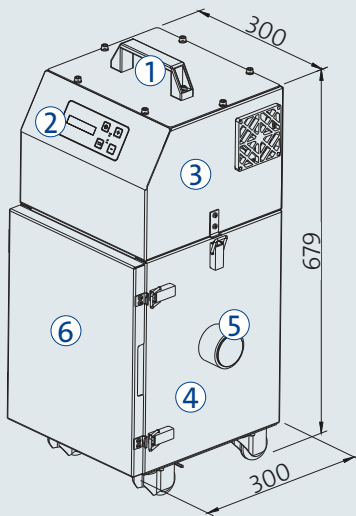


Illustration without automatic dedusting

- 1) Handle
- 2) Display control for HD version
- 3) Motor housing
- 4) Cartridge housing
- 5) Suction nozzle
- 6) Maintenance door



Example of application: Torch extraction

Available versions

HandyCart Cartridge filter unit

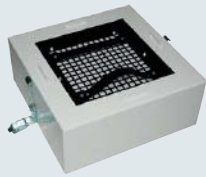
		Type of dedusting	
		manual Height: 670 mm	automatic Height: 797 mm
HandyCart HD		97902666	97904666



HandyCart Accessories

Filter cartridge PTFE
0,8m²(Units from
September 2003 on)

100281

Activated-carbon filter,
Conversion set

97901120



Activated-carbon filter

250 x 250 x 100 mm

97901125

Suction hose \varnothing 45 mm
with hard connection
pieces

Length 2,5m

9631925

Length 5m

9631950

Length 10m

96319 10

Funnel nozzle \varnothing 45 mm,
flexible, with magnetic
base

96317

Round nozzle \varnothing 45 mm,
flexible, with magnetic
base

963171

Slot nozzle \varnothing 45 mm,
with magnetic base

Width 300 mm

96318

Width 600 mm

938186



Floor suction nozzle,
Ø45, width 500 mm

12201

Suction pipe for floor
suction nozzle, Ø45,
length 1250mm

12202



Coupling sleeve for hose
Ø45 mm

12203



Set: Floor suction nozzle,
suction pipe, coupling
sleeve

1220010



Silencer

97801130



Pack of 10 PE-dust bags

10030252



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

Suitable for

Welding fumes, cutting fumes, cutting dust, laser fumes, plasma fumes, grinding dust, glueing 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.

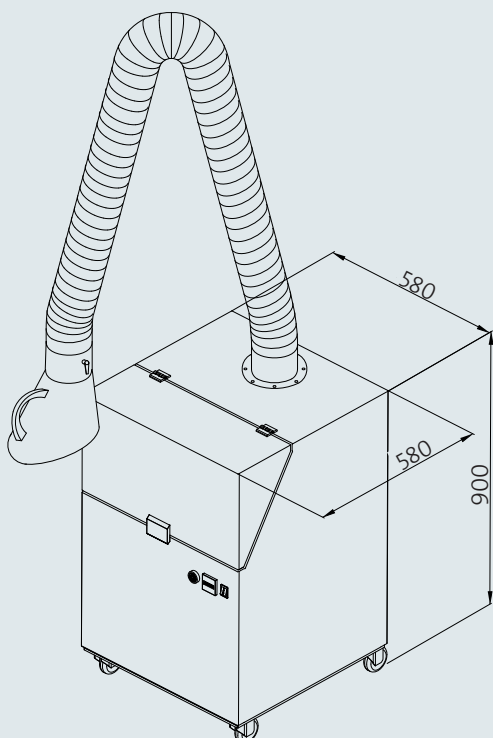
The unit meets the security requirements of units of the welding fume category W3 (high alloy steels). If you handle the unit correctly, you can use it for circulating air operation because it fulfills the requirements of the exceptional rules according to the German Hazardous Substances Ordinance (GefStoffV).

Standard equipment

- ▶ Gross filter with a large surface
- ▶ Prefilter
- ▶ Activated carbon filter
- ▶ Main filter with separation efficiency of $\geq 99\%$
- ▶ Electronic filter monitoring
- ▶ Operating hours metre
- ▶ 5 m mains cable
- ▶ 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
- ▶ Spark arrester screen for extraction hood



Technical Data

filtoo® Mechanical filter unit	
Max. volumetric flow of the fan	1600 m ³ /h
Max. pressure	1800 Pa
Motor performance	1,1 kW
Separation efficiency	$\geq 99\%$
Sound level	ca. 72 dB(A)
Dimensions (WxDxH)	580 x 580 x 900 mm
Weight	ca. 80 kg



Available versions

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

<p>Suction arm <i>hose, internal joints, 3 metres</i></p>	<p>978100</p>
<p>Hose <i>with hood and magnetic base, 3 metres</i></p>	<p>978200</p>

Accessories for **filtoo**[®]



Gross filter, set of 10, 490 x 490 x 20 mm

978003



Prefilter 484 x 484 x 48 mm

978004



Activated carbon filter 484 x 484 x 20 mm

978006



Main filter 520 x 520 x 250 mm

978005



Dust pre-separator StaVo

978013



Protection grille for exhaust hood

10372



Standard exhaust hood incl. throttle
Ø 150

66200



Adapter for exhaust hood angular,
300x300mm
PVC, black

66210



Adapter for exhaust hood round,
400mm
PVC, black

66220



filtoo with working surface

Suitable for

Variable workstations in workshops and in the metalworking industry. For welding, grinding and cutting with little smoke and dust.



Description

The mobile workbench is a brilliant variation on our top seller filtoo with suction arm. You get a mobile worktable with under-floor extraction and an integrated particle preseparator.

Due to the five-stage filtration system all dangerous particles are effectively filtered out from the working air. The mobile workbench is high-quality German engineering technology at its best.

Standard equipment

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



filtoo with working surface



incl. pre-separator
StaVo



Technical data

filtoo with working surface	
Max. volumetric flow of the fan	1600 m ³ /h
Max. pressure	1800 Pa
Motor performance	1,1 kW
Separation efficiency	≥ 99 %
Sound level	approx. 68 dB(A)
Dimensions (WxDxH)	1150 x 750 x 1350 mm
Weight	approx. 120 kg



Ideal for a small workshop

Accessories for **filtoo** with working surface



Coarse filter set, Set of 10,
490 x 490 x 20 mm

978003



Pre-filter 484 x 484 x 48 mm

978004



Activated carbon filter 484 x 484 x 20 mm

978006



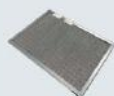
Main filter 520 x 520 x 250 mm

978005



Extension set for working surface
incl. alu mesh filter

978018



Replacement alu mesh filter
for extension set

978017

Available versions

filtoo with working surface

978300



CareMaster-IFA Mechanical filter unit with 1 suction element

Suitable for

Fume extraction involving unalloyed steels. This unit is IFA certified 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 ($\varnothing 150$ mm). The separation efficiency is $\geq 99\%$.

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.

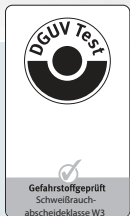
The unit is fitted with a high-capacity fan with high negative pressure which guarantees a high volumetric flow even if the filter is saturated.

Standard equipment

- ▶ Extensive pre-filter mat
- ▶ Particle filter with separation efficiency $\geq 99\%$
- ▶ Optical and acoustic filter monitoring
- ▶ Sealing device
- ▶ Operating hours meter
- ▶ Operation control lamp
- ▶ Suction arm $\varnothing 150$ mm or suction hose 12 m $\varnothing 150$ mm
- ▶ 5 m mains cable

Available as an option

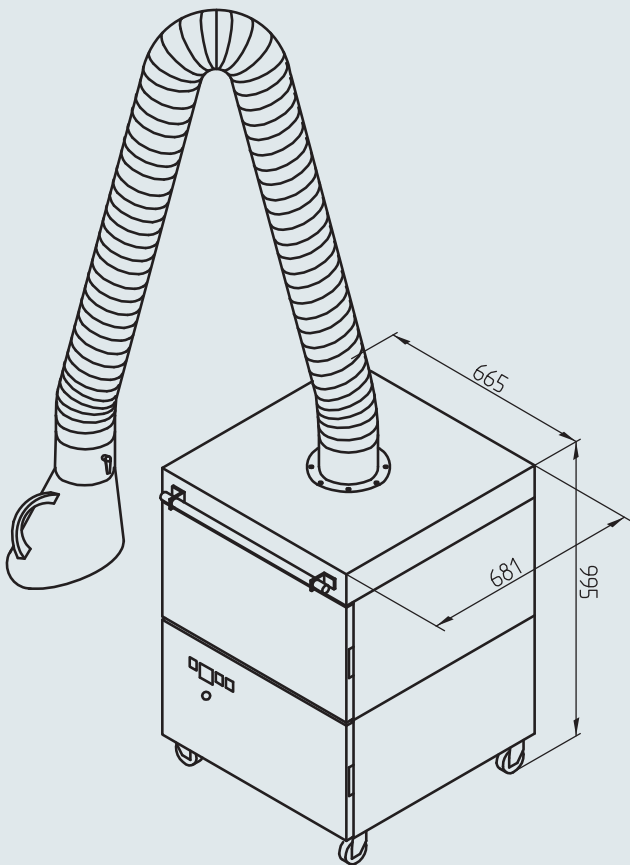
- ▶ Automatic start/stop system
- ▶ Lighting kit
- ▶ On/off switch via suction hood
- ▶ Aluminium mesh pre-filter
- ▶ Spark arrester screen for extraction hood



CareMaster-IFA
(Art.-Nr. 97300101)

Technical Data

CareMaster-IFA Mechanical filter unit	
Max. volumetric flow of the fan	2500 m ³ /h
Max. pressure	2500 Pa
Motor performance	1,1 kW
Separation efficiency	$\geq 99\%$
Sound level	approx. 70 dB(A)
Dimensions (WxDxH)	665 x 681 x 995 mm
Weight	approx. 122 kg






Example of application: CareMaster at a welding bench

Available versions

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



Accessories for CareMaster mobile

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

	Standard exhaust hood incl. throttle	Ø 150	66200
	Metal exhaust hood incl. throttle	Ø 150	104901
	On/off switch via exhaust hood, preassembled	only on initial order	96313321
	Lighting, preassembled	only on initial order	96323
	Adapter for exhaust hood angular (only for plastic hoods)	300x300mm PVC, black	66210
	Adapter for exhaust hood round (only for plastic hoods)	400mm PVC, black	66220



StrongMaster-IFA Mobile cartridge filter unit, 1 suction element

Suitable for

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



Description

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

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.

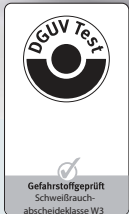
The air is exhausted on the backside of the unit through an outlet grill and rises up. Thus, at a 1 m distance, no disturbing air flow can be perceived any more.

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 enormously.



*StrongMaster-IFA
(Art.-Nr. 97030101)*



Technical data

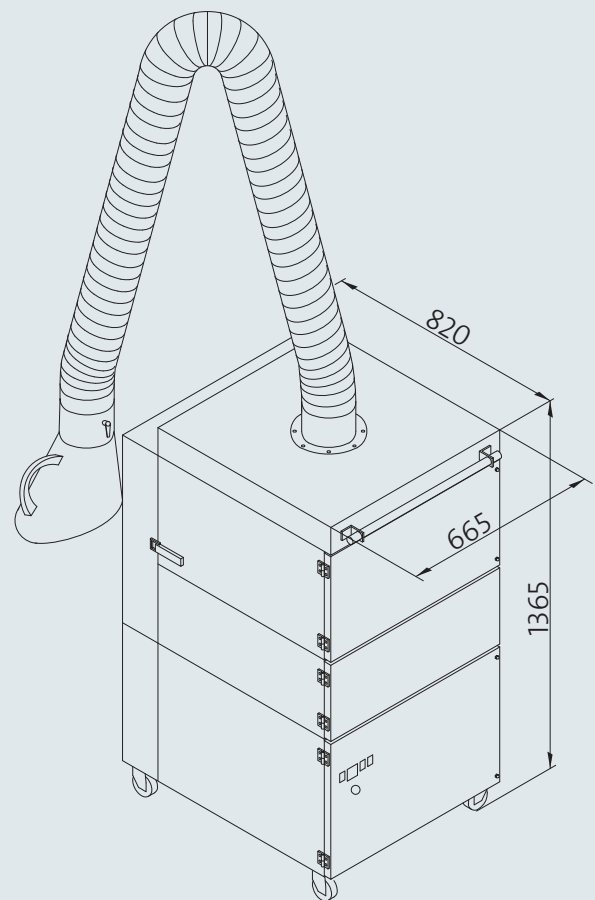
StrongMaster-IFA Cartridge filter unit	
Max. volumetric flow of the fan	1860 m ³ /h
Max. pressure	2900 Pa
Motor performance	1,1kW
Separation efficiency	$\geq 99\%$
Sound level	approx. 70 dB(A)
Dimensions (W×D×H)	665×820×1365 mm
Weight	approx. 130 kg

Standard equipment

- ▶ Pre-separator
- ▶ Long lasting, dedustable filter cartridge
- ▶ Optical and acoustic filter monitoring
- ▶ Sealing device
- ▶ Operating hours meter
- ▶ Suction arm Ø 150 mm or
12 m suction hose Ø 150 mm
- ▶ 5 m mains cable
- ▶ 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
- ▶ Spark arrester screen for extraction hood



Available versions

StrongMaster-IFA Cartridge filter unit, 1 suction element				
		Length		
		3 metres	4 metres	12 metres
Arm, hose type	Internal joints	97030101	97030102	
	External joints	97030111	97030112	
Hose with exhaust hood and magnetic foot				97030140

Subject to change. Images are similar to the actual product.



Accessories for StrongMaster-IFA



Filter cartridge, filter area 10m²
327×600 mm,
10m², dust class M
(Standard)

6160600110008



Filter cartridge, type easy clean
plus, 327 x 600 mm, 12,5 m²

6160600212508



Protection grille for exhaust hood

10372



PE bags (pack of 10)

10030250



Cartridge powder PRE, 100 g
(in bucket)

9510050001



Standard exhaust hood incl.
throttle Ø 150

66200



Metal exhaust hood
incl. throttle

Ø 150

104901



On/off switch
via exhaust hood, preassembled

only on initial
order

96313321



Lighting, preassembled

only on initial
order

96323



Adapter for exhaust hood angular
(only for plastic hoods)

300x300mm
PVC, black

66210



Adapter for exhaust hood round
(only for plastic hoods)

400mm
PVC, black

66220



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

Suitable for

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



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 $\geq 99\%$). 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

Technical Data

CartMaster Cartridge filter unit	
Max. volumetric flow of the fan	1860 m ³ /h
Max. pressure	2900 Pa
Motor performance	1,1 kW
Separation efficiency	$\geq 99\%$
Sound level	approx. 70 dB(A)
Dimensions (WxDxH)	665 x 1100 x 1495 mm
Weight	approx. 160 kg



CartMaster
(Art.-Nr. 97000101)



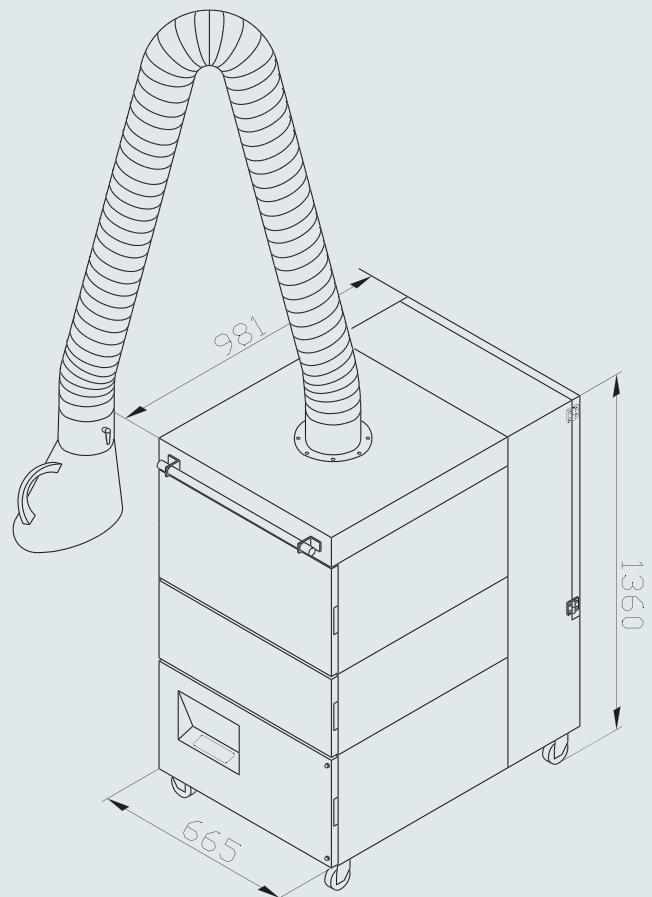
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- ▶ Suction arm \varnothing 150 mm or 12m suction hose \varnothing 150 mm
- ▶ 5 m mains cable
- ▶ PE bag for the dust collecting try

Available as an option

- ▶ Lighting kit
- ▶ On/off switch via suction hood
- ▶ Spark arrester screen for extraction hood



Available versions

CartMaster Cartridge filter unit with 1 suction element				
		Length		
		3 metres	4 metres	12 metres
Arm, hose type	Internal joints	97000101	97000102	
	External joints	97000111	97000112	
Hose with exhaust hood and magnetic foot				97000140

Subject to change. Images are similar to the actual product.



Accessories for CartMaster-IFA



Filter cartridge, filter area 10m²
327×600 mm,
10m², dust class M
(Standard)

6160600110008



Filter cartridge, type easy clean
plus, 327 x 600 mm, 12,5 m²

6160600212508



Protection grille for exhaust hood

10372



PE bags (pack of 10)

10030250



Cartridge powder PRE, 100 g
(in bucket)

9510050001



Standard exhaust hood incl.
throttle Ø 150

66200


	Metal exhaust hood incl. throttle	Ø 150		104901
	On/off switch via exhaust hood, preassembled	only on initial order		96313321
	Lighting, preassembled	only on initial order		96323
	Adapter for exhaust hood angular (only for plastic hoods)	300x300mm PVC, black		66210
	Adapter for exhaust hood round (only for plastic hoods)	400mm PVC, black		66220

Your TEKA partner:



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